



County of San Diego

HEALTH AND HUMAN SERVICES AGENCY

PUBLIC HEALTH SERVICES

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Community Epidemiology
Emergency & Disaster Medical Services
HIV, STD and Hepatitis
Immunization
Maternal, Child and Family Health Services
Public Health Laboratory
PH Nursing/Border Health
TB Control & Refugee Health
Vital Records

EMERGENCY MEDICAL SERVICES

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June 30, 2010

To Basic and Advanced Life Support Provider Agencies
Base Hospital Nurse Coordinators
Base Hospital Medical Directors
EMT-Paramedic Training Program Coordinators

Dear EMS Community:

NEW/REVISED 2010 EMERGENCY MEDICAL SERVICES TREATMENT PROTOCOLS/POLICIES

The Emergency Medical Care Committee, Base Station Physicians Committee and the Protocol Revision Subcommittee have been working to update the policies and protocols contained within the County of San Diego Emergency Medical Services Policy and Procedure Manual. We are pleased once again to present the complete manual on CD. Summaries of the ALS/BLS adult and pediatric treatment changes are included on the CD. The table of contents reflects the documents that have been updated for July 1, 2010 implementation.

Please replace earlier copies of your EMS Policy Manual with the updated documents. The County protocols and policies can also be found on our County website at www.SanDiegoCountyEMS.com under the EMS Prehospital system section. Contact Rebecca Pate at the EMS office for questions related to documents in the EMS System Policy Manual. Thank you.

Sincerely,

Bruce Haynes, M.D., Medical Director
Emergency Medical Services

BH:ss
Enclosure

**COUNTY OF SAN DIEGO
EMERGENCY MEDICAL SERVICES
POLICIES AND PROCEDURES
Master List**

Policy Designators:	
A	Air Medical
B	EMT-B
D	EMT-D
N	Non Emergency Medical Transport
P	Paramedic
S	System - applies to all components of EMS system
T	Trauma Care System
L	Automatic External Defibrillator

000 - SYSTEMS

- S-001 Emergency Medical Services System Compliance with State Statutes and Regulations
(7/07)
- S-002 Approval of Emergency Medical Services System Standards, Policies and Procedures
(7/07)
- S-003 Program Record Keeping: Training and Certification **(1/05)**
- S-004 Quality Assurance/Quality Improvement for the Prehospital Emergency Medical Services
System **(1/05)**
- S-005 EMS Medical Director's Advisory Committee (Base Station Physicians' Committee)
(7/07)
- S-006 Prehospital Audit Committee **(7/10)**
- S-007 Transfer Agreements **(7/07)**
- S-008 Interfacility Transfers - Levels of Care **(7/10)**
- S-009 Guidelines for the Prevention of Infectious and Communicable Diseases **(7/10)**
- S-010 Guidelines for Hospitals Requesting Ambulance Diversion **(7/07)**
- S-011 EMT/Advanced EMT/Paramedic Disciplinary Process **(7/10)**
- S-014 Guidelines for Verification of Organ Donor Status **(7/05)**
- S-015 Medical Audit Committee on Trauma **(7/02)**
- S-016 Release of Patient Information/Confidentiality **(7/04)**
- S-017 Downgrade or Closure of Emergency Services in a Hospital Designated as a Basic
Emergency Receiving Facility **(7/07)**
- S-018 EMS for Children (EMSC) Advisory Committee **(7/02)**
- S-019 Cardiac Advisory Committee **(8/06)**
- S-020 Designation of a Cardiovascular "STEMI" Receiving Center **(8/06)**
- S-021 De-Designation of a Cardiovascular "STEMI" Receiving Center **(8/06)**
- S-022 Infant Safe Surrender **(4/08)**

100 - TREATMENT GUIDELINES AND PROTOCOLS

SECTION I

- S-100 Introduction **(7/10)**
- S-101 Glossary of Terms **(7/10)**
- S-102 List of Abbreviations **(7/10)**

**COUNTY OF SAN DIEGO
EMERGENCY MEDICAL SERVICES
POLICIES AND PROCEDURES
Master List**

- SECTION II Standing Orders/Medication List/Drug Chart Inventory/Skills**
- S-103 BLS/ALS Ambulance Inventory (7/10)
 - P-104 ALS Skills List (7/10)
 - S-105 Latex-Safe Equipment List (7/09)
 - P-110 Adult ALS Standing Orders (7/10)
 - P-111 Adult Standing Orders for Communications Failure (7/10)
 - P-112 Pediatric ALS Standing Orders (7/10)
 - P-113 Pediatric Standing Orders for Communications Failure (7/10)
 - P-114 Pediatric MICU Inventory (7/05)
 - P-115 ALS Medication List (7/10)
 - P-115 (a) Pediatric Weight Based Dosage Standards (7/10)
 - P-117 ALS Pediatric Drug Chart (7/10)
- SECTION III Adult Treatment Protocols**
- S-120 Abdominal Discomfort/GI/GU (Non-Traumatic) (7/10)
 - S-121 Airway Obstruction (Foreign Body) (7/09)
 - S-122 Allergic Reaction/Anaphylaxis (7/10)
 - S-123 Altered Neurologic Function (Non-Traumatic) (7/10)
 - S-124 Burns (7/10)
 - S-126 Discomfort/Pain of Suspected Cardiac Origin (7/10)
 - S-127 Dysrhythmias (7/10)
 - S-129 Envenomation Injuries (7/09)
 - S-130 Environmental Exposure (7/09)
 - S-131 Hemodialysis Patient (7/09)
 - S-132 Near Drowning/Diving Related Incidents (7/09)
 - S-133 Obstetrical Emergencies (7/10)
 - S-134 Poisoning/Overdose (7/10)
 - S-135 Pre-Existing Medical Interventions (7/09)
 - S-136 Respiratory Distress (7/10)
 - S-137 Sexual Assault (7/09)
 - S-138 Shock (7/10)
 - S-139 Trauma (7/10)
 - S-140 Triage, Multiple Patient Incident/Mass Casualty Incident/Annex D (7/09)
 - S-141 Pain Management (7/09)
 - S-142 Psychiatric/Behavioral Emergencies (7/09)
 - S-150 Nerve Agent Exposure (11/08)
- SECTION IV Pediatric Treatment Protocols**
- S-160 Airway Obstruction (7/09)
 - S-161 Altered Neurologic Function (Non-Traumatic) (7/09)
 - S-162 ALS/Allergic Reaction (7/10)
 - S-163 Dysrhythmias (7/10)
 - S-164 Envenomation Injuries (7/09)
 - S-165 Poisoning/Overdose (7/10)
 - S-166 Newborn Deliveries (7/10)
 - S-167 Respiratory Distress (7/09)
 - S-168 Shock (Non-Traumatic) (7/09)
 - S-169 Trauma (7/10)
 - S-170 Burns (7/10)
 - S-172 Apparent Life Threatening Event (7/09)
 - S-173 Pain Management (7/10)

**COUNTY OF SAN DIEGO
EMERGENCY MEDICAL SERVICES
POLICIES AND PROCEDURES
Master List
200 - AIR MEDICAL TREATMENT PROTOCOLS**

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A-204	Skills List (7/07)
A-215	Medication List (7/07)
A-220	Abdominal Pain (Non-Traumatic) (7/07)
A-221	Airway Obstruction (Foreign Body) (7/07)
A-222	Allergic Reaction/Anaphylaxis (7/07)
A-223	Altered Neurologic Function (Non-Traumatic) (7/07)
A-224	Burns (7/07)
A-226	Discomfort/Pain of Suspected Cardiac Origin (7/07)
A-227	Dysrhythmias (7/07)
A-229	Envenomation Injuries (7/07)
A-230	Environmental Exposure (7/07)
A-231	Hemodialysis Patient (7/07)
A-232	Near Drowning/Scuba (7/07)
A-233	Obstetrical Emergencies (7/07)
A-234	Poisoning/Overdose (7/07)
A-235	Pre-Existing Medical Interventions (7/07)
A-236	Respiratory Distress (7/07)
A-237	Sexual Assault (7/07)
A-238	Shock (7/07)
A-239	Trauma (7/07)
A-240	Triage, Multiple, Patient Incident (7/07)
A-241	Pain Management, Adult (7/07)
A-260	Airway Obstruction (7/07)
A-261	Altered Neurologic Function (Non-Traumatic) (7/07)
A-262	Pediatric ALS-Allergic Reaction (7/07)
A-263	Dysrhythmias (7/07)
A-264	Envenomation Injuries (7/07)
A-265	Poisoning/Overdose (7/07)
A-266	Newborn Deliveries (7/07)
A-267	Respiratory Distress (7/07)
A-268	Shock (non traumatic) (7/07)
A-269	Trauma (7/07)
A-270	Burns (7/07)
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**COUNTY OF SAN DIEGO
EMERGENCY MEDICAL SERVICES
POLICIES AND PROCEDURES
Master List**

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P-300	EMT-Paramedic Training Program Student Eligibility (7/10)
P-301	Paramedic Training Program Requirements and Procedures for Approval (7/10)
P-302	Guidelines for Placement of Paramedic Interns in San Diego County (7/06)
P-303	Mobile Intensive Care Nurse Authorization/Reauthorization (7/07)
P-305	Paramedic Accreditation in San Diego County (7/10)
S-306	Designation of Authorized Providers of Continuing Education for Emergency Medical Services Personnel (1/05)
S-307	Continuing Education for Prehospital Personnel (7/10)
D-320	Defibrillation Training Program Student Eligibility (EMT/PS) (7/05)
D-321	Emergency Medical Technician/Public Safety-Defibrillation Training Program Requirements (7/05)
D-322	Emergency Medical Technician/Public Safety-Defibrillation Accreditation (7/05)
B-325	Perilaryngeal Airway Adjuncts Training Program Requirements (7/10)
B-326	EMT-Basic Optional Skills Student Eligibility (5/09)
B-327	EMT-Basic Optional Skills Accreditation (DELETED 7/10)
B-351	EMT Training Programs (7/10)
B-352	EMT Certification/Recertification (7/10)
B-360	Advanced EMT Training Programs (7/10) NEW
B-361	Advanced EMT Certification/Recertification (7/10) NEW

400 - MEDICAL CONTROL

S-400	Management of Controlled Drugs on Advanced Life Support Units (3/07)
P-401	Scope of Practice of Paramedic in San Diego County (7/10)
S-402	Prehospital Determination of Death (7/10)
P-403	Physician on Scene (7/10)
P-405	Communications Failure (7/10)
A-406	Determination of Death (7/02)
S-407	Triage to Appropriate Facility (7/07)
P-408	Variance from San Diego County Protocols for Advance Life Support (7/10)
S-409	Reporting of Issues in Patient Care Management (1/05)
P-410	San Diego County Special Assignment - Paramedic (7/10)
S-411	Reporting of Suspected Abuse (7/05)
S-412	Consent for Prehospital Treatment and Transport (7/10)
S-414	Do Not Resuscitate - DNR (7/06)
S-415	Base Hospital Contact/Patient Transportation and Report (7/10)
S-416	Supply and Resupply of Designated EMS Agencies and Vehicles (7/07)
D-418	Emergency Medical Technician/Public Safety-Defibrillation Equipment (7/05)
D-420	Transfer of Specific Patient Care Information Between Emergency Medical Technician/Public Safety-Defibrillation and Transport Personnel (7/03)
S-422	Application of Patient Restraints (7/02)
S-440	Utilization of Nerve Agent Exposure Drugs (11/08)
B-450	Emergency Medical Technician-I Scope of Practice (7/05)
B-451	Advanced Emergency Medical Technician Scope of Practice (7/10) NEW
T-460	Identification of the Trauma Center Candidate (7/08)
T-460 (a)	Trauma Decision Tree Algorithm (7/08)
S-461	Destination of Acute Stroke Patient (1/08)
A-475	Air Medical Support Utilization (7/04)

**COUNTY OF SAN DIEGO
EMERGENCY MEDICAL SERVICES
POLICIES AND PROCEDURES
Master List**

600 - DATA COLLECTION

- S-601 Communication and Documentation of Prehospital Patient Care Information (7/01)
- D-620 Emergency Medical Technician/Public Safety-Defibrillation Data Collection and Evaluation (2/99)
- D-621 Transfer of Patient Data/Medical Record (2/99)
- D-622 Esophageal Tracheal Airway Device Data Collection and Evaluation (2/99)

700 - BASE HOSPITAL/TRAUMA CENTER

- P-701 EMT-Paramedic Base Hospital Designation (7/05)
- P-702 Dedesignation of an EMT-Paramedic Base Hospital (7/05)
- T-703 Trauma Care Fund (7/08)
- T-705 Trauma Catchment Service Area (7/08)
- T-706 Role of the Pediatric Trauma Center (7/08)
- T-708 Trauma Care Coordination within the Trauma System (7/07)
- T-710 Designation of a Trauma Center (7/08)
- T-711 De-designation of a Trauma Center (7/08)
- T-712 Trauma Center Bypass (7/08)
- T-713 Resources for Trauma Team Response (7/08)
- T-714 Trauma Service Consultations for the Community (12/07)
- T-716 Transfer of Stable Trauma Service Health Plan Members (12/07)
- T-717 Trauma Center Injury Prevention Activities (7/07)
- T-718 Public Information & Education on Trauma Systems (12/07)
- T-719 Trauma Provider Marketing and Advertising (12/07)
- D-720 EMT/PS-D Base Hospital Designation (7/05)
- D-721 Quality Assurance for Emergency Medical Technician/Public Safety-Defibrillation (7/05)

800 - SERVICE PROVIDER AGENCY

- P-801 Designation of Providers of Advanced Life Support Service (1/05)
- S-803 Recovery of Prehospital Patient Care Reusable Equipment (7/07)
- P-804 Alternate Paramedic Service Provider Application/Designation (7/10)
- P-805 Advanced Life Support First Responder Units (7/10)
- P-806 Advanced Life Support First Responder Inventory (7/09)
- P-807 Wildland ALS Kit Inventory (7/09)
- B-808 Advanced EMT Service Provider Designation (7/10) **NEW**
- D-820 Emergency Medical Technician/Public Safety-Defibrillation Service Provider Designation (7/05)
- D-822 Perilaryngeal Airway Adjuncts Service Provider Designation (7/10)
- S-830 Ambulance Provider's Permit Application Process (7/03)
- S-831 Permit Appeal Process (6/93)
- B-833 BLS Ground Ambulance Vehicle Requirements (7/03)
- S-835 Requirements for Ground Critical Care Transport Services (7/07)
- S-836 Critical Care Transport Unit Inventory (7/07)
- N-840 Non Emergency Transport Provider's Permit Application Process (7/03)
- N-841 Non Emergency Medical Transport Service Requirements (7/03)
- B-850 Basic Life Support Ambulance Service Provider Requirements (7/04)
- A-875 Prehospital EMS Aircraft Classification (7/04)
- A-876 Air Ambulance Dispatch Center Designation/Dispatch of Air Ambulance (7/04)
- A-877 Air Ambulance Service Provider Authorization (7/04)

**County of San Diego, EMS Policy & Protocol Update
Summary of Changes
Effective: July 1, 2010**

Protocol #	Title	Instructions	Comments
	Master List	Replace	Updated
S-100	Treatment Protocol - Introduction	Replace	Updated to reflect language changes for Advanced EMT, EMT and paramedic. References updated.
S-101	Glossary of Terms	Replace	LEADS : Acronym for the steps to be performed in the assessment and documentation of intubation attempts: L ung Sounds, E nd Tidal CO2 Detection Device, A bundance of A bsence of Abdominal Sounds. D epth, S ize, D(Doctor) Hospital Verification.
S-102	List of Abbreviations	Replace	Mucosal Atomization Device (MAD) added, should have been added with previous update.
S-103	BLS/ALS Inventory	Replace	MAD added <u>Under Optional items:</u> Mesh hood for spitting patients. Tourniquet Under Normal Saline 250 ml bag 4 added: (2 if carrying premixed Dopamine). <u>Moved from mandatory to optional:</u> Aspiration based endotracheal tube placement verification devices.
P-104	ALS Skill List	Replace	<u>Esophageal Detection Device-aspiration based:</u> Perilaryngeal Airway added to contraindications. <u>ET/ETAD Medication:</u> Delete entire section. Route removed from protocols. <u>IN:</u> Intranasal added, reflecting previous year change. <u>IVP:</u> deleted, reflecting previous year change. <u>Spinal Stabilization:</u> Pregnant patients (>6mo) tilt 30 degrees – this corrects discrepancy, S-139 under BLS stated 30 degrees and P-104 stated 15. Thirty degrees is correct. Added to Indications: Not indicated in penetrating trauma without neurologic deficit.
D-108	EMT-Defibrillation AED and ETAD	Remove	Deleted

County of San Diego, EMS Policy & Protocol Update
Summary of Changes
Effective: July 1, 2010

P-110	ALS Adult Standing Order	Replace	Updated to reflect change to Zofran and tourniquets. IO added where appropriate. ET medication route deleted for all. Added Lidocaine for IO in conscious adult pt.
P-111	Adult Standing Orders for Communication Failure	Replace	IO added where appropriate ET medication route deleted for all.
P-112	ALS Pediatric Standing Orders	Replace	Updated to reflect change to tourniquet use. Second fluid bolus in cardiogenic shock. This corrects P-112 to reflect change that occurred in previous year.
P-113	Pediatric Standing Orders for Communication Failure	Replace	ET medication route deleted.
P-115	ALS Medication List	Replace	ET/ETAD medication route deleted. Added note under Nitroglycerin: "May encounter patients taking similar medication for pulmonary hypertension, usually Sildenafil (trade name: Revatio). The contraindication still applies."
P-117	ALS Pediatric Drug Chart	Replace	ET doses removed
S-120	Abdominal Discomfort/GI/Gu (non-traumatic)	Replace	Zofran was BHO, now SO
S-122	Allergic Reaction/Anaphylaxis	Replace	Formatting corrected.
S-123	ALOC	Replace	Window to transport to Stroke Center for suspected CVA increased to 4 hours (from 3).
S-124 S-134 S-165 S-170	Burns Poisoning/OD Poisoning/OD Peds-Burns	Replace	Statement added "unconscious or pregnant patients" to address those who should be considered for transport to hyperbaric chamber. Others can be safely transported to non-hyperbaric facility.
S-126	Discomfort/Pain of Suspected Cardiac Origin	Replace	IO route added to Dopamine.
S-127	Dysrhythmias	Replace	ET medication route deleted. IO route added where appropriate. Change: EMS personnel no longer need to witness the AICD firing two or more times prior to Lidocaine SO. Can now administer Lidocaine on SO if reported by patient or witness to have fired two or more times.
S-133	Obstetrical Emergencies	Replace	IO route added.

County of San Diego, EMS Policy & Protocol Update
Summary of Changes
Effective: July 1, 2010

S-136	Respiratory Distress	Replace	IO route added. CPAP formatting change. Note regarding pulmonary hypertension & Sildenafil added. (see P-115)
S-138	Shock	Replace	Change: septic shock Standing Order fluid bolus increased from 250ml to 500ml. Focus in septic shock should be on fluids, not dopamine.
S-139	Trauma	Replace	Added: Spinal Stabilization: <u>Not</u> indicated in penetrating trauma without neurologic deficit. Added: If BP \leq 90 IV/IO should be established <u>en route.</u> Tourniquet now SO
S-162	Peds-Allergic Reaction	Replace	ET medication route deleted
S-163	Peds-Dysrhythmias	Replace	ET medication route deleted
S-166	Peds- Newborn	Replace	ET medication route deleted
S-169	Peds-Trauma	Replace	Tourniquet now SO
S-173	Peds- Pain Management	Replace	Deleted: These orders may be implemented after the paramedic assesses the level of pain and determines if patient/DDM agrees to treatment.
Policy	Title	Instructions	Comments
S-006	Prehospital Audit Committee	Replace	Updated
S-402	Prehospital Determination of Death	Replace	Added: Obviously dead criteria in blunt trauma. a. No visible signs of life (no spontaneous movement, apneic, pulseless.) b. Cardiac rhythm of asystole. c. Mechanism of injury consistent with injuries. In addition to the definition the following statement is included in S-402: All patients with absent vital signs shall be treated with resuscitative measures, unless they are obviously dead or adult with blunt trauma arrest. Added Physician Orders for Life-Sustaining Treatment (POLST) language.
S-006, S-008, S-009, S-011, P-300, P-301, P-305, S-307, B-325, B-351, B-351 Attach, B-352, B-360, B-360 Attach, B-361, P-401, S-402, P-403, P-405, P-408, P-410, S-412, S-415, B-451, P-804, P-805, B-808, D-822		Replace	Updated due to EMT 2010

SUBJECT: EMERGENCY MEDICAL SERVICES SYSTEM COMPLIANCE
WITH STATE STATUES AND REGULATIONS

Date: 07/01/07

- I. **Authority:** Health and Safety Code, Division 2.5, Section 1797.220.
- II. **Purpose:** To assure compliance for the emergency medical services (EMS) system with applicable State Statutes and Regulations.
- III. **Policy:** The County of San Diego's EMS system and all its components shall comply with all State of California Statutes and Regulations regarding emergency medical services.

Approved:


Administration


Medical Director

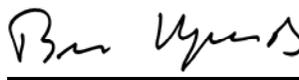
SUBJECT: APPROVAL/IMPLEMENTATION OF EMERGENCY MEDICAL
SERVICES SYSTEMS STANDARDS, POLICIES AND PROCEDURES

Date: 07/01/07

- I. **Authority:** Health and Safety Code, Division 2.5, Sections 1797.220 and 1798.
- II. **Purpose:** To approve standards, policies, and procedures for the Emergency Medical Services (EMS) system.
- III. **Policy:**
- A. EMS system standards, policies, and procedures shall be approved by the County of San Diego EMS Medical Director, or the Director of the Health and Human Services Agency, or designee, after review and comment by the Emergency Medical Care Committee (EMCC).
- B. All standards, policies, and procedures regarding medical control and medical accountability shall be approved by the County of San Diego EMS Medical Director, after review and comment by the EMS Medical Director's Advisory Committee (Base Station Physicians' Committee). This includes but is not limited to:
1. Treatment and triage protocols;
 2. Prehospital patient report;
 3. Patient care reporting requirements;
 4. Field medical care protocols.
- C. Providers shall be notified a minimum of forty-five (45) days prior to implementation of new or revised policies.
- D. It is preferred that implementation of new or revised policies take place annually in July.

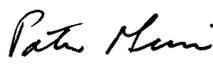
Approved:


Administration


Medical Director

- I. **Authority:** Health and Safety Code, Division 2.5, Sections 1797.204 and 1797.208.
- II. **Purpose:** To identify specific records to be maintained by the Emergency Medical Services Branch (EMS) regarding EMT-B certification, EMT-ETAD accreditation, PS-D accreditation, Paramedic accreditation, MICN authorization, AED authorization, and County approved continuing education (CE) providers and training programs.
- III. **Policy:**
 - A. County of San Diego, Emergency Medical Services Branch (EMS) shall maintain on its premises for a minimum of five (5) years, the following records:
 1. Approved EMS training program documentation including:
 - a. Application form and accompanying materials.
 - b. Copy of written approval from EMS.
 2. A list of current EMS Training Program medical directors, course directors, clinical coordinators and principal instructors.
 3. A list of all prehospital field personnel currently certified/accredited/authorized by the County of San Diego EMS Medical Director.
 4. A list of all field prehospital field personnel whose certificates have been suspended or revoked.
 5. A list of approved CE providers, including approval dates.
 - B. EMS shall submit annually, in January, to the State Emergency Medical Services Authority, the following:
 1. The names, addresses, and course directors of each approved EMS Training Program.
 2. The number of currently certified EMT-Bs, EMT-ETAD's, accredited Paramedics,

Approved:



Administration



EMS Medical Director

PS-D's and authorized MICNs in San Diego County.

- C. The State Emergency Medical Services Authority shall be notified in writing of any changes in the list of approved training programs as they occur.
- D. The State EMS Authority and the applicable EMT-B certifying authority shall be notified in writing of all reportable actions taken regarding a certificate holder's certificate, according to regulation.

Approved:



Administration



EMS Medical Director

I. **Authority:** Health and Safety Code, Division 2.5, Sections 1797.204, 1797.220, 1798, 1798.100 and 1798.102.

II. **Purpose:** To identify primary responsibilities of all participants in the County of San Diego's EMS system for achievement of optimal quality of prehospital care for patients who access the system.

III. **Definition(s):**

Emergency Medical Services System Quality Improvement Program (EMS QI)

Methods of evaluation that are composed of structure, process, and outcome evaluations that focus on improvement efforts to:

1. Identify root causes of problems
2. Intervene to reduce or eliminate these causes
3. Take steps to correct the problems.
4. Recognize excellence in performance and delivery of care.

IV. **Policy:**

A. The Health and Human Services Agency, Division of Emergency Medical Services (EMS) shall:

1. Develop and implement, in cooperation with other EMS system participants, a system-wide, written EMS QI plan.
2. Review the system EMS QI program annually for appropriateness to the system and revise as needed.
3. Develop, in cooperation with appropriate personnel/agencies, a performance improvement action plan when the EMS QI program identifies a need for improvement.
4. Provide the EMS Authority with an annual update of QI program activities.

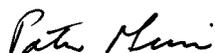
B. EMS Service Providers shall:

1. Develop and implement, in cooperation with other EMS System participants, a provider-specific, written EMS QI plan.
2. Review the provider specific EMS QI program annually for appropriateness to the operation of the of the EMS provider and revise as needed.
3. Participate in the local EMS agency's EMS QI Program that includes making available mutually agreed upon, relevant records for program monitoring and evaluation.
4. Develop in cooperation with appropriate personnel/agencies, a performance improvement action plan when the EMS QI Program identifies a need for improvement.

C. Paramedic Base Hospitals shall

1. Develop and implement, in cooperation with other EMS System participants, a hospital-specific, written EMS QI program.
2. Review the provider specific EMS QI program annually for appropriateness to the operation of the of the base hospital and revise as needed.

Approved:



Administration



EMS Medical Director

3. Participate in the local EMS agency's EMS QI Program that includes making available mutually agreed upon, relevant records for program monitoring and evaluation.
4. Develop in cooperation with appropriate personnel/agencies, a performance improvement action plan when the EMS QI Program identifies a need for improvement.

D. Agreements:

1. The County of San Diego, Division of EMS shall maintain agreements with Base Hospitals and EMS service providers requiring, but not limited to,
 - a. compliance with all the provisions listed in the California Code of Regulations, Title XXII, Division 9
 - b. compliance with all County of San Diego, Division of EMS system policies, procedures and protocols.
 - c. Reporting of significant issues in medical management to the EMS Medical Director.
 1. Incidents in which medications or treatments are provided which are outside approved treatment protocols, shall be reported to the EMS QI Program through the Base Hospitals or Provider Agencies in a timely manner. These incidents will also be reported at the Prehospital Audit Committee.
 2. Actions outside of the scope of prehospital personnel and actions or errors resulting in untoward patient effects, such as errors in the administration of medications, invasive procedures, defibrillation/cardioversion, or other patient treatments, shall be reported to the EMS Medical Director, within 48 hours.
2. These agreements shall provide the authority for the EMS Division to:
 - a. Perform announced and unannounced site surveys of Base Hospitals and EMS provider agencies.
 - b. Review patient care records necessary to investigate medical QI issues
3. Additionally the Division of EMS shall:
 - a. Support regional QI committees (not limited to Prehospital Audit Committee, Medical Audit Committee).
 - b. Attend Base Hospital/Agency Meetings.
 - c. Periodically monitor prehospital continuing education offerings
 - d. Perform random audits of prehospital patient records.
 - e. Develop and implement internal mechanisms to monitor, identify, report and correct, quality issues.
4. Reporting of significant issues in medical management to the EMS Medical Director:
 - a. Incidents in which medications or treatments are provided which are outside approved treatment protocols shall be reported to the regional QIP system shall be reported by the Base hospital or Agency personnel in a timely manner, through the Prehospital Audit Committee.
 - b. Actions that are outside of the scope of practice of prehospital personnel, and actions or errors resulting in actual or potential untoward patient outcomes, shall be reported to the EMS Medical Director within 48 hours.

Approved:



Administration



EMS Medical Director

SUBJECT: EMS MEDICAL DIRECTOR'S ADVISORY COMMITTEE
(Base Station Physicians' Committee)

Date: 07/01/07

- I. **Authority:** Health and Safety Code, Division 2.5, Section 1798.
- II. **Purpose:** To designate an advisory committee to provide consultation, medical protocol review, and recommendations regarding prehospital medical care issues to the Medical Director of the County of San Diego Emergency Medical Services (EMS).
- III. **Policy:** The County of San Diego EMS Medical Director may consult with the EMS Medical Director's Advisory Committee on issues concerning prehospital treatment protocols and prehospital medical care delivery in the EMS system.
 - A. **Membership:** The County of San Diego EMS Medical Director's Advisory Committee will have the following members:
 - a. All Base Hospital Medical Directors
 - b. One member representing Children's Hospital Emergency Department physician staff
 - c. One member representing approved paramedic training programs
 - d. One member representing County Paramedic Agencies Committee (CPAC)
 - e. One member representing the Base Hospital Nurse Coordinators Committee
 - f. One member representing the San Diego County Paramedics' Association
 - g. All prehospital agency physician Medical Directors
 - h. County of San Diego EMS Medical Director or designee (*ex officio*)
 - i. County of San Diego EMS Prehospital Coordinator (*ex officio*)
 - B. The responsibilities of the San Diego County EMS Medical Director's Advisory Committee are:
 1. To meet as an Advisory Committee on a monthly basis.

Approved:


Administration


EMS Medical Director

SUBJECT: EMS MEDICAL DIRECTOR'S ADVISORY COMMITTEE
(Base Station Physicians' Committee)

Date: 07/01/07

2. To develop an agenda in conjunction with the San Diego County EMS Medical Director.
 3. To consult on prehospital medical issues.
 4. To convene small task forces of Advisory Committee members and others to work with the San Diego County EMS Medical Director or designee on specific medical management issues.
 5. To consult with other medical specialties, or other advisory bodies in the County, as necessary.
 6. To evaluate written statement(s) from Base Hospital Medical Director(s) questioning the medical effect of an EMS policy.
- C. Election of Officers:
- Committee officer shall consist of one chairperson which is a physician. Elections will take place during the last meeting of each calendar year and appointee shall assume office at the first meeting of the new calendar year. Officers elected shall serve a one year term, and may be re-elected for an additional term.
- D. Due to the "advisory" nature of the committee, many issues require consensus rather than a vote process. Vote process issues will be identified as such by the Chairperson. When voting is required, a "simple" majority of the voting members of the committee need to be present to constitute a quorum.

Approved:


Administration


EMS Medical Director

SUBJECT: PREHOSPITAL AUDIT COMMITTEE

Date: 7/01/2010

- I. **Authority:** Division 2.5, Health and Safety Code, Sections 1797.204 and 1798; evidence Code, Sections 1040 and 1157.7.
- II. **Purpose:**
- A. To establish an advisory committee to the local Emergency Medical Services (EMS) Agency to monitor, evaluate and report on the quality of prehospital medical care.
 - B. To promote Countywide standardization of the quality improvement process with emphasis on the educational aspect.
 - C. To review issues and matters of a system wide nature. It shall not be the function of this committee to become directly involved in the disciplinary action of any specific individual. The authority for actual disciplinary action rests with the County EMS Medical Director and/or the State EMS Authority in accordance with Health and Safety Code, Division 2.5, Section 1798.200.
- III. **Policy:**
- A. **Scope of Review:**
The scope of review to be conducted by the committee may include any patient encountered in the prehospital system in the County of San Diego. The review will include, but not be limited to:
 - 1. Issues reported to the County (refer to P-409 of County San Diego Emergency Medical Services Policy and Protocol Manual).
 - 2. Variations from Protocols.
 - 3. Deviations from Scope of Practice.
 - 4. Medication errors.
 - 5. Intubation complications.

Approved:


Administration


EMS Medical Director

SUBJECT: PREHOSPITAL AUDIT COMMITTEE

Date: 7/01/2010

6. Variations from standards of care.
7. Unusual cases or cases with education potential.

B. Membership:

Members will be designated according to the following format and changes in elected/appointed members will take place at the end of the odd calendar year.

Voting members:

1. The Base Hospital Medical Director of each of the County's Base Hospitals.
2. The Base Hospital Nurse Coordinator of each of the County's Base Hospitals.
3. The Medical Director of the Emergency Department at Rady Children's Hospital and Health Center.
4. The prehospital nurse liaison of the Emergency Department at Rady Children's Hospital and Health Center.
5. The Medical Director of each of the County's approved advanced life support (ALS) agencies.
6. One medical EMS liaison military representative.
7. One current paramedic provider agency representative appointed by County Prehospital Agencies Committee (CPAC).
8. One San Diego County Fire Chiefs' Association, EMS Section representative.
9. Two paramedics (one public and one private provider) appointed by San Diego County Paramedic Association.
10. One EMT appointed by San Diego County Ambulance Association.
11. One first responder representative.
12. County staff (*ex officio*).

Approved:


Administration


EMS Medical Director

SUBJECT: PREHOSPITAL AUDIT COMMITTEE

Date: 7/01/2010

13. One Trauma Hospital Medical Director representing the Medical Audit Committee (MAC) on Trauma.

Associate members (non-voting):

1. One designated representative responsible for QI/QA/Education from each ALS transporting agency. The ALS transporting agency will send a letter of notification to County of San Diego Emergency Medical Services designating their representative, updating as needed.
2. The Program Director of each of the County's approved EMT-Paramedic training programs.
3. One emergency medicine resident or fellow from each training program.

C. Attendance:

1. Members will notify the Chairperson of the committee in advance of any scheduled meeting they will be unable to attend.
2. Resignation from the committee may be submitted, in writing, to the EMS Medical Director, and is effective upon receipt, unless otherwise specified.
3. At the discretion of the PAC Chairperson and/or County EMS, other invitees may participate in the medical audit review of cases where their expertise is essential to make appropriate determinations. These invitees may include, but are not limited to the following:
 - Paramedic agencies representatives
 - Law enforcement
 - EMT provider
 - Paramedics

Approved:


Administration


EMS Medical Director

SUBJECT: PREHOSPITAL AUDIT COMMITTEE

Date: 7/01/2010

- MICNs
- Physicians
- Communication/dispatch representatives

D. Election of Officers:

Committee officers shall consist of two co-chairpersons, one of which is a physician. Elections will take place during the last meeting of each calendar year and appointees shall assume office at the first meeting of the new calendar year. Officers elected shall serve a one year term, and may be re-elected for one additional term.

E. Voting:

Due to the "advisory" nature of the committee, many issues will require input rather than a vote process. Vote process issues will be identified as such by the Chairperson. When voting is required, a "simple" majority of the voting members of the committee need to be present to constitute a quorum.

F. Meetings:

The committee shall meet on a monthly basis or at a frequency as determined to be appropriate by the Chairperson, but never less frequently than bimonthly.

G. Minutes:

Minutes will be kept by the EMS Secretary or designee and made available to the members of the committee. Due to the confidentiality of the committee, any distributed confidential documents will be collected by the EMS staff at the close of each meeting and no copies may be made or processed by members of the committee.

H. Confidentiality:

Approved:


Administration


EMS Medical Director

SUBJECT: PREHOSPITAL AUDIT COMMITTEE

Date: 7/01/2010

1. All proceedings, documents and discussions of the Prehospital Audit Committee are confidential and pursuant to Sections 1040, 1157.5 and 1157.7 of the Evidence Code of the State of California. The prohibition relating to the discovery of testimony provided to the committee shall be applicable to all proceedings and records of this committee, which is one established by a local government agency as a professional standards review organization which is organized in a manner which makes available professional competence to monitor, evaluate and report on the necessity, quality and level of specialty health services, including but not limited to prehospital care services. Guests may be invited to discuss specific cases and issues in order to assist the committee in making final case or issue determinations. Guests may only be present for the portions of the meeting about which they have been requested to review or testify.
2. All members shall sign a confidentiality agreement not to divulge or discuss information that would have been obtained solely through Prehospital Audit Committee membership. Prior to the invited guests participating in the meeting, the Chairperson is responsible for explaining, and obtaining, a signed confidentiality agreement for invited guest(s).

Approved:


Administration


EMS Medical Director

SUBJECT: TRANSFER AGREEMENTS

Date: 07/01/07

- I. **Authority:** California Health & Safety Code Section 1798.172.
- II. **Purpose:** To ensure that all interfacility transfers of patients are accomplished with due consideration for the patients' health and safety.
- III. **Policy:**
 - A. All acute care hospitals in San Diego County with basic or comprehensive emergency departments shall comply with all applicable statutes and regulations regarding the medical screening, examination, evaluation, and transfer of patients that present to that hospital's emergency department.
 - B. All acute care hospitals shall comply with all applicable statutes and regulations regarding implementation of agreements to ensure that patients with an emergency medical condition who present at that facility, and that facility is unable to accommodate that patient's specific condition, are transferred to a facility with capabilities specific to that patient's need.
 1. Hospitals shall develop the mechanisms or agreements necessary to ensure that patients requiring specialty services are appropriately transferred when that hospital is unable to provide that specialty service.
 2. Hospitals shall ensure the appropriateness and safety of patients during transfers by implementing policies and protocols which address the following:
 - a. Type of patient.

Approved:


Administration


Medical Director

SUBJECT: TRANSFER AGREEMENTS

Date: 07/01/07

- b. Initial patient care treatment.
- c. Requirements and standards for interhospital care.
- d. Logistics for transfer, evaluation, and monitoring the patient.

Approved:


Administration


Medical Director

- I. **Authority:** California Health & Safety Code 1798.172.
- II. **Purpose:** To provide guidelines for ambulance transport of patients between acute care hospitals.
- III. **Policy:**
 - A. A patient whose emergency medical condition has not been stabilized should not be transferred from a hospital which is capable of providing the required care.
 - B. Unstable patients shall be transferred only when the reason for the transfer is to medically facilitate the patient's care. The transport of unstable patients must have the concurrence of both the transferring and receiving physicians that the transfer is appropriate.
 - C. It is the responsibility of the transferring physician, in consultation with the receiving physician, to determine the appropriate mode of transportation and the appropriate medical personnel (EMT, Paramedic, RN, Physician, etc.) to provide care during transport.
 - D. Medical personnel providing interfacility transport shall have the capabilities and skills reasonably necessary to provide for the specific needs of the patient during the transport.
 - E. Prehospital personnel involved in the interfacility transportation of patients shall adhere to pertinent County and State policies, procedures and protocols pertaining to the scope of practice of prehospital personnel.
 - F. Hospitals with basic or comprehensive emergency departments shall comply with

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Administration


EMS Medical Director

all applicable statutes and regulations regarding the medical screening examination, evaluation, and transfer of patients that present to that hospital's emergency department.

G. The levels of ambulance services available for the interfacility transport of patients include:

1. Basic Life Support Ambulance

- a. The ambulance is staffed with at least two EMTs.
- b. The patient is anticipated to require no more than basic life support skills during the transport.
- c. Patient care may not exceed the EMT Scope of Practice.
- d. The patient must be considered "stable" prior to the transport.
- e. If the patient's condition deteriorates during the transport, the ambulance shall immediately proceed to the closest facility with a licensed emergency department.

2. Critical Care Transport - (including air medical ambulances)

- a. The ambulance is staffed with clinical personnel (R.N., Respiratory Therapist, Physician, etc.) appropriate to the requirements of the patient as determined by the transferring physician in consultation with the receiving physician.
- b. Unstable patients and those requiring clinical skills beyond those of EMTs shall be transported via critical care transport.

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EMS Medical Director

- c. When nursing personnel are utilized during the transport, written orders from the transferring physician or other responsible physician covering medical and nursing activities shall accompany the patient.
3. Paramedic and/or AEMT Ambulance
- a. Paramedic/AEMT/9-1-1 system personnel may be used to transport patients ONLY as a last resort when alternative forms of transportation are unavailable, or when the delay in obtaining alternative transport would pose an imminent threat to the patient's health and safety.
 - b. Hospital personnel accessing the emergency medical services (EMS) system for such transports shall note that, by accessing the EMS system, they may deplete the EMS resources of their local community.
 - c. In such situations, Paramedic/AEMT/9-1-1 system personnel shall be given as thorough and complete a patient report as is possible by sending hospital staff, and will transport the patient IMMEDIATELY.
 - d. Paramedic/AEMT/9-1-1 system personnel should NOT wait at the sending hospital for the completion of medical procedures or the copying of medical records, x-rays, etc. Paramedic/AEMTs will not be expected to wait longer than 10 minutes while a patient is being prepared for transport by the sending facility. After 10 minutes, they may notify their dispatcher and may return to service.
 - e. Interfacility transfers utilizing Paramedic/AEMT personnel shall remain

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under Base Hospital (not sending hospital) medical direction and control. Additional hospital resources (e.g., Physicians, nurses, etc) may be requested, when in the judgment of the Base Hospital, additional resources are needed. Paramedics/AEMTs will operate within their scope of practice and in accordance with all other County policies and procedures during interfacility transfers.

- f. The Prehospital Audit Committee (PAC) will review significant events and/or trends when Paramedic/AEMT/9-1-1 system personnel have been utilized for interfacility transfers to ensure that 9-1-1 system personnel are being utilized appropriately. Issues identified by PAC will be referred to the EMS Branch for further action.

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Administration



EMS Medical Director

SUBJECT: **GUIDELINES FOR THE PREVENTION OF INFECTIOUS AND COMMUNICABLE DISEASES** Date: 7/01/2010

- I. **Authority:** California Health & Safety Code Chapter 3, Article 5, Section 1797.186, 1797.188 and 1797.189.
- II. **Purpose:** To reduce the risk of exposure/transmission of infectious and communicable diseases to prehospital personnel and to patients.
- III. **Policy:**
 - A. All prehospital agencies (including first responder agencies, EMT, Advanced EMT (AEMT), and Paramedic provider agencies, EMT, AEMT and Paramedic training agencies, Base Hospitals, and aeromedical providers) shall develop and implement comprehensive policies and procedures that are in compliance with the guidelines and requirements outlined by the Centers for Disease Control and the California Occupational Safety & Health Administration regarding "universal precautions" and the protection of personnel and patients from exposure to blood borne and other infectious diseases.
 - B. All prehospital provider agencies shall develop and implement policies regarding the prompt reporting and follow-up of exposures to infectious diseases.

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Administration


EMS Medical Director

SUBJECT: GUIDELINES FOR HOSPITALS REQUESTING
AMBULANCE DIVERSION

Date: 07/01/07

- I. **Authority:** California Health and Safety Code, Division 2.5, Section 1797.220, 1798 and California Code of Regulations, Title 13, Section 1105c: "In the absence of decisive factors to the contrary, ambulance drivers shall transport emergency patients to the most accessible emergency facility equipped, staffed, and prepared to administer care appropriate to the needs of the patient."
- II. **Purpose:**
- A. To transport emergency patients to the most accessible medical facility which is staffed, equipped, and prepared to administer emergency care appropriate to the needs and requests of the patient.
 - B. To provide a mechanism for a receiving hospital to request diversion of patients from its emergency department when it has been determined that the hospital is not staffed, equipped, and/or prepared to care for additional patients. It is the expectation that all basic emergency receiving hospitals shall make every effort to minimize the duration and occasions of closure and diversion requests, and make every effort to re-open as soon as possible.
 - C. To assure prehospital providers units are not unreasonably removed from their area of primary response when transporting patients to a hospital.
- III. **Policy:**
- A. Diversion Categories

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Administration


EMS Medical Director

**SUBJECT: GUIDELINES FOR HOSPITALS REQUESTING
AMBULANCE DIVERSION**

Date: 07/01/07

It shall be the responsibility of the satellite hospitals to keep their Base Hospital(s) informed of their status. Satellite hospitals may request diversion; however, the final destination decision shall be made by the Base Hospital MICN/BHMD after consideration of all pertinent factors (i.e. status of area hospitals, ETA's, patient acuity and condition). A hospital may request diversion for the following reasons:

1. **Emergency Department Saturation** – Hospital's emergency department resources are fully committed and are not available for additional incoming ambulance patients.
 2. **Neuro/CT Scan Unavailability** - Hospital is unable to provide appropriate care due to non-functioning CT-Scan and/or unavailability of a neurosurgeon. (Only for patients exhibiting possible neurological problems.)
 3. **Internal Disaster** – Hospital cannot receive any patients because of a physical plant breakdown (e.g. fire, bomb threat, power outage, etc.)
- B. In the event of anticipated prolonged diversion, notification shall be made to the County of San Diego, Health and Human Services Agency (HHSA) Emergency Medical Services Branch.
- C. Units dispatched as BLS and/or downgraded to BLS will contact the anticipated patient destination. If that destination is unable to accept patients

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Administration


EMS Medical Director

**SUBJECT: GUIDELINES FOR HOSPITALS REQUESTING
AMBULANCE DIVERSION**

Date: 07/01/07

due to diversion status, the transporting crew will contact the Base Hospital to determine destination and to relay patient information.

- D. Base Hospital direction of Mobile Intensive Care Units (MICUs).
1. Base Hospitals will attempt to honor diversion requests provided that:
 - a. The involved MICU estimates that it can reach an “alternate” facility within a reasonable time, giving consideration to limiting transport time to no greater than 20 minutes.
 - b. Patients are not perceived as exhibiting uncontrollable life threatening problems in the field (e.g. unmanageable airway, uncontrolled non-traumatic hemorrhage, or non-traumatic full arrest) or any other condition that warrants immediate physician intervention. (Patients meeting trauma criteria shall be transported according to Trauma Policies Protocols and Policy (See S-139 B, S-169, and T-460).
 2. If all area receiving hospitals are “requesting diversions” due to emergency department saturation, the “diversion requests” status may not be honored and the patient will be transported to the most accessible emergency medical facility within that area.
 3. MICNs and prehospital personnel will make best efforts to ensure ambulance patients will be transported to their (patient/family) requested facility.

Approved:


Administration


EMS Medical Director

SUBJECT: GUIDELINES FOR HOSPITALS REQUESTING
AMBULANCE DIVERSION

Date: 07/01/07

4. Any exceptions from this policy will be made by Base Hospital Physician Order only.
- E. HHSa EMS Branch staff and/or designee may monitor and/or perform unannounced site visits to hospitals to ensure compliance with these guidelines.
- F. Issues of noncompliance should be reported to the Emergency Medical Services Branch.

Approved:


Administration


EMS Medical Director

SUBJECT: EMT / ADVANCED EMT / PARAMEDIC
DISCIPLINARY PROCESS

Date: 7/1/2010

- I. **Authority:** Health and Safety Code, Division 2.5, Sections 1797.61, 1797.62, 1797.107, 1797.118, 1797.176, 1797.184, 1797.202, 1797.210, 1797.216, 1798.201, & 1798.202
- II. **Purpose:** To establish the requirements for “Disciplinary Cause” which refers to an act that is substantially related to the qualifications, functions, and duties of an EMT and/or AEMT and to define an equitable process for discipline that allows the County of San Diego EMS to protect the public health and safety while ensuring the due process rights of the holder or applicant for an EMT and/or AEMT certification.
- III. **Policy-EMT/ AEMT:**
- A. The classification of prehospital emergency medical services personnel certified under provisions of the California Code of Regulations, Title 22, Division 9, Chapter 6 include:
1. Emergency Medical Technician (EMT).
 2. Emergency Medical Technician-II (EMT-II).
 3. Advanced Emergency Medical Technician (AEMT).
- B. The County of San Diego EMS Medical Director may take appropriate action according to these policies and procedures, against the certificate of any prehospital emergency care personnel certified, pursuant to Division 2.5 of the Health and Safety Code, for which any of the following conditions is true:
1. The certificate was issued by the local EMS Medical Director; or
 2. The certificate holder utilizes or has utilized the certificate or the skills authorized by the certificate within the County of San Diego.

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Administration


Medical Director

SUBJECT: EMT / ADVANCED EMT / PARAMEDIC
DISCIPLINARY PROCESS

Date: 7/1/2010

- C. The County of San Diego EMS, upon receiving any complaint against an EMT or AEMT shall forward the original complaint and any supporting documentation to the relevant employer for investigation. A relevant employer is defined as an ambulance service permitted by the California Highway Patrol, or a public safety agency, a fire department, law enforcement agency, or other public safety agency that employs EMT's.
- D. The responsibilities of the relevant employer include:
1. Develop agency policy regarding disciplinary action and notification processes for EMT and/or AEMT staff.
 2. Within three (3) days of validated allegation(s), the relevant employer shall notify the LEMSA that has jurisdiction in the county in which the alleged violation occurred, as well as the certifying entity.
 3. Relevant Employers will have first right of refusal to conduct investigations of an allegation of misconduct.
 4. Relevant Employers who conduct investigations shall create a disciplinary action plan that is consistent with the State of California Recommended Guidelines for Disciplinary Orders and Conditions of Probation for EMT and Advanced EMT. The disciplinary action plan shall be submitted to the County of San Diego EMS within three (3) working days of adoption of the disciplinary plan. If the certification was issued outside the County of San Diego, the disciplinary plan shall be submitted to the issuing LEMSA. If the certification was issued by a non-LEMSA certifying entity, the disciplinary plan shall be

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Administration



Medical Director

SUBJECT: EMT / ADVANCED EMT / PARAMEDIC
DISCIPLINARY PROCESS

Date: 7/1/2010

submitted to the LEMSA that has jurisdiction where the headquarters of the certifying entity is located.

5. The relevant employer is to notify, within three (3) days, both the certifying entity and the local EMS agency that has jurisdiction where the alleged action occurred of any of the following:
 - a. The EMT or AEMT is terminated or suspended for disciplinary cause
 - b. The EMT or AEMT retires or resigns following the notification of impending investigation based on evidence that would indicate the existence of disciplinary cause, or
 - c. The EMT or AEMT is removed from EMT or AEMT related duties for disciplinary cause after the completion of the employer's investigation.
 6. The relevant employer is to refer investigations that may lead to certification action to the local EMS agency in the event the relevant employer does not wish to conduct the investigation.
 7. County of San Diego EMS shall consult with the relevant employer regarding issuing a temporary suspension order prior to initiation.
- E. An evaluation and determination by the Relevant Employer and/or County of San Diego EMS that any of the following actions have occurred constitutes evidence of a threat to the public health and safety and is cause for initiating a formal investigation and possible disciplinary action:
1. Fraud in the procurement of any certification issued under Part 1 of Division 2.5 of the Health and Safety Code.

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Administration



Medical Director

SUBJECT: EMT / ADVANCED EMT / PARAMEDIC
DISCIPLINARY PROCESS

Date: 7/1/2010

2. Gross negligence.
3. Repeated negligent acts.
4. Incompetence.
5. The commission of any fraudulent, dishonest or corrupt act, which is substantially related to the qualifications, functions, and duties of Prehospital personnel.
6. Conviction of any crime, which is substantially related to the qualifications, functions and duties of Prehospital personnel. The record of conviction or certified copy thereof shall be conclusive evidence of such conviction.
7. Violating or attempting to violate directly or indirectly, or assisting or abetting the violation of, or conspiring to violate any provision of Part 1 of Division 2.5 of the Health and Safety Code or of the regulations adopted by the Authority pertaining to Prehospital personnel.
8. Violating or attempting to violate any Federal or State statute or regulation, which regulates narcotics, dangerous drugs or controlled substances.
9. Addiction to the excessive use of, or the misuse of alcoholic beverages, narcotics, dangerous drugs or controlled substances.
10. Functioning outside of the supervision of medical control in the field care system operating at the local level, except as authorized by any other license or certification.
11. Demonstration of irrational behavior or occurrence of physical disability to the extent that a reasonable and prudent person would have reasonable cause to

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Administration



Medical Director

SUBJECT: EMT / ADVANCED EMT / PARAMEDIC
DISCIPLINARY PROCESS

Date: 7/1/2010

believe that the ability to perform the duties normally expected may be impaired.

12. Unprofessional Conduct Exhibited by any of the following:
 - a. The mistreatment or physical abuse of any patient resulting from force in excess of what a reasonable and prudent person trained and acting in a similar capacity while engaged in the performance of his or her duties would use if confronted with a similar circumstance.
 - b. The failure to maintain confidentiality of patient medical information, except as disclosure is otherwise permitted or required by law in Sections 56-56.6, inclusive of the Civil Code.
 - c. The commission of any sexually related offense specified under Section 290 of the Penal Code.
- F. Certification actions relative to the individual's certificate shall be taken as a result of the findings of an investigation and will be consistent with State of California Recommended Guidelines for Disciplinary Orders and Conditions of Probation for EMT and/or AEMT as noted in this policy
- G. The following factors shall be considered for determination of the certification action to be imposed on the respondent. Specifically, whether the certification action warranted is denial, probation, suspension, or revocation:
 1. Nature and severity of the act(s), offense(s), or crime(s) under consideration
 2. Actual or potential harm to the public
 3. Actual or potential harm to any patient

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Approved:



Administration



Medical Director

SUBJECT: EMT / ADVANCED EMT / PARAMEDIC
DISCIPLINARY PROCESS

Date: 7/1/2010

4. Prior disciplinary record
5. Prior warnings on record or prior remediation
6. Number and/or variety of current violations
7. Aggravating evidence
8. Mitigating evidence
9. Rehabilitation evidence
10. In case of a criminal conviction, compliance with terms of the sentence and/or court-ordered probation
11. Overall criminal record
12. Time elapsed since the act(s) or offense(s) occurred
13. If applicable, evidence of expungement proceedings pursuant to Penal Code 1203.4
14. In determining appropriate certification disciplinary action, the County of San Diego medical director may give credit for prior disciplinary action imposed by the respondent's employer.

The County of San Diego Medical Director has the final determination as to the certification action and/or disciplinary action to be imposed.

H. Certification Actions:

Actions taken shall be in accordance with Model Disciplinary Orders (MDOs) established by the State of California EMS Authority.

1. Probation

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Medical Director

SUBJECT: EMT / ADVANCED EMT / PARAMEDIC
DISCIPLINARY PROCESS

Date: 7/1/2010

The County of San Diego EMS Medical Director may place an EMT or AEMT certificate holder on probation any time an infraction or performance deficiency occurs which indicates a need to monitor the certificate holder's conduct in the EMS system, in order to protect the public health and safety.

2. Suspension

The County of San Diego EMS Medical Director may suspend an EMT or AEMT certificate for a specified period of time for disciplinary cause in order to protect the public health and safety.

- a. Upon the expiration of the term of suspension, the individual's certificate shall be reinstated only when all conditions for reinstatement have been met. The medical director shall continue the suspension until conditions for reinstatement have been met.
- b. If the suspension period will run past the expiration date of the certificate the EMT or AEMT shall meet the recertification requirements for certificate renewal prior to the expiration date of the certificate.

3. Denial and/or Revocation

The Medical Director shall deny or revoke an EMT or AEMT certificate if any of the following apply to an applicant or certificate holder:

- a. Has committed any sexually related offense specified under Section 290 of the Penal Code.
- b. Has been convicted of murder, attempted murder, or murder for hire.
- c. Has been convicted of two (2) or more felonies.

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Administration



Medical Director

SUBJECT: EMT / ADVANCED EMT / PARAMEDIC
DISCIPLINARY PROCESS

Date: 7/1/2010

- d. Is on parole or probation for any felony.
- e. Has been convicted and released from incarceration for said offense during the preceding fifteen (15) years for the crime of manslaughter or involuntary manslaughter.
- f. Has been convicted and released from incarceration for said offense during the preceding ten (10) years for any offense punishable as a felony.
- g. Has been convicted of two (2) or more misdemeanors within the preceding five (5) years for any offence relating to the use, sale, possession, or transportation of narcotics or addictive or dangerous drugs.
- h. Has been convicted of two (2) or more misdemeanors within the preceding five (5) years for any offence relating to force, threat, violence, or intimidation.
- i. Has been convicted within the preceding five (5) years for any theft related misdemeanor.

The County of San Diego EMS Medical Director may deny or revoke an EMT or AEMT certification if any of the following apply to the applicant:

- a. Has committed any act involving fraud or intention dishonesty for personal gain within the preceding seven (7) years.
- b. Is required to register pursuant to Section 11590 of the Health and Safety Code.

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Medical Director

SUBJECT: EMT / ADVANCED EMT / PARAMEDIC
DISCIPLINARY PROCESS

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- c. The certificate holder failed to disclose to the certifying entity any prior convictions when completing his/her application for initial EMT or Advanced EMT certification or certification renewal.

4. Temporary Suspension Order

- a. The County of San Diego EMS Medical Director may temporarily suspend a certificate prior to hearing if the certificate holder has engaged in omissions that constitute grounds for denial or revocation according to State of California regulations, and if it is in the opinion of the medical director that permitting the certificate holder to continue to engage in certified activity would pose an imminent threat to the public health and safety.
- b. Prior to, or concurrent with, initiation of temporary suspension order of a certificate pending hearing, the County of San Diego EMS Medical Director shall consult with the relevant employer of the certificate holder.
- c. The notice of temporary suspension pending hearing shall be served by registered mail or by personal service to the certificate holder immediately, but no longer than three (3) working days from making the decision to issue the temporary suspension. The notice shall include the allegations that allowing the certificate holder to continue to engage in certified activities would pose an imminent threat to the public health and safety.
- d. Within three (3) working days of the initiation of the temporary suspension, the County of San Diego EMS Medical Director and the relevant employer

Document revised 7/1/2010

Approved:



Administration



Medical Director

SUBJECT: EMT / ADVANCED EMT / PARAMEDIC
DISCIPLINARY PROCESS

Date: 7/1/2010

shall jointly investigate the allegation in order for the County of San Diego EMS Medical Director to make a determination of the continuation of the temporary suspension.

- 1) All investigatory information, not otherwise protected by the law, held by the County of San Diego EMS Medical Director and the relevant employer shall be shared between the parties via facsimile transmission or overnight mail relative to the decision to temporarily suspend.
- 2) If the certificate holder files a Notice of Defense, an administrative hearing shall be held within thirty (30) calendar days of the County of San Diego EMS Medical Director's receipt of the Notice of Defense.

I. Appeals Process:

If the County of San Diego EMS Medical Director makes a decision to place a certificate holder on probation or deny, suspend or revoke a certificate, the applicant for, or holder of a certificate may request an appeal in writing, within thirty (30) calendar days of the date that written notification of the decision to take disciplinary action is received via registered mail or personal service.

- J. Certification action by the County of San Diego Medical Director shall be valid statewide and honored by all certifying entities for a period of at least twelve (12) months from the effective date of the certification action. An EMT or AEMT whose application was denied or revoked by the County of San Diego Medical Director shall not be eligible for re-application by any other certifying entity in the State of

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Administration


Medical Director

SUBJECT: EMT / ADVANCED EMT / PARAMEDIC
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California for a period of at least twelve (12) months from the effective date of the certification action.

- K. The County of San Diego EMS medical director shall notify the applicant/certificate holder and his/her relevant employer(s) of the certification action within ten (10) working days after making the final determination. The notification of final decision shall be served by registered mail or personal service and shall include the following:
1. The specific allegations or evidence which resulted in the certification action(s)
 2. The certification action to be taken and the effective date of the certification action, including the duration of the action.
 3. Which certificate(s) the certification action applies to in cases of holders of multiple certificates.
 4. A statement that the certificate holder must report the certification action within ten (10) working days to any other LEMSA and relevant employer in whose jurisdiction he/she uses the certificate.
- L. Investigations involving EMTs and AEMTs who are employed by a public safety agency as a firefighter shall be conducted in accordance with Chapter 9.6 of the Government Code, Section 3250 et. seq. The rights and protections described in chapter 9.6 of the Government Code shall only apply to a firefighter during events and circumstances involving the performance of his/her official duties.
- M. The information shared among EMT and AEMT employers, County of San Diego EMS Medical Director, the EMS Authority and certifying entities other than the

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Administration



Medical Director

SUBJECT: EMT / ADVANCED EMT / PARAMEDIC
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County of San Diego EMS, shall be deemed to be investigative communication that is exempt from public disclosure as a public record pursuant to subdivision (f) of Section 6254 of the Government Code.

IV. Policy-Paramedic:

- A. When information comes to the attention of the County of San Diego EMS Medical Director that a Paramedic license-holder has committed any act or omission that appears to constitute grounds for disciplinary action under above noted EMSA Health & Safety Codes, the Medical Director may evaluate the information to determine if there is reason to believe that disciplinary action may be necessary.
- B. If the Medical Director sends a recommendation to the EMS Authority for further investigation or discipline of the license-holder, the recommendation shall include all documentary evidence collected by the medical director in evaluating whether or not to make that recommendation. The recommendation and accompanying evidence shall be deemed in the nature of an investigative communication and be protected by Section 6254 of the Government Code. In deciding what level of disciplinary action is appropriate in the case, the EMS Authority shall consult with the County of San Diego EMS Medical Director
- C. The director of the EMS Authority or the County of San Diego EMS Medical Director, after consultation with the relevant employer, may temporarily suspend, prior to hearing, any Paramedic license upon a determination that:
1. The licensee has engaged in acts or omissions that constitute grounds for revocation of the Paramedic license; and

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Administration


Medical Director

SUBJECT: EMT / ADVANCED EMT / PARAMEDIC
DISCIPLINARY PROCESS

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2. Permitting the licensee to continue to engage in the licensed activity, or permitting the licensee to continue to in the licensed activity without restriction, would present an imminent threat to the public health and safety.

Document revised 7/1/2010
Approved:


Administration


Medical Director

SUBJECT: GUIDELINES FOR VERIFICATION OF ORGAN DONOR STATUS

Date: 07/01/05

- I. **Authority:** Health & Safety Code, Section 7152.5(b).
- II. **Purpose:** To establish guidelines for emergency medical services (EMS) field personnel to search for verification of organ donor status on adult patients for whom death appears imminent.
- III. **Definitions:**
- A. **Reasonable Search:** A brief attempt by EMS field personnel to locate an organ donor document of gift, or other information that may identify a patient as a potential organ donor or one who has refused to make an anatomical gift.
- B. **Imminent Death:** A condition wherein illness or injuries are of such severity that, in the opinion of EMS personnel, death is likely to occur before the patient arrives at the receiving hospital. For purposes of this policy, this definition does not include any conscious patient regardless of the severity of illness or injury.
- IV. **Policy:**
- A. When EMS field personnel encounter an unconscious adult patient for whom it appears death is imminent they shall attempt a "reasonable search" of the patient's belongings to determine if the individual carries an organ donor document of gift or other information indicating the patient's status as an organ donor.
- B. Treatment and transport of the patient remains the highest priority for field personnel. This search shall not interfere with patient care or transport.
- C. Field personnel shall notify the receiving hospital personnel if organ donor document of gift or other information is discovered. Advanced life support units shall notify the base hospital in addition to the receiving hospital personnel.

Approved:

Pete Mami

Administration

[Signature]

Medical Director

- D. Any organ donor document of gift or other information that is discovered shall be transported to the receiving hospital with the patient, unless an investigating law enforcement officer requests it. In the event that no transport is made, any organ document of gift or other information shall remain with the patient.
- E. Field personnel shall briefly note the results of the search on the EMS Prehospital Patient Record.
- F. No search is to be made by EMS personnel after the patient has expired.
- G. If a member of the patient's immediate family objects to the search for an organ donor document of gift or other information at the scene, their response to a question about the patient's organ donation wishes shall satisfy the requirement.

Approved:

Pat Mami

Administration

[Signature]

Medical Director

- I. **Authority:** Division 2.5, Health and Safety Code, Sections 1797.204 and 1798; and Evidence Code, Sections 1040 and 1157.7.
- II. **Purpose:** To establish the scope, membership and functions of an advisory committee to the local Emergency Medical Services (EMS) agency. This committee shall meet to monitor and evaluate the medical care of identified patients with traumatic injury.
- III. **Policy**
- A. The scope of the committee shall include, but not be limited to:
1. Review of trauma deaths in the County
 2. Evaluation of trauma care
 3. Provision of input to the local EMS agency in the development, implementation and evaluation of medical audit criteria
 4. Design and monitoring of corrective action plans for trauma medical care
 5. Assistance and participation in research projects
 6. Provision of medical care consultation at the request of the County of San Diego Division of EMS (County EMS), including on-site facilities evaluation by committee members
 7. Establishment of subcommittees of outside consultants at the request of County EMS
 8. Recommendation of process improvement strategies related to trauma care
- B. **Membership:**
- The committee shall be comprised of the following:
1. Members:
 - a. Trauma Center Medical Directors from all designated centers

Approved:



Administrator



Medical Director

- b. Trauma Nurse Coordinators from all designated Trauma Centers
 - c. County EMS Trauma System Coordinator/Trauma Quality Assurance Specialist
 - d. County Trauma System Surgical Consultant
 - e. Base Hospital Physician representing the Prehospital Audit Committee (PAC)
 - f. Neurosurgeon appointed by the Academy of Neurosurgeons
 - g. Anesthesiologist appointed by the Anesthesia Association
 - h. Orthopedic Surgeon
 - i. Emergency Physician not affiliated with a trauma center, appointed by San Diego Emergency Physicians Society
 - j. County EMS Medical Director
2. Ad Hoc Members that may participate:
- a. Trauma Base Hospital Medical Directors
 - b. Medical Director Air Medical Services
 - c. Designated Assistant Trauma Medical Directors or Trauma Surgeon staff of trauma centers
 - d. Approved physicians enrolled in Trauma fellowships
 - e. Trauma Center Intensivists
 - f. Assistant Trauma Coordinators
 - g. Physicians from non-trauma facilities who are presenting cases
 - h. President of the Medical Society

Approved:



Administrator



Medical Director

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- i. General surgeon appointed by the Society of General Surgeons
 - j. County EMS Administrator/appropriate Division staff
 - k. Managed care physician representative appointed by County EMS.

C. Attendance:

1. Members should notify County EMS staff (285-6429) in advance of any scheduled meeting they would be unable to attend. Attendance at these meetings for the Trauma Medical Directors and Trauma Nurse Coordinators or their designees is mandatory. The Trauma Medical Directors and the Trauma Nurse Coordinators should use their best efforts to attend 90% of the scheduled MAC meetings annually. After three (3) consecutive absences in a calendar year, an appointed member may be replaced on the Committee.
2. Resignations from the committee shall be submitted, in writing to County EMS.
3. Invitees may participate in the medical review of specified cases where their expertise is requested. All requests for invitees must be approved by County EMS in advance of the scheduled meeting.
4. Invitees not participating in the medical review of specified cases must be approved by County EMS and all Trauma Medical Directors.

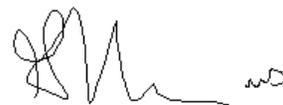
D. Voting:

Due to the "advisory" nature of the committee, many issues require consensus rather than a vote process. Vote process issues will be identified

Approved:



Administrator



Medical Director

as such by the Chairperson. When voting is required, the majority of the voting members of the committee need to be present. Voting members may include Trauma Medical Directors, Trauma Nurse Coordinators and the appropriate physician specialist. Members may not participate in voting when a conflict of interest exists.

E. Meetings:

The committee shall meet at least six (6) times per year at times arranged by County EMS/MAC.

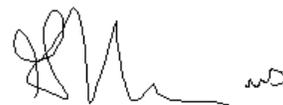
F. Committee Documentation:

Minutes will be kept by County EMS staff and distributed to the members at each meeting. Due to the confidentiality of the committee, confidential committee documents will be collected by County EMS staff at the close of each meeting and no copies may be made or possessed by members of the Committee. All official correspondence and communication generated by the Medical Audit Committee will be approved by County EMS staff and sent on San Diego County letterhead.

Approved:



Administrator



Medical Director

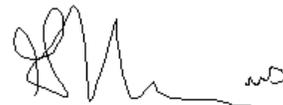
G. Confidentiality:

All proceedings, documents and discussions of the Medical Audit Committee are confidential and are covered under Sections 1040 of the Government Code and 1157.7 of the Evidence Code of the State of California. The prohibition relating to discovery of testimony provided to the Committee shall be applicable to all proceedings and records of this Committee, which is one established by a local government agency to monitor, evaluate and report on the necessity, quality and level of specialty health services, including, but not limited to, trauma care services. Issues which require prehospital medical/system input may be sent to the confidential Prehospital Audit Committee.

Approved:



Administrator



Medical Director

SUBJECT: PATIENT INFORMATION/CONFIDENTIALITY

Date: 07/01/04

- I. **Authority:** Confidentiality of Medical Information Act (Civil Code, Section 56 et. seq.) Title 22, Division 9, Sections 100075, 100159, Health Insurance Portability and Accountability Act. (HIPAA).
- II. **Purpose:** To describe the conditions and circumstances by which protected health information may be released.
- III. **Definitions :** Protected Health Information (PHI) – HIPAA regulations define health information as:
- “any information, whether oral or recorded in any form or medium” that
- “is created or received by a health care provider, health plan, public health authority, employer, life insurer, school or university, or health care clearinghouse” and,
 - “relates to the past, present, or future physical or mental health or condition of an individual; the provision of health care to an individual, or the past, present, or future payment for the provision of health care to an individual.”
- IV. **Policy**
- A. All prehospital provider agencies shall have policies in place regarding the disclosure of PHI of EMS patients.
- B. Prehospital provider agencies shall designate a Public Information Officer (PIO) or other designated person(s) authorized to release operational or general information, as authorized by State and Federal law.

Approved:



Administration



Medical Director

C. PHI may not be disclosed by prehospital personnel, except as follows:

1. To other care givers to whom the patient care is turned over, for continuity of patient care (including the prehospital patient record).
2. To the County of San Diego, Base Hospital or provider agency quality improvement program (including the provider agency supervisory personnel).
3. To the patient or legal guardian.
4. To law enforcement officers in the course of their investigation under the following circumstances:
 - a. As required by law (e.g. court orders, court-ordered warrants, subpoenas and administrative requests).
 - b. To identify or locate a suspect, fugitive, material witness or missing person.
 - c. In response to a law enforcement official's request for information about a victim or suspected victim of a crime.
 - d. To alert law enforcement of a person's death if the covered entity suspects that criminal activity caused the death.
 - e. When a covered entity believes that PHI is evidence of a crime that has occurred on the premises.

Approved:



Administration



Medical Director

SUBJECT: PATIENT INFORMATION/CONFIDENTIALITY

Date: 07/01/04

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- f. In a medical emergency and it is necessary to inform law enforcement about the commission and nature of a crime, the location of the crime or crime victims, and the perpetrator of the crime.
5. To the provider agency's billing department, as needed for billing purposes.
6. In response to a properly noticed subpoena, court order or other legally authorized disclosure.
- C. Any prehospital records (recorded or written), used for training or continuing education purposes, must be edited to remove identifying patient/incident information.

Approved:



Administration



Medical Director

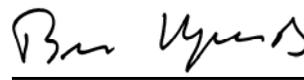
**SUBJECT: DOWNGRADE OR CLOSURE OF EMERGENCY SERVICES
IN A HOSPITAL DESIGNATED AS A BASIC EMERGENCY
RECEIVING FACILITY**

Date: 07/01/07

- I. **Authority:** Health and Safety Code, Division 2.5, Section 1300.
- II. **Purpose:** To identify the procedures instituted prior to closure or downgrade of emergency services provided by a licensed acute care hospital with a permit to provide basic or comprehensive emergency services.
- III. A. Hospitals planning to close or downgrade their capacity to provide emergency services shall notify the Emergency Medical Services (EMS) Branch of their intent at least 90 days prior to the scheduled change, in accordance with applicable regulations. This notification shall provide the EMS Branch with the following information:
 1. Rationale for downgrade or closure.
 2. Proposed timeline for downgrade or closure.
 3. Annual patient volume seen in the emergency department.
 4. Any other services provided by the hospital that may additionally be impacted by the emergency department closure/downgrade.
 5. Plans for community notification including the scheduling of mandated public hearings.
- B. Upon notification that a hospital intends to close or downgrade the level of emergency services offered pursuant to its permit to operate a basic or comprehensive emergency facility, the County of San Diego EMS Branch shall conduct an evaluation of the potential impact to prehospital emergency care providers and upon the remaining emergency care facilities in the geographic

Approved:


Administration


EMS Medical Director

**SUBJECT: DOWNGRADE OR CLOSURE OF EMERGENCY SERVICES
IN A HOSPITAL DESIGNATED AS A BASIC EMERGENCY
RECEIVING FACILITY**

Date: 07/01/07

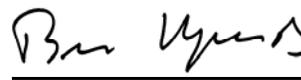
area. The impact evaluation and a public hearing shall occur within 60 days of receiving notification of the intent of closure. This impact evaluation shall include the following:

1. **Geographical Data** regarding facility isolation, service area population density, travel time and distance to next closest facility, number and type of other available emergency services, and availability of prehospital resources.
2. **Base Hospital Designation** information to include the number of calls received, number of patients received, and impact on patients, prehospital personnel and other Base Hospitals.
3. **Trauma Care** impact based on the number of patients received, and impact on remaining hospitals, trauma centers and trauma patients.
4. **Specialty Services provided** that are not readily available at other community facilities and the next nearest availability of those services such as burn center, neurosurgery, pediatric, critical care, etc.
5. **Patient Volume** on an annual basis including both 9-1-1 transports, transfers and walk-in patients.
6. **Public Notification** of the intended downgrade or closure has occurred with a minimum of one public hearing in addition to advertisement to the community via publications, education sessions or media forums.

C. In addition to performing the impact evaluation, the EMS Branch shall:

Approved:


Administration


EMS Medical Director

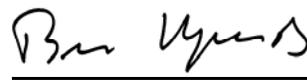
**SUBJECT: DOWNGRADE OR CLOSURE OF EMERGENCY SERVICES
IN A HOSPITAL DESIGNATED AS A BASIC EMERGENCY
RECEIVING FACILITY**

Date: 07/01/07

1. Notify and consult with all prehospital health care providers and hospitals in the geographical area regarding the potential closure or change.
2. Notify all planning or zoning authorities prior to completing an impact evaluation.
3. Provide, in writing, a copy of the EMS Branch's impact evaluation to the California EMS Authority and the California State Department of Health Services within three (3) days of the completion of the impact evaluation.

Approved:


Administration


EMS Medical Director

SUBJECT: EMS FOR CHILDREN (EMSC) ADVISORY COMMITTEE

Date: 07/19/02

-
- I. **Authority:** Health and Safety Code, Division 2.5, Section 1798 and 1797.204 and Chapter 12, 1799.
- II. **Purpose:** To establish the scope, membership and functions of an advisory committee to the Division of Emergency Medical Services (EMS). This committee will provide consultation, medical protocol review, evaluate and make recommendations regarding medical care, access to care, medical preparedness, community preparedness and illness and injury prevention regarding children to the Medical Director of the Division of Emergency Medical Services (EMS).¹
- III. **Policy:** The EMS Medical Director may consult with the EMSC Advisory Committee on issues concerning pediatric system, protocol, education, medical care delivery, community preparedness and prevention within County of San Diego.
- A. **Membership:** The EMS-C Advisory/Steering Committee will have the following membership:
1. Base Station Physicians' Committee representative;
 2. Hospital Administration /Association Representative;
 3. One physician member representing Children's Hospital Emergency Dept. physician staff;
 4. One physician member representing the Medical Society Emergency Physicians or a Non-Trauma Center, non-Base Hospital Emergency Department physician;
 5. One physician member representing AAP or COPEM;
 6. One physician member representing U.S. Naval Hospital;
 7. One physician member representing private practice pediatrics;
 8. One member representing Community Injury Prevention;
 9. One member representing approved paramedic training programs;
 10. One member representing the San Diego County Paramedic Association;
 11. One member representing the Base Hospital Nurse Coordinators Committee;
 12. One member representing Children's Hospital Emergency Department nursing staff;
 13. One member representing the pediatric Trauma Center; and,
 14. One member representing community, i.e. Parents-Teachers Association.

¹ EMSC Project, Final Report, CA EMSA #196, 1994
EMSC Five Year Plan, Goals & Objectives 2001-5, CA EMSA

Approved:



Administration



EMS Medical Director

SUBJECT: EMS FOR CHILDREN (EMSC) ADVISORY COMMITTEE

Date: 07/19/02

- B. The responsibilities of the EMS-C Advisory Committee are:
1. To develop a system EMS-C plan listing goals, priorities and time line.
 2. To convene small task forces of the Advisory Committee and others to work with the EMS Medical Director or designee on specific medical management issues and community initiatives.
 3. To consult with other medical specialties, community representatives or other advisory bodies in the County of San Diego, as necessary.
 4. To provide steering recommendations for the implementation of EMSC related projects.
 5. To develop recommended policy/guidelines/protocols/procedures concerning medical care delivery for children, community preparedness, access to medical care and illness and injury prevention.
 6. To develop programs providing public education concerning EMSC and related projects.
 7. To participate in the implementation of approved policy/guidelines/programs/ protocols/ procedures concerning access to and medical care delivery for children, community preparedness and illness and injury prevention as requested by EMS.
- C. Attendance:
1. Members should notify Division of EMS staff (619-285-6429) in advance of any scheduled meeting they would be unable to attend.
 2. An appointed member may be replaced after two consecutive absences.
- D. Voting:
1. Due to the "advisory" nature of the committee, many issues require consensus rather than a vote process. The Chairman will identify issues requiring a vote and the vote process.
 2. When voting is required, a simple majority of committee members needs to be present. Members may not participate in voting when a conflict of interest exists.
- E. Meetings:
- The committee shall meet at least four (4) times per year at times arranged by the Division of EMS.

Approved:



Administration



EMS Medical Director

- I. **Authority:** Health and Safety Code, Division 2.5, Section 1798; and Evidence Code, Sections 1157.7.
- II. **Purpose:** To designate an advisory committee to provide consultation, medical protocol review, and recommendations on issues concerning prehospital treatment protocols and emergency medical care delivery for patients with acute coronary syndromes to the Medical Director of the County of San Diego Emergency Medical Services (EMS).
- III. **Policy:** The County of San Diego EMS Medical Director may consult with the San Diego County Cardiovascular Advisory Committee on issues concerning prehospital treatment protocols and emergency medical care delivery for patients with acute coronary syndromes in San Diego County.
- A. **The Scope : not limited to**
1. Provision of input to County of San Diego EMS in the development, implementation and evaluation of medical audit criteria.
 2. Designing and monitoring corrective action plans on cardiovascular care.
 3. Provision of medical care consultation at the request of the County of San Diego EMS.
 4. Recommendation of performance improvement strategies related to care of patients with acute myocardial infarction.
- B. **Membership** : County of San Diego EMS Medical Director’s Cardiovascular Advisory Committee will have the following members:
1. One Cardiovascular “STEMI” Program Medical Director from each designated Cardiovascular “STEMI” Receiving Center (SRC).
 2. One SRC Program Manager or designee from each designated SRC.
-

Approved:



Administration



EMS Medical Director

SUBJECT: CARDIOVASCULAR ADVISORY COMMITTEE (CAC)

Date: 08/01/06

3. San Diego County EMS "STEMI" Program Coordinator (QA Specialist).
4. One cardiologist representing non-certified centers from the San Diego County Medical Society or as appointed by EMS.
5. One emergency physician representing the County of San Diego's Base Station Physician's Committee (BSPC).
6. One emergency physician representing the San Diego County Medical Society EMS Oversight Committee (EMOC) from a non-designated SRC.
7. San Diego County EMS Medical Director.

C. **Ad Hoc Members that may participate:**

1. Managed care cardiologist representative appointed by EMS.
2. One emergency physician representing EMOC from a designated SRC.
3. One representative from County Paramedic Agencies Committee (CPAC).
4. One nurse representing the Base Hospital Nurse Coordinator's Committee.
5. County EMS Administrator/appropriate EMS staff.
6. Other members as appointed by the EMS Medical Director.
7. Paramedic representative of the County Paramedic Association.
8. Paramedic Training agency representative.

D. **Responsibilities**

1. To meet as an advisory committee on a quarterly basis.
2. To develop an agenda in conjunction with the County of San Diego EMS Medical Director or designee.
3. To consult on prehospital and hospital acute coronary syndrome issues.

Approved:



Administration



EMS Medical Director

SUBJECT: **CARDIOVASCULAR ADVISORY COMMITTEE (CAC)**

Date: 08/01/06

4. To convene small task forces/subcommittees of advisory committee members and others to work with the County of San Diego EMS Medical Director or designee on specific medical management issues.
5. To consult with other medical specialties, or other advisory bodies in the County, as necessary.

E. **Attendance**

1. Participation by the SRC Medical Directors and SRC Managers in the County of San Diego Cardiovascular Advisory Committee's (CAC) performance improvement process is mandatory. Attendance at quarterly meetings is encouraged.
2. Invitees may participate in the medical review of specified cases where their expertise is requested. All requests for invitees must be approved by County of San Diego EMS STEMI QA Specialist in advance of the scheduled meeting.
3. County of San Diego EMS and all SRC Medical Directors present must approve the invitees observing case reviews in which the invitees are not participating.

F. **Voting**

1. The CAC will elect a chairperson who must be a SRC Medical Director, annually.
2. Due to the "advisory" nature of the committee, many issues require consensus rather than a vote process. Vote process issues will be identified as such by the Chairperson. When voting is required, a "simple" majority of the voting members of the committee need to be present to constitute a quorum. Members may not participate in voting when a conflict of interest exists.
3. There will be one vote from each SRC that may be registered by either the SRC Medical Director or the SRC Program Manager/designee.

Approved:



Administration



EMS Medical Director

G. **Confidentiality**

All proceedings, documents and discussions of the Cardiovascular Advisory Committee are confidential and are covered under Section 1157.7 of the Evidence Code of the State of California. The prohibition relating to discovery of testimony provided to the Committee shall be applicable to all proceedings and records of this Committee, which is one established by a local government agency to monitor, evaluate and report on the necessity, quality and level of specialty health services, including, but not limited to, cardiovascular services. Issues, which require prehospital medical/system input, may be sent to the confidential Prehospital Audit Committee.

Approved:



Administration



EMS Medical Director

SUBJECT: DESIGNATION OF A CARDIOVASCULAR
"STEMI" RECEIVING CENTER (SRC)

Date: 08/01/06

I. **Authority:** Division 2.5 Health and Safety Code, Section 1797.67, 1798 and 1798.170.

II. **Purpose:** To define the process and procedure for designating a Cardiovascular "STEMI" Receiving Center.

III. **Policy:**

The Board of Supervisors or designee shall approve recommendations for Cardiovascular "STEMI" Receiving Center designations.

1. The designation SRC will be a non-competitive process based on past performance of the acute care hospital's emergency department, cardiac catheterization laboratory, staff and on-call interventionalists and on its ability to provide required services and willingness to participate in the performance improvement process.
2. The designation of an SRC for purposes of the County of San Diego Emergency Medical Services (EMS) confers upon the facility, the recognition that it has the commitment, personnel and resources necessary to provide optimum medical care for the patient with a acute myocardial infarction, to include, but not limited to the ability to provide prompt percutaneous coronary interventions and to meet outcome benchmarks.

Approved:



Administration



EMS Medical Director

SUBJECT: DESIGNATION OF A CARDIOVASCULAR
"STEMI" RECEIVING CENTER (SRC)

Date: 08/01/06

3. The designation as a SRC is specific to the cardiac catheterization laboratory's location and is not transferable.
4. Each designated SRC shall meet the criteria set forth in their agreement and demonstrate a continuous ability and commitment to comply with policies, protocols and procedures developed by the County of San Diego EMS.
5. Each designated SRC's shall undergo an annual performance evaluation based upon their agreement. Results of the evaluation shall be made available to the designated facility.
6. All designated SRC's shall participate in the quality improvement process as outlined in the *Cardiovascular Performance Improvement Manual and Data Dictionary*.

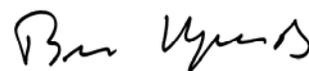
II Procedure:

- A. The County of San Diego EMS develops and distributes an Application for Designation as a Cardiovascular "STEMI Receiving Center (SRC).
- B. The County of San Diego EMS evaluates applications, including an independent review process and on-site evaluation and makes recommendations to the Board of Supervisors.

Approved:



Administration



EMS Medical Director

I. **Authority:** Division 2.5, Health and Safety Code, Section 1797.67, 1798 and 1798.170.

II. **Purpose:** To establish a policy and procedure for de-designation of a "STEMI" receiving center (SRC).

III. **Policy**

A. Termination for Cause:

1. The County of San Diego may immediately terminate its Cardiovascular "STEMI" Receiving Center (SRC) Memorandum of Agreement (MOA), if a receiving center's license to operate as a general acute care hospital is revoked or suspended.
2. The County of San Diego may immediately terminate its SRC MOA, if the hospital no long operates as a receiving center with a "Basic or Comprehensive" Emergency Department.
3. The County of San Diego may immediately suspend its MOA upon written notice if a SRC is in gross default of material obligation under its MOA which default could adversely affect patient care provided by Contractor.
4. For any other material breach of its MOA, The County of San Diego may terminate a receiving center MOA for cause, per the language of the Agreement. Such cause shall include, but not be limited to:
 - a) Failure to comply with material terms and conditions of the SRC MOA, after notice of the failure has been given.

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EMS Medical Director

-
- b) Failure to make available sufficient, qualified personnel and hospital resources to provide immediate care for acute myocardial infarction patients as required by the MOA.
 - b) Failure to provide timely cardiac interventionalist coverage for acute myocardial infarction patients as required by the MOA.
 - c) Failure to provide physicians, surgeons, and other medical, nursing and ancillary staff who possess that degree of skill and learning ordinarily possessed by reputable medical personnel in like or similar localities and under similar circumstances for the provision of medical services for acute myocardial infarction patient requiring percutaneous coronary interventions.
 - d) Gross misrepresentation or fraud.
 - e) Substantial failure to cooperate with the County of San Diego EMS monitoring of SRC services.
 - f) Substantial failure or refusal to cooperate with quality assurance and audit findings and recommendations within a reasonable time.

B. Termination for Convenience:

Either the County of San Diego or the SRC may terminate the SRC MOA, as a termination for convenience per the language of the Agreement.

C. Upon the de-designation of a receiving center, the County of San Diego EMS shall be responsible for system redesign decisions.

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Administration


EMS Medical Director

SUBJECT: INFANT SAFE SURRENDER

Date: 4/24/2008

- I. **Authority:** California Health and Safety Code, Sections 1255.7 and 1798, California Penal Code 271.5.
- II. **Purpose:** To describe guidelines for steps to be followed when an individual surrenders an infant appearing to be <72 hours old, under the California Safely Surrendered Baby Law of 2001, to EMS staff at a San Diego County Fire Station that is staffed 24 hours/day.
- III. **Guidelines:**

EMS Personnel will accept infants brought to them with the intent of surrendering the child. The infant should be accepted for surrender even if the child's age is suspected to exceed 72 hours.

 - A. EMS personnel should follow their own departmental policies when an infant is surrendered to their care.
 - B. A "Newborn Safe Surrender Kit" shall be used, and a confidential infant ID bracelet shall be placed on the newborn's ankle, and the number code from the bracelet recorded on the infant's Prehospital Patient Report (PPR).
 - C. EMS personnel will perform a rapid assessment of the infant to identify immediate medical needs, and this assessment will be documented on the infant's PPR. If there is any suspicion of child abuse, law enforcement should be contacted immediately.
 - D. EMS personnel shall offer care to the mother if she is the caretaker surrendering the infant. Documentation of the mother's assessment/care should be on a separate PPR if provided.

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Administrator



Medical Director

SUBJECT: INFANT SAFE SURRENDER

Date: 4/24/2008

- E. The caregiver surrendering the infant should be encouraged to immediately complete the "Newborn Family Medical History Questionnaire". If necessary, EMS personnel should assist the caregiver in completing the document. The caregiver may also fill out the questionnaire at a later time and return via mail.
- F. The infant should then be transferred to the most appropriate Emergency Department as directed by the base hospital. A copy of the infant's PPR should be provided to hospital staff.
- G. EMS personnel must notify County of San Diego Health and Human Services, Child Welfare Services by phone, advising them of a surrendered infant incident, and must complete a Child Protective Services (CPS) report, submitted according to agency protocol.

Approved:



Administrator



Medical Director

INTRODUCTION

These Protocols define the basic and advanced life support treatment and disposition standards for San Diego County.

1. These treatments are listed in sequential order for each condition. Adherence is recommended. All skills follow the criteria in the Skills List.
2. All treatments may be performed by the EMT (BLS treatments), A-EMT and/or paramedic without an order EXCEPT for those stating "Base Hospital Order (BHO)" or "Base Hospital Physician Order (BHPO)". All treatments requiring an order are at the discretion of the Base Hospital providing medical direction. Standing orders may be implemented at the discretion of the field EMT/A-EMT/paramedic and may be continued following the initial notification. Once a complete patient report is initiated:
 - All BH orders supersede any standing orders except defibrillation and intubation.
 - ALL subsequent medication orders MUST be from that Base (**S-415**).
3. **BHPO (Base Hospital Physician Order)**: BHPOs may be relayed by the MICN. Physician must be in direct voice contact for communication with another physician on scene.
4. Abbreviations and definition of terms are attached.
5. All medications ordered are to be administered as described UNLESS there is a contraindication, allergy or change in condition.
6. Cardioversion when listed in the protocols is always synchronized.
7. Personal protective equipment must be used on all patient contacts per provider agency policy (S-009).
8. PEDIATRIC SPECIAL CONSIDERATIONS:
 - a. A pediatric patient is defined as appearing to be <15 yo.
 - b. Pediatric cardioversion is CONTRAINDICATED whenever the defibrillator unit is unable to deliver <5w/s/kg or equivalent biphasic.
 - c. Medications are determined by use of length based resuscitation tape; refer to the pediatric drug chart, P-117. Children \geq 37 kg. follow adult protocols and medication dosages regardless of age.

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RESOURCES AND REFERENCES USED:

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GLOSSARY OF TERMS

Apparent Life Threatening Event (ALTE): an episode involving an infant less than 12 months of age which is frightening to the observer and is characterized by some combination of:

- 1) Apnea (central or obstructive)
- 2) Color change (cyanosis, pallor, erythema)
- 3) Marked change in muscle tone
- 4) Unexplained choking or gagging

Definitive therapy: Administration of a fluid bolus or medications.

End Tidal CO₂ – Quantitative Capnography:

Quantitative capnometer to continuously monitor end tidal CO₂ is mandatory for use in the intubated patient.

Esophageal Tracheal Airway Device (ETAD): The "Combitube" is the only such airway approved for prehospital use in San Diego County.

IV/IO: Intravenous/Intraosseous fluids are routinely Normal Saline.

LEADSD: Acronym for the steps to be performed in the assessment and documentation of endotracheal intubation attempts:

Lung Sounds, End Tidal CO₂ Detection Device, Absence of Abdominal Sounds. Depth, Size, (Doctor) Hospital Verification.

Minor: A person under the age of 18 and who is not emancipated.

Opioid: Any derivative, natural or synthetic, of opium or morphine or any substance that has their effects on opioid receptors (e.g. analgesia, somnolence, respiratory depression).

Opioid Dependent Pain Management Patient: An individual who is taking prescribed opioids for chronic pain management, particularly those with opioid infusion devices.

Opioid Overdose, Symptomatic: Decreased level of consciousness and respiratory depression.

Nebulizer: O₂ powered delivery system for administration of Normal Saline or medications.

Pediatric Patient: Children appearing to be <15 years and appearing to weigh less than 37 kg (81lbs.).

Neonate: up to 30 days

Infant: one month to one year of age.

Perilaryngeal airway adjunct: The "King Airway" is the only such airway approved for prehospital use in San Diego County.

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"Shock" is defined by the following criteria:

Patient's age:

1. ≥ 15 years:
Systolic BP < 80 mmHg **OR**
Systolic BP < 90 mmHg **AND** exhibiting any of the following signs of inadequate perfusion:
 - a. altered mental status (decreased LOC, confusion, agitation)
 - b. tachycardia
 - c. pallor
 - d. diaphoresis

2. < 15 yrs:
Systolic BP $< [70 + (2 \times \text{age})]$ **AND**
exhibiting any of the following signs of inadequate perfusion:
 - a. altered mental status (decreased LOC, confusion, agitation)
 - b. tachycardia (< 5 yrs ≥ 180 bpm; ≥ 5 yrs ≥ 160 bpm)
 - c. pallor, mottling or cyanosis
 - d. diaphoresis
 - e. comparison (difference) of peripheral vs. central pulses (PALS/PEPP).

Sinus pause: A brief break in tachydysrhythmia that immediately reverts back. During the pause the actual underlying dysrhythmia may be evident. Adenosine is unlikely to convert this dysrhythmia.

Unconsciousness: No purposeful response to stimulation.

Unstable (adult): Systolic BP < 90 and chest pain, dyspnea or altered LOC.

**COUNTY OF SAN DIEGO TREATMENT PROTOCOL
ABBREVIATION LIST**

AED	Automated External Defibrillator
AICD	Automatic Implanted Cardiac Defibrillator
ALS	Advanced Life Support (Paramedic level)
ALTE	Apparent Life Threatening Event
AV	Arterio-Venous (fistula)
BEF	Basic Emergency Facility
BH	Base Hospital
BHO	Base Hospital Order
<u>BHPO</u>	Base Hospital Physician Order
BLS	Basic Life Support (EMT level)
BP	Blood Pressure
BPM	Beats per Minute
BS	Blood Sugar (Blood Glucose)
BSA	Body Surface Area
CaCl ₂	Calcium Chloride
C/C	Chief complaint
CHF	Congestive Heart Failure
CO	Carbon Monoxide
CO ₂	Carbon Dioxide
CPAP	Continuous Positive Airway Pressure
CPR	Cardio-Pulmonary Resuscitation
CVA	Cerebrovascular Accident
d/c	Discontinue
dL	Deciliter
D ₂₅	25% Dextrose (diluted D ₅₀)
D ₅₀	50% Dextrose
EKG	Electrocardiogram
EpiPen	Brand name for auto-injector containing epinephrine
ET	Endotracheal Tube
ETAD	Esophageal Tracheal Airway Device
ETCO ₂	End tidal CO ₂
GM or Gm	Gram
HR	Heart Rate
ICS	Intercostal space
IM	Intramuscular (injection)
IN	Intranasal
IO	Intraosseous line
IV	Intravenous line
IVP	Intravenous Push
J	Joule (s)
Kg	Kilogram
L	Liter
LOC	Level of Consciousness or Loss of Consciousness

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SUBJECT: TREATMENT PROTOCOL -- ABBREVIATION LIST

Date: 7/1/10

mA	milliampere (unit of voltage for external pacemaker)
MAD	Mucosal atomizer device
max	Maximum
mcg	Microgram
MCI	Mass Casualty Incident
MDI	Metered-Dose Inhaler
mEq	Milliequivalent
mg	Milligram
min	Minute
ml	Milliliter(s)
MOI	Mechanism of injury
MPI	Multiple Patient Incident
MR	May repeat
MS	Morphine Sulfate
NaHCO ₃	Sodium Bicarbonate
NC	Nasal Cannula
NG	Nasogastric (tube)
NPO	Nothing by mouth
NS	Normal Saline (IV solution)
NTG	Nitroglycerin
O ₂	Oxygen
OD	Overdose
ODT	Oral Dissolving Tablet
OG	Orogastric (tube)
PEA	Pulseless Electrical Activity
PO	Per Os (by mouth)
POLST	Physician Orders for Life-Sustaining Treatment
prn	Pro Re Nata (as often as necessary)
PVC	Premature Ventricular Complex
q	Every
SL	Sublingual
SC	Subcutaneous (injection)
<u>SO</u>	Standing Order
<u>SOB</u>	Shortness of Breath
SVT	Supraventricular Tachycardia
TIA	Transient Ischemic Attack
TKO	To Keep Open (IV) which is approximately 25-30ml/hr
TOP	Topical
VF	Ventricular Fibrillation
VSM	Valsalva Maneuver
VT	Ventricular Tachycardia
yo	Years Old
?	Possible/questionable/suspected
"	Minutes or Inches
<	Less than
≥	Greater than or equal to

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SUBJECT: BLS/ALS AMBULANCE INVENTORY

Date: 7/1/10

- I. **Authority:** Health and Safety Code, Division 2.5, Section 1797.204.
- II. **Purpose:** Identify a minimum standardized inventory on all Basic Life Support and Advanced Life Support Transport Units.
- III. **Policy:** Essential equipment and supplies are required by California Code of Regulations, Title 13, Section 1103.2(a) 1-2 (for vehicle requirements refer to Policy # B 833). Each Basic Life Support or Advanced Life Support Transporting Unit in San Diego County shall carry as a minimum, the following:

Basic Life Support Requirements:

	<u>Minimum</u>
Ambulance cot and collapsible stretcher	1 each
Straps to secure the patient to the cot or stretcher	1 set
Ankle and Wrist Restraints	1 set
Linens (Sheets, pillow, pillow case, blanket, towels)	2 sets
Oropharyngeal Airways	
Adult	2
<i>Pediatric</i>	2
<i>Infant</i>	1
<i>Newborn</i>	1
Pneumatic or rigid splints	4
Bag-valve-mask w/reservoir and clear resuscitation mask	
Adult	1
<i>Pediatric</i>	1
<i>Infant</i>	1
Oxygen Cylinder w/wall outlet (H or M)	1
Oxygen tubing	1
Oxygen Cylinder - portable (D or E)	2
Oxygen administration mask	
Adult	4
<i>Pediatric</i>	2
<i>Infant</i>	2
Nasal cannulas (clear plastic) Adult	4
Nasal airways (assorted sizes)	1 set
Nebulizer for use w/sterile H ₂ O or saline	2
Glucose Paste/Tablets	1 15g tube or 9 tablets
Bandaging supplies	
4" sterile bandage compresses	12
3x3 gauze pads	4
2", 3", 4" or 6" roller bandages	6
1", 2" or 3" adhesive tape rolls	2
Bandage shears	1
10"x 30" or larger universal dressing	2
Emesis basin (or disposable bags)	1
Covered waste container	1

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SUBJECT: BLS/ALS AMBULANCE INVENTORY

Date: 7/1/10

Portable suction equipment (30 L/min, 300 mmHg)	1
Suction device - fixed (30 L/min, 300 mmHg)	1
Suction Catheter - Tonsil tip	3
Suction Catheter (6, 8, 10, 12, 14, 18)	1 set
Head Immobilization device	2 each
Spinal Immobilization devices (1 min. 30", 1 min. 60") with straps	1 each
Cervical collars - rigid	
Adult	3
<i>Pediatric</i>	2
<i>Infant</i>	2
Traction splint*	
Adult or equivalent	1
<i>Pediatric or equivalent</i>	1
Blood pressure manometer & cuff	
Adult	1
<i>Pediatric</i>	1
<i>Infant</i>	1
Obstetrical Supplies to include:	1 kit
gloves, umbilical tape or clamps, dressings, head coverings, ID bands, towels, bulb syringe, sterile scissors or scalpel, clean plastic bags	
Potable water (1 gallon) or Saline (2 liters)	1
Bedpan	1
Urinal	1
Disposable gloves - non-sterile	1 box
Disposable gloves - sterile	4 pairs
Cold packs	2
Warming packs (not to exceed 110 degrees F)	2
Sharps container (OSHA approved)	1
Agency Radio	1
EMS Radio	1

Optional Item:

Automated External Defibrillator	
Positive Pressure Breathing Valve, maximum flow 40 Liters/min.	
Mark 1 Kit(s) or equivalent	
Tourniquet, County approved type	2

Advanced Life Support Requirements:

All supplies and equipment in Basic Life Support Requirements in addition to the following:

A. <u>Airway Adjuncts:</u>	<u>Minimum</u>
Capnograph (Quantitative End Tidal CO ₂)	1
Endotracheal Tubes: Sizes:	
2.5, 3.0, 3.5, 4.0, 4.5, 5.0 (<i>cuffed preferred</i>)	1 each
5.5 (<i>cuffed preferred</i>)	1
6, 6.5, 7, 7.5, 8, 8.5, 9 (<i>cuffed</i>)	1 each
Esophageal Tracheal Double Lumen Airway (Kit)	

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SUBJECT: BLS/ALS AMBULANCE INVENTORY

Date: 7/1/10

(Combitube): Sml Adult, Lg Adult	2 each
ET Adapter (nebulizer)	1 setup
Feeding Tube - 5, 8 French	1 each
Laryngoscope - Handle	2
Laryngoscope - Blade:	
<i>straight sizes 0-4</i>	1 each
<i>curved sizes 2-4</i>	1 each
Magill Tonsil Forceps small and large	1 each
Mask - Bag-valve-mask Neonate size	1
Stylet 6 and 14 French, Adult	1 each
B. <u>Vascular Access/Monitoring Equipment**</u>	<u>Minimum</u>
Armboard: Long	2
Armboard: Short	2
Blood Glucose Monitoring Device	1
IV Administration Sets: Macro drip	6
Micro drip	3
Three-Way Stopcock with extension tubing	2
IV Tourniquets	4
Needles: IV Cannula - 14 Gauge	8
IV Cannula - 16 Gauge	8
IV Cannula - 18 Gauge	8
IV Cannula - 20 Gauge	6
IV Cannula - 22 Gauge	4
IV Cannula - 24 Gauge	4
IM - 21 Gauge X 1"	6
IO –Jamshidi-type (or approved device) needle –18 Gauge	2
IO –Jamshidi-type (or approved device) needle – 15 Gauge	2
S.C. 25 Gauge X 3/8"	4
Syringes: 1 ml, 3 ml, 5 ml, 10 ml, 20 ml	3 each
C. <u>Monitoring</u>	
12 Lead EKG	1
Conductive Gel/Defibrillator pads	1 tube/2 pkgs
Defibrillator/ Scope Combination	1
Defibrillator Paddles (4.5 cm, 8.0 cm) or Pads (hands free)	1 pair each
Electrodes	1 box
Electrode Wires	2 sets
Oxygen Saturation Monitoring Device **	1
Adult probe	1
Infant/Pediatric	1

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SUBJECT: BLS/ALS AMBULANCE INVENTORY

Date: 7/1/10

D. <u>Packs</u>		
Drug Box		1
Personal Protective Equipment (masks, gloves, gowns, shields)		2 sets
Trauma Box/Pack		1
E. <u>Other Equipment</u>		
<i>Broselow Tape</i>		1
Mucosal atomizer device (MAD)		2
Nasogastric Intubation Set-Up (10, 12 or 14, 18 French 48")		1 each
<i>Pediatric Drug Chart</i> (laminated)		1
Thermometer - Oral, Rectal		1 each
Water Soluble Lubricant		1
F. <u>Communication Items:</u>		
		<u>Minimum</u>
Communication Failure protocol (laminated)		1
Standing Orders Protocol (laminated)		1
G. <u>Replaceable Medications:</u>		
Adenosine	6 mg/2ml	6 vials
Albuterol	2.5 mg/3 ml or 0.083%	6 vials
ASA, chewable	80 mg each	6 units
Atropine Sulfate	1 mg/10 ml	3
Atropine Sulfate	multidose 0.4 mg/ml	1
Atrovent	2.5 ml (1 unit dose vial)	2
Calcium Chloride	1 GM/10 ml	1
Charcoal activated (no sorbitol)	50 GM	1
Dextrose, 50%	25 GM/50 ml	2
Diphenhydramine HCL	50 mg/1 ml	2
Dopamine HCL	400 mg	1
Epinephrine	1:1,000 multidose vial	1
Epinephrine	1:1,000 (1 mg/1ml ampule)	6
Epinephrine	1:10,000 (1 mg/10 ml vial)	6
Glucagon	1 ml (1 unit)	1
Lidocaine HCL	100 mg/5 ml (2%)	6
Morphine Sulfate (injectable)	10 mg/1 ml	2
Naloxone HCL (Narcan)	1 mg/1 ml concentration	6 mg total
Nitroglycerin	0.4 mg	1 container
Nitroglycerin topical preparation	2%	1 tube
Ondansetron (Zofran)	4mg/2ml	2
Sodium Bicarbonate	50 mEq/50 ml	3
Versed (Midazolam)	5mg/1ml concentration	20mg total
<u>IV Solutions:</u>		
Normal Saline	1000 ml bag	4
Normal Saline	250 ml bag	4 (2 if carrying premixed Dopamine)

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SKILL	INDICATION	STANDING ORDER	CONTRAINDICATION	COMMENTS
Blood sampling Venous/capillary	Obtain blood sample to determine treatment.	Yes	None	Repeat BS not indicated en route if patient is improving
Broselow Tape	Determination of length for calculation of pediatric drug dosages and equipment sizes.	Yes	None	Base dosage calculation on length of child. Refer to pediatric chart for dosages (P-117). Children \geq 37 kg. follow adult protocols and medication dosages regardless of age.
Cardioversion: synchronized	Unstable VT Unconscious SVT	Yes	Pediatric: If defibrillator unable to deliver <5 J or biphasic equivalent	In addition to NTG patches, remove chest transdermal medication patches prior to cardioversion.
	Unconscious Atrial fibrillation/flutter and HR \geq 180 Unstable, conscious SVT (BHO) Unstable, conscious Atrial (BHO) Fibrillation/Flutter HR \geq 180(BHPO)	No		
CPAP	Age \geq 15 years Respiratory Distress: CHF, COPD or Asthma. Moderate to severe respiratory distress. Retractions/accessory muscle use AND <ul style="list-style-type: none"> • RR $>$25/min OR • SpO₂ $<$94% 	Yes	CPR BP $<$ 90 mmHg Vomiting Age $<$ 15 Possible pneumothorax Facial trauma Unable to maintain airway Unconscious	CPAP should be used cautiously for patients with Severe COPD or Pulmonary Fibrosis
Defibrillation	VT (pulseless) VF	Yes	None	In addition to NTG patches, remove chest transdermal medication patches prior to defibrillation.
Dermal Medication	When route indicated.	Yes*	Profound shock, CPR, Peds	Avoid application to areas that may be used for cardioversion.

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SKILL	INDICATION	STANDING ORDERS	CONTRAINDICATIONS	COMMENTS
EKG monitoring	Any situation where potential for cardiac dysrhythmia.	Yes	None	Apply monitor before moving patient with chest pain, syncope, or in arrest. Document findings on PPR and leave strip with patient.
12 lead EKG	Chest pain and/or Signs and symptoms suggestive of myocardial infarction. Suspected hyperkalemia and ≥ 72 hours since last dialysis. ROSC after cardiac arrest	Yes	None	Report STEMI: ***Acute MI" or ***Acute MI Suspected" Also report Left Bundle Branch Block (LBBB), paced rhythm, Atrial fibrillation or Atrial flutter for exclusion from STEMI assessment Document findings on the PPR and leave EKG with patient.
End tidal CO ₂ Detection Device (PediCap)	All intubated patients <15kgs	Yes	None	Monitor continuously after ET / ETAD/ Perilaryngeal Airway Adjunct insertion Use Pedicap in patients <15 kgs - unless quantitative End Tidal CO ₂ available for patient <15kgs.
End tidal CO ₂ Detection Device – Capnography (Quantitative)	All intubated patients Respiratory distress Trauma	Yes	None	Monitor continuously after ET / ETAD/ Perilaryngeal Airway Adjunct insertion Use early in cardiac arrest
Esophageal Detection Device-aspiration based	Patients intubated with ETT or ETAD	Yes	Patient <20 kg Perilaryngeal Airway	Repeat as needed to reconfirm placement. Use for both ET/ETAD Use early in cardiac arrest
External Cardiac Pacemaker	Unstable narrow complex bradycardia with a pulse refractory to Atropine 1 mg Unstable wide complex bradycardia	No	None	BHPO Document rate setting, milliamps and capture

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SKILL	INDICATION	STANDING ORDER	CONTRAINDICATIONS	COMMENTS
Glucose Monitoring	Hypoglycemia (suspected)	Yes	None	Repeat BS not indicated en route if patient is improving
Intranasal: IN	When IN route indicated	Yes	None	Volumes over 1ml per nostril are likely too dilute and may result in runoff out of the nostril.
Injection: IM	When IM route indicated	Yes*	None	Usual site: Deltoid in patients >3 yo. Vastus lateralis patients <3 yo.
Injection: SC	When SC route indicated.	Yes*	None	Preferred site-fatty tissue of upper arm.
Injection: IV	When IV route indicated	Yes*	None	
Intubation- ET/Stomal	Apnea or ineffective respirations for unconscious adult patient or decreasing LOC. If unable to adequately ventilate via BVM the unconscious pediatric patient who is apneic or has ineffective respirations. Newborn deliveries if HR<60 after 30 seconds of ventilation and if unable to adequately ventilate via BVM. To replace ETAD/Perilaryngeal if: <ul style="list-style-type: none"> • ventilations inadequate OR • need ET suction 	Yes	? Opioid OD prior to Narcan. Able to adequately ventilate the pediatric patient via BVM. Gag reflex	3 attempts per patient SO Additional attempts BHPO Attempt=attempt to pass ET (not including visualizations and suctioning). Document and report LEADSD Reconfirm and report EtCO ₂ and lung sounds after each pt movement. Extubation per BHO. ET Depth Pediatrics: Age in years plus 10. Apply c-collar to all intubated patients.

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SKILL	INDICATION	STANDING ORDER	CONTRAINDICATIONS	COMMENTS
ETAD (Combitube)	Apnea or ineffective respirations for unconscious patient or decreasing LOC.	Yes	Gag reflex present Patient <4' tall. ? Opioid OD prior to Narcan. Ingestion of caustic substances. Hx esophageal disease. Laryngectomy/Stoma	Extubate per BHO. Use Small Adult size tube for all patients under 6' Use Large Adult only in those >6' tall. Report and document LEADSD and ventilation port number. Reconfirm and report EtCO ₂ and lung sounds after each pt movement.
Perilaryngeal airway adjunct (King Airway)	Apnea or ineffective respirations for unconscious patient or decreasing LOC.	Yes	Gag reflex present Patient <4' tall ? Opioid OD prior to Narcan. Ingestion of caustic substances. Hx esophageal disease Laryngectomy/Stoma	Extubate per BHO Use Size 3 (yellow) for patients 4' – 5' tall Use Size 4 (red) for patients 5' – 6' tall Use Size 5 (purple) for patients >6' tall Report and LEADSD Reconfirm and report ETCO ₂ and lung sounds after each patient movement.
Magill Forceps	Airway obstruction from foreign body with decreasing LOC/unconscious	Yes	None	
Nasogastric / Orogastric tube	Gastric distention interfering w/ ventilations	Yes	Severe facial trauma. Known esophageal disease.	
Nebulizer, oxygen powered	Respiratory distress with: <ul style="list-style-type: none"> • Bronchospasm • Croup-like cough • Stridor 	Yes*	None	Flow rate 4- 6 L/min. via mouthpiece; 6-10 L/min. via mask/ET.

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SKILL	INDICATION	STANDING ORDER	CONTRAINDICATION	COMMENTS
Needle Thoracostomy	Severe respiratory distress with unilateral, absent breath sounds and systolic BP <90 in intubated or positive pressure ventilated patients.	No	None	BHO Use 14g IV catheter Insert catheter into anterior axillary line 4th/5th ICS on involved side (preferred) OR Insert into 2nd/3rd ICS in Mid- Clavicular Line on the involved side. Tape catheter securely to chest wall and leave open to air.
Prehospital Pain Scale	All patients with a traumatic or pain-associated chief complaint	Yes	None	Assess for presence of pain and intensity
Prehospital Stroke Scale	All adult patients with suspected Stroke/CVA	Yes	None	Assess facial droop, arm drift, & speech.
Pulse Oximetry	Assess oxygenation	Yes	None	Obtain room air saturation if possible, prior to O ₂ administration.
Re-Alignment of Fracture	Grossly angulated long bone fracture	Yes	None	Use unidirectional traction. Check for distal pulses prior to realignment and every 15 min. thereafter.
Removal of Impaled Object	Compromised ventilation of patient with impaled object in face/cheek or neck.	Yes	None	

Document revised 7/1/2010

Approved:


 EMS Medical Director

SKILL	INDICATION	STANDING ORDER	CONTRAINDICATION	COMMENTS
Spinal Stabilization	Spinal pain of ?trauma MOI suggests ?potential spinal injury except in penetrating trauma without neurologic deficit. C-collar if intubated	Yes	None	Pregnant patients (>6mo) tilt 30 degree left lateral decubitus. Optional if all of the following are present and documented: <u>Adult Patient</u> 1. awake, oriented to person, place & time 2. no drug/ETOH influence 3. no pain/tenderness of neck or back upon palpation 4. no competing pain 5. cooperative <u>Pediatric Patient</u> N=no altered LOC E=evidence of obvious injury absent C=complete spontaneous ROM without pain K=kinematic (mechanism) negative
Tourniquet	Severely injured extremity when direct pressure or pressure dressing fails to control life-threatening hemorrhage.	Yes		Direct pressure failure not required prior to tourniquet application in mass casualty.
Valsalva Maneuver	SVT	Yes	None	Most effective with adequate BP D/C after 5-10 sec if no conversion
VASCULAR ACCESS External jugular	When unable to establish other peripheral IV and IV is needed for definitive therapy ONLY.	Yes	None	Tamponade vein at end of catheter until tubing is securely attached to cannula end.

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Approved:


 EMS Medical Director

SKILL	INDICATION	STANDING ORDER	CONTRAINDICATIONS	COMMENTS
Extremity	Whenever IV line is needed or anticipated for definitive therapy.	Yes	None	Use extension tubing for suspected STEMI and *** Acute MI***
Indwelling Devices	Primary access site for patients with indwelling catheters if needed for definitive therapy ONLY	Yes	Devices without external port	Infuse at a rate to support continuous flow and prevent backflow into IV line. Needleless systems may require adaptor. Examples include Groshong, Hickman, PICC lines.
Intraosseous	Fluid/medication administration in acute status patient when needed for definitive therapy and unable to establish venous access.	Yes	Tibial fracture Vascular Disruption Prior attempt to place in target bone	Splint extremity. Observe carefully for signs of extravasation. Do not infuse into fracture site. Neonate < 28 days old BHO (<1 cm in depth). In conscious adult patient slowly infuse Lidocaine 2% (preservative free) 40mg IO prior to fluid administration.
Percutaneous Dialysis Catheter Access(e.g. Vascath)	Unable to establish other peripheral IV and IV is needed for definitive therapy ONLY.	Yes	None	Vas Cath contains concentrated dose of Heparin which must be aspirated PRIOR to infusion. Infuse at a rate to support continuous flow and prevent backflow into IV line. Needleless systems may require adaptor.
Shunt/graft - AV (Dialysis)	Unable to establish other peripheral IV and IV is needed for definitive therapy ONLY.	Yes	None	Prior to access, check site for bruits and thrills. Access fistula on venous side (weaker thrill). Inflate BP cuff around IV bag to just above patient's systolic BP to maintain flow of IV. If unsuccessful, hold direct pressure over site for 10" to stop bleeding. Do not apply pressure dressing.

* When medication by that route is a SO.

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 EMS Medical Director

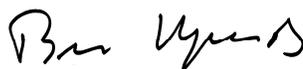
SUBJECT: LATEX-SAFE EQUIPMENT LIST

Date: 7/1/09

- I. **Authority:** Health and Safety Code, Division 2.5, Section 1797.204.
- II. **Purpose:** Identify essential equipment that must be available for use with patients identified as latex-sensitive.
- III. **Policy:** Prehospital personnel shall be prepared to manage patients that are identified as latex-sensitive in a manner that is as latex-safe as possible. Prehospital provider agencies shall attempt, when possible, to use patient equipment that minimizes exposure to latex containing products, and shall, at a minimum, maintain the items indicated below for use with patients identified as latex-sensitive. Provider agencies shall maintain documentation demonstrating the latex-safety of the equipment listed below. ALS ambulances shall maintain the complete listing below. BLS ambulance requirements are designated "+."

A. <u>Airway Adjuncts:</u>	<u>Minimum</u>
Bag-valve-mask device with reservoir, adult and pediatric	1 each
Endotracheal Tubes: Sizes: 6, 6.5, 7, 7.5, 8, 8.5, 9	1 each
Nasal Airways +, Assorted Sizes	1 package
O ₂ Cannula +	1 each
Positive Pressure Breathing Valve + - Mask must be latex-safe	1 each
Stylet	1 each
Suction Catheters (12, 14, 18 fr.)	1 each
Suction Catheters, Tonsil Tip + (Yankauer)	1 each
B. <u>Vascular Access/Monitoring Equipment</u>	
Armboard: Long (barrier protection acceptable)	1 each
Armboard: Short (barrier protection acceptable)	1 each
Blood Pressure Cuff + (barrier protection acceptable)	1 each
I.V. Administration Sets: (barrier protection acceptable)	
Macro drip	1 each
Micro drip	1 each
IV Tourniquets	1 each
Needles: I.V. Cannula - 14 Gauge	1 each
I.V. Cannula - 16 Gauge	1 each
I.V. Cannula - 18 Gauge	1 each
I.V. Cannula - 20 Gauge	1 each
Three-Way Stopcock with extension tubing	2 each
Syringes: 1 ml, 3 ml, 5 ml, 10 ml, 20 ml	1 each
Stethoscope + (barrier protection acceptable)	1 each
C. <u>Monitoring</u>	
Defibrillator pads +	1 pkg
Electrodes +	1 box

Approved:


Ben Myers
EMS Medical Director

SUBJECT: LATEX-SAFE EQUIPMENT LIST

Date: 7/1/09

D. Splinting Devices:

Extrication Collars +, Rigid, Adult	1 each
Traction Splint + (barrier protection acceptable)	1 each

E. Packs

*Personal Protective Equipment + (masks, gloves, gowns, shields)	<u>Minimum</u> 2 sets
--	--------------------------

F. Other Equipment

Cold Packs + (barrier protection acceptable)	1 each
Hot packs + (barrier protection acceptable)	1 each
Nasogastric Intubation Set-Up (12 or 14, 18 fr. 48")	1 each

H. **Replaceable Medications:

Tool to remove latex caps from multi-dose vials with latex plugs

IV Solutions:

Normal Saline (barrier protection acceptable)	1000ml bag	1
Normal Saline (barrier protection acceptable)	250 ml bag	1

I. OB/Pediatric supplies

Bulb Syringe +	1
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* Prehospital staff should minimize their own exposure to latex products at all times

** Staff shall be knowledgeable in procedures to use latex-containing products in a latex-safe manner.

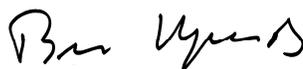
Such methods include:

- Barrier protective measures (for stethoscope, for example). If barrier protection is used, materials should be easily available to implement the barrier.
- Procedures to remove or cover latex-containing parts (such as the caps on multi-dose medication vials).

Note: See EMS Treatment Protocol S-122: Allergic Reaction/Anaphylaxis for additional information.

Questions regarding the management of latex-sensitive patients should be referred to the Base Hospital.

Approved:


Ben Myers
EMS Medical Director

ADULT SKILLS

Cardioversion-Synchronized

Unconscious SVT

Unstable VT

Unconscious Atrial Fibrillation/Atrial Flutter with HR ≥ 180 :

Start at 100 J (or per manufacturer's instruction) MR at 100, 200, 200 J (or per manufacturer's instruction).

Continuous Positive Airway Pressure

Respiratory Distress: CHF, COPD or Asthma.

Moderate to severe respiratory distress. Retractions/accessory muscle use **AND**

RR >25 /min **OR** SpO₂ $<94\%$

Defibrillation

VT (pulseless)/ VF. Start at maximum joule setting

Repeat prn

Glucose Monitoring

Hypoglycemia (suspected)

Indwelling Devices

Use pre-existing external indwelling vascular access devices as primary vascular access. Use hemodialysis vascular access/fistula/graft if unable to start IV for definitive therapy purposes only.

Intraosseous Infusion: Fluid/medication administration in acute status patient when needed for definitive therapy and unable to establish venous access.

Intubate (ET/Stomal/ETAD/Perilaryngeal)

Apnea or ineffective respirations for unconscious patient or decreasing LOC.

Magill Forceps with direct Laryngoscopy

Airway obstruction from foreign body with decreasing LOC or unconscious.

Nasogastric/Orogastric Tube Insertion

Gastric distension interfering with ventilation.

Re-alignment of Fracture

Grossly angulated long bone fracture with gentle unidirectional traction if necessary for splinting.

Tourniquet

Apply tourniquet in severely injured extremity when direct pressure or pressure dressing fails to control life-threatening hemorrhage. (attempt to control life-threatening hemorrhage with direct pressure or pressure dressing not required prior to tourniquet application in a mass casualty.)

Valsalva Maneuver

SVT.

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Approved:



EMS Medical Director

MEDICATIONS

MEDICATION	DOSAGE / ROUTE/INDICATION
Albuterol	Respiratory distress ? Asthma/COPD/respiratory origin OR Allergic reaction in presence of respiratory distress: <ul style="list-style-type: none"> • 6ml of 0.083% via nebulizer. MR Suspected hyperkalemia in the symptomatic patient: <ul style="list-style-type: none"> • 6ml of 0.083% via nebulizer, continuous.
Adenosine	SVT with no history of bronchospasm or COPD: <ul style="list-style-type: none"> • 6 mg IVP/IO followed by 20ml NS IVP/IO • 12 mg IVP/IO followed by 20 ml NS IVP/IO. • If no sinus pause, MR x1 in 1-2"
ASA	Discomfort/Pain of suspected cardiac origin or discomfort/pain relieved with NTG SL (prior to arrival or EMS administered): <ul style="list-style-type: none"> • 162mg PO
Atropine	Unstable narrow Bradycardia or Unstable wide Bradycardia (if pacemaker unavailable) with Pulse < 60: <ul style="list-style-type: none"> • 0.5mg IV/IO. MR q3-5" IV/IO to max 3 mg PEA rate < 60: <ul style="list-style-type: none"> • 1mg IV/IO. MR q3-5" to max of 3 mg Organophosphate poisoning: <ul style="list-style-type: none"> • 2mg IV/IM/IO MR x2 q3-5"
Atrovent	Respiratory distress ? Asthma/COPD/respiratory origin <ul style="list-style-type: none"> • 2.5ml 0.02% via nebulizer added to first dose of Albuterol
Benadryl	Extrapyramidal reactions OR Allergic reaction/anaphylaxis <ul style="list-style-type: none"> • 50mg slow IVP/IM
CaCl ₂	Symptomatic patient with suspected hyperkalemia (widened QRS complex and peaked T-waves) <ul style="list-style-type: none"> • 250mg IV/IO
Charcoal	Oral ingestion of poison or overdose (excluding isolated alcohol, heavy metal, caustic agents, hydrocarbons or iron ingestion). <ul style="list-style-type: none"> • 50 grams PO
D ₅₀	Hypoglycemia: <u>Symptomatic patient with Altered LOC unresponsive to oral glucose agents:</u> D ₅₀ 25Gm IV/IO <u>SO</u> if BS <75mg/dL. If patient remains symptomatic and BS < 75 mg/dL MR <u>SO</u>
Epinephrine 1:10,000	Cardiac arrest: <ul style="list-style-type: none"> • 1mg IV/IO. MR q3-5".

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MEDICATION	DOSAGE / ROUTE/INDICATION
Epinephrine 1:1,000	<p>?Allergic reaction Any respiratory distress with bronchospasm</p> <ul style="list-style-type: none"> • If no known cardiac history and < 65yo 0.3mg IM. MR x2 q10" • If cardiac history and >65yo 0.3mg IM <p>Anaphylaxis (shock or cyanosis)</p> <ul style="list-style-type: none"> • 0.3mg IM MR x2 q10" <p>?Respiratory Distress (?asthma/COPD/Respiratory origin) <u>If severe respiratory distress or inadequate response to Albuterol/Atrovent consider:</u></p> <ul style="list-style-type: none"> • If no known cardiac history and < 65yo 0.3mg IM. MR x2 q10
Glucagon	<p>Symptomatic patient with Altered LOC unresponsive to oral glucose agents: If no IV: 1mL IM SQ if BS < 75 mg/dL</p>
Lidocaine	<p>Stable VT OR Post Conversion VT/VF with pulse \geq 60:</p> <ul style="list-style-type: none"> • 1.5mg/kg IV/IO MR 0.5 mg/kg q8-10" to a max of 3 mg/kg <p>Intraosseous: In conscious adult patient slowly infuse Lidocaine 2% (preservative free) 40mg IO prior to fluid administration.</p>
MS	<p>For treatment of pain score assessment of \geq 5 with systolic BP \geq 100</p> <ul style="list-style-type: none"> • 2-4mg IV/IO MR to max of 10 mg OR • 5mg IM OR • 10mg PO <p>Discomfort/pain of suspected cardiac origin where systolic BP \geq 100</p> <ul style="list-style-type: none"> • 2-4mg IV; MR to max 10mg
Narcan	<p>Symptomatic ?opioid OD (excluding opioid dependent pain management patients) with respiratory rate <12:</p> <ul style="list-style-type: none"> • 2mg IN/IM/IV. MR. Titrate IV dose to effect • 2mg IM as an additional dose if patient refuses transport <p>Symptomatic ?opioids OD in opioid dependent pain management patients with respiratory rate <12:</p> <ul style="list-style-type: none"> • Narcan IV titrate 0.1mg increments up to 2mg IVP or Narcan 1-2mg IN/IM
NTG SL	<p>Discomfort/pain of cardiac origin if systolic BP \geq 100 OR Respiratory distress ? CHF/cardiac origin if systolic BP \geq 100 but <150:</p> <ul style="list-style-type: none"> • 0.4mg SL MR q3-5" <p>Respiratory distress ? CHF/cardiac origin if systolic BP \geq 150:</p> <ul style="list-style-type: none"> • 0.8mg SL MR x3 q3-5"
NITRO Paste	<p>Pain or discomfort of suspected cardiac origin:</p> <ul style="list-style-type: none"> • If BP \geq 100: topical ointment / paste 1" <p>Respiratory Distress ? CHF/cardiac origin): If BP \geq 100: topical ointment / paste 1"</p>

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MEDICATION	DOSAGE / ROUTE/INDICATION
NS	Definitive therapy only: <ul style="list-style-type: none"> • IV/IO, adjust prn Crush injury with extended compression > 2 hours of extremity or torso: <ul style="list-style-type: none"> • IV/IO 500 ml fluid bolus just prior to extremity being released Symptomatic ? Stimulant Intoxication OR ?Intra-abdominal catastrophe OR ?aortic aneurysm OR Shock: hypovolemia OR Shock: anaphylaxis, neurogenic, sepsis shock OR Trauma: <ul style="list-style-type: none"> • IV/IO 500 ml fluid bolus MR to maintain systolic BP \geq 90 Shock (?cardiac etiology) with clear lung sounds OR Discomfort/pain of ?cardiac origin with associated shock with clear lung sounds OR Dysrhythmias with clear lung sounds: <ul style="list-style-type: none"> • IV/IO 250 ml fluid bolus. MR to maintain systolic BP \geq 90 Burns \geq 20% 2 nd or \geq 5% 3 rd degree and \geq 15 yo <ul style="list-style-type: none"> • IV/IO 500 ml fluid bolus, then TKO
Ondansetron (Zofran)	Abdominal discomfort – GI/GU (non-traumatic) For nausea and/or vomiting <ul style="list-style-type: none"> • 4mg IV/IM/PO/ODT
Sodium Bicarbonate (NaHCO ₃)	Pulseless Electrical Activity (PEA) <ul style="list-style-type: none"> • 1mEq/kg IV/IO Symptomatic patient with suspected hyperkalemia (widened QRS complex and peaked T-waves) <ul style="list-style-type: none"> • 1mEq/kg IV/IO
Versed	Generalized seizure lasting \geq 5" OR Focal seizure with respiratory compromise OR Recurrent seizure without lucid interval OR Eclamptic seizure: <ul style="list-style-type: none"> • 0.1mg/kg slow IV/IO, to a max dose of 5mg. MR x1 in 10" OR • If no IV: 0.2mg/kg IN to a max dose 5mg. MR x1 in 10" OR • If no IV: 0.2mg/kg IM to a max dose 10mg. MR x1 in 10" Pre-cardioversion for conscious VT: <ul style="list-style-type: none"> • 1-5mg slow IV/IO prn Severe agitation: <ul style="list-style-type: none"> • 0.1mg/kg slow IV, to a max dose of 5mg. OR • If no IV: 0.2mg/kg IN to a max dose 5mg. MR x1 in 10" • If no IV: 0.2mg/kg IM to a max dose 10mg. MR x1 in 10"

Note: Maintain previously established, labeled IV solutions, medication delivery systems, and/or other treatment modalities at preset rates.

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 EMS Medical Director

**SUBJECT: TREATMENT PROTOCOL – ADULT STANDING ORDERS FOR
 COMMUNICATION FAILURE**

Date: 7/01/10

When unable to communicate with BH while at scene/enroute, IN ADDITION TO STANDING ORDERS, the following may be initiated without BH contact. **Maximum doses include standing order doses.**

PROTOCOL	CHIEF COMPLAINT and TREATMENT
Allergic Reaction/ Anaphylaxis (S-122):	<p><u>ANY respiratory distress with bronchospasm:</u></p> <p><u>Anaphylaxis (shock or cyanosis):</u></p> <ul style="list-style-type: none"> • Epinephrine 1:10,000 0.1mg IV/IO. MR x2 q3-5” • Dopamine 400mg/250ml @ 10-40 mcg/kg/min IV/IO drip. Titrate systolic BP \geq90
Altered Neurological Function (S-123):	<p>Symptomatic ?opioids OD in opioid dependent pain management patients with respiratory rate <12:</p> <ul style="list-style-type: none"> • Narcan IV, titrate dose in 0.1mg increments, up to 2mg IV • OR • Narcan 1-2mg IN/IM. MR
Discomfort/Pain of Suspected Cardiac Origin (S-126):	<p>If systolic BP \geq 100:</p> <ul style="list-style-type: none"> • MS 2 – 4 mg IV/IO MR to max of 20 mg <p>If systolic BP < 100:</p> <ul style="list-style-type: none"> • NTG 0.4mg SL MR • MS 2-4mg IV/IO MR to max of 20mg <p><u>Discomfort/Pain of ? Cardiac Origin with Associated Shock:</u> If BP refractory to fluid boluses:</p> <ul style="list-style-type: none"> • Dopamine 400mg/250ml @ 10-40 mcg/kg/min IV/IO drip. • Titrate systolic BP \geq 90
Dysrhythmias (S-127) Unstable Bradycardia	<p>NARROW COMPLEX BRADYCARDIA</p> <p>If rhythm refractory to Atropine 1 mg:</p> <ul style="list-style-type: none"> • External cardiac pacemaker, if available, may use • If capture occurs and systolic BP \geq100, consider medication for discomfort. Morphine 2-10 mg slow IV/IO • For discomfort related to pacing not relieved with Morphine and BP \geq100: Versed 1-5 mg slow IV/IO • Dopamine 400mg/250ml at 10-40mcg/kg/min IV/IO drip, titrate to systolic BP \geq 90 (after max Atropine or initiation of pacing) <p>WIDE COMPLEX BRADYCARDIA</p> <ul style="list-style-type: none"> • External cardiac pacemaker, if available, may use • If capture occurs and systolic BP \geq100, consider medication for discomfort, Morphine 2-10 mg slow IV/IO prn • For discomfort related to pacing not relieved with Morphine and BP \geq100: Versed 1-5 mg slow IV/IO • Dopamine 400mg/250ml at 10-40mcg/kg/min IV/IO drip, titrate to systolic BP \geq 90 (after initiation of pacing)

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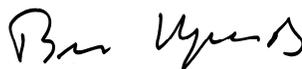
SUBJECT: TREATMENT PROTOCOL – ADULT STANDING ORDERS FOR
COMMUNICATION FAILURE

Date: 7/01/10

SVT: (S-127)	<p>Patients with history of bronchospasm or COPD</p> <ul style="list-style-type: none">• Adenosine 6mg rapid IV, followed with 20ml NS IV/IO• Adenosine 12mg rapid IV followed with 20ml NS IV/IO• If no sinus pause, MR x1 in 1-2" <p><u>If patient unstable with severe symptoms OR rhythm refractory to treatment:</u></p> <p><u>Conscious (BP<90 systolic and chest pain, dyspnea or altered LOC):</u></p> <ul style="list-style-type: none">• Versed 1-5 mg slow IV/IO prn precardioversion. If age \geq 60 consider lower dose with attention to age and hydration status• Synchronized cardioversion at 100 J (or clinically equivalent biphasic energy dose) MR at 200, 300, 360 J (or clinically equivalent biphasic energy dose) <p><u>Unconscious:</u></p> <ul style="list-style-type: none">• Synchronized cardioversion MR prn
Unstable Atrial Fib/Flutter (S-127)	<p>In presence of ventricular response with heart rate \geq180:</p> <p>Conscious:</p> <ul style="list-style-type: none">• Versed 1-5 mg slow IV/IO prn pre-cardioversion. If age \geq 60 consider lower dose with attention to age and hydration status• Synchronized cardioversion at 100 J (or clinically equivalent biphasic energy dose) MR at 200, 300, 360 J (or clinically equivalent biphasic energy dose) <p>Unconscious:</p> <ul style="list-style-type: none">• Synchronized cardioversion MR
V Tach (S-127)	<p>If patient unstable with severe symptoms:</p> <p>Conscious (<u>Systolic BP<90 and chest pain, dyspnea or altered LOC</u>):</p> <ul style="list-style-type: none">• Synchronized cardioversion MR <p>Unconscious:</p> <ul style="list-style-type: none">• Synchronized cardioversion MR
Pulseless Electrical Activity (PEA) (S-127)	<p>Consider:</p> <ul style="list-style-type: none">• NaHCO₃ 0.5 mEq/kg IV/IO• If no response after 3 doses of Epinephrine, d/c resuscitative efforts• If response to treatment noted, continue treatment and transport
Asystole (S-127)	<ul style="list-style-type: none">• If no response after 3 doses of Epinephrine, d/c resuscitative efforts• If response to treatment noted, continue treatment and transport

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<p>Poisoning/OD (S-134):</p>	<p><u>Symptomatic ?opioid OD in opioid dependent pain management patients with respiratory rate <12:</u></p> <ul style="list-style-type: none"> Narcan IV, titrate dose in 0.1mg increments, up to 2mg IV OR 1-2mg IN/IM, MR <p><u>Symptomatic Organophosphate poisoning:</u></p> <ul style="list-style-type: none"> Atropine 2mg IV/IM MR q3-5" <p><u>?Tricyclic OD with cardiac effects (e.g. hypotension, heart block, or widened QRS):</u></p> <ul style="list-style-type: none"> NaHCO₃ 1mEq/kg IV/IO
<p>Pre-existing Medical Intervention (S-135)</p>	<p>Previously established electrolyte and/or glucose containing IV solutions: Adjust rate or D/C</p> <p>Previously established treatment modalities: D/C prn</p>
<p>Shock (S-138):</p>	<p><u>Shock: (anaphylactic shock, neurogenic shock):</u> If BP refractory to fluid boluses:</p> <ul style="list-style-type: none"> Dopamine 400mg/250ml @ 10-40 mcg/kg/min IV/IO drip. Titrate systolic BP ≥ 90 <p><u>Shock (? cardiac etiology, septic shock):</u> If BP refractory to fluid bolus:</p> <ul style="list-style-type: none"> Dopamine 400mg/250ml @ 10-40 mcg/kg/min IV/IO drip. Titrate systolic BP ≥ 90
<p>Trauma (S-139):</p>	<p><u>Crush injury</u> with extended compression ≥ 2 hours of extremity or torso: Just prior to extremity being released:</p> <ul style="list-style-type: none"> NaHCO₃ 1mEq/kg IV/IO CaCl₂ 250mg IV over 30 seconds <p><u>Severe Respiratory Distress with unilateral absent breath sounds and systolic BP < 90 in intubated or positive pressure ventilated patients:</u></p> <ul style="list-style-type: none"> Needle thoracostomy <p><u>Traumatic Arrest:</u></p> <ul style="list-style-type: none"> Consider pronouncement at scene
<p>Pain Management (S-141):</p>	<p>For treatment of pain score assessment of > 5 with systolic BP > 100:</p> <ul style="list-style-type: none"> MS MR 2-10mg in 2-4 mg increments IV to max of 20mg OR MS MR to max of 10mg IM OR MS MR to max of 30mg PO
<p>Psychiatric/Behavioral (S-142):</p>	<p>For Severe Agitation: Versed MR 0.2 mg/kg IM, max. 10 mg or 0.1 mg/kg IV, max. 5 mg</p>

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 Approved:


 EMS Medical Director

PEDIATRIC SKILLS

Defibrillation (monophasic/biphasic)

- VF/VT (pulseless)

Glucose Monitoring

- Hypoglycemia (suspected)

Indwelling Devices

- Use pre-existing external indwelling vascular access devices as primary vascular access. Use hemodialysis vascular access/fistula/graft if unable to start IV for definitive therapy purposes only.

Intraosseous Infusion: Fluid/medication administration in acute status patient, unresponsive to pain, when needed for definitive therapy and unable to establish venous access.

Intubate (ET/Stomal/ETAD)

- When unable to adequately ventilate via BVM the unconscious apneic patient, or patient with ineffective respirations.
- Newborn delivery when HR remains <60 bpm after 30 seconds of ventilation with 100% O₂.

Magill Forceps with Direct Laryngoscopy

- Airway obstruction from foreign body with decreasing LOC or unconscious

Nasogastric/Orogastric Tube Insertion

- Gastric distension interfering with ventilation
- Uncuffed intubations

Re-alignment of Fracture

- Grossly angulated long bone fracture with gentle unidirectional traction if necessary for splinting.

Removal of impaled objects

- From face/cheek or neck if there is total airway obstruction

Tourniquet

Apply tourniquet in severely injured extremity when direct pressure or pressure dressing fails to control life-threatening hemorrhage. (attempt to control life-threatening hemorrhage with direct pressure or pressure dressing not required prior to tourniquet application in a mass casualty.)

Valsalva Maneuver

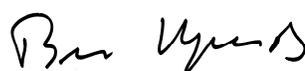
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All medications are per pediatric drug chart unless otherwise noted

MEDICATION	DOSAGE / ROUTE
Albuterol	Respiratory distress with bronchospasm OR Allergic reaction in presence of respiratory distress with bronchospasm <ul style="list-style-type: none"> Via nebulizer MR prn
Atropine	Symptomatic Organophosphate Poisoning <ul style="list-style-type: none"> IVP/IM/IO MR x2 q3-5" Unstable bradycardia <ul style="list-style-type: none"> IV/IO MR x1 in 5"
Atrovent	Respiratory distress with bronchospasm Via nebulizer added to first dose of Albuterol
Benadryl	Allergic reaction OR Anaphylaxis OR Extrapramidal reaction: <ul style="list-style-type: none"> IM/IVP
Charcoal	Oral Ingestion of poison or overdose (excluding isolated alcohol, heavy metal, caustic agents, hydrocarbons or iron ingestion). <ul style="list-style-type: none"> PO
D ₂₅	Hypoglycemia: <u>Symptomatic patient unresponsive to oral glucose agents:</u> <ul style="list-style-type: none"> IVP <u>SO</u> if BS <75mg/dL (infant < 60mg/dL) If patient remains symptomatic and BS < 75 mg/dL (infant < 60mg/dL, neonate <45mg/mL) MR <u>SO</u>
Epinephrine 1:10,000	Cardiac arrest OR Unstable bradycardia after 30 seconds of ventilation OR Newborn delivery with HR <60 after 30 seconds of CPR: <ul style="list-style-type: none"> IVP/IO MR x 2 q3-5"
Epinephrine 1:1000	?Allergic Reaction Any respiratory distress with bronchospasm <ul style="list-style-type: none"> IM MR x2 q10" Anaphylaxis (shock or cyanosis) <ul style="list-style-type: none"> IM MR x2 q10" ?Respiratory etiology Severe respiratory distress with bronchospasm or inadequate response to Albuterol <ul style="list-style-type: none"> IM MR x2 q10"

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Approved:


 EMS Medical Director

All medications are per pediatric drug chart unless otherwise noted

MEDICATION	DOSAGE / ROUTE
Epinephrine 1:1000	Respiratory distress with stridor: <ul style="list-style-type: none"> Via nebulizer MR x1
Glucagon	Symptomatic patient unresponsive to oral glucose agents: If no IV: IM if BS < 75 mg/dL (infant <60mg/dL, neonate <45mg/dL)
Lidocaine	Post Conversion VF/VT with pulse \geq 60 bpm: <ul style="list-style-type: none"> IVP/IO MR
Morphine	For treatment of pain score assessment of \geq 5 with systolic BP \geq [70 +(2x age in years)]: <ul style="list-style-type: none"> IV/IM/PO
Narcan	Symptomatic ?opioid OD excluding opioid dependent pain management patients: <ul style="list-style-type: none"> IN/IV/IM MR Symptomatic ?opioids OD in opioid dependent pain management patients: <ul style="list-style-type: none"> Titrate per drug chart IN/IV/IM (dilute IV dose to 10ml with NS)
NS	Anaphylaxis OR Dysrhythmias OR Noncardiogenic Shock: <ul style="list-style-type: none"> IV/IO fluid bolus MR to maintain systolic BP > [70 + (2x age)] if lungs clear Cardiogenic shock <ul style="list-style-type: none"> IV/IO fluid bolus Burns \geq 10% 2 nd or \geq 5% 3 rd degree: <ul style="list-style-type: none"> 5-14 yo: IV/IO 250 ml fluid bolus then TKO <5 yo: IV/IO 150 ml fluid bolus then TKO
Versed	Generalized seizure lasting \geq 5" OR Focal seizure with respiratory compromise OR Recurrent seizure without lucid interval: <ul style="list-style-type: none"> slow IVP MR x1 in 10" if no IV may give IN/IM MR x1 in 10"

Note: Maintain previously established, labeled IV solutions, medication delivery systems, and/or other treatment modalities at preset rates.

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EMS Medical Director

SUBJECT: TREATMENT PROTOCOL – PEDIATRIC STANDING ORDERS FOR
COMMUNICATION FAILURE

Date: 7/1/10

When unable to communicate with BH while at scene/enroute, IN ADDITION TO STANDING ORDERS, the following may be initiated without BH contact. **Maximum doses include standing order doses.**

All medications are per pediatric drug chart unless otherwise noted

PROTOCOL	CHIEF COMPLAINT and TREATMENT
Altered Neurological Function (S-161):	Symptomatic ?opioids OD in opioid dependent pain management patients: <ul style="list-style-type: none">• Narcan titrate per drug chart IV or IM MR
Allergic Reaction/ Anaphylaxis (S-162):	<u>Anaphylaxis (shock or cyanosis):</u> <ul style="list-style-type: none">• Epinephrine 1:10,000 per drug chart IV/IO. MR x2 q3-5”
Dysrhythmias <u>Unstable Bradycardia</u> (S-163):	Heart rate: Infant/Child (<9 yrs) <60 bpm Child (9-14yrs) <40bpm <ul style="list-style-type: none">• Epinephrine 1:10,000 per drug chart IV/IO MR q3-5”
Supraventricular Tachycardia (S-163):	<4yrs ≥240bpm ≥4yrs ≥200bpm <ul style="list-style-type: none">• Adenosine per drug chart rapid IVP _ follow with 20ml NS IVP• Adenosine per drug chart rapid IVP _ follow with 20ml NS IVP• If no sinus pause, MR x1 <u>BHPO</u> Versed per drug chart slow IV prn pre-cardioversion Synchronized cardioversion per drug chart (monophasic/biphasic). MR per drug chart
VF/Pulseless VT (S-163):	Once IV/IO established, if no pulse after rhythm/pulse check: <ul style="list-style-type: none">• Epinephrine 1:10,000 per drug chart IV/IO MR q3-5”
Pulseless Electrical Activity (PEA) / Asystole (S-163):	Once IV/IO established, if no pulse after rhythm/pulse check: <ul style="list-style-type: none">• Epinephrine 1:10,000 per drug chart IVP/IO MR q3-5”

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Approved:



EMS Medical Director

SUBJECT: TREATMENT PROTOCOL – PEDIATRIC STANDING ORDERS FOR
COMMUNICATION FAILURE

Date: 7/1/10

Poisoning/OD (S-165):	Symptomatic ? opioid OD in opioid dependent pain management patients: <ul style="list-style-type: none">• Narcan titrate per drug chart direct IV or IM <u>SO</u>. MR <u>Symptomatic organophosphate poisoning:</u> <ul style="list-style-type: none">• Atropine per drug chart IV/IM/IO. MR q3-5" prn <u>? Tricyclic OD with cardiac effects (hypotension, heart block, widened QRS):</u> <ul style="list-style-type: none">• NaHCO₃ per drug chart IV x1
Trauma (S-169):	<u>Crush injury</u> with extended compression ≥ 2 hours of extremity or torso: <u>Just prior to extremity being released:</u> <ul style="list-style-type: none">• IV fluid bolus per drug chart• NaHCO₃ drug chart IV <u>Severe Respiratory Distress (with unilateral absent breath sounds AND BP < [70 + (2 x age)] in intubated or positive pressure ventilated patients):</u> <ul style="list-style-type: none">• Needle thoracostomy <u>Traumatic Arrest:</u> Consider pronouncement at scene
Pain Management (S-173):	<u>For treatment of pain score assessment of > 5 with BP > 70+(2xage in years):</u> <ul style="list-style-type: none">• MS per drug chart MR IV/IM/PO

Document revised 7/1/2010
Approved:



EMS Medical Director

SUBJECT: MOBILE INTENSIVE CARE UNIT INVENTORY - PEDIATRIC

Date: 7/1/05

- I. **Authority:** Health and Safety Code, Division 2.5, Section 1797.204.
- II. **Purpose:** Identify a minimum standardized inventory on all Mobile Intensive Care Units.
- III. **Policy:** Essential equipment and supplies to be carried on each Mobile Intensive Care Unit (MICU) in San Diego County shall include all items found in the adult inventory as well as the following:

- A. Essential equipment and supplies required by California Code of regulations, Title 13, Section 1103.2(a) 1-20.

B. Pediatric Items:

Minimum

1. Airway:

Bag-valve-mask device with reservoir 250ml, 500ml, 1000ml	1 each
and the following interchangeable masks:	
premature size	1
neonate size	1
child size	1
End Tidal CO ₂ Detection Devices (<15kg, ≥15kg) OR	2 each
Quantitative End Tidal CO ₂ Capnography (optional item)	1
ET Tubes uncuffed 2.5, 3.0, 3.5, 4.0, 4.5, 5.0	1 each
ET Tube size 5.5 cuffed if available, or uncuffed	1
Feeding tube (8 Fr.)	1
Laryngoscope – Blades curved and straight sizes 0, 1, and 2	1 each
Magill Forcep – small	1
Oral Airways 0-5	1 each
O2 Mask (non rebreather), Pediatric	1
Stylet (6F and 14F)	1 each
Suction Catheters (5,6,8,10 Fr.)	1 each

2. Birth:

Bulb syringe	1
Head covering for newborn (or from OB pack)	1
Identification bands for mother/baby (or from OB pack)	1
Sterile Scissors (or scalpel from OB pack)	1
Umbilical Tape (or use clamp from OB pack)	1
Warm packs not to exceed 110 degrees F, or warming device with blanket Match language.	1

3. Immobilization:

Extrication Collars, Rigid, Child (small, medium, large)	2 each
Traction Splint – Pediatric (or equivalent)	1

4. Vascular Access/Monitoring Devices:

Defibrillation paddles (4.5.cm, 8.0 cm)	1 pair each
Gauze	1 package
IV cannula 22, 24	4 each
IO – Jamshidi-type needle – 18 Gauge	2
IO – Jamshidi-type needle – 15 Gauge	2
Three-Way Stopcock and extension tubing	2
Broselow Tape	1
Blood Pressure Cuff:	
Infant size	1
Child size	1
Pediatric Drug Chart	1

Approved:



EMS Medical Director

COUNTY OF SAN DIEGO EMERGENCY MEDICAL SERVICES
 POLICY/PROCEDURE/PROTOCOL
 SUBJECT: TREATMENT PROTOCOL – ALS MEDICATION LIST

No. P-115
 Page: 1 of 5
 Date: 7/1/10

MEDICATION	INDICATIONS	PROTOCOL	COMMENTS	CONTRAINDICATIONS
ADENOSINE	SVT	S-127, S-163	BHO for patients with history of bronchospasm or COPD. Do not give third dose if patient has sinus pause following second dose.	Second or third degree AV block Sick Sinus Syndrome (without pacemaker)
ALBUTEROL	Respiratory distress ?Asthma/COPD/respiratory origin Allergic Reaction Burns Suspected hyperkalemia in hemodialysis patient in presence of widened QRS complex and peaked T waves	S-122, S-131, S-136, S-162, S-167 S-124, S-170	Inhalation continuous via O ₂ powered nebulizer	
ASPIRIN	Pain/discomfort of ?cardiac origin	S-126		
ATROPINE SULFATE	PEA HR <60 after Epinephrine dose Unstable Bradycardia Organophosphate poisoning	S-127, S-134, S-150, S-163, S-165		Asystole
ATROVENT	Respiratory distress ?Asthma/COPD/respiratory origin	S-136, S-167	Added to first dose of Albuterol via continuous O ₂ powered nebulizer	
BENADRYL (DIPHENHYDRAMINE)	Allergic reaction Anaphylaxis Extrapyramidal reaction	S-122, S-134, S-162, S-165	IV - administer slowly	

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Approved:


 EMS Medical Director

COUNTY OF SAN DIEGO EMERGENCY MEDICAL SERVICES
 POLICY/PROCEDURE/PROTOCOL
 SUBJECT: TREATMENT PROTOCOL – ALS MEDICATION LIST

No. P-115
 Page: 2 of 5
 Date: 7/1/10

MEDICATION	INDICATIONS	PROTOCOL	COMMENTS	CONTRAINDICATIONS
CALCIUM CHLORIDE	Suspected hyperkalemia in hemodialysis patient in presence of widened QRS complex and peaked T waves Crush injury (adult)	S-131 S-139	Give IV over 30 seconds	
CHARCOAL (no Sorbitol)	Ingestion	S-134, S-165	Assure patient has gag reflex and is cooperative.	Isolated alcohol, heavy metal, caustic agents, hydrocarbons or iron ingestion
D ₅₀ (Dextrose 50%) OR D ₂₅ (Dextrose 25%) Peds	Symptomatic hypoglycemia: if BS <75mg/dL (Infant <60mg/dL, Neonate <45mg/dL)	S-123, S-161	Repeat BS not indicated en route if patient improving	
DOPAMINE HYDROCHLORIDE	Shock: (anaphylactic, neurogenic) Shock: (?cardiac etiology, septic) Discomfort/Pain of ?cardiac origin with associated shock Unstable Bradycardia (after max Atropine or TCP)	S-138 S-122 S-126 S-127	Titrate to maintain systolic BP \geq 90 not to exceed 120	
EPINEPHRINE	Cardiac arrest Allergic reaction Anaphylaxis Severe Respiratory distress or inadequate response to Albuterol	S-127, S-163 S-122, S-162 S-136, S-167		
GLUCAGON	Unable to start IV in patient with symptomatic hypoglycemia if BS <75mg/dL (Infant <60mg/dL, neonate <45mg/dL)	S-123, S-161		

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 EMS Medical Director

MEDICATION	INDICATIONS	PROTOCOL	COMMENTS	CONTRAINDICATIONS
LIDOCAINE (XYLOCAINE)	Post conversion from VT/VF with HR \geq 60 bpm Prior to IO fluid infusion in the conscious patient.	S-127, S-163	Adult doses should be given in increments rounded to the nearest 20mg amount. In the presence of shock, CHF or liver disease, the repeat bolus is recommended at 10" intervals.	Second and third degree heart block and idioventricular rhythm
LIDOCAINE JELLY (2%) optional	Intubation or Nasopharyngeal airway		Apply to ET tube or nasal airway	
MORPHINE SULPHATE (MS)	Burns Envenomation injury Trauma Pain or discomfort of ?cardiac origin Pain associated with external pacing (BHPO)	S-124, S-170 S-129, S-164 S-139, S-169 S-126 S-127	<u>BHPO</u> for: <ul style="list-style-type: none"> • Chronic pain states • Isolated head injury • Acute onset severe headache • Drug/ETOH intoxication • Multiple trauma with GCS <15 • Suspected active labor • Abdominal pain • External pacing 	

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Approved:


 EMS Medical Director

MEDICATION	INDICATIONS	PROTOCOL	COMMENTS	CONTRAINDICATIONS
NARCAN (NALOXONE HYDROCHLORIDE)	Symptomatic ?opioid OD	S-123, S-161 S-134, S-165	In adults, give for respiratory rate <12	
NORMAL SALINE	Definitive therapy	All	Definitive therapy defined as the administration of fluid or medications.	Rales (bolus)
NITROGLYCERINE (NTG)	Pain or discomfort of ?cardiac origin Respiratory distress ? CHF/cardiac origin Fluid overload in hemodialysis patient	S-126 S-136		Suspected intracranial bleed If any patient has taken an erectile dysfunction medication such as Viagra, Cialis, Levitra within 48 hours. May encounter patients taking similar medication for pulmonary hypertension, usually Sildenafil (trade name: Revatio). The contraindication still applies.

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Approved:



EMS Medical Director

COUNTY OF SAN DIEGO EMERGENCY MEDICAL SERVICES
 POLICY/PROCEDURE/PROTOCOL
 SUBJECT: TREATMENT PROTOCOL – ALS MEDICATION LIST

No. P-115
 Page: 5 of 5
 Date: 7/1/10

MEDICATION	INDICATIONS	PROTOCOL	COMMENTS	CONTRAINDICATIONS
SODIUM BICARBONATE (NaHCO ₃)	PEA (adult) Tricyclic OD with cardiac effects Hyperkalemia in the hemodialysis patient Crush injury	S-127 S-134, S-165 S-131 S-139, S-169		
VERSED (MIDAZOLAM)	Pre cardioversion Severe Agitation Poisoning/Overdose External Pacemaker post capture Seizure	S-127, S-163, S-142 S-123, S-133, S-161 S-134	<u>BHPO</u> pre cardioversion for A Fib/A Flutter Pain from external pacemaker not relieved by Morphine	
ZOFRAN (Ondansetron)	Nausea and/or vomiting	S-120		

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Approved:



EMS Medical Director

SUBJECT: TREATMENT PROTOCOL --
PEDIATRIC WEIGHT BASED DOSAGE STANDARDS

Date: 7/01/10

MEDICATION	DOSE
Adenosine IV fast 1st	0.1 mg/kg
Adenosine IV fast 2nd/3rd	0.2 mg/kg
Albuterol-Nebulized	5 mg (6 ml)
Atrovent-Nebulized	0.05 mg (2.5 ml)
Atropine (Bradycardia) IV/IO	0.02 mg/kg
Atropine (OPP) IV/IM	0.02 mg/kg
Benadryl IV/IM	1 mg/kg
Charcoal PO	1 GM/kg
Dextrose 25% IV	0.5 GM/kg (2 ml/kg)
Epinephrine IV / IO (1:10,000)	0.01 mg/kg
Epinephrine SQ/IM (1:1,000)	0.01 mg/kg
Epinephrine-Nebulized (1:1,000)	2.5 – 5.0 ml
Glucagon IM	0.05 mg/kg
Lidocaine 2% IV / IO	1 mg/kg
Morphine Sulfate IV/IM	0.1 mg/kg
Morphine Sulfate PO	0.3 mg/kg
Narcan IV/IN/IM	0.1 mg/kg
Narcan IV titrated increments	0.1 mg/kg
Normal Saline Fluid Bolus	20 ml/kg
Sodium Bicarb IV	1 mEq/kg
Versed IV slow	0.1 mg/kg
Versed IM/IN	0.2 mg/kg

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Approved:



Medical Director

Broselow color: GREY/PINK

Kg range: < 8 kg **Approx Kg:** 5 kg
Approximate LBS: 10 lbs
ET uncuffed tube size: 3.5
ET cuffed tube size: 3.0
NG tube size: 5 Fr

Defib: 1st 2nd 3rd
 10 J 20 J 20 J
Cardiovert: 5 J 10 J 10 J
 (or clinically equivalent biphasic energy dose)

VOL	MEDICATION	DOSE	CONCENTRATION
0.2 ml	Adenosine IV 1st	0.5 mg	6 mg/2 ml
0.4 ml	Adenosine IV 2nd/3rd	1 mg	6 mg/2 ml
6 ml	Albuterol- Nebulized	5 mg	2.5 mg/3 ml
1.25 ml	Atrovent- Nebulized	0.25 mg	0.5 mg/2.5 ml
1 ml	Atropine (Bradycardia) IV/IO	0.1 mg	1 mg/10 ml
0.3 ml *	Atropine (OPP) IV/IM	0.1 mg	0.4 mg/1 ml
0.1 ml	Benadryl IV/IM	5 mg	50 mg/1 ml
24 ml	Charcoal PO	5 GM	50 GM/240 ml
10 ml	Dextrose 25% IV	2.5 GM	12.5 GM/50 ml
0.5 ml	Epinephrine IV/IO	0.05 mg	1:10,000 1mg/10ml
0.1 ml *	Epinephrine SC/IM	0.05 mg	1:1,000 1mg/1ml
2.5 ml	Epinephrine- Nebulized	2.5 mg	1:1,000 1mg/1ml
0.3 ml *	Glucagon IM	0.25 mg	1 unit (mg)/1 ml
0.3 ml *	Lidocaine 2% IV/IO	5 mg	100 mg/5 ml
NONE	Morphine Sulfate IV/IM	NONE	10 mg/1 ml
0.8 ml *	Morphine PO	1.5 mg	10 mg/5 ml
0.5 ml	Narcan IN/IM/IV	0.5 mg	1 mg/1 ml
5 ml	Narcan IV titrated increments	0.5 mg	Diluted to 1 mg/10 ml
100 ml	Normal Saline Fluid Bolus		Standard
5 ml	Sodium Bicarb IV	5 meq	1 meq/1 ml
0.1 ml	Versed IV	0.5 mg	5 mg/1 ml
0.2 ml	Versed IN/IM	1 mg	5 mg/1 ml

- To assure accuracy be sure the designated **concentration** of medication is used.
- * Volume rounded for ease of administration

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Approved:



EMS Medical Director

Broselow color: RED
Broselow color: PURPLE
Broselow color: YELLOW

Kg range: 8-14kg Approx Kg: **10 kg**
 Approximate LBS: **20 lbs**
 ETT uncuffed size: **3.5(R)** **4 (P)** **4.5(Y)**
 ETT cuffed size: **3.0(R)** **3.5(P)** **4.0(Y)** (or clinically equivalent biphasic energy dose)
 NG tube size: **5-8 Fr** **8-10 Fr** **10 Fr**

Defib: 1st 2nd 3rd
20 J **40 J** **40 J**
 Cardiovert: **10 J** **20 J** **20 J**

VOL	MEDICATION	DOSE	CONCENTRATION
0.3 ml *	Adenosine IV fast 1st	1mg	6 mg/2 ml
0.7 ml *	Adenosine IV fast 2nd/3rd	2 mg	6 mg/2 ml
6 ml	Albuterol- Nebulized	5 mg	2.5 mg/3 ml
1.25 ml	Atrovent- Nebulized	0.25 mg	0.5 mg/2.5 ml
2 ml	Atropine (Bradycardia) IV/IO	0.2 mg	1 mg/10 ml
0.5 ml	Atropine (OPP) IV/IM	0.2 mg	0.4 mg/1 ml
0.2 ml	Benadryl IV/IM	10 mg	50 mg/1 ml
50 ml *	Charcoal PO	10 GM	50 GM/240 ml
20 ml	Dextrose IV 25%	5 GM	12.5 GM/50 ml
1 ml	Epinephrine IV/IO	0.1 mg	1:10,000 1mg/10ml
0.1 ml	Epinephrine SC/IM	0.1 mg	1:1,000 1mg/1ml
2.5 ml	Epinephrine- Nebulized	2.5 mg	1:1,000 1mg/1ml
0.5 ml	Glucagon IM	0.5 mg	1 unit (mg)/1 ml
0.5 ml	Lidocaine 2% IV/IO	10 mg	100 mg/5 ml
0.1 ml	Morphine Sulfate IV/IM	1 mg	10 mg/1 ml
1.5 ml	Morphine Sulfate PO	3 mg	10 mg/5 ml
1 ml	Narcan IN/IM/IV	1 mg	1 mg/1 ml
10 ml	Narcan IV titrated increments	1 mg	Diluted to 1 mg/10 ml
200 ml	Normal Saline Fluid Bolus		Standard
10 ml	Sodium Bicarb IV	10 mEq	1 meq/1 ml
0.2 ml	Versed IV	1 mg	5 mg/1 ml
0.4 ml	Versed IN/IM	2 mg	5 mg/1 ml

- To assure accuracy be sure the designated **concentration** of medication is used.
- * Volume rounded for ease of administration

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Approved:


 EMS Medical Director

Broselow color: WHITE

Kg range:15-18kg Approx Kg:15 kg

Approximate LBS: 30 lbs

ETT uncuffed size: 5

ETT cuffed size: 4.5

NG tube size: 10 Fr

	<u>1st</u>	<u>2nd</u>	<u>3rd</u>
Defib:	30 J	60 J	60 J

Cardiovert:	15 J	30 J	30 J
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(or clinically equivalent biphasic energy dose)

VOL	MEDICATION	DOSE	CONCENTRATION
0.5 ml	Adenosine IV fast 1st	1.5 mg	6 mg/2 ml
1 ml	Adenosine IV fast 2nd/3rd	3 mg	6 mg/2 ml
6 ml	Albuterol- Nebulized	5 mg	2.5 mg/3 ml
2.5 ml	Atrovent- Nebulized	0.5 mg	0.5 mg/2.5 ml
3 ml	Atropine (Bradycardia) IV/IO	0.3 mg	1 mg/10 ml
0.8 ml	Atropine (OPP) IV/IM	0.3 mg	0.4 mg/1 ml
0.3 ml	Benadryl IV/IM	15 mg	50 mg/1 ml
70 ml *	Charcoal PO	15 GM	50 GM/240 ml
30 ml	Dextrose 25% IV	7.5 GM	12.5 GM/50 ml
1.5 ml	Epinephrine IV/IO	0.15 mg	1:10,000 1mg/10ml
0.2 ml *	Epinephrine SC/IM	0.15 mg	1:1,000 1mg/1ml
5 ml	Epinephrine Nebulized	5 mg	1:1,000 1mg/1ml
0.8 ml *	Glucagon IM	0.75 mg	1 unit (mg)/1 ml
0.8 ml	Lidocaine 2% IV slow/IO	15 mg	100 mg/5 ml
0.2 ml *	Morphine Sulfate IV/IM	1.5 mg	10 mg/1 ml
2.3 ml *	Morphine Sulfate PO	4.5 mg	10 mg/5 ml
1.5 ml	Narcan IN/IM/IV	1.5 mg	1 mg/1 ml
15 ml	Narcan IV titrated increments	1.5 mg	Diluted to 1 mg/10 ml
300 ml	Normal Saline Fluid Bolus		Standard
15 ml	Sodium Bicarb IV	15 mEq	1 meq/1 ml
0.3 ml	Versed IV slow	1.5 mg	5 mg/1 ml
0.6 ml	Versed IN/IM	3 mg	5 mg/1 ml

- To assure accuracy be sure the designated **concentration** of medication is used.
- * Volume rounded for ease of administration

Document revised 7/1/2010
 Approved:


 EMS Medical Director

Broselow color: BLUE

Kg range:	19-23kg	Approx KG:	20 kg		
Approximate LBS:	40 lbs	Defib:		<u>1st</u>	<u>2nd</u>
ETT uncuffed size:	5.5			40 J	80 J
ETT cuffed size:	5.0	Cardiovert:		20 J	40 J
NG tube size:	12-14 Fr			80 J	

(or clinically equivalent biphasic energy dose)

VOL	MEDICATION	DOSE	CONCENTRATION
0.7 ml *	Adenosine IV fast 1st	2 mg	6 mg/2 ml
1.3 ml *	Adenosine IV fast 2nd/3rd	4 mg	6 mg/2 ml
6 ml	Albuterol- Nebulized	5 mg	2.5 mg/3 ml
2.5 ml	Atrovent- Nebulized	0.5 mg	0.5 mg/2.5 ml
4 ml	Atropine (Bradycardia) IV	0.4 mg	1 mg/10 ml
1 ml	Atropine (OPP) IV/IM	0.4 mg	0.4 mg/1 ml
0.4 ml	Benadryl IV/IM	20 mg	50 mg/1 ml
100 ml *	Charcoal PO	20 GM	50 GM/240 ml
40 ml	Dextrose 25% IV	10 GM	12.5 GM/50 ml
2 ml	Epinephrine IV/IO	0.2 mg	1:10,000 1mg/10ml
0.2 ml	Epinephrine SC/IM	0.2 mg	1:1,000 1mg/1ml
5 ml	Epinephrine Nebulized	5 mg	1:1,000 1mg/1ml
1 ml	Glucagon IM	1 mg	1 unit (mg)/1 ml
1 ml	Lidocaine 2% IV slow/IO	20 mg	100 mg/5 ml
0.2 ml	Morphine Sulfate IV/IM	2 mg	10 mg/1 ml
3 ml	Morphine Sulfate PO	6 mg	10 mg/5 ml
2 ml	Narcan IN/IM/IV	2 mg	1 mg/1 ml
20 ml	Narcan IV titrated increments	2 mg	Diluted to 1 mg/10 ml
400 ml	Normal Saline Fluid Bolus		Standard
20 ml	Sodium Bicarb IV	20 mEq	1 meq/1 ml
0.4 ml	Versed IV slow	2 mg	5 mg/1 ml
0.8 ml	Versed IN/IM	4 mg	5 mg/1 ml

- To assure accuracy be sure the designated **concentration** of medication is used.
- * Volume rounded for ease of administration

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 Approved:



 EMS Medical Director

Broselow color: ORANGE

Kg range: 24-29 kg Approx KG: 25 kg
Approximate LBS: 50 lbs
ETT uncuffed size: 6
ETT cuffed size: 5.5 (or clinically equivalent biphasic energy dose)
NG tube size: 14-18 Fr

Defib: 1st 50 J 2nd 100 J 3rd 100 J
Cardiovert: 25 J 50 J 50 J

VOL	MEDICATION	DOSE	CONCENTRATION
0.8 ml *	Adenosine IV fast 1st	2.5 mg	6 mg/2 ml
1.7 ml *	Adenosine IV fast 2nd/3rd	5 mg	6 mg/2 ml
6 ml	Albuterol- Nebulized	5 mg	2.5 mg/3 ml
2.5 ml	Atrovent- Nebulized	0.5 mg	0.5 mg/2.5 ml
5 ml	Atropine (Bradycardia) IV/IO	0.5 mg	1 mg/10 ml
1.3 ml *	Atropine (OPP) IV/IM	0.5 mg	0.4 mg/1 ml
0.5 ml	Benadryl IV/IM	25 mg	50 mg/1 ml
120 ml	Charcoal PO	25 GM	50 GM/240 ml
50 ml	Dextrose 25% IV	12.5 GM	12.5 GM/50 ml
2.5 ml	Epinephrine IV/IO	0.25 mg	1:10,000 1mg/10ml
0.25 ml	Epinephrine SC/IM	0.25 mg	1:1,000 1mg/1ml
5 ml	Epinephrine Nebulized	5 mg	1:1,000 1mg/1ml
1 ml	Glucagon IM	1 mg	1 unit (mg)/1 ml
1.3 ml *	Lidocaine 2% IV slow/IO	25 mg	100 mg/5 ml
0.3 ml *	Morphine Sulfate IV/IM	2.5 mg	10 mg/1 ml
3.8 ml *	Morphine Sulfate PO	7.5 mg	10 mg/5 ml
2 ml	Narcan IN/IM/IV	2 mg	1 mg/1 ml
20 ml	Narcan IV titrated increments	2 mg	Diluted to 1 mg/10 ml
500 ml	Normal Saline Fluid Bolus		Standard
25 ml	Sodium Bicarb IV	25 mEq	1 meq/1 ml
0.5 ml	Versed IV slow	2.5 mg	5 mg/1 ml
1 ml	Versed IN/IM	5 mg	5 mg/1 ml

- To assure accuracy be sure the designated **concentration** of medication is used.
- * Volume rounded for ease of administration

Document revised 7/1/2010
 Approved:



 EMS Medical Director

Broselow color: GREEN

Kg range: 30-36kg Approx Kg: 35 kg
Approximate LBS: 70 lbs
ETT uncuffed size: 6.5
ETT cuffed size: 6.0
NG tube size: 18Fr

Defib: 70 J 140 J 140 J
Cardiovert: 35 J 70 J 70 J
 (or clinically equivalent biphasic energy dose)

VOL	MEDICATION	DOSE	CONCENTRATION
1.2 ml *	Adenosine IV fast 1st	3.5 mg	6 mg/2 ml
2.3 ml *	Adenosine IV fast 2nd/3rd	7 mg	6 mg/2 ml
6 ml	Albuterol- Nebulized	5 mg	2.5 mg/3 ml
2.5 ml	Atrovent- Nebulized	0.5 mg	0.5 mg/2.5 ml
7 ml	Atropine (Bradycardia) IV/IO	0.7 mg	1 mg/10 ml
1.8 ml *	Atropine (OPP) IV/IM	0.7 mg	0.4 mg/1 ml
0.7 ml	Benadryl IV/IM	35 mg	50 mg/1 ml
170 ml *	Charcoal PO	35 GM	50 GM/240 ml
70 ml	Dextrose 25% IV	17.5 GM	12.5 GM/50 ml
3.5 ml	Epinephrine IV/IO	0.35 mg	1:10,000 1mg/10ml
0.3 ml	Epinephrine SC/IM	0.3 mg	1:1,000 1mg/1ml
5 ml	Epinephrine Nebulized	5 mg	1:1,000 1mg/1ml
1 ml	Glucagon IM	1 mg	1 unit (mg)/1 ml
1.8 ml *	Lidocaine 2% IV slow/IO	35 mg	100 mg/5 ml
0.4 ml	Morphine Sulfate IV/IM	3.5 mg	10 mg/1 ml
5 ml	Morphine Sulfate PO	10 mg	10 mg/5 ml
2 ml	Narcan IN/IM/IV	2 mg	1 mg/1 ml
20 ml	Narcan IV titrated increments	2 mg	Diluted to 1 mg/10 ml
500 ml	Normal Saline Fluid Bolus		Standard
35 ml	Sodium Bicarb IV	35 mEq	1 meq/1 ml
0.7 ml	Versed IV slow	3.5 mg	5 mg/1 ml
1.4 ml	Versed IM	7 mg	5 mg/1 ml
1 ml	Versed IN	5 mg	5 mg/1 ml

- To assure accuracy be sure the designated **concentration** of the medication is used.
- * Volume rounded for ease of administration

Document revised 7/1/2010
 Approved:



 EMS Medical Director

SUBJECT: TREATMENT PROTOCOL –
ABDOMINAL DISCOMFORT/GI/GU(NON-TRAUMATIC)

Date: 7/1/10

BLS

ALS

<ul style="list-style-type: none">• Ensure patent airway• O₂ and/or ventilate prn• NPO• Anticipate vomiting	<ul style="list-style-type: none">• Monitor EKG• O₂ Saturation prn• IV <u>SO</u> adjust prn• Treat pain as per Pain Management Protocol (S-141)• IV 500 ml fluid bolus for systolic BP < 90 <u>SO</u> <p><u>For nausea and/or vomiting:</u></p> <ul style="list-style-type: none">• Zofran 4mg IV/IM/PO/ODT <u>SO</u> Administer IV route slowly, >30 seconds
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Note: for suspected intra-abdominal catastrophe or suspected aortic aneurysm transport to facility with surgical resources immediately available.

Document revised 7/1/2010
Approved:


EMS Medical Director

SUBJECT: TREATMENT PROTOCOL --
AIRWAY OBSTRUCTION (Foreign Body)

Date: 7/1/09

BLS

ALS

For a conscious patient:

- Reassure, encourage coughing
- O₂ prn
- Abdominal thrusts. (Chest thrusts in obesity/pregnancy)

If patient becomes unconscious or is found unconscious

- Begin CPR
- Look in mouth with each rescue breath and remove object if it is seen.

Once obstruction is removed:

- High flow O₂, ventilate prn

If patient becomes unconscious or has a decreasing LOC:

- Direct laryngoscopy and Magill forceps SO. MR prn

Once obstruction is removed:

- Monitor EKG
- O₂ Saturation prn
- IV SO adjust prn

BLS

ALS

<ul style="list-style-type: none">• Ensure patent airway• O₂ and/or ventilate prn• Remove stinger/injection mechanism• May assist patient to self medicate own prescribed MDI or EpiPen <u>ONE TIME ONLY</u>. Base Hospital contact required prior to any repeat dose. <p>See Management of Latex Sensitive Patients (Equipment List) S-105</p>	<ul style="list-style-type: none">• Monitor EKG• O₂ Saturation prn• IV <u>SO</u> adjust prn• Benadryl 50mg slow IVP/IM <u>SO</u> <p><u>ANY respiratory distress with bronchospasm:</u></p> <ul style="list-style-type: none">• Albuterol 6ml 0.083% via nebulizer <u>SO</u>. MR <u>SO</u> <p><i>If no known cardiac history and < 65yo:</i></p> <ul style="list-style-type: none">• Epinephrine 1:1,000 0.3mg IM per <u>SO</u>. MR x2 q10" <u>SO</u> <p><i>If KNOWN cardiac history and/or ≥ 65yo:</i></p> <ul style="list-style-type: none">• Epinephrine 1:1,000 0.3mg IM per <u>SO</u> MR x2 q10" BHO <p><u>Anaphylaxis (shock or cyanosis):</u></p> <ul style="list-style-type: none">• Epinephrine 1:1,000 0.3 mg IM per <u>SO</u>. MR x2 q10" <u>SO</u>• IV/IO 500 ml fluid bolus for systolic BP < 90 <u>SO</u>. MR to maintain systolic BP ≥90 <u>SO</u>• Epinephrine 1:10,000 0.1mg IVP/IO BHO. MR x2 q3-5" BHO <ul style="list-style-type: none">• Dopamine 400mg/250ml @ 10-40 mcg/kg/min IV/IO drip. Titrate systolic BP ≥90 BHO
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Note: -For moderate to severe reactions, give Epinephrine first, then Benadryl.

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Approved:



EMS Medical Director

SUBJECT: TREATMENT PROTOCOL --
ALTERED NEUROLOGIC FUNCTION (NON TRAUMATIC)

Date: 7/1/10

BLS

ALS

<ul style="list-style-type: none">• Ensure patent airway, O₂ and/or ventilate prn• Spinal stabilization prn• Secretion problems, position on affected side• Do not allow patient to walk• Restrain prn <p><u>Hypoglycemia (suspected) or patient's glucometer results read <75mg/dl:</u></p> <ul style="list-style-type: none">• If patient is awake and has gag reflex, give 3 oral glucose tabs or paste (15g total). Patient may eat or drink if able.• If patient is unconscious, NPO <p><u>CVA/Stroke:</u></p> <ul style="list-style-type: none">• For suspected stroke with major deficit with onset of symptoms known to be <4 hours in duration, expedite transport.• Make initial notification early to confirm destination.• Use the Prehospital Stroke Scale in the assessment of possible CVA patients (facial droop, arm drift and speech abnormalities). <p><u>Seizures:</u></p> <ul style="list-style-type: none">• Protect airway, and protect from injury• Treat associated injuries <p><u>Behavioral Emergencies (S-422 and S-142)</u></p>	<ul style="list-style-type: none">• Monitor EKG• O₂ Saturation prn• IV <u>SO</u> adjust prn• Monitor blood glucose prn <u>SO</u> <p><u>Symptomatic ?opioids OD (excluding opioid dependent pain management patients) with respiratory rate <12:</u></p> <ul style="list-style-type: none">• Narcan 2mg IN/IM/IV <u>SO</u>. MR <u>SO</u>, titrate IV dose to effect• If patient refuses transport, give additional Narcan 2 mg IM <u>SO</u> <p><u>Symptomatic ?opioids OD in opioid dependent pain management patients with respiratory rate <12:</u></p> <ul style="list-style-type: none">• Narcan IV, titrate dose in 0.1mg increments, up to 2mg IVP OR• Narcan 1-2mg IN/IM, <u>SO</u>. MR BHO <p><u>Hypoglycemia:</u></p> <p><u>Symptomatic patient with altered LOC or unresponsive to oral glucose agents:</u></p> <ul style="list-style-type: none">• D₅₀ 25Gm IV/IO <u>SO</u> if BS <75mg/dL• If patient remains symptomatic and BS remains <75 mg/dL MR <u>SO</u>• If no IV: Glucagon 1ml IM <u>SO</u> if BS < 75 mg/dL <p><u>Suspected CVA/Stroke:</u></p> <ul style="list-style-type: none">• Only use supplemental O₂ for O₂ saturation <92% <p><u>Seizures:</u> For:</p> <ul style="list-style-type: none">A. Ongoing generalized seizure lasting ≥5" <u>SO</u>B. Focal seizure with respiratory compromise <u>SO</u>C. Recurrent seizures without lucid interval <u>SO</u>D. Eclamptic seizure of any duration <u>SO</u> <p>Give:</p> <ul style="list-style-type: none">• Versed 0.1mg/kg slow IV/IO <u>SO</u> to a max dose of 5mg (d/c if seizure stops) <u>SO</u>, MR x1 in 10" <u>SO</u> <p>If no IV/IO:</p> <ul style="list-style-type: none">• Versed 0.2mg/kg IM <u>SO</u> to a max dose 10mg, MR x1 in 10" <u>SO</u> OR• Versed 0.2mg/kg IN <u>SO</u> to max of 5mg. (d/c if seizure stops) <u>SO</u> MR x1 in 10" <u>SO</u>
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In symptomatic ?opioids OD (excluding opioid dependent pain management patients) administer Narcan IN prior to IV/IM.

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Approved:



EMS Medical Director

SUBJECT: TREATMENT PROTOCOL – BURNS

Date: 7/1/10

BLS

ALS

<ul style="list-style-type: none">• Move patient to a safe environment• Break contact with causative agent• Ensure patent airway, O₂ and/or ventilate prn• Treat other life threatening injuries <p><u>Thermal burns:</u></p> <ul style="list-style-type: none">• Burns of < 10% body surface area, stop burning with non-chilled water or saline• For burns ≥ 10% body surface area, cover with <u>dry</u> dressing and keep warm• Do not allow the patient to become hypothermic <p><u>Chemical burns:</u></p> <ul style="list-style-type: none">• Brush off dry chemicals• Flush with copious amounts of water <p><u>Tar burns:</u></p> <ul style="list-style-type: none">• Cool with water, transport; do not remove tar	<ul style="list-style-type: none">• Monitor EKG• O₂ Saturation prn• IV/IO <u>SO</u> adjust prn <ul style="list-style-type: none">• Treat pain as per Pain Management Protocol (S-141) <p>For patients with ≥20% 2nd or ≥5% 3rd degree burns and ≥15 yo:</p> <ul style="list-style-type: none">• IV/IO 500 ml fluid bolus then TKO <u>SO</u> <p>In the presence of respiratory distress with bronchospasm:</p> <ul style="list-style-type: none">• Albuterol 6ml 0.083% via nebulizer <u>SO</u>. MR <u>SO</u>
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Note: Base Hospital Contact and Transport (Per S-415) will be made to UCSD Base Hospital for patients meeting burn center criteria.

BURN CENTER CRITERIA

Patients with burns involving:

- ≥ 20% 2nd or ≥ 5% 3rd degree of BSA
- suspected respiratory involvement or significant smoke inhalation in a confined space
- significant injury of the face, hands, feet or perineum or circumferential
- significant electrical injury due to high voltage (greater than 110 volts)

Disposition:

- Consider Hyperbaric chamber for suspected CO poisoning in unconscious or pregnant patients.

Document 7/1/2010
Approved:



EMS Medical Director

SUBJECT: TREATMENT PROTOCOL --
DISCOMFORT/PAIN OF SUSPECTED CARDIAC ORIGIN

Date: 7/1/10

BLS

ALS

<ul style="list-style-type: none">• Ensure patent airway• O₂ and/or ventilate prn.• Do not allow patient to walk• If systolic BP \geq 100, may assist patient to self medicate own prescribed NTG SL (<u>maximum 3 doses, including those patient has taken.</u>)	<ul style="list-style-type: none">• Monitor EKG/ O₂ Saturation prn• IV <u>SO</u> adjust prn• Obtain 12 Lead EKG. If STEMI, notify base immediately and transport to appropriate STEMI center.*• ASA 162mg chewable PO <u>SO</u> <p>If systolic BP \geq 100:</p> <ul style="list-style-type: none">• NTG 0.4mg SL <u>SO</u>. MR q3-5" <u>SO</u>• NTG ointment 1" <u>SO</u>• If NTG x 3 ineffective or contraindicated:• MS 2-4 mg IVP <u>SO</u>. MR to max of 10mg <u>SO</u>. MR to max of 20 mg <u>BHO</u> <p>If systolic BP $<$ 100:</p> <ul style="list-style-type: none">• NTG 0.4mg SL <u>BHO</u>. MR <u>BHPO</u>• MS 2-4mg IVP <u>BHO</u>. MR to max of 20mg <u>BHO</u> <p><u>Discomfort/Pain of ? Cardiac Origin with Associated Shock:</u></p> <ul style="list-style-type: none">• IV 250 ml fluid bolus with clear lungs <u>SO</u>. MR to maintain systolic BP \geq90 <u>SO</u> <p>If BP refractory to fluid boluses:</p> <ul style="list-style-type: none">• Dopamine 400mg/250ml @ 10-40 mcg/kg/min IV/IO drip. Titrate systolic BP \geq 90 <u>BHO</u>
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Note:

- If discomfort/pain is relieved prior to arrival, continue treatment with NTG ointment and ASA. ASA should be given regardless of prior daily dose(s).
- If any patient has taken an erectile dysfunction medication such as Viagra, Cialis, Levitra within 48 hours, NTG is contraindicated.

*12-Lead EKG: Report STEMI: ***Acute MI*** or ***Acute MI Suspected***. Also report Left Bundle Branch Block (LBBB), paced rhythm, atrial fibrillation or atrial flutter for exclusion from STEMI determination.

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EMS Medical Director

SUBJECT: TREATMENT PROTOCOL -- DYSRHYTHMIAS

Date: 7/1/10

Treat dysrhythmias ONLY if they have potential to or are causing symptoms of decreased cardiac output.

BLS

ALS

O ₂ and/or ventilate prn	<ul style="list-style-type: none">• Monitor EKG/ O₂ Saturation prn• IV/IO 250 ml fluid bolus with clear lungs <u>SO</u>. MR to maintain systolic BP \geq 90 <u>SO</u> <p>A. <u>Unstable Bradycardia with Pulse (Systolic BP<90 AND chest pain, dyspnea or altered LOC):</u> NARROW COMPLEX BRADYCARDIA</p> <ul style="list-style-type: none">• Atropine 0.5mg IV/IO for pulse <60 bpm <u>SO</u>. MR q3-5" to max of 3mg <u>SO</u> <p>If rhythm refractory to Atropine 1 mg:</p> <ul style="list-style-type: none">• External cardiac pacemaker, if available, may use per <u>BHPO</u> <p>If capture occurs and systolic BP\geq100, consider medication for discomfort:</p> <ul style="list-style-type: none">• Morphine 2-10 mg slow IV/IO prn <u>BHPO</u> <p>For discomfort related to pacing not relieved with Morphine and BP\geq100:</p> <ul style="list-style-type: none">• Versed 1-5 mg slow IV/IO <u>BHPO</u>• Dopamine 400mg/250ml at 10-40mcg/kg/min IV/IO drip, titrate to systolic BP \geq 90 (after max Atropine or initiation of pacing) <u>BHO</u> <p>WIDE COMPLEX BRADYCARDIA</p> <ul style="list-style-type: none">• External cardiac pacemaker, if available, may use per <u>BHPO</u> <p>If capture occurs and systolic BP\geq100, consider medication for discomfort:</p> <ul style="list-style-type: none">• Morphine 2-10 mg slow IV/IO prn <u>BHPO</u> <p>For discomfort related to pacing not relieved with Morphine and BP\geq100:</p> <ul style="list-style-type: none">• Versed 1-5 mg slow IV/IO <u>BHPO</u>• Dopamine 400mg/250ml at 10-40mcg/kg/min IV/IO drip, titrate to systolic BP \geq 90 (after initiation of pacing) <u>BHO</u> <p>If external pacing unavailable,</p> <ul style="list-style-type: none">• May give Atropine 0.5mg IV/IO for pulse <60 bpm <u>SO</u>. MR q3-5" to max of 3mg <u>SO</u> <p>B. <u>Supraventricular Tachycardia (SVT):</u></p> <ul style="list-style-type: none">• Monitor EKG/ O₂ Saturation prn• IV/IO 250 ml fluid bolus with clear lungs <u>SO</u>. MR to maintain systolic BP \geq 90 <u>SO</u>• VSM <u>SO</u>. MR <u>SO</u> • Adenosine 6mg rapid IV/IO, followed with 20ml NS IV/IO <u>SO</u> (Patients with history of bronchospasm or COPD <u>BHO</u>)• Adenosine 12mg rapid IV/IO followed with 20ml NS IV/IO <u>SO</u> If no sinus pause, MR x1 in 1-2" <u>SO</u>
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**Or according to defibrillator manufacturer's recommendations

Document revised 7/1/2010

Approved:



EMS Medical Director

SUBJECT: TREATMENT PROTOCOL -- DYSRHYTHMIAS

Date: 7/1/10

Treat dysrhythmias ONLY if they have potential to or are causing symptoms of decreased cardiac output.

BLS

ALS

<p>O₂ and/or ventilate prn</p>	<p>If patient unstable with severe symptoms OR rhythm refractory to treatment:</p> <p>Conscious (<u>Systolic BP<90 and chest pain, dyspnea or altered LOC</u>):</p> <ul style="list-style-type: none">• Versed 1-5 mg slow IV/IO prn pre-cardioversion <u>BHO</u> If age ≥ 60 consider lower dose with attention to age and hydration status• Synchronized cardioversion at 100 J** <u>BHO</u>, MR at 200, 300, 360 J** <u>BHO</u> <p>Unconscious:</p> <ul style="list-style-type: none">• Synchronized cardioversion at 100 J** <u>SO</u> MR at 200, 300, 360 J** <u>SO</u>. MR <u>BHO</u> <p>C. <u>Unstable Atrial Fibrillation/ Atrial Flutter (Systolic BP<90 AND chest pain, dyspnea or altered LOC):</u></p> <ul style="list-style-type: none">• Monitor EKG/ O₂ Saturation prn• IV/IO 250 ml fluid bolus with clear lungs <u>SO</u>. MR to maintain systolic BP ≥ 90 <u>SO</u> <p>In presence of ventricular response with heart rate ≥180:</p> <p>Conscious:</p> <ul style="list-style-type: none">• Versed 1-5 mg slow IV/IO prn pre-cardioversion <u>BHPO</u> If age ≥ 60 consider lower dose with attention to age and hydration status• Synchronized cardioversion at 100 J** <u>BHPO</u> MR at 200, 300, 360 J** <u>BHPO</u> <p>Unconscious:</p> <ul style="list-style-type: none">• Synchronized cardioversion at 100 J** <u>SO</u>. MR at 200, 300, 360 J** <u>SO</u>. MR <u>BHO</u> <p>D. <u>Ventricular Tachycardia (VT):</u></p> <ul style="list-style-type: none">• Monitor EKG/ O₂ Saturation prn• IV/IO 250 ml fluid bolus with clear lungs <u>SO</u>. MR to maintain systolic BP ≥ 90 <u>SO</u>• Lidocaine 1.5 mg/kg slow IV/IO <u>SO</u>. MR at 0.5mg/kg slow IV/IO q 8-10" to a max of 3mg/kg (including initial bolus) <u>SO</u> <p>If patient unstable with severe symptoms:</p> <p>Conscious (<u>Systolic BP<90 and chest pain, dyspnea or altered LOC</u>):</p> <ul style="list-style-type: none">• Versed 1-5 mg slow IV/IO prn pre-cardioversion <u>SO</u> If age ≥ 60 consider lower dose with attention to age and hydration status• Synchronized cardioversion at 100 J** <u>SO</u>. MR at 200, 300, 360 J** <u>SO</u>. MR <u>BHO</u> <p>Unconscious:</p> <ul style="list-style-type: none">• Synchronized cardioversion at 100 J** <u>SO</u>. MR at 200, 300, 360 J** <u>SO</u>. MR <u>BHO</u>
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**Or according to defibrillator manufacturer's recommendations


EMS Medical Director

Treat dysrhythmias ONLY if they have potential to or are causing symptoms of decreased cardiac output.

BLS

ALS

CPR AED if available Assist ventilation	<p>E. VF/ Pulseless VT: Begin CPR.</p> <ul style="list-style-type: none"> • If arrest witnessed by medical personnel, perform CPR until ready to defibrillate. • If unwitnessed arrest, perform CPR x2 min. <ul style="list-style-type: none"> • Defibrillate x1 at max setting** <u>SO</u> <ul style="list-style-type: none"> • Resume CPR for 2 minutes immediately after shock • Perform no more than 10 second rhythm check, and pulse check if rhythm is organized • Defibrillate for persistent VF/pulseless VT prn <u>SO</u> <ul style="list-style-type: none"> • Continue CPR for persistent VF/pulseless VT. Repeat 2 minute cycle followed by rhythm/pulse check, followed by defibrillation/medication, if indicated <ul style="list-style-type: none"> • <u>IV/IO SO</u> Do not interrupt CPR to establish IV/IO Once IV/IO established, if no pulse after rhythm/pulse check: <ul style="list-style-type: none"> • Epinephrine 1:10,000 1mg IV/IO MR q3-5" <u>SO</u> • Intubate <u>SO</u> Avoid interruption of CPR • NG/OG prn <u>SO</u> • EtCO₂ monitoring, if available <u>SO</u> • If return of pulses: obtain 12-Lead <u>SO</u> <p>Pronouncement at scene <u>BHPO</u></p>
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Notes: - For patients with an ETCO₂ reading of less than 10mm/Hg or patients in nonperfusing rhythms after resuscitative effort, consider early Base Hospital contact for disposition/pronouncement at scene.
 -Flush IV/IO line with Normal Saline after medication administration. Medication should be administered as soon as possible after rhythm checks. The timing of drug delivery is less important than is the need to minimize interruptions in chest compressions.
 -CPR ratio 30:2 compressions to ventilations until patient has been intubated, then ratio becomes 10:1.
 -CPR should be performed during charging of defibrillator.
 **Or according to defibrillator manufacturer's recommendations


 EMS Medical Director

SUBJECT: TREATMENT PROTOCOL -- DYSRHYTHMIAS

Date: 7/1/10

Treat dysrhythmias ONLY if they have potential to or are causing symptoms of decreased cardiac output.

BLS

ALS

CPR Assist ventilation	F. Post conversion VT/VF with pulse ≥ 60 (including witnessed spontaneous conversion, AED or reported/witnessed $\geq x2$ AICD). If initial dose already given, continue with repeat doses as appropriate. <ul style="list-style-type: none">• Monitor EKG/ O₂ Saturation prn• IV/IO 250 ml fluid bolus with clear lungs <u>SO</u>. MR to maintain systolic BP ≥ 90 <u>SO</u>• Lidocaine 1.5mg/kg IV/IO <u>SO</u>. MR at 0.5mg/kg IV/IO q8-10", to a max of 3mg/kg (including initial bolus) <u>SO</u>
CPR AED if available Assist ventilation	G. Pulseless Electrical Activity (PEA): <ul style="list-style-type: none">• Perform CPR for 2"• Perform no more than 10 second rhythm check, and pulse check if rhythm is organized• CPR for 2" if rhythm unchanged• IV/IO <u>SO</u> Do not interrupt CPR to establish IV/IO Once IV/IO established, if no pulse after rhythm/pulse check:<ul style="list-style-type: none">• Epinephrine 1:10,000 1mg IV/IO MR q 3-5" <u>SO</u> <p>For PEA with HR<60/min:</p> <ul style="list-style-type: none">• Atropine 1mg IV/IO MR q 3-5" to max 3mg <u>SO</u> <p>Consider:</p> <ul style="list-style-type: none">• NaHCO₃ 1mEq/kg IVP/IO <u>SO</u>. MR 0.5 mEq/kg IVP/IO q10" <u>BHO</u>• Intubate <u>SO</u>• NG/OG prn <u>SO</u>• EtCO₂ monitoring, if available, may use <u>SO</u>• If return of pulses: obtain 12-Lead <u>SO</u> <p>Pronouncement at scene <u>BHPO</u></p>

Note: For patients with an ETCO₂ reading of less than 10mm/Hg or for patients in nonperfusing rhythms, consider early Base Hospital contact for disposition/pronouncement at scene
-Flush IV/IO line with Normal Saline after medication administration

Document revised 7/1/2010

Approved:


EMS Medical Director

SUBJECT: TREATMENT PROTOCOL -- DYSRHYTHMIAS

Date: 7/1/10

Treat dysrhythmias ONLY if they have potential to or are causing symptoms of decreased cardiac output.

BLS

ALS

<p>CPR AED if available Assist ventilation</p>	<p>G. <u>Asystole:</u></p> <ul style="list-style-type: none">• Perform CPR for 2" • Perform no longer than 10 second rhythm check, and pulse check if rhythm is organized• CPR for 2" if rhythm unchanged • IV/IO <u>SO</u> Do not interrupt CPR to establish IV/IO• Once IV/IO established, if no pulse after rhythm/pulse check:• Epinephrine 1:10,000 1mg IVP/IO MR q 3-5" <u>SO</u> • Intubate <u>SO</u>• NG/OG prn <u>SO</u>• EtCO₂ monitoring, if available, may use <u>SO</u> • If return of pulses: obtain 12-Lead <u>SO</u> <p>Pronouncement at scene <u>BHPO</u></p>
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Note: For patients with an EtCO₂ reading of less than 10mm/Hg or for patients in nonperfusing rhythms, consider early Base Hospital contact for disposition/pronouncement at scene
-Flush IV/IO line with Normal Saline after medication administration

Document revised 7/1/2010

Approved:



EMS Medical Director

SUBJECT: TREATMENT PROTOCOL -- ENVENOMATION INJURIES

Date: 7/1/09

BLS

ALS

- O₂ and/or ventilate prn.

Jellyfish sting:

- Rinse with alcohol; do not rub or apply pressure

Stingray or Sculpin injury:

- Heat as tolerated

Snakebites:

- Mark proximal extent of swelling
- Keep involved extremity at heart level and immobile
- Remove pre-existing constrictive device

- IV SO adjust prn

- Treat pain as per Pain Management Protocol (S-141)

Approved:



EMS Medical Director

SUBJECT: TREATMENT PROTOCOL – ENVIRONMENTAL EXPOSURE

Date: 7/1/09

BLS

- Ensure patent airway
- O₂ and/or ventilate prn
- Remove excess/wet clothing

Heat Exhaustion:

- Cool gradually
- Fanning, sponging with tepid water
- Avoid shivering
- If conscious, give small amounts of fluids

Heat Stroke:

- Rapid cooling
- Spray with cool water, fan. Avoid shivering
- Ice packs to carotid, inguinal and axillary regions

Cold Exposure:

- Gentle warming
- Blankets, warm packs -not to exceed 110 F
- Dry dressings
- Avoid unnecessary movement or rubbing
- If alert, give warm liquids
- If severe, NPO
- Prolonged CPR may be indicated

ALS

- Monitor EKG
- O₂ Saturation prn
- IV SO adjust prn

Severe Hypothermia with Cardiac Arrest:

- Hold medications
- Continue CPR
- If defibrillation needed, limit to 1 shock maximum

Approved:



EMS Medical Director

SUBJECT: TREATMENT PROTOCOL -- HEMODIALYSIS PATIENT

Date: 7/1/09

BLS

ALS

<ul style="list-style-type: none">• Ensure patent airway,• Give O₂• Ventilate if necessary	<ul style="list-style-type: none">• Monitor EKG• O₂ Saturation prn• Determine time of last dialysis <p><u>FOR DEFINITIVE THERAPY ONLY:</u></p> <ul style="list-style-type: none">• IV access in arm that does not have graft/AV fistula <u>SO</u>. Adjust prn <p><u>If Unable:</u></p> <ul style="list-style-type: none">• Access Percutaneous Vas Catheter <u>SO</u> if present (aspirate 5 mL PRIOR to infusion) <p>OR</p> <ul style="list-style-type: none">• Access graft/AV fistula <u>SO</u> <p><u>Fluid overload with rales:</u></p> <ul style="list-style-type: none">• Treat as per S-136 (CHF/Cardiac) <p><u>Symptomatic Patient with Suspected Hyperkalemia (widened QRS complex and peaked T-waves):</u></p> <ul style="list-style-type: none">• Obtain 12-Lead EKG <p>If >72 hours since last dialysis:</p> <ul style="list-style-type: none">• Continuous Albuterol 6ml 0.083% via Nebulizer <u>SO</u>• CaCl₂ 250mg IVP per <u>SO</u>• NaCO₃ 1mEq/kg IVP x1 per <u>SO</u>
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Note: Vas Cath contains concentrated dose of Heparin which must be aspirated PRIOR to infusion.

Approved:



EMS Medical Director

SUBJECT: TREATMENT PROTOCOL --
NEAR DROWNING/DIVING RELATED INCIDENTS

Date: 7/1/09

BLS

ALS

<ul style="list-style-type: none">• 100% O₂, and/or ventilate prn• Spinal stabilization when indicated	<ul style="list-style-type: none">• Monitor EKG• O₂ Saturation prn• IV <u>SO</u> adjust prn
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Reference Policy S-415 for Disposition of Diving Victims

Diving Victims: Any victim who has breathed sources of compressed air below the water's surface and presents with the following:

Minor presentation: minimal localized joint pain, mottling of the skin surface, localized swelling with pain; none of which are progressive.

Major presentation: symptoms listed above that are severe and/or rapidly progressing, vertigo, altered LOC, progressive paresthesia, paralysis, severe SOB, blurred vision, crepitus, hematemesis, hemoptysis, pneumothorax, trunk pain, or girdle or band-like burning discomfort.

Disposition of Diving Victims:

Major presentation:

All patients with a "major" presentation should be transported to UCSD-Hillcrest

Trauma issues are secondary in the presence of a "Major" presentation

If the airway is unmanageable, divert to the closest BEF

Minor presentation:

Major trauma candidate: catchment trauma center

Non-military patients: routine

Active Duty Military Personnel: transport to the Military Duty Recompression Chamber if possible. The Base Hospital will contact the Duty Recompression Chamber at (619) 556-7130 to determine chamber location. Paramedics/Base Hospital shall transfer care to Diving Medical Officer (or designee) upon arrival to chamber. Hyperbaric treatment may begin in accordance with military medical protocols.

Naval Hyperbaric Chamber Locations:

Naval Station 32nd Street and Harbor Drive

Note: If possible, obtain dive computer or records.

Hyperbaric Chambers must be capable of recompression to 165 ft.

Approved:



EMS Medical Director

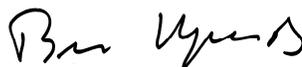
BLS

ALS

<p><u>MOTHER:</u></p> <ul style="list-style-type: none">• Ensure patent airway.• O₂, ventilate prn• If no time for transport and delivery is imminent (crowning and pushing), proceed with delivery.• If no delivery, transport on left side. <p><u>Routine Delivery:</u></p> <ul style="list-style-type: none">• Massage fundus if placenta delivered. (Do not wait on scene)• Place identification bands on mother and infant.• Document name of person cutting cord, time cut & address. <p><u>Post Partum Hemorrhage:</u></p> <ul style="list-style-type: none">• Massage fundus vigorously• Baby to breast• Trendelenburg position <p><u>Eclampsia (seizures):</u></p> <ul style="list-style-type: none">• Protect airway, and protect from injury• Spinal immobilization when indicated <p>STAT transport for third trimester bleeding to facility with OB services.</p>	<p><u>MOTHER:</u></p> <ul style="list-style-type: none">• Monitor EKG• O₂ Saturation prn• IV/IO <u>SO</u> adjust prn <p>Direct to Labor/Delivery area per BHO if \geq 20 weeks gestation.</p> <p><u>Eclampsia (seizures):</u></p> <ul style="list-style-type: none">• Versed 0.1mg/kg slow IV/IO to a max dose of 5mg (d/c if seizure stops) <u>SO</u>. MR x1 in 10" <u>SO</u> <p><u>If no IV/IO:</u></p> <ul style="list-style-type: none">• Versed 0.2mg/kg IM <u>SO</u> to a max dose 10mg, MR x1 in 10" <u>SO</u> <p>OR</p> <ul style="list-style-type: none">• Versed 0.2mg/kg IN <u>SO</u> to max of 5mg <u>SO</u>. MR x1 in 10" <u>SO</u>
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Document revised 7/1/2010

Approved:



EMS Medical Director

BLS

ALS

<ul style="list-style-type: none">• Ensure patent airway• O₂ and/or ventilate prn <p><u>Ingestions:</u></p> <ul style="list-style-type: none">• Identify substance <p><u>Skin:</u></p> <ul style="list-style-type: none">• Remove clothes• Brush off dry chemicals• Flush with copious water <p><u>Inhalation/Smoke/Gas/Toxic Substance:</u></p> <ul style="list-style-type: none">• Move patient to safe environment• 100% O₂ via mask• Consider transport to facility with Hyperbaric chamber for suspected carbon monoxide poisoning for unconscious or pregnant patient <p><u>Contamination with commercial grade (“low level”) radioactive material:</u> Patients with mild injuries may be decontaminated (removal of contaminated clothing, brushing off of material) prior to treatment and transport. Decontamination proceedings SHALL NOT delay treatment and transport of patients with significant or life-threatening injuries. Treatment of significant injuries is <i>always</i> the priority.</p>	<ul style="list-style-type: none">• Monitor EKG• O₂ Saturation prn• IV/IO <u>SO</u> adjust prn <p><u>Ingestions:</u></p> <ul style="list-style-type: none">• Charcoal 50 Gm PO <u>SO</u> (excluding isolated alcohol, heavy metal, caustic agents, hydrocarbons or iron ingestion). Assure patient has gag reflex and is cooperative <p><u>Symptomatic ?opioid OD (excluding opioid dependent pain management patients) with respiratory rate <12:</u></p> <ul style="list-style-type: none">• Narcan 2mg IN/IM/IV <u>SO</u>. MR <u>SO</u>, titrate IV dose to effect <p>If patient refuses transport, give additional</p> <ul style="list-style-type: none">• Narcan 2 mg IM <u>SO</u> <p><u>Symptomatic ?opioid OD in opioid dependent pain management patients with respiratory rate <12:</u></p> <ul style="list-style-type: none">• Narcan IV, titrate dose in 0.1mg increments, up to 2mg IVP OR 1-2mg IN/IM, <u>SO</u>. MR BHO <p><u>Symptomatic Organophosphate poisoning:</u></p> <ul style="list-style-type: none">• Atropine 2mg IV/IM <u>SO</u>. MR x2 q3-5” <u>SO</u>. MR q3-5” BHO <p><u>Extrapyramidal reactions:</u></p> <ul style="list-style-type: none">• Benadryl 50mg slow IV/IM <u>SO</u> <p><u>?Tricyclic OD with cardiac effects (e.g. hypotension, heart block, or widened QRS):</u></p> <ul style="list-style-type: none">• NaHCO₃ 1mEq/kg IV/IO BHO
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NOTE: For scene safety, consider HAZMAT activation as needed.

In symptomatic ?opioids OD (excluding opioid dependent pain management patients) administer Narcan IN prior to IV/IM.

Document revised 7/1/2010

Approved:



EMS Medical Director

BLS

ALS

<p><u>Hyperthermia from ? Stimulant Intoxication:</u></p> <ul style="list-style-type: none">• Initiate cooling measures	<p><u>Symptomatic ? Stimulant Intoxication:</u></p> <p>If sudden hypoventilation, oxygen desaturation or apnea:</p> <ul style="list-style-type: none">• High flow O₂ <u>SO</u>• Ventilate <u>SO</u>• IV 500 ml fluid bolus <u>SO</u>. MR <u>BHO</u> <p><u>For Severe Agitation:</u></p> <ul style="list-style-type: none">• Versed 0.2mg/kg IM <u>SO</u> to a max dose 10mg, MR x1 in 10" <u>SO</u> <p>OR</p> <ul style="list-style-type: none">• Versed 0.2mg/kg IN <u>SO</u> to max of 5mg. <u>SO</u>. MR x1 in 10" <u>SO</u> <p>OR</p> <ul style="list-style-type: none">• Versed 0.1 mg/kg IV, max 5 mg <u>SO</u> MR <u>BHO</u>
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Note: For severely agitated patient IN/IM Versed is preferred route to decrease risk of injury to patient and personnel.

Document revised 7/1/2010

Approved:



EMS Medical Director

SUBJECT: TREATMENT PROTOCOL --
PRE-EXISTING MEDICAL INTERVENTIONS

Date: 7/1/09

BLS

ALS

Proceed with transport when person responsible for operating the device (the individual or another person) is able to continue to provide this function during transport.

Previously established electrolyte and/or glucose containing peripheral IV lines:

- Maintain at preset rates
- Turn off when indicated

Previously applied dermal medication delivery systems:

- Remove dermal NTG when indicated (CPR, shock) SO

Previously established IV medication delivery systems and/or other preexisting treatment modalities with preset rates:

If the person responsible for operating the device is unable to continue to provide this function during transport, contact the BH for direction.

BH may ONLY direct BLS personnel to

1. Leave device as found OR turn the device off;
THEN,
2. Transport patient OR wait for ALS arrival.

Transports to another facility or to home:

- No wait period is necessary for routine oral/dermal medications or completed aerosol treatments.
- Check for prior IV, IM, SC, and non-routine PO medication delivery to assure minimum wait period of 30".
- If there is a central line, the tip of which lies in the central circulation, the catheter MUST be capped with a device which occludes the end.
- IV solutions with added medications OR other ALS treatment/monitoring modalities require ALS personnel (or RN/MD) in attendance during transport.

Previously established electrolyte and/or glucose containing IV solutions:

- Adjust rate or d/c BHO

Previously applied topical medication delivery systems:

- Remove dermal NTG when indicated SO
- Remove other dermal medications BHO

Pre-existing external vascular access (considered to be IV TKO):

- To be used for definitive therapy ONLY

Previously established and labeled IV medication delivery systems with preset rates and/or other preexisting treatment modalities:

- d/c BHO

If no medication label or identification of infusing substance:

- d/c SO

Note: Consider early base hospital contact.

Approved:


EMS Medical Director

BLS

ALS

<ul style="list-style-type: none">• Ensure patent airway• Reassurance• O₂ and/or ventilate prn• May assist patient to self medicate own prescribed MDI ONE TIME ONLY. Base Hospital contact required prior to any repeat dose. <p><u>Hyperventilation:</u></p> <ul style="list-style-type: none">• Coaching/reassurance• Remove patient from causative environment. Consider underlying medical problem. <p><u>Toxic Inhalation (CO exposure, smoke gas, etc.):</u></p> <ul style="list-style-type: none">• Consider transport to facility with hyperbaric chamber <p><u>Known asthmatics:</u></p> <ul style="list-style-type: none">• Consider oral hydration <p><u>Respiratory Distress with croup-like cough:</u></p> <ul style="list-style-type: none">• Aerosolized saline or water 5ml via oxygen powered nebulizer/mask. MR prn	<ul style="list-style-type: none">• Monitor EKG/ O₂ Saturation prn• EtCO₂ monitoring, if available, may use <u>SO</u>• IV/IO <u>SO</u>, adjust prn• Intubate <u>SO</u> prn• NG/OG prn per <u>SO</u> <p><u>Respiratory Distress ? CHF/cardiac origin):</u></p> <p>NTG SL:</p> <p>If systolic BP ≥ 100 but <150:</p> <ul style="list-style-type: none">• NTG 0.4mg SL <u>SO</u>. MR q3-5" <u>SO</u> <p>If systolic BP ≥ 150:</p> <ul style="list-style-type: none">• NTG 0.8mg SL <u>SO</u>. MR x3 q3-5" <u>SO</u> MR <u>BHO</u> <p>If systolic BP ≥ 100</p> <ul style="list-style-type: none">• NTG Ointment 1" <u>SO</u> <p>If systolic BP < 100:</p> <ul style="list-style-type: none">• NTG 0.4mg SL per <u>BHO</u> MR <u>BHPO</u> <p>CPAP: (if available) at 5-10cm H₂O <u>SO</u></p> <p><u>Respiratory Distress ? Asthma/COPD/Respiratory Origin:</u></p> <ul style="list-style-type: none">• Albuterol 6ml 0.083% via nebulizer <u>SO</u>. MR <u>SO</u>• Atrovent 2.5ml 0.02% via nebulizer <u>SO</u> added to first dose of Albuterol• CPAP (if available) at 5-10cm H₂O <u>SO</u> <p><u>If severe respiratory distress or inadequate response to Albuterol/Atrovent consider:</u></p> <p>If no known cardiac history and < 65yo:</p> <ul style="list-style-type: none">• Epinephrine 0.3mg 1:1000 IM <u>SO</u>. MR x2 q10" <u>SO</u> <p>If KNOWN cardiac history and/or ≥ 65yo:</p> <ul style="list-style-type: none">• Epinephrine 0.3mg 1:1000 IM <u>BHPO</u> MR x2 q10" <u>BHPO</u>
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Note: - If any patient has taken an erectile dysfunction medication such as Viagra, Cialis, and Levitra within 48 hours, NTG is contraindicated. May encounter patients taking similar medication for pulmonary hypertension, usually Sildenafil (trade name: Revatio). The contraindication still applies."

- Use caution with CPAP if ? COPD

Disposition:

- Consider Hyperbaric chamber for suspected CO poisoning in unconscious or pregnant patients.

Document revised 7/1/2010

Approved:



EMS Medical Director

BLS / ALS

- Ensure patent airway
- O₂ and/or ventilate prn
- Advise patient not to bathe or change clothes
- Consult with law enforcement on scene for evidence collection

If the patient requires a medical evaluation:

- Transport to the closest, most appropriate facility.
- Law enforcement will authorize and arrange an evidentiary exam after the patient is stabilized.

If only evidentiary exam is needed:

- Should release to law enforcement for transport to a SART facility.

Approved:


Ben Myers
EMS Medical Director

SUBJECT: TREATMENT PROTOCOL -- SHOCK

Date: 7/1/10

BLS

ALS

<p><u>Shock:</u></p> <ul style="list-style-type: none">• O₂ and/or ventilate prn• Control obvious external bleeding• Treat associated injuries• NPO, anticipate vomiting• Shock position• Remove transdermal Fentanyl and/or NTG patch	<ul style="list-style-type: none">• Monitor EKG• O₂ Saturation prn <p><u>Shock: Hypovolemic:</u></p> <ul style="list-style-type: none">• IV/IO 500 ml fluid bolus <u>SO</u>. MR to maintain systolic BP \geq 90 <u>SO</u> <p><u>Shock: (? Anaphylactic shock, Neurogenic shock, septic shock):</u></p> <ul style="list-style-type: none">• IV/IO 500 ml fluid bolus <u>SO</u>. MR to maintain systolic BP \geq 90 <u>SO</u> <p>If BP refractory to fluid boluses:</p> <ul style="list-style-type: none">• Dopamine 400mg/250ml @ 10-40 mcg/kg/min IV/IO drip. Titrate systolic BP \geq 90 BHO <p><u>Shock (? cardiac etiology):</u></p> <ul style="list-style-type: none">• IV/IO 250 ml fluid bolus with clear lungs <u>SO</u>. MR to maintain systolic BP \geq 90 <u>SO</u> <p>If BP refractory to fluid bolus:</p> <ul style="list-style-type: none">• Dopamine 400mg/250ml @ 10-40 mcg/kg/min IV/IO drip. Titrate systolic BP \geq 90 BHO
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Document revised 7/1/2010
Approved:



EMS Medical Director

SUBJECT: TREATMENT PROTOCOL -- TRAUMA

Date: 7/1/10

BLS

- Ensure patent airway, protecting C-spine
- Spinal stabilization prn. (Except in penetrating trauma without neurological deficits.)
- O₂ and/or ventilate prn
- Control obvious bleeding

Abdominal Trauma:

- Cover eviscerated bowel with saline pads

Chest Trauma:

- Cover open chest wound with three-sided occlusive dressing; release dressing if ?tension pneumothorax develops.

Extremity Trauma:

- Splint neurologically stable fractures as they lie. Use traction splint as indicated.
- Grossly angulated long bone fractures with neurovascular compromise may be reduced with gentle unidirectional traction for splinting per BHO
- Apply tourniquet in severely injured extremity when direct pressure or pressure dressing fails to control life-threatening hemorrhage. SO
In Mass Casualty SO

Impaled Objects:

- Immobilize & leave impaled objects in place. Remove BHPO
- **Exception:** may remove impaled object in face/cheek or from neck if there is total airway obstruction.

Neurological Trauma (head and spine injuries):

- Ensure adequate oxygenation without hyperventilating patient. Goal: 6-8 ventilations/minute

Pregnancy of ≥ 6mo:

- Where spinal immobilization precaution is indicated, tilt on spine board 30 degrees, left lateral decubitus.

Traumatic Arrest: Consider pronouncement at scene BHPO

ALS

- Monitor EKG/ O₂ Saturation prn
- IV/IO SO adjust prn
- If BP ≤90 IV/IO en route SO
- IV/IO 500 ml fluid bolus SO. MR to maintain systolic BP ≥ 90 SO
- EtCO₂ monitoring, if available, SO

- Treat pain as per Pain Management Protocol (S-141)

Crush injury with extended compression > 2 hours of extremity or torso:

Just prior to extremity being released:

- IV/IO 500 ml fluid bolus, then TKO SO
- CaCl₂ 250mg IV/IO over 30 seconds BHO
- NaHCO₃ 1mEq/kg IVP/IO BHO

Grossly angulated long bone fractures

- Reduce with gentle unidirectional traction for splinting SO

Severe Respiratory Distress with unilateral absent breath sounds and systolic BP < 90 in intubated or positive pressure ventilated patients:

- Needle thoracostomy BHO

Traumatic Arrest:

- Consider pronouncement at scene BHPO

TRANSPORT GUIDELINES:

Routine Disposition-Pediatric patients who meet criteria outlined in T-460 "Identification of the Pediatric Trauma Center Candidate" should be delivered to the Designated Pediatric Trauma Center, EXCEPT in the following situations:

1. Adult + Child:

- a. If there is a single ambulance (air/ground) with both a pediatric trauma center candidate AND an adult trauma center candidate, the ambulance should first deliver the more critical patient to the appropriate facility. If both patients are critical, or if there are other questions, both may be delivered to the designated adult trauma center.
- b. Field personnel should consider splitting the team using additional ALS transport vehicles, or aeromedical resources to transport the pediatric patient to pediatric trauma facility and the adult to the catchment area trauma facility.

2. Bypass/Diversion: If the designated pediatric trauma center is "on bypass", pediatric trauma candidates should be delivered to UCSD.

3. A <15 year old pregnant patient should be delivered to the UCSD.

Document revised 7/1/2010

Approved:



EMS Medical Director

SUBJECT: TREATMENT PROTOCOL -- TRIAGE, MULTIPLE PATIENT
INCIDENT/MASS CASUALTY INCIDENT/ANNEX D

Date: 7/1/09

BLS/ALS

- A. One person will assume responsibility for all scene medical communication
- B. Only one (1) BH will be contacted during the entire incident.
- C. Prehospital providers will utilize Simple Triage and Rapid Treatment (START) guidelines to determine priority of treatment and transport
- D. If staffing resources are limited, CPR need not be initiated for arrest victims, however, if CPR has been initiated prior to arrival of ALS personnel or briefly during assessment, discontinue only if one of the following occurs or is present*:
 - 1) subsequent recognition of obvious death SO
 - 2) BHPO
 - 3) presence of Advance Health Care Directive that specifies DNR status, DNR Form/Order or Medallion SO
 - 4) lack of response to brief efforts in the presence of any other potentially salvageable patient requiring intervention SO
- E. Radio communication for multi-patient incident (MPI) need only include the following on each patient:
 1. patient number assignment (i.e., #1, #2 . . .)
 2. age
 3. sex
 4. mechanism
 5. chief complaint
 6. abnormal findings
 7. treatment initiated
 8. ETA,
 9. destination
 10. transporting unit number
- F. Radio Communication for multi-casualty incident (MCI) or Annex D activation need only include the following on each patient:
 1. patient number if assigned (i.e., #1, #2 . . .)
 2. triage category (Immediate, Delayed, Minor)
 3. destination
 4. transporting unit number

* Reference Policy S-402 Prehospital Determination of Death

Approved:



EMS Medical Director

SUBJECT: TREATMENT PROTOCOL -- PAIN MANAGEMENT

Date: 7/1/09

BLS

ALS

- Assess level of pain using standardized pain scale provided below
- Ice, immobilize and splint when indicated
- Elevation of extremity trauma when indicated

Pain score assessment of < 5:

- Continue to monitor and reassess pain as appropriate

For treatment of pain score assessment of > 5 with BP > 100 systolic:

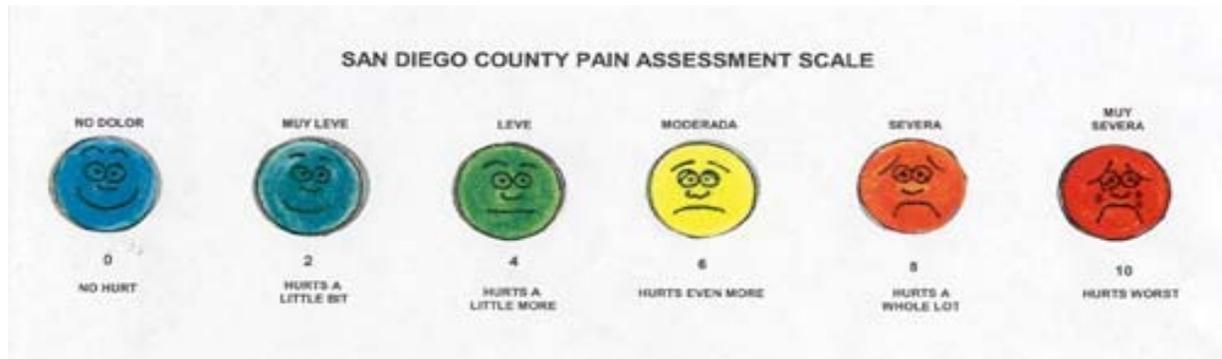
- MS 2-10mg in 2-4 mg increments IVP to max of 10mg SO
MR to max of 20mg BHO
- OR**
- MS 5mg IM SO. MR to max of 10mg BHO
- OR**
- MS 10mg PO SO. MR to max of 30mg BHO

BHPO for:

- Chronic pain states
- Isolated head injury
- Acute onset severe headache
- Drug/ETOH intoxication
- Multiple trauma with GCS <15
- Suspected active labor
- Abdominal pain

Note: These orders may be implemented after the paramedic assesses the level of pain and determines if patient agrees to treatment. ALL patients with a traumatic or pain-associated chief complaint will have a paramedic assessment of level of pain using a standardized pain scale. All patients will be offered treatment for pain, unless contraindicated, and level of pain relief will be assessed after each treatment is given and prior to the end of the run.

The parenteral dose relative strength of MS is three times the oral dose of MS.



Approved:


EMS Medical Director

SUBJECT: TREATMENT PROTOCOL – PSYCHIATRIC / BEHAVIORAL
EMERGENCIES

Date: 7/1/09

BLS

ALS

<ul style="list-style-type: none">• Ensure patent airway, O₂ and/or ventilate prn• Treat life threatening injuries• Attempt to determine if behavior is related to injury, illness or drug use.• Restrain only if necessary to prevent injury. Document distal neurovascular status q15'. Avoid unnecessary sirens.• Consider law enforcement support and/or evaluation of patient.• Law enforcement should remove Taser barbs, but EMS may remove barbs if they present a needle stick danger.	<p>Monitor EKG/ O₂ Saturation prn IV <u>SO</u> adjust prn</p> <p><u>For Severe Agitation:</u></p> <p>Versed 0.2mg/kg IM <u>SO</u> to a max dose 10mg, MR x1 in 10" <u>SO</u></p> <p>OR</p> <p>Versed 0.2mg/kg IN <u>SO</u> to max of 5mg <u>SO</u>. MR x1 in 10" <u>SO</u></p> <p>OR</p> <p>Versed 0.1 mg/kg IV, max 5 mg <u>SO</u> MR <u>BHO</u></p>
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Note: For severely agitated patient IN or IM Versed is preferred route to decrease risk of injury to patient and personnel.

Consideration for patients presenting with Taser barbs:

- Taser discharge for simple behavioral control is usually benign and does not require transport to BEF for evaluation.
- Patients, who are injured, appear to be under the influence of drugs, present with altered mental status, or symptoms of illness should have a medical evaluation performed by EMS personnel, and transported to a BEF.
- If barbs are impaled in an anatomically sensitive location such as the eye, face, neck, finger/hand or genitalia the patient should be transported to a BEF.

Approved:


EMS Medical Director

SUBJECT: TREATMENT PROTOCOL - NERVE AGENT EXPOSURE -
AUTOINJECTOR USE

Date: 10/1/08

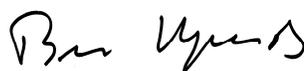
BLS

ALS

<p>Upon identification of a scene involving suspected or known exposure of nerve agent: Isolate Area Notify dispatch of possible Mass Casualty Incident with possible Nerve Agent involvement. DO NOT ENTER AREA</p> <p>If exposed: Blot off agent Strip off all clothing, avoiding contact with outer surfaces. Flush area (s) with copious amounts of water Cover affected area (s)</p> <p>If you begin to experience any signs/symptoms of nerve agent exposure, for example: Increased secretions (tears, saliva, runny nose, sweating) Diminished vision SOB Nausea, vomiting diarrhea Muscle twitching/weakness NOTIFY THE INCIDENT COMMANDER (or dispatch if no IC) immediately of your exposure and declare yourself a patient</p> <p>Self Treat Immediately per the following Acuity Guidelines:</p> <p>Mild: <i>Miosis, rhinorrhea, increasing dyspnea fasciculations, sweating</i> Atropine autoinjector 2-PAM CI autoinjector</p>	<p>Triage, decontaminate and treat patient based on severity of symptoms <u>SO</u></p> <p>Mild: <i>Miosis, rhinorrhea, increasing dyspnea, fasciculations, sweating</i> Atropine autoinjector (or 2 mg) IM 2-PAM CI autoinjector (or 600 mg) IM</p> <p>Moderate: <i>Miosis, rhinorrhea, dyspnea/whoezing, increased secretions, fasciculations, muscle weakness, GI effects</i> Atropine Autoinjector (or 2 mg) IM, MR x1 in 5-10" 2-PAM CI autoinjector (or 600 mg) IM, MR x1 in 5-10" *Diazepam autoinjector or Midazolam 5 mg IM if Diazepam autoinjector not available</p> <p>Severe: <i>Unconscious, seizures, flaccid, apnea</i> Initial dosing: Atropine autoinjector (or 2 mg) IM x3 doses in succession 2-PAM CI autoinjector (or 600 mg) IM x3 doses in succession *Diazepam autoinjector, or Midazolam 10mg IM if Diazepam autoinjector not available, for seizure activity O₂/Intubate. Ongoing treatment: Atropine autoinjector (or 2 mg) IM, MR q3-5" until secretions diminish 2-PAM CI autoinjector (or 600 mg) IM, MR x1 in 3-5" For continuous seizure activity MR Midazolam 10 mg IM x1 in 10"</p> <p>Pediatric doses:</p> <table><thead><tr><th><u>Weight</u></th><th><u>Atropine</u></th><th><u>2-PAM CI</u></th><th><u>Midazolam</u></th></tr></thead><tbody><tr><td><20kg</td><td>0.5mg</td><td>100mg</td><td>2.5mg</td></tr><tr><td>20-39kg</td><td>1mg</td><td>300mg</td><td>5.0mg</td></tr><tr><td>≥40kg</td><td>2mg</td><td>600mg</td><td>10mg</td></tr></tbody></table> <p>For doses less than the amount in the Autoinjector, use the medication vial and administer with a syringe.</p> <p>Consider: For frail, medically compromised, hypertensive or patients with renal failure administer half doses of Atropine and 2-PAM CI</p>	<u>Weight</u>	<u>Atropine</u>	<u>2-PAM CI</u>	<u>Midazolam</u>	<20kg	0.5mg	100mg	2.5mg	20-39kg	1mg	300mg	5.0mg	≥40kg	2mg	600mg	10mg
<u>Weight</u>	<u>Atropine</u>	<u>2-PAM CI</u>	<u>Midazolam</u>														
<20kg	0.5mg	100mg	2.5mg														
20-39kg	1mg	300mg	5.0mg														
≥40kg	2mg	600mg	10mg														

Note: *Diazepam autoinjectors available from Chempack caches only.
Diazepam, Atropine and 2-Pam CI autoinjectors are approved for self-treatment, treatment of public safety personnel, and the treatment of patients ONLY by prehospital personnel who have completed the County of San Diego approved training specific to the use of autoinjectors.

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<p>For a conscious patient: Reassure, encourage coughing O₂ prn 5 Abdominal thrusts only if complete airway obstruction. MR prn (Chest thrusts in obesity/pregnancy)</p> <p>If patient <u>becomes unconscious OR is found unconscious</u>:</p> <p>Begin CPR</p> <p><u>NOTE</u>: 5 Back Blows and Chest thrusts for infants <1 year. MR prn</p> <p><u>Once obstruction is removed</u>:</p> <p>High flow O₂, ventilate prn</p> <p><u>NOTE</u>: If suspected epiglottitis: Place patient in sitting position Do not visualize the oropharynx STAT transport</p>	<p><u>If patient becomes unconscious or has a decreasing LOC</u>:</p> <p>Direct laryngoscopy and Magill forceps <u>SO</u>. MR prn</p> <p><u>Once obstruction is removed</u>:</p> <p>Monitor EKG/O₂ Saturation prn</p> <p>IV <u>SO</u> adjust prn</p>
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Note: If unable to secure airway, transport STAT while continuing CPR (unconscious patient).

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SUBJECT: PEDIATRIC TREATMENT PROTOCOL --
ALTERED NEUROLOGIC FUNCTION (NON TRAUMATIC)

Date: 7/1/09

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- Ensure patent airway, O₂ and/or ventilate prn.
- Spinal stabilization when indicated.
- Secretion problems, position on affected side.
- Do not allow patient to walk.
- Restrain prn.

Hypoglycemia (suspected) or patient's glucometer results, if available, read <75mg/dL (Infant <60 mg/dL, neonate <45 mg/dL):

- If patient is awake and has gag reflex, give oral glucose paste or 1 tablet. Patient may eat or drink if able.
- If patient is unconscious, NPO

Seizures:

- Protect airway, and protect from injury
- Treat associated injuries
- Spinal stabilization prn
- If febrile, remove excess clothing/covering

Behavioral Emergencies:

- Restrain only if necessary to prevent injury.
- Avoid unnecessary sirens
- Consider law enforcement support

- IV SO adjust prn
- Monitor EKG/ O₂ Saturation /blood glucose prn

Symptomatic ?opioid OD (excluding opioid dependent pain management patients):

- Narcan per drug chart IN/IV/IM SO. MR SO

Symptomatic ?opioids OD in opioid dependent pain management patients:

- Narcan titrate per drug chart IV (dilute IV dose to 10mL with NS) or IN/IM per drug chart SO. MR BHO

Hypoglycemia:

Symptomatic patient unresponsive to oral glucose agents:

- D₂₅ per drug chart IVP SO if BS <75mg/dL (Infant <60 mg/dL, neonate <45 mg/dL)
- If patient remains symptomatic and BS remains <75 mg/dL (Infant <60 mg/dL, neonate <45 mg/dL) MR SO
- **If no IV:** Glucagon per drug chart IM SO if BS < 75 mg/dL (Infant <60 mg/dL, neonate <45 mg/dL)

Seizures:

For:

- A. Ongoing generalized seizure lasting ≥ 5 " SO
- B. Focal seizure with respiratory compromise SO
- C. Recurrent seizures without lucid interval SO

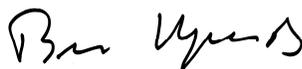
GIVE:

- Versed per drug chart slow IVP, (d/c if seizure stops) SO MR x1 in 10" SO

If no IV:

- Versed per drug chart IN/IM SO. MR x1 in 10" SO

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EMS Medical Director

SUBJECT: TREATMENT PROTOCOL
PEDIATRIC ALS-ALLERGIC REACTION

Date: 7/1/10

BLS

ALS

- Ensure patent airway
- O₂ and/or ventilate prn
- Remove sting/injection mechanism
- May assist patient to self medicate own prescribed MDI or EpiPen **ONE TIME ONLY**. Base Hospital contact required prior to any repeat dose.
- See Management of Latex Sensitive Patients (Equipment List) S-105.

- Monitor EKG/ O₂ Saturation prn
- IV SO adjust prn
- Benadryl per drug chart IV/IM SO

ANY respiratory distress with bronchospasm:

- Epinephrine 1:1,000 per drug chart IM SO. MR x2 q10" SO
- Albuterol per drug chart via nebulizer SO. MR SO

Anaphylaxis (shock or cyanosis):

- Epinephrine 1:1000 per drug chart IM SO. MR x2 q10" SO
- IV/IO fluid bolus per drug chart SO. MR to maintain systolic BP $\geq [70 + (2x \text{ age})]$ SO
- Epinephrine 1:10,000 per drug chart IVP/IO BHO. MR x2 q3-5"
BHO

Note: For moderate to severe reactions, give Epinephrine first, then Benadryl.

Document revised 7/1/2010
Approved:


EMS Medical Director

Treat dysrhythmias ONLY if they have potential to or are causing symptoms of decreased cardiac output.

BLS

ALS

<ul style="list-style-type: none">• Assess level of consciousness• Determine peripheral pulses• Ensure patent airway, O₂ and/or ventilate prn• If pt. \geq 1 year, pulseless and unconscious, use AED if available.• When heart rate indicates and patient is unstable ventilate per BVM for 30 seconds, reassess HR and begin compression if indicated: <u>Heart rate:</u> <9 yrs HR <60 bpm 9-14yrs HR <40bpm <p><u>Unstable Dysrhythmia:</u> <u>Includes heart rate as above and any of the following:</u></p> <p>A. Poor Perfusion (cyanosis, delayed capillary refill, mottling)</p> <p>OR</p> <p>B. Altered LOC, Dyspnea or BP <[70+ (2 x age)]</p> <p>OR</p> <p>C. Diminished or Absent Peripheral Pulses</p> <p>Note: ?dehydration may cause tachycardias up to 200/min.</p>	<ul style="list-style-type: none">• Monitor EKG• O₂ Saturation prn• IV/IO fluid bolus per drug chart with clear lungs <u>SO</u>. MR to maintain systolic BP \geq [70 + (2x age)] <u>SO</u> <p>A. <u>Unstable Bradycardia:</u> Heart rate: Infant/Child (<9 yrs) <60 bpm Child (9-14yrs) <40bpm</p> <ul style="list-style-type: none">• Ventilate per BVM for 30 seconds, then reassess HR prior to compressions and drug therapy.• Epinephrine 1:10,000 per drug chart IV/IO <u>SO</u>. MR x2 q3-5" <u>SO</u>. MR q3-5" <u>BHO</u> <p>After 3rd dose of Epinephrine:</p> <ul style="list-style-type: none">• Atropine per drug chart IV/IO <u>SO</u>. MR x1 in 5" <u>SO</u> <p>B. <u>Supraventricular Tachycardia</u> <4yrs \geq240bpm \geq4yrs \geq200bpm</p> <ul style="list-style-type: none">• VSM per <u>SO</u>. MR <u>SO</u>• Adenosine per drug chart rapid IVP <u>BHPO</u> follow with 20ml NS IVP• Adenosine per drug chart rapid IVP <u>BHPO</u> follow with 20ml NS IVP• If no sinus pause, MR x1 <u>BHPO</u>• Versed per drug chart slow IV prn precardioversion per <u>BHPO</u>• Synchronized cardioversion per drug chart** (monophasic/biphasic) <u>BHPO</u>. MR per drug chart <u>BHPO</u>
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Approved:



EMS Medical Director

Treat dysrhythmias ONLY if they have potential to or are causing symptoms of decreased cardiac output.

BLS

ALS

<ul style="list-style-type: none">• O₂ and/or ventilate prn• Start CPR as above• Use AED if pt. \geq 1 year, pulseless and unconscious, and AED is available	<p>C. <u>VF/pulseless VT:</u></p> <ul style="list-style-type: none">• Begin CPR. If arrest witnessed by medical personnel, perform CPR until ready to defibrillate. If unwitnessed arrest, perform CPR x2 min.• Defibrillate per drug chart** (monophasic/biphasic) x1 <u>SO</u>• Resume CPR for 2 minutes immediately after shock• Perform no more than 10 second rhythm check, and pulse check if rhythm is organized• Defibrillate per drug chart** for persistent VF/pulseless VT prn <u>SO</u>• Continue CPR for persistent VF/pulseless VT. Repeat 2 minute cycle followed by rhythm/pulse check, followed by defibrillation/medication, if indicated• IV/IO <u>SO</u> Do not interrupt CPR to establish IV/IO• Once IV/IO established, if no pulse after rhythm/pulse check:<ul style="list-style-type: none">• Epinephrine 1:10,000 per drug chart IVP/IO MR x2 q3-5" <u>SO</u>.• MR q3-5" <u>BHO</u>• BVM, if unable to adequately ventilate via BVM intubate <u>SO</u>• Avoid interruption of CPR• NG/OG prn <u>SO</u>• EtCO₂ monitoring <u>SO</u>
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Note: For patients with an EtCO₂ reading of less than 10mm/Hg or patients in nonperfusing rhythms after resuscitative effort, consider early Base Hospital contact for disposition/pronouncement at scene.

-Medication should be administered as soon as possible after rhythm checks. The timing of drug delivery is less important than is the need to minimize interruptions in chest compressions.

-Flush IV line with Normal Saline after medication administration

-CPR should be performed during charging of defibrillator.

**Or according to defibrillator manufacturer's recommendations

Document revised 7/1/2010

Approved:


EMS Medical Director

SUBJECT: PEDIATRIC TREATMENT PROTOCOL -- DYSRHYTHMIAS

Date: 7/1/10

Treat dysrhythmias ONLY if they have potential to or are causing symptoms of decreased cardiac output.

BLS

ALS

<ul style="list-style-type: none">• O₂ and/or ventilate prn • CPR as above	<p>D. <u>Post conversion VT/VF with pulse \geq 60 (including witnessed spontaneous conversion, AED, reported or witnessed \geq 2x AICD). If initial dose already given, continue with repeat doses as appropriate.</u></p> <ul style="list-style-type: none">• Lidocaine per drug chart IVP/IO <u>SO</u>. MR x2 q8-10" <u>SO</u> <p>E. <u>Pulseless Electrical Activity (PEA)/Asystole:</u></p> <ul style="list-style-type: none">• Perform CPR x2"• Perform no more than 10 second rhythm check, and pulse check if rhythm is organized• CPR for 2" • IV/IO <u>SO</u> Do not interrupt CPR to establish IV/IO• Once IV/IO established, if no pulse after rhythm/pulse check:• Epinephrine 1:10,000 per drug chart IV/IO. MR x2 in q3-5" <u>SO</u>. MR q3-5" <u>BHO</u> • BVM, if unable to adequately ventilate via BVM, intubate <u>SO</u>• NG/OG prn <u>SO</u>• EtCO₂ monitoring <u>SO</u> • Pronouncement at scene <u>BHPO</u>
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Note: For patients with an ETCO₂ reading of less than 10mm/Hg or patients in nonperfusing rhythms after resuscitative effort, consider early Base Hospital contact for disposition/pronouncement at scene.

- Medication should be administered as soon as possible after rhythm checks. The timing of drug delivery is less important than is the need to minimize interruptions in chest compressions.
- Flush IV line with Normal Saline after medication administration
- CPR should be performed during charging of defibrillator.

**Or according to defibrillator manufacturer's recommendations

Document revised 7/1/2010

Approved:


EMS Medical Director

SUBJECT: TREATMENT PROTOCOL --
ENVENOMATION INJURIES-PEDIATRICS

Date: 7/1/09

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- O₂ and/or ventilate prn

Jellyfish Sting:

- Rinse with alcohol; do not rub or apply pressure

Stingray or Sculpin Injury:

- Heat as tolerated

Snakebites:

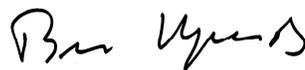
- Mark proximal extent of swelling
- Keep involved extremity at heart level and immobile

- Remove pre-existing constrictive device

- IV SO adjust prn

- Treat pain as per Pain Management Protocol (S-173)

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EMS Medical Director

SUBJECT: PEDIATRIC TREATMENT PROTOCOL -- POISONING/OVERDOSE Date: 7/1/10

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- Ensure patent airway
- O₂ and/or ventilate prn

Ingestions:

- Identify substance

Skin:

- Remove clothes
- Brush off dry chemicals
- Flush with copious water

Inhalation of

Smoke/Gas/Toxic Substance:

- Move patient to safe environment
- 100% O₂ via mask
- Consider transport to facility with Hyperbaric chamber for suspected carbon monoxide poisoning in the unconscious or pregnant patient.

- Monitor EKG
- O₂ Saturation prn
- IV SO adjust prn

Ingestions:

- Charcoal per drug chart PO SO, (excluding isolated alcohol, heavy metals, hydrocarbons, caustic agents or iron ingestion).
- Assure child has gag reflex and is cooperative.

Symptomatic ?opioid OD (excluding opioid dependent pain management patients):

- Narcan per drug chart IN/IV/IM SO. MR SO

Symptomatic ? opioid OD in opioid dependent pain management patients:

- Narcan titrate per drug chart IV or IN/IM SO. MR BHO

Symptomatic organophosphate poisoning:

- Atropine per drug chart IV/IM/IO SO. MR x2 q3-5" SO. MR q3-5" prn BHO

Extrapyramidal reactions:

- Benadryl per drug chart slow IV/IM SO

? Tricyclic OD with cardiac effects (hypotension, heart block, widened QRS):

- NaHCO₃ per drug chart IV x1 BHO

NOTE: For scene safety, consider HAZMAT activation as needed
In symptomatic ?opioids OD (excluding opioid dependent pain management patients)
administer Narcan IN prior to IV/IM.

Document revised 7/1/2010

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- Suction baby's airway, first mouth, then nose, when head is delivered and prn
- Ensure patent airway
- O₂ or ventilate via BVM 100% O₂ prn
- Clamp and cut cord between clamps following delivery
- Keep warm and dry (wrap in warm, dry blanket).
- Keep head warm.
- APGAR at 1" and 5"
- Document name of person cutting cord, time cut & address.
- Place identification bands on mother and infant.

Premature and/or Low Birth Weight Infants:

- If amniotic sac intact, remove infant from sac
- STAT transport
- When HR <100bpm, ventilate 100% O₂
- If HR <60 bpm after 30 seconds of ventilation, start CPR.
- CPR need NOT be initiated if there are no signs of life AND:
 - a) weight <500Gm OR,
 - b) gestational age is <24 weeks, OR,
 - c) eyelids are fused closed.

Meconium delivery:

- Additional suctioning if baby is not vigorous.
- If mechanical suction is used, keep pressure between 80 and 100cm H₂O, otherwise use bulb syringe.

Cord wrapped around neck:

- Slip the cord over the head and off the neck; clamp and cut the cord if wrapped too tightly.

Prolapsed cord:

- Place the mother in shock position with her hips elevated on pillows, or knee chest position.
- Insert a gloved hand into the vagina and gently push the presenting part off the cord.
- TRANSPORT STAT WHILE RETAINING THIS POSITION. DO NOT REMOVE HAND UNTIL RELIEVED BY HOSPITAL PERSONNEL.

Breech Birth:

- Allow infant to deliver to the waist without active assistance (support only);
- When legs and buttocks are delivered, the head can be assisted out. If head does not deliver within 1-2 min.
- Insert a gloved hand into the vagina and create an airway for the infant.
- Transport STAT if head undelivered.

- Monitor
- O₂ Saturation prn
- Ventilate via BVM 100% O₂ if HR <100 bpm

If HR remains <60 bpm after 30 seconds of ventilation:

- CPR and BVM, if unable to adequately ventilate via BVM intubate SO
- NG prn SO

If HR remains <60 bpm after 30 seconds of CPR:

- Epinephrine 1:10,000 per drug chart IV/IO SO. MR x2 q3-5" SO. MR q3-5" BHO

Disposition: Direct to Labor/Delivery area per BHO.

Document revised 7/1/2010

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EMS Medical Director

SUBJECT: PEDIATRIC TREATMENT PROTOCOL -- RESPIRATORY DISTRESS Date: 7/1/09

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ALS

<ul style="list-style-type: none">• Ensure patent airway• Dislodge any airway obstruction• Transport in position of comfort• Reassurance <ul style="list-style-type: none">• O₂ and/or ventilate prn <p><u>Hyperventilation:</u></p> <ul style="list-style-type: none">• Coaching/reassurance.• Remove patient from causative environment.• Consider ?organic problem. <p><u>Toxic Inhalants (CO exposure, Smoke, Gas, etc.):</u></p> <ul style="list-style-type: none">• Move patient to safe environment• 100% O₂ via mask• Consider transport to facility with hyperbaric chamber <p><u>Respiratory Distress with croup-like cough:</u></p> <ul style="list-style-type: none">• Aerosolized saline or water 5ml via oxygen powered nebulizer/mask. MR prn	<ul style="list-style-type: none">• Monitor EKG• O₂ Saturation• IV <u>SO</u> adjust prn• BVM prn, if unable to adequately ventilate via BVM intubate <u>SO</u>• EtCO₂ monitoring <u>SO</u> <p><u>Respiratory Distress with Bronchospasm:</u></p> <ul style="list-style-type: none">• Albuterol per drug chart via nebulizer <u>SO</u>. MR <u>SO</u>• Atrovent per drug chart via nebulizer <u>SO</u> added to first dose of Albuterol <p><u>If severe respiratory distress with bronchospasm or inadequate response to Albuterol/Atrovent consider:</u></p> <ul style="list-style-type: none">• Epinephrine 1:1,000 per drug chart IM <u>SO</u>. MR x2 q10" <u>SO</u> <p><u>Respiratory Distress with Stridor:</u></p> <ul style="list-style-type: none">• Epinephrine 1:1,000 per drug chart via nebulizer <u>SO</u> MR x1 <u>SO</u>
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Note: If history suggests epiglottitis, do NOT visualize airway; utilize calming measures.

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SUBJECT: PEDIATRIC TREATMENT PROTOCOL -- SHOCK

Date: 7/1/09

BLS

ALS

<ul style="list-style-type: none">• Ensure patent airway, O₂ and assist ventilation• Control hemorrhage• Determine peripheral pulses and capillary refill• Assess level of consciousness	<ul style="list-style-type: none">• Monitor EKG• O₂ Saturation• IV/IO <u>SO</u> <p><u>Non cardiogenic Shock:</u></p> <ul style="list-style-type: none">• IV/IO fluid bolus per drug chart <u>SO</u>. MR <u>SO</u> if lungs are clear <p><u>Cardiogenic Shock:</u></p> <ul style="list-style-type: none">• IV/IO fluid bolus per drug chart <u>SO</u>. MR <u>BHPO</u> to maintain systolic BP \geq [70 + (2x age)] if lungs clear
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Approved:



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- Ensure patent airway, protecting C-spine
- Spinal stabilization prn
- O₂ and/or ventilate prn
- Control obvious bleeding

Abdominal Trauma:

- Cover eviscerated bowel with saline pads

Chest Trauma:

- Cover open chest wound with three-sided occlusive dressing; release dressing if ?tension pneumothorax develops.

Extremity Trauma:

- Splint neurologically stable fractures as they lie.
- Use traction splint as indicated.

Grossly angulated long bone fractures with neurovascular compromise

- May be reduced with gentle unidirectional traction for splinting BHO.
- Apply tourniquet in severely injured extremity when direct pressure or pressure dressing fails to control life-threatening hemorrhage. SO
- In Mass Casualty SO

Impaled Objects:

- Immobilize & leave impaled objects in place. Remove BHPO

Exception: may remove impaled object in face/cheek, or from neck if there is total airway obstruction.

Neurological Trauma (Head & Spine Injuries):

- Assure adequate airway and ventilate without hyperventilation.

Traumatic Arrest:

- CPR
- Consider pronouncement at scene BHPO

ALS

- Monitor EKG/ O₂ Saturation prn
- IV/IO SO adjust prn
- IV fluid bolus per drug chart for hypovolemic shock SO. MR to maintain systolic BP $\geq [70 + (2x \text{ age})]$ SO
- EtCO₂ monitoring SO
- Treat pain as per Pain Management Protocol S-173.

Crush injury with extended compression > 2 hours of extremity or torso:

Just prior to extremity being released:

- IV fluid bolus per drug chart BHO
- NaHCO₃ drug chart IV BHO

Extremity Trauma:

- Grossly angulated long bone fractures may be reduced with gentle unidirectional traction for splinting per SO

Severe Respiratory Distress (with unilateral absent breath sounds AND BP < [70 + (2 x age)] in intubated or positive pressure ventilated patients):

- Needle thoracostomy BHO

Traumatic Arrest:

- Consider pronouncement at scene BHPO

TRANSPORT GUIDELINES:

Routine Disposition-Pediatric patients who meet criteria outlined in T-460 "Identification of the Pediatric Trauma Center Candidate" should be delivered to the Designated Pediatric Trauma Center, EXCEPT in the following situations:

1. Adult + Child:

- a. If there is a single ambulance (air/ground) with both a pediatric trauma center candidate AND an adult trauma center candidate, the ambulance should first deliver the more critical patient to the appropriate facility. If both patients are critical, or if there are other questions, both may be delivered to the designated adult trauma center.
- b. Field personnel should consider splitting the team using additional ALS transport vehicles, or aeromedical resources to transport the pediatric patient to pediatric trauma facility and the adult to the catchment area trauma facility.

2. Bypass/Diversion: If the designated pediatric trauma center is "on bypass", pediatric trauma candidates should be delivered to UCSD.

3. A <15 year old pregnant patient should be delivered to UCSD.

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<ul style="list-style-type: none">• Move to a safe environment• Break contact with causative agent• Ensure patent airway• O₂ and/or ventilate prn• Treat other life threatening injuries <p><u>Thermal Burns:</u></p> <p><u>Burns of <10% BSA</u></p> <ul style="list-style-type: none">• Stop burning with non-chilled saline or water <p><u>For burns of >10% BSA</u></p> <ul style="list-style-type: none">• Cover with <u>dry</u> dressing• Keep warm• Do not allow patient to become hypothermic <p><u>Chemical Burns:</u></p> <ul style="list-style-type: none">• Brush off dry chemicals• Flush with copious water <p><u>Tar Burns:</u></p> <ul style="list-style-type: none">• Cool with water• Transport• Do not remove tar.	<ul style="list-style-type: none">• Monitor EKG/ O₂ Saturation for significant electrical injury and prn• IV/IO <u>SO</u> adjust prn <p><u>For patients with ≥10% 2nd degree or ≥5% 3^d degree burns:</u></p> <p><u>5-14 yo:</u></p> <ul style="list-style-type: none">• IV/IO 250 ml fluid bolus then TKO <u>SO</u> <p><u><5 yo:</u></p> <ul style="list-style-type: none">• IV/IO 150 ml fluid bolus then TKO <u>SO</u>• Treat pain as per Pain Management Protocol S-173 <p><u>In the presence of respiratory distress with bronchospasm:</u></p> <ul style="list-style-type: none">• Albuterol per drug chart via nebulizer <u>SO</u>. MR <u>SO</u>
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Base Hospital Contact and Transport (Per S-415):

Will be made to UCSD Base Hospital for patients meeting burn center criteria:

BURN CENTER CRITERIA

Patients with burns involving:

- ≥ 10% BSA 2nd degree or ≥ 5% BSA 3rd degree
- suspected respiratory involvement or significant smoke inhalation in a confined space
- significant injury of the face, hands, feet, perineum or circumferential
- significant electrical injury due to high voltage (greater than 110 volts)

Disposition:

Consider hyperbaric chamber for suspected CO poisoning in unconscious or pregnant patient.

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Approved:


EMS Medical Director

SUBJECT: PEDIATRIC TREATMENT PROTOCOL –
ALTE (Apparent Life Threatening Event)

Date: 7/1/09

BLS

ALS

<ul style="list-style-type: none">• Ensure patent airway• O₂ and/or ventilate prn.	<ul style="list-style-type: none">• Monitor EKG/ O₂ Saturation prn• Obtain blood glucose prn• IV <u>SO</u> prn
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Note: If the parent/caretaker refuses medical care and/or transport, contact the base hospital prior to completing a refusal of care form.

Definition:

An Apparent Life-Threatening Event is defined as an episode involving an infant less than 12 months of age that is frightening to the observer and is characterized by some combination of:

- Apnea (central or obstructive)
- Color change (cyanosis, pallor, erythema)
- Marked change in muscle tone
- Unexplained choking or gagging

Transport:

Transport to nearest appropriate facility:

- ALS transport, if child is symptomatic
- BLS transport, if child is asymptomatic
- Private transport acceptable for asymptomatic patient **IF**:
 - a. Transportation is available now
 - b. The parents/caretaker are reliable
 - c. The parents/caretaker understand the importance of evaluation

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EMS Medical Director

BLS

ALS

<ul style="list-style-type: none">• Assess level of pain• Immobilize/splint when indicated• Ice/elevation when indicated	<p>Pain score assessment of < 5:</p> <ul style="list-style-type: none">• Continue to monitor and reassess pain as appropriate. <p>For treatment of pain score assessment of ≥ 5 with systolic BP $\geq [70 + (2x \text{ age in years})]$:</p> <ul style="list-style-type: none">• MS IV per drug chart <u>SO</u> MR per drug chart <u>BHO</u> <p>OR</p> <ul style="list-style-type: none">• MS IM per drug chart <u>SO</u>. MR per drug chart <u>BHO</u> <p>OR</p> <ul style="list-style-type: none">• MS PO per drug chart <u>SO</u>. MR per drug chart <u>BHO</u> <p><u>BHPO</u> for:</p> <ul style="list-style-type: none">• Chronic pain states• Isolated head injury• Acute onset severe headache• Drug/ETOH intoxication• Multiple trauma with GCS <15• Suspected active labor• Abdominal pain
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Note:

ALL patients with a traumatic or pain-associated chief complaint will have a paramedic assessment of level of pain using a standardized pain scale. All patients will be offered treatment for pain, unless contraindicated, and level of pain relief will be assessed after each treatment is given and prior to the end of the run.

The parenteral dose relative strength of MS is three times the oral dose of MS.



Document revised 7/1/2010

Approved:


EMS Medical Director

INTRODUCTION

These Protocols define the basic and advanced life support treatment and disposition standards for Prehospital Air Medical Care in San Diego County.

1. Each Advanced Life Support Air Medical Flight Crew will consist of at a minimum, one Registered Nurse and one Physician, Registered Nurse or Paramedic. Each Basic Life Support Flight Crew will consist of at a minimum one EMT.
2. Treatments are listed in sequential order for each condition. Adherence is recommended. All skills follow the criteria in the skills list.
3. All treatments may be performed by the Flight Nurse on standing order unless noted. Any treatment required which is not included in the protocols is at the discretion of the Flight Physician on scene or Base Hospital Physician at the assigned Base Hospital in direct radio communication providing medical direction. Orders not included in the protocols must be within the knowledge, skill, education level and scope of practice of the Flight Nurse.
4. Interfacility transport orders will be given by the physician providing medical control for the patient.
5. The Flight Paramedic will function within the scope of practice and protocols set forth by San Diego County Paramedic Protocols and Skills list and under control of the assigned Base Hospital. All treatments within the San Diego County Paramedic Protocols and Skills may be performed by the Flight Paramedic on standing order unless otherwise noted.
6. The Flight EMT will function within the scope of practice and protocols set forth by County of San Diego BLS Protocols and under the control of the assigned Base Hospital.

Document revised 7/1/2010

Approved:



EMS Medical Director

SKILLS LIST

SKILL	INDICATION	CONTRAINDICATION	COMMENTS
Broselow Tape	Calculation of pediatric drug dosages.	None	Base dosage calculation on length and weight of patient. Dose may vary per protocol.
Cardioversion: synchronized	Unstable SVT	If defibrillator unable to deliver <4j//kg	Synchronized cardioversion at 50J 100J, 200J (biphasic) as needed. Remove NTG patch prior to cardioversion.
	Unstable VT		
	Unconscious VT with BP<80 mmHg		
	Uncontrolled Atrial Fibrillation		Hypotension and decreasing LOC.
Carotid Sinus Massage (CSM)	Stable SVT	>40 years old	Avoid carotid with weakened pulse. D/C after 5-10 sec if no conversion.
Chest Tube Insertion	Patients with potential or suspected tension pneumothorax	Contraindicated prior to placement of 2 needle thoracostomies.	Insert chest tube at 4th/5th ICS anterior axillary/mid axillary line. Attach Heimlich valve for transport with drainage system prn.
Communication: Radio	Base Hospital contact	None	Modes of communication include: mobile radios, EMS radio. Must contact assigned BH MD for orders not within protocols for prehospital patients.
Defibrillation	VT (pulseless) VF	None	Defibrillation energy settings as recommended by the defibrillator manufacturer.
EKG monitoring	Any situation with potential for cardiac dysrhythmia.	None	Apply monitor before moving patient with chest pain, syncope, or in arrest when possible and document strip on record.
12 lead EKG	Signs and symptoms of pain/discomfort of ?cardiac origin .	None	Consider thrombolytic checklist. Document strip on record. A 12-lead positive for STEMI should immediately be communicated to the Base Hospital.

Approved:


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SUBJECT: **ADVANCED AIR MEDICAL TREATMENT PROTOCOL --
 SKILLS LIST**

Date: 7/01/2007

SKILL	INDICATION	CONTRAINDICATIONS	COMMENTS
End Tidal CO2 Detection Device/ Capnography	ET Intubation	None	Monitor after ET insertion and after each time pt is moved. Less accurate in pulseless rhythms and cold/wet patients.
Esophageal Detection Device-aspiration based (Toomey syringe or bulb device)	After intubation and for reconfirmation of placement.	None	Repeat as needed to reconfirm placement. May use for both ET tube and Combitube.
External Pacing	Symptomatic bradycardia, heart block.	None	Document rate, MA and capture.
Glucose Monitoring	Evaluate blood glucose level in diabetics, OD, seizure, altered LOC, ?CVA, behavioral patients.	None	Follow monitor instructions exactly.
Injection: IM	When IM route indicated.	None	Usual site deltoid Vastus lateralis preferred in infants.
Intubation- ET/Nasal/Stomal	Apnea, ineffective respirations, or airway control as indicated. Consider RSI as indicated. Replace Combitube with ET only if: ventilations inadequate or need to give ET medications.	Prior to Narcan in symptomatic ?OD	Must not interrupt ventilations for more than 30 sec. Use Broselow Tape recommendations for uncuffed tube on peds and immobilize spine. Newborn ventilate if HR<100, if HR still low after 1" of ventilation, intubate. Auscultate both lung fields. Document SDBREATHE Reconfirm placement of tube after each patient movement Capnography required on every intubation.
Combitube	Unable to intubate w/ ET	Gag reflex present. Patients < 4.5" tall. Narcotic OD prior to Narcan. Ingestion of caustic substance. Hx of esophageal disease.	Head in neutral position. Use SA size tube in patients 4.5 - 6'5" tall. Reconfirm tube placement with each patient movement.
Magill forceps	Airway obstruction from foreign body with decreasing LOC or unconsciousness.	None	Once object removed, give high flow O ₂ If unsuccessful consider cricothyrotomy

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SUBJECT: **ADVANCED AIR MEDICAL TREATMENT PROTOCOL --
 SKILLS LIST**

Date: 7/01/2007

SKILL	INDICATION	CONTRAINDICATIONS	COMMENTS
Needle Thoracostomy	Signs and symptoms of tension pneumothorax - may include severe respiratory distress, cyanosis, absent breath sounds, hypotension	None	Use 12, 14g, 16 or 18g IV catheter 2-5" long into 4 th or 5 th ICS in anterior axillary line, on involved side. If lateral chest wall is inaccessible, use 2 nd /3 rd ICS midclavicular line on involved side. Tape catheter hub securely to chest wall & attach to one-way Heimlich valve.
NG/OG tube	Uncuffed intubations, near drowning, newborn or any CPR when gastric distention interferes w/respirations.	Severe facial trauma. Known esophageal disease	Caution w/unconscious pt w/o gag reflex.
O ₂ Powered Nebulizer	Administration of Albuterol/Atrovent for bronchospasm or croup-like cough.	None	Flow rate 6 l/min. Do not use w/ humidifier.
Pericardiocentesis	Signs and symptoms of cardiac tamponade	None	Insert to L of costal margin and xiphoid. Insert catheter with 20cc syringe attached bevel up 1cm left of xiphoid tip. Direct catheter toward toward L scapula. Maintain negative pressure on syringe. When fluid encountered, aspiration of minimal fluid may result in improvement. Remove stylet and attach stopcock and stabilize. Re-aspirate as needed.
Prehospital Pain Scale	All patients with a traumatic or pain-related chief complaint	None	Assess for presence and intensity
Prehospital Stroke Scale	All adult patients with suspected Stroke/CVA	None	Assess facial droop, arm drift and speech
Pulse Oximetry	Monitor patients to assess oxygenation.	None	Unreliable in CO poisoning, poor perfusion states or anemia.

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SUBJECT: **ADVANCED AIR MEDICAL TREATMENT PROTOCOL --
 SKILLS LIST**

Date: 7/01/2007

SKILL	INDICATION	CONTRAINDICATIONS	COMMENTS
Rapid Sequence Intubation	Compromised airway.	None	Preoxygenate prior to attempt. Consider premedication for CHI with Lidocaine. Administer Etomidate for sedation Administer Atropine to infants and children May hold for relative tachycardia. Administer Succinylcholine as paralytic agent. Attempt oral intubation. If unsuccessful attempt combitube or cricothyrotomy Verify placement of tube. Administer Versed for sedation-may hold for hypotension. Consider MS or Fentanyl for pain Strongly consider long acting paralytic post intubation.
Restraints	Threat of harm to self/others	None	Document circulation distally every 15min. Consider chemical restraint. If patient uncontrollable or a risk to flight crew consider ground transport. See Policy S-422
Spinal Stabilization	Spinal pain of ?trauma, MOI suggests ?spinal injury Intubated infants and children	None	Equipment that limits spinal movement. Pregnant patients (>6mo) tilt 30 degrees left lateral decubitus. Modified as necessary.
Splinting	Grossly angulated fractures, for transport	Open femur fracture	Use unidirectional traction. Check for distal pulses prior to and q15".
Suction: Oral- endotracheal	When secretions impair ventilation	None	Monitor for dysrhythmias No longer than 30 seconds
	Prior to spontaneous breathing of newborn	Spontaneous breathing	Suction mouth first, then nose, w/bulb syringe as head being delivered. Clamp cord only after suctioning.

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 EMS Medical Director

SUBJECT: **ADVANCED AIR MEDICAL TREATMENT PROTOCOL --
 SKILLS LIST**

Date: 7/01/2007

SKILL	INDICATION	CONTRAINDICATIONS	COMMENTS
Surgical Cricothyrotomy	Airway obstruction or facial trauma when when all other means of effective ventilation have been exhausted.	<5 yo	Stabilize trachea, incise skin 1" with scalpel. Consider use of tracheal hook. Incise cricothyroid membrane and dilate. Insert trach or ET tube. Ventilate. Stabilize and secure. Recheck breath sounds.
<u>Vascular Access Devices:</u> Indwelling Catheter	Primary venous site for patients with indwelling catheters. Use for definitive therapy ONLY	Devices without external ports	Clear air carefully to avoid embolism. Aspirate and discard 5ml of blood prior to first use. Blood return will not be possible in one-way valve-catheters. Needleless systems may require adaptor.
Central: Femoral Subclavian	When a peripheral line or external jugular line cannot be established and venous access is needed.	None	6 or 8.5 Fr catheter used Catheter over needle technique 14 or 16 gauge catheter. If femoral artery is punctured, do not remove catheter.
External jugular Peripheral	When unable to establish other peripheral IV and venous access is needed. Whenever venous access indicated.	None None	Tamponade vein at end of catheter until tubing is securely attached to cannula end. Watch IV rate closely. Monitor lung sounds with fluid challenges.
Intraosseous infusion device	Fluid/medication administration in critical patient when other venous access unsuccessful.	Fractured bone	Splint extremity. Observe for signs of extravasation. Don't insert into fracture site
Percutaneous dialysis catheter access (e.g. Vascath)	Unable to start IV elsewhere when needed for administration of fluid/medications. For life threatening definitive therapy ONLY	None	Infuse at a rate to support continuous flow and prevent backflow into IV line. Needleless systems may require adaptor. Aspirate and discard 5 ml of blood prior to first use.
Vital signs: Routine	All patient assessments	None	Palpate BP only when NIBP or auscultation not possible.

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 EMS Medical Director

A-215
AIR MEDICAL MEDICATION LIST 7/01/2007

MEDICATION	INDICATIONS	DOSAGE / ROUTE	COMMENTS	CONTRA-INDICATIONS
ADENOSINE	SVT	6mg rapid IVP follow with 20ml NS. Then 12mg rapid IVP follow with 20ml NS, MR X 1.	Use with extreme caution in patients with history of bronchospasm or COPD. Administer rapid IVP	-Second or third degree AV block Sick Sinus Syndrome (without pacemaker) -Contraindicated for patients on Dipyridamole (Persantine)
ALBUTEROL	Respiratory distress with bronchospasm Allergic Reaction Burns	6ml 0.83% via nebulizer. MR as necessary.	Inhalation continuous via O ₂ powered nebulizer	
AMIODARONE	Stable VT Unstable VT/Pulseless VT/VF	150 mg over 10 minutes MR X 1 in 10 minutes 300mg, followed prn by 150 mg over 10 minutes.	Consider Amiodarone Drip (450mg/250mL D5W) 0.5 –1 mg per minute post conversion rhythm converts after Amiodarone.	
APRESOLINE	Pregnancy Induced Hypertension	5mg IV over 10” MR x 2 q 20” Titrate to BP diastolic = 90-100mmHg.		Coronary artery disease Mitral valve disease
ASPIRIN	Pain of ? cardiac origin	324mg chewable PO		Hypersensitivity
ATIVAN	Altered Neurologic Function- Seizures Behavioral Emergencies Envenomation Injuries Obstetrical Emergencies – Seizures Combative patients	2-4 mg IV/IM MR to a max of 4 mg		

A-215
AIR MEDICAL MEDICATION LIST 7/01/2007

MEDICATION	INDICATIONS	DOSAGE / ROUTE	COMMENTS	CONTRA-INDICATIONS
ATROPINE SULFATE	<p>Asystole</p> <hr/> <p>PEA HR <60 after Epinephrine dose</p> <hr/> <p>Symptomatic Bradycardia Ventricular Ectopy in the presence of Bradycardia</p> <hr/> <p>Organophosphate poisoning</p> <hr/> <p>RSI Associated bradycardia in pediatric patients</p>	<p>1mg IVP q3-5 min OR 2mg ET (max 3mg absorbed dose)</p> <hr/> <p>0.5-1 mg IVP MR q3-5min until HR>60, clinical improvement or max 3mg</p> <hr/> <p>2 mg IV, IM MR q3-10 min prn</p> <hr/> <p>0.02 mg/kg IVP</p>	<p>May be used for second and third degree A-V blocks after trial with pacing.</p> <p>No max dose</p> <p>May be given IO/IV if no IV established.</p>	<p>May cause paradoxical bradycardia in transplant heart patients.</p>
ATROVENT	<p>Respiratory Distress with Bronchospasm Severe Respiratory Distress with Bronchospasm Allergic reaction Burns</p>	<p>2.5ml 0.02% via nebulizer</p>	<p>Added to first dose of albuterol via continuous O₂ powered nebulizer</p>	
BENADRYL (DIPHENHYDRAMINE)	<p>Allergic reaction Anaphylaxis Extrapyramidal reaction</p>	<p>50mg IVP 50mg IM</p>	<p>IVP - administer slowly</p>	

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AIR MEDICAL MEDICATION LIST 7/01/2007

MEDICATION	INDICATIONS	DOSAGE / ROUTE	COMMENTS	CONTRA-INDICATIONS
CALCIUM GLUCONATE	Suspected hyperkalemia in hemodialysis patient in presence of widened QRS complex and peaked T waves Symptomatic Black Widow Spider Bites	10 ml SIVP (4.6 mEq) 10 ml SIVP (4.6 mEq)		
CARDIAZEM (DILTIAZEM)	Uncontrolled Atrial Fibrillation / Flutter SVT: As second line drug after Adenosine	20 mg IV over 2 minutes, may repeat in 15 minutes	Hold for systolic BP < 100 mmHg. (If SBP < 120 begin with 10 mg dose)	-Sick Sinus Syndrome 2nd or 3rd degree heart blocks -Hypotension / Cardiogenic shock -Recent administration of Beta Blockers -WPW Syndrome or short PR syndrome -VTach -Peds: Not indicated
D ₅₀ (Dextrose 50%)	<u>Symptomatic hypoglycemia in known diabetic:</u> if BS <75mg/dl if BS unobtainable <u>Symptomatic hypoglycemia in unknown diabetic:</u> if BS <75mg/dl	25GM IVP, MR prn		
DOPAMINE HYDROCHLORIDE	Shock in presence of normovolemia Discomfort/Pain of ?cardiac origin with associated shock Anaphylaxis Bradycardia (after max Atropine)	400mg/250ml @ 5-40mcg/kg/min IV drip. Titrate BP= >90 mmHg systolic and other signs of perfusion		

A-215
AIR MEDICAL MEDICATION LIST 7/01/2007

MEDICATION	INDICATIONS	DOSAGE / ROUTE	COMMENTS	CONTRA-INDICATIONS
EPINEPHRINE	Pulseless rhythms <hr/> Allergic reaction <hr/> Respiratory Distress with Bronchospasm <hr/> Anaphylaxis	1:10,000 1mg IVP, MR q 3-5" OR 1:1,000 2mg ET, MR q 3-5" OR 1:1,000 10mg ETAD, MR q 3-5" <hr/> 1:1000 0.5mg SC/IM, MR q 15" X2 (total 3 doses). <hr/> 1:1000 0.5 mg SC/IM MRx2 q15 minutes <hr/> 1:10,000 0.5 mg IVP MR q 15" to max of 1.5 mg		
EPINEPHRINE DRIP	Bradycardia with hypotension	1:1000 1 mg/250 mls NS @ 2-10 mcg/min.	Titrate to effect	
ETOMIDATE	To facilitate endotracheal intubation Combative patients	20mg IVP Adult		
FENTANYL (SUBLIMAZE)	Pain management	50-100 mcg IVP initial dose, may titrate to effect IM dose: 100mcg	Maintain SBP >100 and avoid respiratory depression (BP > 90 for burn patients)	
GLUCAGON	<u>Unable to start IV in patient with symptomatic hypoglycemia</u>	1mg (1ml) IM/SC. 1-2 additional doses may be given <u>every 25 minutes</u> if no response		

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AIR MEDICAL MEDICATION LIST 7/01/2007

MEDICATION	INDICATIONS	DOSAGE / ROUTE	COMMENTS	CONTRA-INDICATIONS
	Beta Blocker and Calcium Channel Blocker overdoses	2 mg IVP repeat as necessary		
	Esophageal foreign body obstruction	1 mg IVP		
<u>INTRAVENOUS SOLUTIONS</u> NORMAL SALINE (NS) OR DEXTROSE 5% WATER (D5W)	Definitive therapy or need anticipated	TKO IV drip, adjust per protocol		
LABETOLOL	Hypertensive Urgency	20mg IVP slow,MR with 40mg and 80mg at 10 min intervals until symptoms are alleviated, 20% reduction in MAP, or total 300 mg given.		Asthma Cardiogenic shock Bradycardia Heart block
	Hypertension with CNS bleed	2 mg/min IV drip titrate to BP		
	Afib/SVT - Stable	20 mg followed by 40 mg prn then 80 mg prn at q 10" intervals until rate controlled.		BP <100mmHg
	Pregnancy Induced Hypertension	20mg IVP slow,MR with 40mg and 80mg at 10 min intervals until diastolic BP<100mm Hg.		

A-215
AIR MEDICAL MEDICATION LIST 7/01/2007

MEDICATION	INDICATIONS	DOSAGE / ROUTE	COMMENTS	CONTRA-INDICATIONS
LIDOCAINE (XYLOCAINE)	VF/ pulseless VT Stable VT/ Wide complex tachycardia Oral or Nasal intubation with RSI	Bolus 1-1.5 mg/kg IV / IO. Repeat 0.5-0.75 mg/kg every 5 - 10 minutes up to 3mg/kg for refractory VF. ET Dose is 2 – 4mg/kg. 0.5 – 0.75mg/kg up to 1 – 1.5 mg/kg Repeat 0.5 to 0.75 mg/kg every 5 -10 min with max total dose of 3 mg/kg 1-1.5 mg/kg IVP/IO, given 1 minute prior to intubation attempts	Adult doses should be given in increments rounded to the nearest 25mg amount. In the presence of shock, CHF or liver disease, the repeat bolus is recommended at 10" intervals.	
LIDOCAINE DRIP	Post Conversion	1-4 mg/min		
LIDOCAINE JELLY (2%) optional	Intubation or Nasopharyngeal airway	5ml	Apply to ET tube or nasal airway	
MANNITOL	In the presence of a severe head injury with the presence or development of the following symptoms: <ul style="list-style-type: none"> • Lateralizing motor signs • Focal sz w/ dec. LOC • Asymmetrical pupillary responses, not due to direct ocular trauma or by history 	20% solution in 0.45%NS, 500ml, 0.5 grams/kg over 10-15 min		Systolic BP < 90 mmHg

A-215
AIR MEDICAL MEDICATION LIST 7/01/2007

MEDICATION	INDICATIONS	DOSAGE / ROUTE	COMMENTS	CONTRA-INDICATIONS
Metoprolol (Lopressor)	Chest pain, Acute MI	5mg SIVP q10min x3 doses	Hold for HR<60 or SBP<100	
MORPHINE SULFATE (MS)	Chest Pain suspected cardiac origin Pain management	2-5mg IVP prn 3-5min titrate until pain free or respiratory compromise 2-5 mg increments IVP titrated until pain is relieved. 5-10 mg IM/SQ may repeat every 15 minutes as necessary	Maintain systolic BP >90 Maintain systolic BP>100 (burn patients systolic BP>90) and avoid respiratory depression	
NARCAN (NALOXONE HCL)	Symptomatic ? Opioid OD with airway management issues	2 mg IV/IM/DirectIVP, MR to max 10mg		
NITROGLYCERINE	Pain or discomfort of ?cardiac origin Respiratory distress with rales	0.4 mg, SL MR q 5 minutes if SBP >90mmHg. (no max dose) 0.4 mg SL MR x3 for max dose of 1.6mg, for SBP>100mmHg.	Use with caution in patients with borderline hypotension, suspected CVA, right sided MI or if other vasodilators given.	Suspected intracranial bleed Current use of Viagra, Cialis , Levitra Shock CPR
NITROGLYCERINE INFUSION	Pain or discomfort of ?cardiac origin Respiratory Distress with rales	50 mg/250 NS IV @ 5 -10mcg/min. Increase q 5-10 minutes prn titrate to effect, maintaining SBP>90. Start at 5 -10mcg/min, titrate until symptom-free, maintaining SBP>100.	For hypertension (DBP > 120 or SBP >220 may start drip at 20mcg/min and titrate more rapidly. Up to 100 mcg/min may be needed) May be started prior to completion of 3 doses of SL NTG	

A-215
AIR MEDICAL MEDICATION LIST 7/01/2007

MEDICATION	INDICATIONS	DOSAGE / ROUTE	COMMENTS	CONTRA-INDICATIONS
PHENERGAN	Nausea or vomiting	12.5 mg-25 mg IV/IM	IV Phenergan should be mixed in at least 10cc saline and injected slowly (over 5 – 10 minutes) to prevent tissue necrosis	
PITOCIN	Postpartum hemorrhage	20 units /1000 ml NS IV infusion @ max 250 ml per hour	May administer prior to delivery of placenta	
SODIUM BICARBONATE (NaHCO ₃)	Pulseless rhythms <hr/> Prolonged immersion in near drowning Tricyclic OD with widened QRS Hyperkalemia in hemodialysis patient Crush Injury	1 mEq/kg IVP MR 0.5 mEq/kg IV q 10” up to 1 mEq/kg IVP X 1		
SOLUMEDROL	Allergy / Anaphylaxis Respiratory distress Spinal Cord Injury	125mg IVP 30 mg/kg IV over 15-30 min, then 5.4 mg/kg IV drip over the next 23 hours		Head injury GCS ≤ 12 Allergy to cortisone
SUCCINYLCHOLINE	Neuromuscular blocking agent.	1-1.5mg/kg rapid IVP, MR OR 3-4mg/kg IM (not to exceed max dose of 150mg).	Use caution in known or suspected hyperkalemia.	

A-215
AIR MEDICAL MEDICATION LIST 7/01/2007

MEDICATION	INDICATIONS	DOSAGE / ROUTE	COMMENTS	CONTRA-INDICATIONS
TERBUTALINE	Bronchospasm Premature Labor, Prolapsed Cord	0.25mg IM or SC 0.25 mg SC, MR after 15 - 30 minutes if needed, up to 0.5 mg every 4 hours	For patients > 55 yrs old with reactive airway disease instead of epinephrine	
VECURONIUM	Neuromuscular Blockade	0.1 mg/kg IVP, MR	Sedation and/or analgesia must also be used.	Unconfirmed airway
VERSED (MIDAZOLAM)	Sedation/Amnesia Post RSI sedation <hr/> Seizure <hr/> Behavioral emergency Cardiac Pacing	2.5mg MR IV X2 <hr/> 0.1 mg/kg IVP, MR X 1 in 10 minutes. OR 0.2 mg/kg IM, to max of 10 mg MR X 1 in 10 minutes <hr/> 2-5 mg slow IVP, to max 5 mg 0.1mg/kg IV to a max of 5 mg over 2 minutes	Attention to volume status and age.	
ZOFTRAN (ONDANSETRON)	Nausea or vomiting	4 mg IVP/IM/PO. May repeat dose every 30 minutes to max of 12mg		

SUBJECT: AIR MEDICAL TREATMENT PROTOCOL --
ABDOMINAL PAIN (Non-Traumatic)

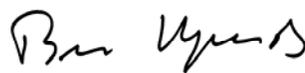
Date: 7/01/07

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<p>Ensure patent airway</p> <p>O₂ and/or ventilate prn</p> <p>NPO</p> <p>Anticipate vomiting</p>	<p>IV TKO, adjust prn to maintain systolic BP >90, sustain mentation and pink, dry skin</p> <p>Monitor EKG.</p> <p>Nausea/vomiting, consider:</p> <p>Zofran 4mg IM or IVP over 3 minutes, MR x2 q15"</p> <p>Phenergan 12.5-25 mg IV/IM</p>
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EMS Medical Director

SUBJECT: AIR MEDICAL TREATMENT PROTOCOL --
AIRWAY OBSTRUCTION (FOREIGN BODY)

Date: 7/01/07

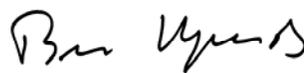
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<p><u>For a conscious patient:</u></p> <ul style="list-style-type: none">• Reassure, encourage coughing.• O2 prn• Abdominal thrusts (chest thrusts in obesity/pregnancy) <p><u>If patient becomes unconscious:</u></p> <ul style="list-style-type: none">• Abdominal thrusts prn <p><u>If patient is unconscious when found:</u></p> <ul style="list-style-type: none">• Attempt to ventilate. (Reposition prn)• Abdominal thrusts prn <p><u>Once obstruction is removed</u></p> <ul style="list-style-type: none">• High flow O2, ventilate prn	<p><u>If patient becomes unconscious or has a decreasing LOC:</u></p> <ul style="list-style-type: none">• Direct laryngoscopy and Magill forceps• CPR x2 minutes• Attempt to visualize foreign body <p><i>If unsuccessful in removing a complete airway obstruction: Surgical Cricothyrotomy/Comitube</i></p> <p><u>Once obstruction is removed:</u></p> <ul style="list-style-type: none">• Monitor O2 saturation• Monitor EKG• Intubate prn• IV TKO• Bring expelled foreign body to the hospital
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NOTE: Stat transport while continuing abdominal thrusts/CPR.

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<p>Ensure patent airway</p> <p>O₂ and/or ventilate prn.</p> <p>Remove sting/injection mechanism</p> <p>May assist patient to self-administer own prescribed medication</p> <p><u>ONE TIME ONLY.</u> Base Hospital contact required prior to any repeat dose.</p> <p>Latex Sensitive Patients Should be managed in a latex safe environment without compromising patient care. Prehospital personnel should inform the receiving facility personnel at the time of transfer if they become aware that the patient is latex sensitive. Pediatric patients with a long or complex medical history (such as spina bifida, cerebral palsy, or neurologic disorders) frequently exhibit latex sensitivity. Questions regarding the management of latex sensitive patients should be referred to the Base Hospital. See Management of Latex Sensitive Patients (Equipment List) S-105)</p>	<p>Monitor O₂ Saturation prn IV TKO; adjust prn Monitor EKG Intubate/Cricothyrotomy for laryngeal edema</p> <p><u>Allergic Reaction with no peripheral shutdown or airway obstruction:</u> <i>In the presence of respiratory distress with bronchospasm:</i> Albuterol 6ml (0.083%) via O₂ powered nebulizer MR Atrovent 2.5ml (0.02%) added to first dose of Albuterol via continuous O₂ powered nebulizer.</p> <p>Epinephrine 1:1,000, 0.5mg IM or SC, MR q15” (max 1.5mg) <i>For patients >55 years of age or know cardiovascular disease, consider: Terbutaline 0.25mg SC/IM in place of Epinephrine</i></p> <p>Benadryl 25-50mg slow IVP or 50mg IM MR x1 Solumedrol 125mg IV</p> <p><u>Allergic Reaction/Anaphylaxis with peripheral shutdown or upper airway obstruction:</u> IV wide open Epinephrine 0.5mg 1:10,000 IVP, MR q15” (max 1.5mg) OR Benadryl 25-50mg slow IVP or 50mg IM MR x1 Solumedrol 125mg IVP Dopamine 400mg/250ml @ 5-20 mcg/kg/min. Titrate BP to 100mmHg systolic</p> <p><i>If respiratory distress with bronchospasm treat with Albuterol/Atrovent as above</i></p>
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Approved:



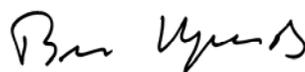
EMS Medical Director

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ALS

<p>Ensure patent airway, O₂ and/or ventilate prn.</p> <p>Spinal immobilization when indicated.</p> <p>Secretion problems, position on affected side.</p> <p>Do not allow patient to walk.</p> <p>Restrain prn.</p> <p><u>Hypoglycemia:</u> (suspected): If patient is awake and has gag reflex, give 2 packets of granulated sugar with fruit juice or other liquid.</p> <p>If patient is unconscious, NPO</p> <p><u>Seizures:</u> Protect airway, and protect from injury</p> <p>Treat associated injuries.</p> <p>Spinal immobilization prn.</p>	<p>Identify and treat cause.</p> <p>Intubate prn, consider RSI.</p> <p>Monitor EKG, Pulse Oximetry</p> <p>IV TKO, adjust prn</p> <p>Venous/capillary sampling</p> <p><u>Symptomatic suspected Opioid OD with airway management problems</u> <i>Excluding opioid dependant pain management patient:</i></p> <ul style="list-style-type: none">•Narcan 2 mg IVP/DIVP/IM, MR to a max of 10mg <p>Note: Consider holding Narcan if pt is hemodynamically stable with a manageable airway</p> <p><i>For patient refusing transport</i></p> <ul style="list-style-type: none">•Give additional 2 mg IM <p><i>For opioid- dependant pain management patient:</i></p> <ul style="list-style-type: none">•Narcan titrate 0.1mg up to 2 mg IVP/direct IVP or IM MR <p><u>Hypoglycemia:</u> <u>Altered LOC</u> D₅₀ 25Gm if BS ≤75mg/dl or BS unobtainable, MR D₅₀ 25Gm if BS >75mg/dl if sample result?</p> <p>Glucagon 1 ml IM (if no IV) in patient with altered LOC & BS ≤75mg/dl or unobtainable</p> <p><u>Seizures:</u></p> <ol style="list-style-type: none">Generalized seizures lasting >5".Focal seizures with respiratory compromiseRecurrent seizures without lucid intervalProlonged focal seizure. <p>Give: Ativan 2-4 mg IVP or IM MR up to 4 mg</p>
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Approved:



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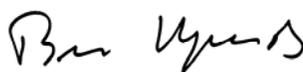
SUBJECT: AIR MEDICAL TREATMENT PROTOCOL --
ALTERED NEUROLOGIC FUNCTION

Date: 7/01/2007

<p><u>Behavioral Emergencies:</u></p> <p>Restrain patient as appropriate for transport.</p> <p>Full spinal precautions if trauma is expected..</p> <p>If LOC is diminished, use prone or lateral position.</p> <p>Avoid unnecessary sirens.</p> <p>Consider law enforcement support.</p> <p>For patients under 72 hour hold, encourage their participation in the transport without restraints.</p> <p>Consider ground transport if combative, a danger to the crew and unsafe for flight. (See Policy S-422)</p>	<p><u>Behavioral Emergencies:</u></p> <p>Consider:</p> <ul style="list-style-type: none">•Ativan 2-4 mg IV/IM MR q 5min prn AND/OR•Versed 1-5mg slow IVP q10min prn•Etomidate 10mg IV x1 for emergency sedation (this will require additional sedation with Ativan or Versed before the patient again becomes agitated) <p><u>Hypertensive Crisis:</u> BP systolic >220 or diastolic >120 with a headache, chest pain, shortness of breath, EKG changes, or signs and symptoms of a CVA</p> <p>Consider:</p> <p>Labetolol 20mg slow IVP with additional doses of 40mg and then 80mg repeated in 10 min intervals until:</p> <ul style="list-style-type: none">• Symptoms are alleviated• OR 20% reduction in MAP is achieved• OR a maximum of 300mg is administered <p>With associated cardiac symptoms, consider using Nitro drip in addition to Labetalol.</p> <p><u>CVA</u> If GCS \leq 8 consider RSI If stroke is suspected as possible hemorrhagic in origin, keep SBP between 140-160mmHg.</p>
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Note: For Pregnancy Induced Hypertension - see A-233

Approved:



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ALS

<p>Move to a safe environment.</p> <p>Remove physical contact with burning agent.</p> <p>Ensure patent airway, O₂ and/or ventilate prn.</p> <p>Treat other life threatening injuries.</p> <p><u>THERMAL BURNS:</u> Burns of < 5% body surface area, apply clean, cool saline dressings to help alleviate pain and protect the wound.</p> <p>For burns of > 10% body surface area, cover with <u>dry</u> dressings and keep warm. Cover all other burns with dry, sterile sheets. Do not pack burns in ice or break blisters.</p> <p>Do not allow the patient to become hypothermic.</p> <p><u>CHEMICAL BURNS:</u> Flush liquid chemicals with copious amounts of water.</p> <p>Brush off dry chemicals, then flush with copious amounts of water.</p> <p><u>TAR BURNS:</u> Cool with water, transport; do not remove tar.</p>	<p>Monitor O2 Saturation Intubate prn Monitor EKG prn IV TKO prn, adjust prn</p> <p><u>For patients meeting Burn Center criteria:</u></p> <p>IV of warmed NS 500 ml/hr</p> <p>MS titrate until pain is relieved, for SBP>90mmHg.</p> <p>OR Fentanyl 50-100mcg IVP initial dose, MR titrating to effect with SBP>90</p> <p><i>In the presence of respiratory distress with bronchospasm:</i></p> <p>Albuterol 6 ml 0.083% via Nebulizer, MR Atrovent 2.5 ml 0.02% added to first dose of Albuterol via Nebulizer.</p>
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Note: Base Hospital Contact and Transport (per S-415):
Will be made to UCSD Base Hospital for patients meeting burn center criteria.

Note: Every effort should be made to maintain as clean of an environment as possible, and when practical, the use of additional protective gear should be utilized.

BURN CENTER CRITERIA

Patients with burns involving:

- 20% second degree or ≥5% 3rd degree of BSA
- suspected respiratory involvement or significant smoke inhalation in a confined space
- significant injury of the face, hands, feet or perineum or circumferential
- significant electrical injury due to high voltage (greater than household current/ 110 volts)

Disposition:

Hyperbaric chamber for suspected CO poisoning.

Approved:



EMS Medical Director

SUBJECT: AIR MEDICAL TREATMENT PROTOCOL –
DISCOMFORT/PAIN OF SUSPECTED CARDIAC ORIGIN

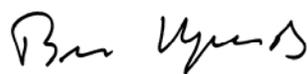
Date: 7/01/2007

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ALS

<p>Ensure patent airway</p> <p>O2 and/or ventilate prn.</p> <p>Do not allow patient to walk</p> <p>May assist patient to self-medicate Nitroglycerine SL if systolic BP>110 mm Hg</p>	<p>Monitor EKG/Pulse Oximetry</p> <p>IV TKO OR 2 large bore IV's TKO, adjust rate prn if ?aortic aneurysm</p> <p>Treat dysrhythmias</p> <p>NTG 0.4 mg SL if SBP\geq90 mm Hg MR q 5 minutes until pain free or SBP falls below 90. Note: There is no MAX dose.</p> <p>ASA 324mg chewable po Metoprolol 5mg IV q10min x3 doses</p> <p>Consider NTG 50mg/250 NS IV drip, start at 5-10 mcg/min titrate to pain relief</p> <p>MS 2-5 mg IVP, then 2mg increments q3-5" until pain free or respiratory depression occurs. Keep SBP>90.</p> <p><u>Discomfort /pain of ?cardiac origin with associated hypotension:</u> Fluid challenge to max 200 ml with clear lungs, MR prn</p> <p>Consider: Dopamine 400 mg/250 ml NS, 5-40 mcg/kg/min, titrate BP to 100-120 mm Hg systolic.</p> <p><u>Discomfort/pain of ?cardiac origin with associated hypertension:</u> SBP >220 mm Hg, DBP >120mm Hg: <u>May start NTG drip at 20mcg/min and titrate more rapidly up to 100mcg/min.</u></p>
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Approved:



EMS Medical Director

SUBJECT: AIR MEDICAL TREATMENT PROTOCOL --
DYSRHYTHMIAS

Date: 7/01/2007

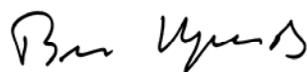
Treat dysrhythmias ONLY if they have potential to or are causing symptoms of decreased cardiac output.

BLS

ALS

O ₂ and/or ventilate prn.	<p>Monitor EKG/ Monitor O₂ Saturation IV TKO, adjust prn Intubate prn</p> <p>A. <u>Unstable Bradycardia with Pulse:</u> If bradycardia is severe and patient is unconscious, begin chest compressions. Atropine Sulfate 0.5-1mg IVP for pulse \leq40bpm MR q3-5 min until HR \geq60, clinical condition improves, or to a total of 3mg</p> <p>If ineffective, consider: -External Pacing Consider: Sedation with Versed 0.1mg/kg IVP to max 5mg for discomfort associated with pacing. -Dopamine 400mg in 250ml at 5-20mcg/kg/min IV, titrate to SBP=100mmHg (after max Atropine) -Epinephrine 1:1000, 1mg in 250ml NS at 2-10 mcg/min IV drip titrate to SBP of 100</p> <p>B. <u>Supraventricular Tachycardia (SVT):</u> VSM/CSM if <40 years of age, MR Adenosine 6mg rapid IVP, followed with 20ml NS IVP, if ineffective within 1-2 min, Adenosine 12mg rapid IVP followed with 20ml NS IVP, MR x1 in 1-2" Labetolol 20 mg followed by 40 mg if needed, followed by 80 mg if needed at q 10" intervals until rate controlled. Hold for systolic <100 mmHg. If no conversion, Diltiazem 20mg IVP over 20 min, hold for SBP<100mmHg. MR 20mg in 15 min (If SBP <120mmHg, begin with 10mg dose) OR Amiodarone 150mg IV over 10 min. MR in 20 min. Follow with Amiodarone drip (450mg/250ccD5W) @ 1mg/min, monitoring for hypotension and bradycardia. Consider: Etomidate 0.1mg/kg IVP to max dose of 20mg prn precardioversion Synchronized cardioversion at 50J (or clinically equivalent biphasic energy dose), MR at 100, 200 prn.</p> <p>C. <u>Uncontrolled Atrial Fibrillation/Atrial Flutter</u> Diltiazem 20mg IVP over 20 min, hold for SBP<100mmHg. MR 20mg in 15 min (If SBP <120mmHg, begin with 10mg dose) In the presence of uncontrolled ventricular response with rate \geq180, hypotension and decreasing LOC: Etomidate 0.1mg/kg IVP to max dose of 20mg prn precardioversion Cardioversion at 50, 100, 200J (or clinically equivalent biphasic energy dose)</p>
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Approved:



EMS Medical Director

SUBJECT: AIR MEDICAL TREATMENT PROTOCOL --
DYSRHYTHMIAS

Date: 7/01/2007

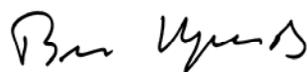
Treat dysrhythmias ONLY if they have potential to or are causing symptoms of decreased cardiac output.

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ALS

O ₂ and/or ventilate prn.	<p>D. <u>Ventricular Tachycardia (VT) with adequate perfusion:</u></p> <p>Amiodarone 150 mg over 10" MR X 1 in 20 minutes, followed by an infusion at 1mg/min. Note: If Amiodarone is ineffective or patient becomes unstable, proceed to Synchronized Cardioversion</p> <p>Etomidate 0.1mg/kg IVP to max dose of 20mg prn precardioversion Synchronized cardioversion at 100J, (or clinically equivalent biphasic energy dose), MR at 200, 300, 360 prn</p>
CPR	<p>E. <u>VF/Pulseless VT:</u></p>
Ventilate	<p>Defibrillate prn Intubate and ventilate IV TKO</p> <p>Epinephrine 1:10,000, 1mg IVP, MR q3- 5" OR Epinephrine 1:1000, 2mg ET, MR q3-5"</p> <p>Amiodarone 300 mg IVP, followed prn by 150 mg IVP over 10 minutes. OR Lidocaine 1.5mg/kg slow IVP, MR x1 in 3-5" or Lidocaine 3mg/kg ET, MR x1 in 3-5"</p> <p>Magnesium Sulfate 2 Gm SIVP over 2-3 min (Torsades de Pointes, hypomagnesemic state or recurrent VF) Consider: NaHCO₃ 1mEq/kg IVP for suspected hyperkalemia, prolonged arrest, tricyclic OD or suspected acidosis Calcium Gluconate 10 ml (4.6mEq) slow IV for suspected hyperkalemia</p>

Approved:



EMS Medical Director

SUBJECT: AIR MEDICAL TREATMENT PROTOCOL --
DYSRHYTHMIAS

Date: 7/01/2007

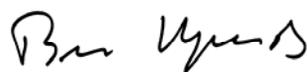
Treat dysrhythmias ONLY if they have potential to or are causing symptoms of decreased cardiac output.

BLS

ALS

<p>?conscious/ pulseless):</p> <p>CPR prn</p> <p>Assist ventilation</p>	<p>F. <u>Post Conversion VT/VF, AICD conversion with pulse >50bpm:</u></p> <p>For the return of spontaneous perfusing rhythm, consider an IV infusion of the anti-arrhythmic considered to be responsible for the conversion: Amiodarone 1 mg/min IV drip Lidocaine 1-4 mg/min IV drip</p>
<p>CPR Ventilate</p>	<p>G. <u>Pulseless Electrical Activity (PEA)</u></p> <p>CPR Monitor EKG. Intubate IV TKO, adjust prn. Attempt to determine cause and treat.</p> <p>Epinephrine 1:10,000, 1mg IVP, MR q3-5". OR Epinephrine 1:1000, 2mg ET, MR q3-5".</p> <p>For HR≤60/min: Atropine Sulfate 1mg IVP, MR x2 to a max. of 3mg absorbed dose. OR Atropine Sulfate 2mg ET, MR x2 to a max of 3mg absorbed dose.</p> <p>Consider: If ? Hyperkalemia: NaHCO₃ 1mEq/kg IVP, then 0.5 mEq/kg IVP q10". Calcium Gluconate 10 ml (4.6 mEq) slow IVP If ? Hypovolemia, Fluid challenge If ? Tension Pneumothorax, consider needle thoracotomy/chest tube insertion. If ? Pericardial Tamponade, consider pericardiocentesis and fluid challenge</p>

Approved:



EMS Medical Director

SUBJECT: AIR MEDICAL TREATMENT PROTOCOL --
DYSRHYTHMIAS

Date: 7/01/2007

Treat dysrhythmias ONLY if they have potential to or are causing symptoms of decreased cardiac output.

BLS

ALS

<p>O₂ and/or ventilate prn. CPR</p>	<p>H. <u>Asystole:</u> CPR Monitor EKG. Intubate IV TKO, adjust prn.</p> <p>Epinephrine 1:10,000, 1mg IVP, MR in 3-5". OR Epinephrine 1:1000, 2mg ET, MR in 3-5".</p> <p>Atropine Sulfate 1mg IVP, MR q3-5"x2 to max 3 mg OR Atropine Sulfate 2mg ET, MR q3-5"x2 to max 3mg absorbed dose</p> <p>Discontinue resuscitative efforts if no response noted per policy A-406</p>
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Approved:



EMS Medical Director

SUBJECT: AIR MEDICAL TREATMENT PROTOCOL --
ENVENOMATION INJURIES

Date: 7/01/2007

BLS

ALS

<p>O₂ and/or ventilate prn.</p> <p><u>JELLYFISH STING:</u></p> <p>Rinse with alcohol; do not rub or apply pressure.</p> <p><u>STINGRAY OR SCULPIN INJURY:</u></p> <p>Heat as tolerated.</p> <p><u>SNAKEBITES:</u></p> <p>Mark the wound and margin of swelling with time of envenomation. Monitor any increase in swelling.</p> <p>Keep involved extremity below level of heart and splint, if possible.</p> <p>May apply cool, wet dressing to wound. <u>Do not apply ice.</u></p>	<p>Monitor EKG/Pulse Oximeter prn</p> <p>Intubate prn</p> <p>IV TKO prn, adjusted prn</p> <p><u>Snakebites:</u></p> <p>Treat allergic reaction per A-222.</p> <p>Consider appropriate pain management with Morphine or Fentanyl</p> <p><u>Symptomatic Black Widow Spider Bites:</u></p> <p>Treat allergic reaction per A-222.</p> <p>Ativan 1-2 mg IV or IM</p> <p>Calcium Gluconate 10 ml (4.6mEq) SIVP</p> <p>Consider appropriate pain management with Morphine or Fentanyl</p>
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Approved:



EMS Medical Director

SUBJECT: AIR MEDICAL TREATMENT PROTOCOL --
HEMODIALYSIS PATIENT

Date: 7/01/2007

BLS

ALS

Ensure patent airway, give O ₂ , ventilate if necessary.	Monitor EKG/Pulse Oximeter Intubate prn IV TKO in arm that does not have graft/AV fistula if possible, adjust rate prn <u>Suspected Hyperkalemia</u> (widened QRS complex and peaked T-waves): NaHCO ₃ up to 1mEq/kg IVP Calcium Gluconate 10 ml (4.6mEq) IVP
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NOTE: Access percutaneous venous access catheter (Vascath) or dialysis graft for definitive therapy only when no other vascular access is available. Consider patient's hospital of choice for transport.

Approved:



EMS Medical Director

BLS

ALS

100% O ₂ , and/or ventilate prn. Spinal immobilization when indicated. Remove wet clothing, apply blankets.	Monitor EKG Monitor O ₂ saturation Consider NG tube placement Intubate with inline spinal stabilization as indicated IV TKO, adjust prn NaHCO ₃ up to 1mEq/kg IVP
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Near drowning Victims: May require PEEP with ET ventilation. Start at 5cm water pressure and observe for improvements in oxygen saturations. If patient in cardiac arrest in conjunction with profound hypothermia, strongly consider transport **while providing ACLS care.**

Diving Victims: Any victim who has been breathing from compressed air sources below the water's surface and presents with the following:

Minor presentation: minimal localized joint pain, mottling of the skin surface, localized swelling with pain; none of which are progressive.

Major presentation: symptoms listed above that are severe and/or rapidly progressing, vertigo, altered LOC, progressive paresthesia, paralysis, severe SOB, blurred vision, crepitus, hematemesis, hemoptysis, pneumothorax, trunk pain, or girdle or band-like burning discomfort.

Disposition of Diving Victims:

Major presentation:

All patients with a “major” presentation should be transported to UCSD-Hillcrest. Trauma issues are secondary in the presence of a “Major” presentation. If the airway is unmanageable, divert to the closest BEF.

Minor presentation:

Major trauma candidate: catchment trauma center

Non-military patients: routine

Active duty military personnel: transport to the Military Duty Recompression Chamber if possible. The Base Hospital will contact the Duty Recompression Chamber at (619) 556-7130 to determine chamber location. Paramedics/Base hospitals shall transfer care to the Diving medical Officer (or designee) upon arrival to the chamber. Hyperbaric treatment may begin in accordance with military medical protocols.

Naval Hyperbaric Chamber Locations

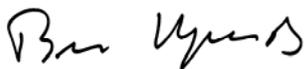
North Island Naval Air Station

Naval Station 32nd Street and Harbor Drive

Naval Special Warfare – Coronado

Note: If possible, obtain dive computer or records. If decompression sickness or air embolism is suspected, transport patient at cabin altitude as low as possible to a facility with hyperbaric chamber capacity. Hyperbaric Chambers must be capable of recompression to 165 ft.

Approved:



EMS Medical Director

SUBJECT: AIR MEDICAL TREATMENT PROTOCOL --
OBSTETRICAL EMERGENCIES

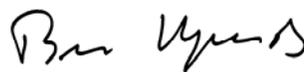
Date: 7/01/2007

BLS

ALS

<p>Ensure patent airway. O₂ via NC or non-rebreather mask, ventilate prn</p> <p>If no time for transport and delivery is imminent (crowning and pushing), proceed with delivery.</p> <p>Transport in lateral position unless otherwise indicated by patient condition.</p> <p><u>Routine Delivery:</u> Massage fundus if placenta delivered. (Do not wait on scene).</p> <p>Place ID bands on Mother and Infant</p> <p><u>Post Partum Hemorrhage:</u> Massage fundus.</p> <p>Baby to breast.</p> <p>Trendelenburg position.</p> <p><u>Eclampsia (Seizures):</u> Protect airway, and protect from injury.</p> <p>Spinal immobilization when indicated.</p> <p>STAT transport for third trimester bleeding.</p>	<p>IV x2 TKO, adjust prn. Fetal Monitoring Monitor EKG/Pulse Oximeter Intubate PRN FHT via Doppler q10-15 min</p> <p><u>For Nausea:</u> Zofran 4mg IV over 2-5 minutes, MR once Phenergan 12.5-25 mg IV</p> <p><u>Post Partum Hemorrhage:</u> -Pitocin 20 units/1000cc IV adjust rate prn, titrate up to wide open to effect. -If no IV access, Pitocin 10 u IM</p> <p><u>Prolapsed Cord:</u> -Insert gloved hand into vagina and apply enough pressure on presenting part to keep it from pressing on the cord, continue until care assumed at hospital. -Magnesium Sulfate 4GM IV over 20 minutes -Consider Terbutaline 0.25mg SC</p> <p><u>Pregnancy Induced Hypertension (BP syst >160, diast >100 with HA or visual changes)</u> -Labetalol initial dose 20mg slow IV over 2 min, repeat with 40mg and 80mg at 10 min intervals until DBP<100.</p> <p><u>Eclampsia (Seizures):</u> -Seizure precautions -Ativan 2-4 mg IV/IM -Magnesium Sulfate 4GM IV over 4 minutes, then maintenance drip at 2-4g/hr.</p> <p><u>Premature Labor</u> <u>Foley catheter prn</u> Consider: -Magnesium Sulfate 4GM IV over 20 minutes, then maintenance drip at 1-4g/hr -Terbutaline 0.25mg SC, MR q 15-30" prn up to 0.50mg every 4 hours.</p>
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Approved:



EMS Medical Director

SUBJECT: AIR MEDICAL TREATMENT PROTOCOL --
OBSTETRICAL EMERGENCIES

Date: 7/01/2007

BLS

Ensure patent airway. O₂ via NC or non-rebreather mask, ventilate prn

ALS

Uterine Inversion:

Consider:

Terbutaline 0.25mg SC

Magnesium sulfate 1-4G/hr drip

Pulmonary Embolism

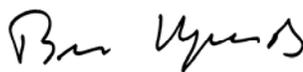
High flow oxygen

IV x2 TKO, adjust prn.

Monitor EKG/Pulse Oximeter

Consider Morphine 2-5mg IVP or Fentanyl 50-100mcg IVP for pain, MR prn for SBP >100mmHg

Approved:



EMS Medical Director

SUBJECT: AIR MEDICAL TREATMENT PROTOCOL --
POISONING/OVERDOSE

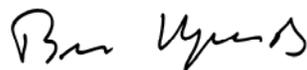
Date: 7/01/2007

BLS

ALS

<p>Ensure patent airway. O₂ and/or ventilate prn</p> <p><u>Skin</u>: remove clothes and brush off, or rinse substance with copious amount of water.</p> <p><u>Inhalation/Smoke/Gas/Toxic Substance</u>: move patient to safe environment. 100% O₂ via mask. Consider transport to a facility with Hyperbaric chamber.</p> <p><u>Contamination with commercial grade ("low level") radioactive material</u>: Patients with mild injuries may be decontaminated (removal of contaminated clothing, brushing off material) prior to treatment and transport. Decontamination proceedings SHALL NOT delay treatment and transport of patients with significant or life-threatening injuries. Treatment of significant injuries is <i>always</i> the priority.</p> <p>Protect from injury.</p> <p>Restrain patient as appropriate for transport.</p>	<p>Monitor EKG Monitor O₂ Saturation Intubate prn IV TKO, adjust prn</p> <p><u>Ingestions</u>: Assure pt has a gag reflex and is cooperative.</p> <p><u>Symptomatic ?OpioidOD (excluding Opioid dependent pain management patients) with airway management problems</u>: Narcan 2 mg IVP/direct IVP/IM: MR to a max of 10mg If patient refuses transport, give additional Narcan 2 mg IM. Note: The ETT dose for Narcan is 2x the IV dose followed by a NS flush.</p> <p><u>Symptomatic ? Opioid OD in Opioid dependent pain management patients with airway management problems</u>: Narcan titrate 0.1 mg up to 2 mg IVP/direct IVP or IM MR</p> <p><u>Organophosphate poisoning</u>: Atropine 2mg IVP/IM. MR q3-10" prn titrate to symptoms</p> <p><u>Extrapyramidal reactions</u>: Benadryl 25-50mg slow IV, or 25-100mg IM</p> <p><u>?Tricyclic OD with cardiac effects (i.e. widened QRS)</u>: NaHCO₃ drip, (50mEq NaHCO₃ in 1L 0.9NS) @200cc/hr.</p> <p><u>?Calcium Channel Blocker or Beta Blocker OD</u>: Glucagon 2 mg IVP, repeat PRN</p>
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Approved:



EMS Medical Director

SUBJECT: AIR MEDICAL TREATMENT PROTOCOL --
PRE-EXISTING MEDICAL INTERVENTIONS

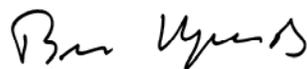
Date: 7/01/2007

BLS

ALS

<p><u>Previously established electrolyte and/or glucose peripheral IV lines:</u></p> <p>Maintain at preset rates. Turn off when indicated.</p> <p><u>Previously applied dermal medication delivery systems:</u></p> <p>Remove dermal NTG when indicated (CPR, shock)</p> <p><u>Previously established medication delivery systems and/or other preexisting treatment modalities with preset rates (non interfacility transport):</u></p> <p>Proceed with transport when person responsible for operating the device (the individual or another person) is able to continue to provide this function during transport.</p> <p>If the person responsible for operating the device is unable to continue to provide this function during transport, contact the BH for direction.</p> <p>BH may ONLY direct BLS personnel to</p> <ol style="list-style-type: none">1. Leave device as found OR turn the device off; THEN,2. Transport patient OR wait for ALS arrival. <p><u>Interfacility Transports:</u></p> <p>No wait period is necessary for routine oral/dermal medications or completed aerosol treatments.</p> <p>Check for prior IV, IM, SQ, and non-routine PO medication delivery to assure minimum wait period of 30".</p> <p>If there is a central line, the tip of which lies in the central circulation, the catheter MUST be capped with a device which occludes the end.</p> <p>IV solutions with added medications OR other ALS treatment/monitoring modalities require ALS personnel (or RN/MD) in attendance during transport.</p>	<p><u>Previously established electrolyte and/or glucose containing IV solutions:</u></p> <p>Adjust rate or D/C prn</p> <p><u>Previously applied topical medication delivery systems:</u></p> <p>Remove dermal NTG or other dermal medications prn</p> <p><u>Pre-existing internal/external vascular access:</u></p> <p>Use at all times as primary access for definitive therapy ONLY.</p> <p><u>Previously established medication delivery systems and/or other preexisting treatment modalities:</u></p> <p>Adjust or D/C prn</p> <p>If no medication label or identification of infusing substances may D/C.</p>
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Approved:



EMS Medical Director

SUBJECT: AIR MEDICAL TREATMENT PROTOCOL --
RESPIRATORY DISTRESS

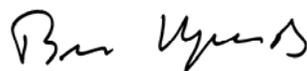
Date: 7/01/07

BLS

ALS

<p>Ensure patent airway</p> <p>Reassurance.</p> <p>O₂ and/or ventilate prn.</p> <p><u>Hyperventilation:</u> Coaching/reassurance. Remove patient from causative environment. Consider ?organic problem.</p> <p><u>Toxic Inhalants (CO exposure, smoke, gas, etc):</u> Consider transport to facility with hyperbaric chamber.</p> <p><u>Known asthmatics:</u> Consider oral hydration</p> <p><u>Respiratory Distress with croup-like cough:</u> Aerosolized Saline or Water via oxygen powered nebulizer/mask.</p>	<p>Monitor EKG Monitor O₂ Saturation. Intubate prn, Consider RSI IV TKO, adjust rate prn</p> <p><u>Respiratory distress with rales (?cardiac origin):</u> NTG 0.4mg SL MRx3 (max 1.6mg) if SBP \geq100mmHg If BP drops precipitously, d/c SL NTG and begin IV Nitro drip 10-20 μg/min, titrate to symptoms</p> <p><u>Respiratory Distress with Bronchospasm (?respiratory etiology):</u> Albuterol 6ml (0.083%) via O₂ powered nebulizer, MR Atrovent 2.5 ml 0.02 % added to first dose of Albuterol via Nebulizer . Epinephrine 1:1,000 0.5mg IM or SC, MR q15" to max 1.5mg -For patients >55 years of age or suspected cardiovascular disease, consider: Terbutaline 0.25mg SC/IM in place of Epinephrine</p> <p>Solumedrol 125mg IVP</p> <p>Consider: Magnesium Sulfate 2G slow IV over 2 min</p> <p><u>Respiratory Distress due to ? Pneumothorax</u> Needle thoracostomy or Chest Tube Insertion</p> <p><u>COPD</u> Albuterol 2.5mg in 3ml HHN, MR prn Atrovent 2.5 ml 0.02 % may be added to first dose of Albuterol via Nebulizer Solumedrol 125mg IV Magnesium Sulfate 2g SIVP over 2 min</p> <p><u>Pulmonary Embolism</u> Consider Morphine 2-5mg or Fentanyl 50-100 mcg IVP for pain, MR maintaining SBP>100mmHg</p>
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Approved:



EMS Medical Director

SUBJECT: AIR MEDICAL TREATMENT PROTOCOL --
SEXUAL ASSAULT

Date: 7/01/2007

BLS/ALS

Ensure patent airway.

O₂ and/or ventilate prn.

Do not allow patient to bathe or change clothes.

Consult with Law Enforcement on scene for evidence collection.

If the patient requires a medical evaluation, transport to the closest, most appropriate facility. Law Enforcement will authorize and arrange an evidentiary exam after the patient is stabilized. If only evidentiary exam is needed, may release to law enforcement for transport to a SART facility

Approved:



EMS Medical Director

SUBJECT: AIR MEDICAL TREATMENT PROTOCOL --
SHOCK

Date: 7/01/2007

BLS

ALS

<p><u>Shock:</u> O₂ and/or ventilate prn. Control obvious external bleeding. Treat associated injuries. NPO, anticipate vomiting. Trendelenburg Remove transdermal NTG</p>	<p>Monitor EKG Monitor O2 Saturation Intubate prn</p> <p><u>Shock (noncardiac):</u> 2 IV's wide open</p> <p><u>Shock: Normovolemia (anaphylactic shock, neurogenic shock, septic shock):</u> IV titrate to BP Dopamine 400mg/250ml, 5-40 mcg/kg/min, titrate to BP >90mmHg systolic</p> <p><u>Shock (?cardiac etiology):</u> IV TKO Consider: Fluid challenge 200ml with clear lungs, MR prn for SBP 90-100mmHg</p> <p>Dopamine 400mg/250ml, 5-20 mcg/kg/min, titrate BP=90-100 mmHg systolic</p> <p><u>Spinal Cord Injury:</u> Fluid bolus 250-500cc, MR to max 2000cc. Consider: -Solumedrol 30 mg/kg IV over 15-30 min, then 5.4mg/kg/hr for 23 hours for patients with GCS ≥13 (contraindicated in Head injury) - Dopamine 400mg/250ml, 5-40 mcg/kg/min, titrate to BP >90mmHg systolic</p>
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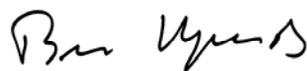
Treat cause of Shock:

Tension Pneumothorax - Needle Thoracostomy or Chest Tube Insertion

Cardiac Tamponade - Pericardiocentesis

Dysrhythmias - per Protocol

Approved:



EMS Medical Director

SUBJECT: AIR MEDICAL TREATMENT PROTOCOL --
TRAUMA

Date: 7/01/07

BLS

Ensure patent airway, protecting C-spine.
Spinal immobilization prn.
O₂ and/or ventilate prn.
Control obvious bleeding.

Abdominal Trauma:

Cover eviscerated bowel with saline pads.

Chest Trauma:

Cover open chest wound with three-sided occlusive dressing;
release dressing if tension pneumothorax develops.

Musculo-Skeletal Trauma:

Splint neurologically stable fractures as they lie. Use traction
splint as indicated.

Grossly angulated long bone fractures with neurovascular
compromise may be reduced with gentle unidirectional traction
for splinting per BHO.

Control hemorrhage with direct pressure and/or elevation of the
extremity.

If amputation of extremity is involved, wrap the amputated part
in saline-moistened gauze and place in watertight bag, then in
container with ice. Do not soak amputated part directly in water
or ice.

Impaled Objects:

Immobilize & leave impaled objects in place.

Remove per BHPO

Exception: may remove impaled object in face/cheek, or from
neck if there is total airway obstruction

Pregnancy of >6mo:

Where spinal immobilization precaution is indicated, tilt on
spine board 30 degrees, left lateral decubitus.

ALS

IV TKO adjust prn
Bilateral IV's wide open for hypovolemic shock
Monitor EKG
Monitor O₂ Saturation
Intubate prn, consider RSI prn

Refer to Pain Management protocol when necessary.

Crush Injury:

IV, adjust rate prn (Fluid bolus prior to extremity
released)

Consider: NaHCO₃ 1mEq/kg IVP

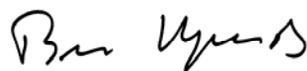
Grossly angulated long bone fractures may be
reduced with gentle unidirectional traction for
splinting

Impaled Objects:

Immobilize & leave impaled objects in place.

Exception: may remove impaled object in
face/cheek or neck if ventilation compromised.

Approved:



EMS Medical Director

BLS

ALS

<p><u>Neurological Trauma (Head and Spine Injuries):</u> Ensure adequate oxygenation without hyperventilating patient.</p> <p>Transport head injured patients with head of bed elevated to 15 degrees when practical.</p> <p><u>Traumatic Arrest:</u> CPR. D/C per <u>BHPO</u>.</p>	<p><u>Neurological Trauma (Head Injuries):</u> If GCS ≤ 8: Intubate – RSI, Ventilate to maintain an $ETCO_2$ of 35mmHg Mannitol 0.5Gm/kg IV over 10-15 min</p> <p><u>Criteria for use</u></p> <ul style="list-style-type: none">• Lateralizing signs• Focal seizures with decreased LOC• Asymmetrical pupillary responses not due to direct ocular trauma or history. <p>Consider NG/OG tube</p> <p>For seizures subsequent to head injury: -Ativan 2-4mg IV or IM</p> <p><u>Spinal Cord Injury:</u> Fluid bolus 250-500cc, MR to max 2000cc.</p> <p><u>Consider:</u> -Solumedrol 30 mg/kg IV over 15-30 min, then 5.4mg/kg/hr for 23 hours for patients with GCS ≥ 13 (contraindicated in Head injury) - Dopamine 400mg/250ml, 5-40 mcg/kg/min, titrate to BP >90mmHg systolic</p> <p><u>Severe Respiratory Distress(with absent breath sounds, hypotension, cyanosis or tracheal deviation)</u> Needle Thoracostomy or Chest Tube Insertion prn</p> <p><u>Severe Respiratory Distress (with complete airway obstruction):</u> Surgical cricothyrotomy/Combitube.</p> <p><u>Traumatic Arrest</u> 2 IV's wide open enroute Consider NG enroute</p> <p>Discontinue resuscitative efforts per policy A-406</p>
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Note: Preserve and transport amputations with patient.

TRANSPORT GUIDELINES:

Routine Disposition-Pediatric patients who meet criteria outlined in T-461 "Identification of the Pediatric Trauma Center Candidate" should be delivered to the Children's Hospital Emergency Department, EXCEPT in the following situations:

1. Adult + Child:

a. If there is a single ambulance (air/ground) with both a pediatric trauma center candidate AND an adult trauma center candidate, the ambulance should first deliver the more critical patient to the appropriate facility (peds-Childrens; adult-Sharp). If both patients are critical, or if there are other questions, both may be delivered to Sharp.

b. Field personnel should consider splitting the team using additional ALS transport vehicles, or aeromedical resources to transport the pediatric patient to Childrens and the adult to the catchment area trauma facility.

2. Bypass/Diversion: If Children's Hospital Trauma Center is "on bypass", pediatric trauma candidates should be delivered to the closest appropriate (i.e. catchment area)facility.

Approved:



EMS Medical Director

SUBJECT: AIR MEDICAL TREATMENT PROTOCOL --
TRIAGE, MULTIPLE PATIENT INCIDENT

Date: 7/01/2007

PROCEDURE:

To direct prehospital personnel during an incident with multiple patients that does not require the activation of Annex D.

BLS/ALS

- A. First in radio person will assume responsibility for all scene communication.
- B. Only one (1) BH will be contacted during the entire incident including during transport.
- C. Prehospital providers will utilize Simple Triage and Rapid Transport (START) guidelines to determine priorities of treatment and transport.
- D. If staffing resources are limited, CPR need not be initiated for arrest victims, however if CPR has been initiated prior to of ALS personnel or briefly during assessment, discontinue only if one of the following occurs or is noted:
 - a) subsequent recognition of obvious death SO
 - b) per BHPO
 - c) presence of valid DNR Form/Order Medallion SO
 - d) lack of response to brief efforts in the presence of any other potentially salvageable patient requiring intervention.*** ALS discontinue resuscitation based on Policy A-406
- E. Split the aeromedical team, contact BH to confirm destination prior to leaving scene or ASAP enroute, SO. (If the aeromedical team is split, each paramedic and/or nurse may still perform ALS duties as per the protocols and their scope of practice). * ***In the event that patients are transported by other than aeromedical team, medical modalities initiated by the aeromedical team can be continued per S-135.***
- F. Radio communication must include the following on each patient:
 - 1. patient number assignment (i.e., #1, #2 . . .)
 - 2. age
 - 3. sex
 - 4. mechanism
 - 5. chief complaint
 - 6. abnormal findings
 - 7. treatment initiated
- G. Assisting medical transporting responders who arrive on scene should refrain from actions which delay rapid transport.

Approved:



EMS Medical Director

SUBJECT: AIR MEDICAL -TREATMENT PROTOCOL -- PAIN MANAGEMENT

Date: 7/01/07

BLS	ALS
<p>Assess level of pain using standardized pain scale provided below</p> <p>Ice, immobilize and splint when indicated</p> <p>Elevation of extremity trauma when indicated</p>	<p>Continue to monitor and reassess pain as appropriate.</p> <p>For treatment of pain with $BP \geq 100$ mmHG:</p> <p>MS 2- 5 mg IV/IM, MR q3-5min, titrating for effect and maintaining SBP>100 and avoiding respiratory depression OR Fentanyl 50-100mcg IV/IO MR, titrating for effect and maintaining SBP>100 and avoiding respiratory depression. IM dose is 100mcg.</p>

Note: These orders may be implemented after the flight crew assesses the level of pain and determines if patient agrees to treatment.

ALL patients with a traumatic or pain-associated chief complaint will have an assessment of level of pain using a standardized pain scale. All patients will be offered treatment for pain, unless contraindicated, and level of pain relief will be assessed after each treatment is given and prior to the end of the run.



Approved:



EMS Medical Director

SUBJECT: PEDIATRIC AIR MEDICAL TREATMENT PROTOCOL --
AIRWAY OBSTRUCTION

Date: 7/01/2007

BLS

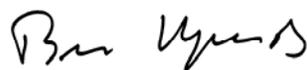
ALS

<p>For a <u>conscious</u> patient: Reassure, encourage coughing. O₂ prn. 5 abdominal thrusts only if complete airway obstruction, MR prn (Chest thrusts in obesity/pregnancy).</p> <p>If patient <u>becomes unconscious OR has a decreasing LOC</u>: 5 abdominal thrusts. MR prn.</p> <p>If patient is <u>unconscious</u> when found: Attempt to ventilate. (Reposition prn). 5 abdominal thrusts prn.</p> <p><u>NOTE</u>: 5 chest thrusts and back blows for infants <1 year, MR prn.</p> <p><u>Once obstruction is removed</u>:</p> <p>High flow O₂, ventilate prn.</p> <p><u>NOTE</u>: If suspected epiglottitis; put patient in sitting position, keep patient calm. Do not visualize the oropharynx Consider humidified O₂ STAT transport.</p>	<p>If patient becomes unconscious or has a decreasing LOC: Direct laryngoscopy and Magill forceps, MR prn.</p> <p>If unsuccessful in removing a complete airway obstruction: Surgical Cricothyrotomy (>5 yo) or Combitube (>15yo).</p> <p>Once obstruction is removed: Monitor EKG, Pulse Oximeter IV TKO</p> <p>For epiglottitis, if airway deterioration is anticipated, Endotracheal intubation using the flex-guide introducer is highly recommended.</p>
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Transport:

STAT transport while continuing thrusts

Approved:



EMS Medical Director

SUBJECT: PEDIATRIC AIR MEDICAL TREATMENT PROTOCOL --
ALTERED NEUROLOGIC FUNCTION

Date: 7/01/2007

BLS

ALS

<p>Ensure patent airway, O₂ and/or ventilate prn. Spinal immobilization when indicated. Secretion problems, position on affected side. Do not allow patient to walk. Restrain prn.</p> <p><u>Hypoglycemia</u> (suspected):</p> <p>If patient is awake and has gag reflex, give 1 packet</p> <p>If patient is not conscious, NPO</p> <p><u>Seizures:</u> Protect airway, and protect from injury Treat associated injuries Spinal immobilization prn. If febrile remove excess clothing.</p> <p><u>Behavioral Emergencies:</u> Restrain only if necessary to prevent injury. If LOC is diminished, use prone or lateral position. Consider law enforcement support.</p>	<p>Identify and treat cause. Intubate prn, consider RSI Monitor EKG, Pulse Oximeter IV TKO, adjust rate prn. Venous/capillary blood sampling.</p> <p><u>Suspected Opiate OD with airway management problems</u> Narcan 0.1mg/kg IV/IM/IO in symptomatic ?opioid OD, excluding opioid dependent pain management patients, MR Note: ET dose is 2x IV dose.</p> <p><u>Hypoglycemia:</u> For <5kg: D₂₅ 1:1 with sterile water For 5-15kg: D₂₅ For >15kg: D₅₀</p> <p>Give 0.5Gm/kg IVP if BS ≤75mg/dl, MR1-2x every 25 min</p> <p>Glucagon 0.5mg IM if no IV access</p> <p><u>Seizures:</u> Ativan 0.1 mg/kg slow IVP or IM, MR up to 4 mg</p>
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Approved:



EMS Medical Director

SUBJECT: AIR MEDICAL TREATMENT PROTOCOL --
PEDIATRIC ALS-ALLERGIC REACTION

Date: 7/01/2007

BLS

ALS

<p>Ensure patent airway.</p> <p>O₂ and/or ventilate prn.</p> <p>Remove sting/injection mechanism.</p> <p>May assist patient with meds, but may NOT administer.</p> <p>Latex Sensitive Patients Should be managed in a latex safe environment without compromising patient care. Prehospital personnel should inform the receiving facility personnel at the time of transfer if they become aware that the patient is latex sensitive.</p> <p>Pediatric patients with a long or complex medical history (such as spina bifida, cerebral palsy, or neurologic disorders) frequently exhibit latex sensitivity. Questions regarding the management of latex sensitive patients should be referred to the Base Hospital.</p> <p>See Management of Latex Sensitive Patients (Equipment List S-105)</p>	<p>Monitor O2 Saturation prn Monitor EKG prn Intubate/Cricothyrotomy (>5yo) for laryngeal edema. IV TKO, adjust rate prn.</p> <p><u>Allergic reaction with no peripheral shutdown or airway obstruction:</u></p> <p><i>In the presence of respiratory distress with bronchospasm:</i></p> <ul style="list-style-type: none">-Albuterol 2.5mg (0.083%) via HHN, MR.-Atrovent 2.5 mls may add to first Albuterol treatment-Epinephrine 1:1000 0.01mg/kg IM or SC (max dose 0.3mg), MR x2 q15min-Benedryl 1mg/kg deep IM or SIVP, max 50mg-Solumedrol 1-2mg/kg IVP <p><u>Allergic Reaction/Anaphylaxis with peripheral shutdown or upper airway obstruction:</u></p> <ul style="list-style-type: none">-Epinephrine 1:10,000 0.01mg/kg IV (max dose 0.3mg), MR x2 for a total max dose 0.9mg <p>OR</p> <ul style="list-style-type: none">-Epinephrine 0.1mg/kg 1:1,000 ET , MR-Benadryl 1mg/kg deep IM or SIVP (not to exceed 50mg).Solumedrol 1-2mg/kg IVP. <p><i>In the presence of respiratory distress with bronchospasm, treat with Albuterol/Atrovent as above</i></p>
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Approved:



EMS Medical Director

SUBJECT: PEDIATRIC AIR MEDICAL TREATMENT PROTOCOL --
DYSRHYTHMIAS

Date: 7/01/2007

BLS

ALS

<p>Assess level of consciousness</p> <p>Determine peripheral pulses</p> <p>Ensure patent airway, ventilate prn</p> <p>CPR when heart rate indicates and patient is unstable:</p> <p><u>Unstable Bradycardia:</u> May include one or more of the following:</p> <p>A. Heart rate: Infant (<1 yr) <80 bpm Child (1-8 yrs) <60 bpm (9-14 yrs) <40 bpm</p> <p>B. Poor Perfusion (cyanosis, delayed capillary refill, mottling)</p> <p>C. Altered LOC, Dyspnea or BP [70+ (2 x age)]</p> <p>D. Diminished or absent peripheral pulses</p> <p>Begin chest compressions if, despite oxygenation and ventilation, the HR remains <60/min.</p> <p>NOTE: ?dehydration may cause tachycardias up to 200/min.</p>	<p>Monitor EKG/ Pulse Oximeter IV TKO, adjust rate prn (May consider intraosseous if unable to start IV line) Intubate prn Insert OG prn</p> <p><u>Unstable Bradycardia:</u> (see definition in left column)</p> <p>Epinephrine 1:10,000, 0.01mg/kg IVP/IO, MR q3-5" OR Epinephrine 1:1000, 0.2mg/kg ET, MR q3-5".</p> <p>If age \geq30days: (after 2nd Epinephrine dose): Atropine 0.02mg/kg IV/IO/ET q5" to a max of 1mg (child) or 2mg (adolescent) absorbed dose (Minimum dose 0.1mg).</p> <p><u>Supraventricular tachycardia (Infants >220bpm Children >180bpm):</u></p> <p>VSM/CSM Adenosine 0.1mg/kg (max 6mg) rapid IVP, follow with 2-3ml NS IVP If not effective, Adenosine 0.2mg/kg (max 12mg) rapid IVP, follow with 2-3ml NS IVP OR -Versed 0.1mg/kg slow IVP/IO max dose 5mg prn sedation precardioversion. -Synchronized cardioversion 0.5-1j/kg, MR with 2j/kg if initial dose is not effective</p>
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Approved:



EMS Medical Director

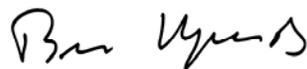
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ALS

<p>O₂, ventilate prn</p>	<p><u>Unstable Ventricular Tachycardia</u></p> <p>-Versed 0.1mg/kg slow IVP/IO max dose 5mg prn sedation precardioversion. -Synchronized cardioversion 0.5-1j/kg, MR with 2j/kg if initial dose is not effective</p> <p>Amiodarone 5mg/kg IV infusion over 20-60 min, MR for total 15mg/kg. If successful, continuous drip Amiodarone 5-10 mcg/kg/min OR Lidocaine 1mg/kg SIVP, MR 0.5mg/kg and follow with Lidocaine drip 1-4mg/min</p>
<p>CPR Ventilate</p>	<p><u>VF/pulseless VT:</u></p> <p>CPR Defibrillate 2joules/kg, 4j/kg, 4j/kg IV NS 20cc/kg bolus IVP/IO, MR</p> <p>Epinephrine 1:10,000, 0.01mg/kg IVP/IO MR q3-5min OR Epinephrine 1:1000, 0.1mg/kg ET followed with 3-5cc NS, MR q3-5".</p> <p>Amiodarone 5mg/kg IV/IO/ET bolus, MR dose to max 15mg/kg OR Lidocaine 1.0mg/kg IVP/IO, MR x1 at 0.5mg/kg in 5-10 min to a maximum of 3mg/kg absorbed dose (including initial bolus). OR Lidocaine 2-3mg/kg ET, MRx1 in 5-10 min to a maximum of 3mg/kg absorbed dose (including initial bolus).</p> <p><u>Post conversion VT/VF (if not already given):</u> For the return of spontaneous perfusing rhythm, consider an IV infusion of the anti-arrhythmic considered to be responsible for the conversion: Amiodarone 5-10 mcg/kg/min IV/IO drip Lidocaine 20-50mg/kg/min IV/IO drip</p>

Discontinue resuscitative efforts based on policy A-406

Approved:



EMS Medical Director

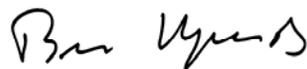
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ALS

<p>CPR Ventilate</p>	<p><u>PEA:</u></p> <p>CPR Determine etiology and treat appropriately IV NS 20cc/kg bolus IVP/IO, MR</p> <p>Epinephrine 1:10,000, 0.01mg/kg IVP/IO, MR q3-5” OR Epinephrine 1:1000, 0.1mg/kg ET, flush with 3-5cc NS, MR q3-5”.</p> <p>Consider: NaHCO₃ 1mEq/kg IVP/IO SIVP for suspected hyperkalemia.</p> <p>If a stable rhythm is restored but hypotension persists, administer Epinephrine 1:10,000, 0.005mg/kg IO/IVP MR q10” OR Consider: Dopamine 2-20 mcg/kg/min of standard concentration</p> <p><u>Asystole:</u></p> <p>CPR IV NS 20cc/kg bolus IVP/IO, MR Epinephrine 1:10,000, 0.01mg/kg IVP/IO, MR q3-5” OR Epinephrine 1:1000, 0.1mg/kg ET diluted in 3-5cc NS, MR q3-5”.</p>
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Discontinue resuscitative efforts based on policy A-406

Approved:



EMS Medical Director

BLS

ALS

<p>O₂ and/or ventilate prn.</p> <p><u>JELLYFISH STING:</u> Rinse with alcohol; do not rub or apply pressure.</p> <p><u>STINGRAY OR SCULPIN INJURY:</u> Heat as tolerated.</p> <p><u>SNAKEBITES:</u> Mark the wound and margin of swelling with time of envenomation. Monitor any increase in swelling. Keep involved extremity below heart level and splint if possible.</p> <p>May apply cool, wet dressing to wound. <u>Do not apply ice.</u></p>	<p>Monitor EKG/ Pulse Oximeter prn Intubate prn IV TKO prn, adjust rate prn</p> <p>Consider appropriate pain management with Morphine or Fentanyl: -Morphine 0.1-0.2 mg/kg IV/IO, MR q3-5min, titrating for effect, max dose 20mg -Fentanyl (>2 years of age) 2-3 mcg/kg IV/IO, MR titrating for effect</p> <p><u>SNAKEBITES:</u> -Treat allergic reactions according to A-262 -Consider pain management as above</p> <p><u>Symptomatic Black Widow Spider Bites:</u> Ativan 0.1mg/kg slow IVP or IM MR to max of 2mg. Calcium Gluconate 1.1-1.5 ml/kg SIVP (max 10ml) Consider pain management as above</p>
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Approved:



EMS Medical Director

SUBJECT: PEDIATRIC AIR MEDICAL TREATMENT PROTOCOL --
POISONING/OVERDOSE

Date: 7/01/2007

BLS

ALS

<p>Ensure patent airway. O₂ and/or ventilate prn</p> <p><u>Ingestions:</u> Identify ingested substance</p> <p>Consider transport LEFT side for ingestions.</p> <p><u>Skin:</u> Remove clothes and brush off, or rinse substance with copious amounts of water.</p> <p><u>Inhalation of Smoke/Gas/Toxic Substance:</u> Move patient to safe environment.</p> <p><u>?Tricyclic OD:</u> Hyperventilate Identify ingested substance.</p> <p>Protect from injury. Restrain patient as appropriate for transport</p>	<p>Monitor EKG. IV TKO, adjust rate prn. Monitor O₂ Saturation prn Intubate prn</p> <p><u>Ingestions:</u> Assure child has gag reflex and is cooperative.</p> <p><u>Symptomatic ? opioid OD (excluding opioid- dependent pain management patients) with airway management problems:</u> Narcan 0.1mg/kg up to a maximum dose of 2 mg direct IVP/IV/IM/IO, MR</p> <p><u>Symptomatic ? opioid OD in opioid -dependent pain management patients with airway management problems:</u> Narcan 0.1mg/kg titrate 0.1mg increments up to a maximum dose of 2 mg direct IVP/IV/IO (dilute IV dose to 10 ml with NS), or IM.</p> <p><u>Organophosphate poisoning:</u> Atropine 0.05mg/kg IVP/IM/IO, MR q3-10" prn OR</p> <p><u>Extrapyramidal reactions:</u> Benadryl 1mg/kg slow IVP/IO/IM, not to exceed 50mg.</p> <p><u>?Tricyclic OD with cardiac effects (i.e. widened QRS) :</u> NaHCO₃ 50mEq in 500cc 0.9NS @ 100cc/hr</p> <p><u>?Calcium Channel Blocker or Beta Blocker OD:</u> Glucagon 2.0 mg IVP, repeat PRN</p>
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Approved:



EMS Medical Director

SUBJECT: **PEDIATRIC AIR MEDICAL TREATMENT PROTOCOL --
NEWBORN DELIVERIES**

Date: 7/01/2007

BLS

BABY:

Keep warm and dry. (WRAP IN WARM DRY BLANKET)
Ensure patent airway.
O₂, ventilate 100% O₂ prn.
Apply an identification band/bracelet.
Document time of delivery.

Routine Delivery:

Suction baby's airway first mouth then nose when head is delivered and prn.
Clamp and cut cord between clamps following delivery
APGAR at 1" and 5".

Meconium delivery:

Additional vigorous suctioning and BVM ventilation may be necessary.
If mechanical suction is used keep pressure between 80 and 100 cm H₂O otherwise use bulb syringe.

Cord wrapped around neck:

Slip the cord over the head and off the neck; clamp and cut the cord if wrapped too tightly.

Prolapsed cord:

Place the mother in shock position with her hips elevated on pillows, or knee chest position. Insert a gloved hand into the vagina and gently push the presenting part off the cord.
TRANSPORT STAT WHILE RETAINING THIS POSITION. DO NOT REMOVE HAND UNTIL RELIEVED BY HOSPITAL PERSONNEL.

Breech Birth:

Allow infant to deliver to the waist without active assistance (support only); when legs and buttocks are delivered, the head can be assisted out. If head does not deliver within 4-6 min, insert a gloved hand into the vagina and create an airway for the infant. Transport STAT if head undelivered.

Premature and/or Low Birth Weight Infants:

STAT transport.
When HR <100bpm, ventilate 100%O₂.
If HR <80bpm p1" ventilation, then CPR.
CPR need NOT be initiated if there are no signs of life AND:
a) weight <500Gm OR,
b) gestational age is <24 weeks, OR,
c) eyelids are fused closed.

ALS

BABY:

Monitor O₂ saturation prn
•If Respiratory rate <20, assist with 100% free flow O₂ or positive pressure ventilation

•If HR 60-100, ventilate with 100% O₂ and reassess in 30 seconds. If HR remains <80bpm after 30 seconds ventilation, begin compressions. After 1 minute with no response, give 0.01 mg/kg IVP Epinephrine 1:10,000.

•If HR <60, ventilate with 100% O₂ and begin compressions. After 1 minute with no response, give 0.01 mg/kg IVP Epinephrine 1:10,000.

NG prn

Premature and low birth weight infants:

Monitor EKG

In the depressed neonate or if known therapeutic use of narcotics prior to delivery, consider:
Narcan 0.1mg/kg IVP

Note: Avoid giving Narcan to an infant whose mother is known to have an opiate addiction.

Disposition: Direct to Labor/Delivery area
Note: If time allows, place identification bands on mother and infant

Approved:



EMS Medical Director

SUBJECT: PEDIATRIC AIR MEDICAL TREATMENT PROTOCOL --
RESPIRATORY DISTRESS

Date: 7/01/2007

BLS

ALS

<p>Ensure patent airway. Dislodge any airway obstruction. Transport in position of comfort. Reassurance.</p> <p>O₂ and/or ventilate prn.</p> <p><u>Hyperventilation:</u> Coaching/reassurance. Remove patient from causative environment. Consider ?organic problem.</p> <p><u>Toxic Inhalants (CO exposure, Smoke, Gas, etc):</u> Move patient to a safe environment 100% O₂ via mask Consider transport to facility with hyperbaric chamber.</p> <p><u>Respiratory Distress with Croup-like Cough:</u> Aerosolized Epinephrine via oxygen powered nebulizer/mask.</p>	<p>Monitor EKG Monitor O₂ saturation prn. Intubate prn, consider RSI. IV TKO, adjust rate prn.</p> <p><u>Respiratory Distress with Bronchospasm(?respiratory etiology):</u> Albuterol 2.5mg in 3ml via O₂ powered nebulizer MR. Atrovent 2.5ml, 0.02% via O₂ powered nebulizer with first dose Albuterol.</p> <p><i>If severe respiratory distress with bronchospasm or inadequate response to Albuterol/Atrovent consider:</i></p> <p>Epinephrine 0.01mg/kg 1:1,000 IM or SC (max 0.3mg), MR x2 for max 0.9mg Solumedrol 1-2mg/kg IV. Consider: Magnesium Sulfate 25-50 mg/kg IV over 20 minutes to max of 2 Gm.</p> <p><u>Respiratory Distress due to ?Pneumothorax</u> Needle thoracostomy or chest tube insertion.</p> <p><u>Complete Airway Obstruction(as last resort effort):</u> Surgical cricothyrotomy (>5yo).</p>
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NOTE: If history suggests epiglottitis, do NOT visualize airway. If airway deterioration is anticipated, Endotracheal intubation using the flex-guide introducer is highly recommended.

Approved:



EMS Medical Director

SUBJECT: PEDIATRIC AIR MEDICAL TREATMENT PROTOCOL --
SHOCK (non traumatic)

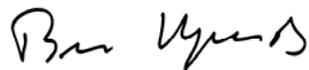
Date: 7/01/2007

BLS

ALS

Assess level of consciousness	IV TKO, Adjust prn
Ensure patent airway, O ₂ and assist ventilation.	Monitor EKG
Determine peripheral pulses and capillary refill.	Monitor O ₂ Saturation
Control hemorrhage	Intubate prn
Protect from injury	Fluid challenge: 20 ml/kg IV for shock. MR if no known history of heart disease.
	Consider: Dopamine 2-20mcg/kg/min IV drip, adjust to maintain BP.

Approved:



EMS Medical Director

SUBJECT: PEDIATRIC AIR MEDICAL TREATMENT PROTOCOL --
TRAUMA

Date: 7/01/2007

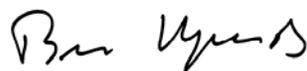
BLS

ALS

<p>Ensure patent airway, protecting C-spine. Spinal immobilization prn. O₂ and/or ventilate prn. Control obvious bleeding</p> <p><u>Abdominal Trauma:</u> Cover eviscerated bowel with saline pads.</p> <p><u>Chest Trauma:</u> Cover open chest wound with three-sided occlusive dressing; release dressing if? tension pneumothorax develops.</p> <p><u>*Musculo-Skeletal Trauma:</u> Splint neurologically stable fractures as they lie. Use traction splint as indicated</p> <p>Grossly angulated long bone fractures with neurovascular compromise may be reduced with <u>gentle</u> unidirectional traction for splinting per BHO.</p> <p>Control hemorrhage with direct pressure an/or elevation of the extremity.</p> <p>If amputation of extremity is involved, wrap the amputated part in saline-moistened gauze and place in watertight bag, then in container with ice. Do not soak amputated part directly in water or ice.</p> <p><u>Impaled Objects:</u> Immobilize & leave impaled objects in place. Remove per <u>BHPO</u> Exception: may remove impaled object in face/cheek, or from neck if there is total airway obstruction</p> <p><u>Neurological Trauma (Head and Spine Injuries):</u> Assure adequate ventilation without hyperventilation.</p>	<p>IV TKO, adjust prn, Monitor EKG/ Pulse Oximeter Intubate prn; consider RSI for GCS ≤8. <u>Refer to Pain Management protocol when appropriate</u></p> <p><u>Crush Injury:</u> IV, adjust prn (Bolus of 20ml/kg when extremity released) Consider: NaHCO₃ 1mEq/kg IVP</p> <p><u>Hypovolemic Shock</u> NS 20ml/kg IV bolus, MR prn</p> <p>Grossly angulated long bone fractures may be reduced with <u>gentle</u> unidirectional traction for splinting</p> <p><u>Impaled Objects:</u> Immobilize & leave impaled objects in place. May remove impaled object in face/cheek or neck if ventilation compromised.</p> <p><u>Neurological Trauma (Head Injuries)</u> If GCS ≤8: Intubate -RSI, Ventilate to maintain an ETCO₂ of 35mmHg Mannitol 0.5gm/kg IV over 10-15 min</p> <p>Criteria for use:</p> <ul style="list-style-type: none">• Lateralizing motor signs• Focal seizures associated with decreasing LOC• Asymmetrical pupillary responses, not due to direct ocular trauma or history <p>Consider: NG/OG</p> <p>For seizures subsequent to head injury: -Ativan 0.1mg/kg IV or IM, MR to max 4mg</p> <p><u>Spinal Cord Injury:</u> NS 20ml/kg IV fluid challenge, MR Dopamine at 5-20mcg/kg/min titrate to BP systolic 100mm Hg</p> <p>Consider: Solumedrol 30mg/kg IV slowly with GSC>12 (contraindicated in head injury)</p> <p><u>Severe Respiratory Distress (absent breath sounds, hypotension, or cyanosis):</u> Needle thoracostomy or chest tube insertion</p>
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*Preserve and transport amputations with patient

Approved:



EMS Medical Director

SUBJECT: PEDIATRIC AIR MEDICAL TREATMENT PROTOCOL --
TRAUMA

Date: 7/01/2007

<u>Traumatic Arrest:</u> CPR D/C per <u>BHPO</u> .	<u>Severe Respiratory Distress</u> (with complete airway obstruction): Surgical cricothyrotomy (>5y.o.) <u>Traumatic Arrest:</u> 2 IV's 20ml/kg, MR. NG/OG enroute Discontinue resuscitative efforts per policy A-406
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TRANSPORT GUIDELINES:

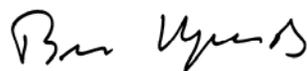
Routine Disposition-Pediatric patients who meet criteria outlined in T-461 "Identification of the Pediatric Trauma Center Candidate" should be delivered to the Children's Hospital emergency department, EXCEPT in the following situations:

1. Adult + Child:

- a. If there is a single ambulance (air/ground) with both a pediatric trauma center candidate AND an adult trauma center candidate, the ambulance should first deliver the more critical patient to the appropriate facility (peds-Children's; adult-Sharp). If both patients are critical, or if there are other questions, both may be delivered to Sharp.
- b. Field personnel should consider splitting the team using additional ALS transport vehicles, or aeromedical resources to transport the pediatric patient to Children's and the adult to the catchment area trauma facility.

2. **Bypass/Diversion:** If the designated pediatric trauma center is "on bypass", pediatric trauma candidates should be delivered to the Level I adult designated trauma facility (UCSD).

Approved:



EMS Medical Director

BLS

ALS

<p>Move to a safe environment.</p> <p>Remove contact with burning agent.</p> <p>Ensure patent airway, O₂ and/or ventilate prn.</p> <p>Treat other life threatening injuries.</p> <p><u>THERMAL BURNS:</u> Burns of <5% BSA apply clean, cool saline dressings to help alleviate pain and protect the wound.</p> <p>For burns of \geq 10% BSA, cover with <u>dry</u> dressing and keep warm. Cover all other burns with dry, sterile sheets. Do not pack burns in ice or break blisters.</p> <p>Do not allow patient to become hypothermic.</p> <p><u>CHEMICAL BURNS:</u> Flush liquid chemicals with copious amounts of water. Brush off dry chemicals, then flush with copious amounts of water..</p> <p><u>TAR BURNS:</u> Cool with water, transport; do not remove tar.</p>	<p>Monitor EKG Monitor O₂ Saturation Intubate prn</p> <p>IV of warmed NS 20cc/kg/hr</p> <p><u>Burns without respiratory involvement:</u> MS 0.1-0.2 mg/kg increments IVP/IM or SC , maintain SBP >90. OR Fentanyl (>2yo) 2-3 mcg/kg IVP, MR titrating as needed for effect with SBP>90.</p> <p><i>In the presence of respiratory distress with bronchospasm:</i></p> <p>Albuterol 2.5mg 3ml 0.083% via Nebulizer MR Atrovent 2.5ml 0.02% added to first dose of Albuterol</p>
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Note: Base hospital Contact and Transport (Per S-415) Will be made to UCSD Base Hospital for patients meeting burn center criteria.

Every effort should be made to maintain as clean of an environment as possible, and when practical, the use of additional protective gear should be utilized.

BURN CENTER CRITERIA: Patients with burns involving:

- \geq 10% 2nd or 5% 3rd degree of BSA
- suspected respiratory involvement or significant smoke inhalation in a confined space
- significant injury of the face, hands, feet or perineum or circumferential
- significant electrical injury due to high voltage (> than household current/110 volts)

Disposition: Hyperbaric chamber for suspected CO poisoning.

Approved:



EMS Medical Director

**SUBJECT: PEDIATRIC AIR MEDICAL TREATMENT PROTOCOL –
 PAIN MANAGEMENT**

BLS

ALS

Assess level of pain	Continue to monitor and reassess pain as appropriate.
Immobilize/splint when indicated	For treatment of pain: MS 0.1-0.2 mg/kg IV/IO, MR q3-5 min, max dose 20mg, titrating for effect and maintaining SBP>90. May be given IM/SC 0.1-0.2 mg/kg, MR q15min to max dose 20mg.
Ice/elevation when indicated	OR Fentanyl (>2yo) 2-3 mcg/kg IV/IO, per pediatric drug chart. MR, titrating for effect and maintaining SBP>90

Note: These orders may be implemented after the paramedic assesses the level of pain and determines if patient agrees to treatment.

ALL patients with a traumatic or pain-associated chief complaint will have a paramedic assessment of level of pain using a standardized pain scale. All patients will be offered treatment for pain, unless contraindicated, and level of pain relief will be assessed after each treatment is given and prior to the end of the run.

The parenteral dose relative strength of MS is 1/3 the oral dose of MS.



Approved:

Ben Myers
 EMS Medical Director

SUBJECT: PARAMEDIC TRAINING PROGRAM
STUDENT ELIGIBILITY

Date: 7/01/2010

- I. **Authority:** Health and Safety Code, Division 2.5, Sections 1797.208 and 1797.214.
- II. **Purpose:** To establish the minimum Paramedic Training Program student eligibility requirements.
- II. **Policy:**
- A. To be eligible to enter an approved Paramedic training program, an individual shall meet all the following requirements:
1. Possess a high school diploma or GED certificate.
 2. Possess a current health care provider or professional rescue CPR card (AHA/ARC).
 3. Possess a current EMT or Advanced EMT (AEMT) certificate.
 4. Have the equivalent of at least six months experience in the provision of emergency care in the prehospital setting as an EMT or AEMT.
 4. Pass, by predetermined standards, a pre-entrance examination.
 5. Meet requirements of affiliated clinical or field agencies which may include but not be limited to:
 - a. DOJ Criminal background check
 - b. FBI background check
 - c. DMV ambulance driver's license with current and valid Medical Examiner's certification
-

Document revised 7/1/2010
Approved:


Administration


EMS Medical Director

SUBJECT: PARAMEDIC TRAINING PROGRAM
STUDENT ELIGIBILITY

Date: 7/01/2010

- d. Immunizations
 - e. Drug screens
- B. The minimum requirements identified in this policy shall not preclude paramedic training programs from requiring additional prerequisites, admission procedures, etc. as part of the application process.

Document revised 7/1/2010
Approved:


Administration


EMS Medical Director

**SUBJECT: PARAMEDIC TRAINING PROGRAM REQUIREMENTS
AND PROCEDURES FOR APPROVAL/REAPPROVAL**

Date: 7/01/2010

- I. **Authority:** Health and Safety Code, Section 1797.208, Division 2.5.
- II. **Purpose:** To establish a mechanism for application and approval/reapproval of Paramedic training programs in San Diego County.
- III. **Policy:**
 - A. All Paramedic training programs must meet requirements as set forth in the California Code of Regulations, Title 22, Division 9, Chapter 4.
 - B. All Paramedic training programs must go through the process of licensing and accreditation through the Commission on Accreditation of Education Programs for the Emergency Medical Services Professions (CoAEMSP) and maintain such accreditation for reaccreditation in San Diego County.
 - C. All Paramedic training programs must have approval from the County of San Diego Emergency Medical Services (EMS) prior to the program being offered.
 - D. Program approval shall be for two years following the effective date of approval, and may be renewed every two years subject to the procedure for program approval.
 - E. All approved Paramedic training programs shall be subject to periodic review by EMS and may also be reviewed by the State of California EMS Authority. This review may involve periodic review of all program materials, and periodic on-site evaluations.
 - F. Noncompliance with any criterion required for program approval, use of any unqualified teaching personnel, or noncompliance with any other applicable

Document revised 7/1/2010
Approved:


Administration


Medical Director

**SUBJECT: PARAMEDIC TRAINING PROGRAM REQUIREMENTS
AND PROCEDURES FOR APPROVAL/REAPPROVAL**

Date: 7/01/2010

provision of Title 22, Division 9, Chapter 4 of the California Code of Regulations may result in suspension or revocation of program approval by EMS. An approved Paramedic training program shall have no more than 60 days from date of written notice to comply with the regulations.

IV. Procedure:

- A. To receive initial program approval, all requesting Paramedic training programs shall submit proof of accreditation and all materials requested on the "CHECK LIST: PARAMEDIC TRAINING PROGRAM APPLICATION" (see attached).
- B. Program approval or disapproval shall be made in writing by EMS to the requesting training program within a reasonable period of time after receipt of all required documentation. This period of time shall not exceed three months.
- C. EMS shall establish the effective date of program approval in writing upon the satisfactory documentation of compliance with all program requirements.

IV. Program Renewal

- A. Submit approval from CoAEMSP with letter of intent to continue to offer Paramedic training.
- B. Submit any changes in staff or training location.

Document revised 7/1/2010
Approved:


Administration


Medical Director

Materials to be Submitted	Check One		
	Enclosed	To Follow	For County Use Only
1. Documentation of eligibility for program approval. 100148(i)			
2. A statement verifying that the course content is equivalent to the U.S. Department of Transportation EMT-P National Standard Curriculum. 100153(b1)			
3. Letter to paramedic training approving authority requesting approval. 100153(a)			
4. Check list for paramedic program approval.			
5. Completed application form for program approval.			
6. Program Medical Director qualification form and job description. 100149(a)			
7. Program Course Director qualification form and job description. 100149(b)			
8. Program Principal Instructor(s) qualification form and job description. 100149(c)			
9. Teaching Assistant(s). 100149(d) Submit names and subjects assigned to each Teaching Assistant and job description.			
10. Field Preceptor(s). Submit names, qualifications and job description. 100149(e)			
11. Hospital Clinical Preceptor(s). Qualifications form and job description. 100149(f)			
12. Copy of written agreements with (one or more) hospital(s) to provide clinical experience. 100151(c)			
13. Provisions for supervised hospital clinical training including student evaluation criteria, and copy of standardized forms for evaluating EMT-P students and monitoring of preceptors by the training program. 100153(b5)			
14. Copy of written agreement with (one or more) paramedic service provider(s) to provide field experience. 100152(b)			

Materials to be Submitted	Check One		
	Enclosed	To Follow	For County Use Only
15. Provisions for supervised field internship including student evaluation criteria and copy of standardized forms for evaluating EMT-P students and monitoring of preceptors by the training program. 100153(b6)			
16. Course curriculum, including: A. Course outline B. Statement of course objectives C. At least 6 sample lesson plans D. Performance objectives for each skill E. At least 10 samples of written questions used in periodic testing F. Final skills exam			
17. Completed course content checklist			
18. Class schedules: Places and dates, estimate if necessary. 100153(b7)			
19. Copy of course completion record. 100161			
20. Copy of liability insurance on students.			
21. Copy of fee schedule.			
22. Description of how program provides adequate facilities, equipment, examination security and student record-keeping. 100152			

COUNTY OF SAN DIEGO EMERGENCY MEDICAL SERVICES
APPLICATION FORM
EMT-P TRAINING PROGRAM

1. Name of Institution/Agency _____

Street _____

City _____

Zip Code _____

Telephone Number _____

Extension _____

2. Personnel:

Program Medical Director _____

Course Director _____

Principal Instructor(s) _____

Teaching Assistants

Name

Subjects Assigned

Name	Subjects Assigned
_____	_____
_____	_____
_____	_____
_____	_____

Field Preceptors

Name : _____ Agency: _____

Paramedic License: _____ -Date of original licensure: _____

Preceptor class Y N (circle one)

Name ; _____ Agency: _____

Paramedic License: _____ -Date of original licensure: _____

Preceptor class Y N (circle one)

Name ; _____ Agency: _____

Paramedic License: _____ -Date of original licensure: _____

Preceptor class Y N (circle one)

Name ; _____ Agency: _____

Paramedic License: _____ -Date of original licensure: _____

Preceptor class Y N (circle one)

Name ; _____ Agency: _____

Paramedic License: _____ -Date of original licensure: _____

Preceptor class Y N (circle one)

COUNTY OF SAN DIEGO EMERGENCY MEDICAL SERVICES
EMT-P TEACHING QUALIFICATIONS

Check One:

- Program Director
- Principal Instructor
- Clinical Preceptor
- Field Preceptor
- Teaching Assistant

1. Name: _____

2. Occupation: _____

3. Professional or Academic Degrees Held:
Number(s):

4. Professional License/Cert

a. _____

a. _____

b. _____

b. _____

c. _____

c. _____

5. California Teaching Credentials Held:

a. Type: _____

Expiration Date: _____

b. Type: _____

Expiration Date: _____

6. Emergency Care-Related Education within the last 5 years:

<u>Course Title</u>	<u>School</u>	<u>Course Length</u>	<u>Date Completed</u>
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a.

b.

c.

7. Emergency Care-Related Experience within the last 5 years:

<u>Position</u>	<u>Duties</u>	<u>Organization</u>	<u>Dates</u>
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a.

b.

c.

Approvals:

Medical Director

Course Director

Date

**SUBJECT: GUIDELINES FOR PLACEMENT OF PARAMEDIC INTERNS
IN SAN DIEGO COUNTY**

Authority: Health and Safety Code, Division 2.5, Sections 1797.208, 1797.210.

Purpose: To assist with the clinical and field internship placement of paramedics trained in agencies outside of San Diego County and to enable the quality management of paramedic internships.

Policy:

- A. All paramedic students trained in agencies outside of San Diego County, who will seek an internship with a San Diego County Paramedic Agency will submit the completed Application for Internship Placement form accompanied by the following documentation as well as obtain an out-of-county trained intern number for use in the QCS:
1. Proof of completion of didactic portion of the paramedic-training program.
 2. Proof of five medically supervised intubations during clinical training.
 3. Proof of completion of the Paramedic Local Accreditation class.
 4. Copy of current ACLS card.
 5. Current CPR card.
 6. Current EMT-1 certification.
- B. All Out-of-County Paramedic Training Agencies seeking to place students in San Diego shall contact County of San Diego, EMS Branch to notify of potential student placement in San Diego County.

Approved:


Administration


EMS Medical Director

**SUBJECT: GUIDELINES FOR PLACEMENT OF PARAMEDIC INTERNS
IN SAN DIEGO COUNTY**

-
1. Call the County of San Diego, EMS office, (619-285-6429) to speak with the Training Agency Coordinator to verify availability for internship placement in the County.
 2. Supply a fully executed copy of a contract with the provider agency/hospital that will be accommodating the paramedic intern. This contract will outline the process for monitoring the paramedic intern as well as the process that will be followed should it be necessary to terminate the internship.
 3. List on training agency letterhead, the name(s) of the student(s), the Provider agency/hospital in which the internship will be done, the name(s) of the preceptor(s) and the training agency contact information for all instructors who will be involved with intern(s) placed in San Diego County.

Approved:



Administration



EMS Medical Director

SUBJECT: MOBILE INTENSIVE CARE NURSE – AUTHORIZATION/REAUTHORIZATION

Date: 07/01/07

- I. **Authority:** Health and Safety Code, Division 2.5, Sections 1797.56, 1797.213, and 1797.214.
- II. **Purpose:** To define the process of Mobile Intensive Care Nurse (MICN) authorization and reauthorization.
- III. **Policy:** To become authorized as a MICN in San Diego County, the following requirements must be met:
- A. Authorization process:
1. The candidate for initial authorization must:
 - a. Be a Registered Nurse currently licensed in the State of California.
 - b. Possess a current ACLS course completion card.
 - c. Have received instruction in the following subjects pertinent to the MICN role (recommended minimum 30 hours of training).
 - (1) The MICN in the emergency medical service (EMS) system.
 - (2) Field assessment and reporting.
 - (3) Shock.
 - (4) Pharmacology.
 - (5) Respiratory emergencies.
 - (6) Cardiac emergencies.
 - (7) Neurological emergencies.
 - (8) Soft tissue emergencies.
 - (9) Musculoskeletal emergencies.
 - (10) Other medical emergencies.
 - (11) Obstetric emergencies.

Approved:


Administration


Medical Director

SUBJECT: MOBILE INTENSIVE CARE NURSE – AUTHORIZATION/REAUTHORIZATION

Date: 07/01/07

- (12) Pediatric emergencies.
 - (13) Geriatric emergencies.
 - (14) Behavioral emergencies.
 - (15) Multiple trauma and triage.
 - (16) Sudden Infant Death Syndrome (SIDS)
 - (17) County of San Diego Policies, Procedures and Protocols.
- d. Complete and submit proof of an internship consisting of:
- (1) A Base Hospital orientation which includes the observation of paramedic functions on a minimum of three Paramedic responses which demonstrate advanced life support (ALS) skills.
 - (2) Observation of medical direction of patient care via direct voice communication with field personnel by a MICN/Base Hospital Physician for a minimum of 10 Paramedic calls under the supervision of the Base Hospital Nurse Coordinator or designee.
- e. Successfully pass the MICN authorization examination, by predetermined standards, approved by the County of San Diego EMS Medical Director. If unsuccessful, the candidate may repeat the exam twice. If unsuccessful after three test sessions, the candidate must complete a remedial course of instruction prior to retest.

Approved:


Administration


Medical Director

SUBJECT: MOBILE INTENSIVE CARE NURSE – AUTHORIZATION/REAUTHORIZATION

Date: 07/01/07

- f. Submit an application form containing a statement that the individual is not precluded from authorization for reasons defined in Section 1798.200 of the Health and Safety Code, proof of internship, documentation of successful completion of MICN Exam, and the established fee for testing and/or authorization.
2. Authorization periods shall end on either March 31 or September 30 of each year, up to, but not exceeding, 2 full years from the date of issue.
- B. Reauthorization Process:
1. To be eligible for reauthorization, a currently authorized MICN shall:
 - a. Submit a completed County of San Diego EMS application form and pay the established fee.
 - b. Provide documentation of attendance of 24 hours of multi-disciplinary prehospital continuing education, approved by a Base Hospital or the County of San Diego EMS Agency, every 2 years. The course objectives for these courses shall be directly related to the MICN role. Course content may include, but is not limited to, case-based presentations, trends in prehospital care, protocol and policy review, and current concepts in prehospital care. Participation in courses with nationally standardized curricula, such as ACLS, PALS, PEPP or TNCC, do not qualify for MICN reauthorization credit.

Approved:


Administration


Medical Director

SUBJECT: MOBILE INTENSIVE CARE NURSE -- AUTHORIZATION/REAUTHORIZATION

Date: 07/01/07

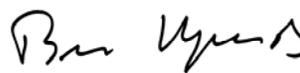
2. Individuals who have let their MICN authorization lapse shall be eligible for reauthorization upon completion of the following:
 - a. For a lapse of less than 90 days, the applicant must meet the requirements of Section III. B.1, a & b of this policy.
 - b. For a lapse of greater than 90 days, but less than one year, the applicant must additionally meet the requirements of Section III. A. 1. d. (2). of this policy.
 - c. For a lapse of greater than one year, the applicant must additionally meet the requirement in Section III. A. 1. e. of this policy.
3. The EMS Branch reserves the right to require periodic mandatory training on new skills, protocols and policies or remedial training as a condition of continued authorization.
4. The EMS Branch reserves the right to withdraw or retract authorization pending resolution of disciplinary issues.

C. Discipline

Disciplinary proceedings, including the right to withdraw or retract authorization pending resolution of disciplinary issues, will be at the discretion of the County of San Diego EMS Medical Director, according to the circumstances of the case.

Approved:


Administration


Medical Director

SUBJECT: PARAMEDIC ACCREDITATION

Date: 7/01/2010

- I. **Authority:** Health and Safety Code, Division 2.5, Sections 1797.185 and 1797.214.
- II. **Purpose:** To establish a mechanism for a paramedic to become accredited to practice in San Diego County.
- III. **Definition:** Accreditation is authorization by the Medical Director of the County of San Diego Emergency Medical Services (EMS) agency to practice paramedic skills within a specific jurisdiction as required by a specific local EMS agency. Accreditation allows local EMS agencies to ensure that paramedics are trained in the optional skills and oriented to the local system.
- IV. **Policy:** A paramedic must be accredited by the County of San Diego, Health and Human Services Agency, Emergency Medical Services Branch (EMS) in order to practice as a paramedic in San Diego County.
- A. In order to be eligible for initial accreditation an individual shall:
1. Possess a current, valid California paramedic license.
 2. Complete and submit an application for accreditation to EMS.
 3. Successfully complete an accreditation workshop as prescribed by EMS. This workshop shall not be less than six (6) hours nor exceed 12 hours in length, and will include:
 - a. Orientation to the local EMS system policies, procedures and protocols, radio communications, hospital/facility destination policies/practices, and other unique system features.
 - b. Training and/or testing in any optional procedures authorized by the County of

Document revised 7/1/2010

Approved:


Administration


EMS Medical Director

San Diego EMS Medical Director, in which the individual has not been trained or tested.

4. Provide documentation of training or testing from another jurisdiction for local optional scope items.
 5. Pay the established accreditation fee to EMS.
 6. Possess a current Advanced Cardiac Life Support (ACLS) course completion card.
- B. Initial accreditation shall be effective for two years, or until the expiration date of the California paramedic license, whichever is earlier.
1. If the paramedic accreditation applicant does not complete accreditation requirements within thirty calendar days, then the applicant must complete a new application and pay a new fee to begin another thirty-day period.
 2. A paramedic may apply for initial accreditation no more than three times in a twelve-month period.
- C. Provisional Accreditation
1. Paramedics who have completed all requirements for initial accreditation other than the orientation requirement (IV.A.3. above) may be accredited on a provisional basis for up to 90 days pending the completion of the San Diego County Accreditation Workshop.
 2. Provisional accreditation may be extended only with special authorization from the County of San Diego EMS Medical Director.
 3. Provisional accreditation status shall be allowed only once for a paramedic.

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Administration


EMS Medical Director

4. Individuals with provisional accreditation must:

- a. Work solely within the California paramedic Scope of Practice.
- b. Work as a second paramedic, only with a fully accredited (non-provisional) San Diego County paramedic.

D. Continued accreditation (re-accreditation)

Accreditation to practice shall be continuous as long as EMS requirements are met.

These requirements are as follows:

1. Possession of a valid California paramedic license, **and**
2. Maintenance of current ACLS training (every two years).

E. Accreditation Lapse

Individuals who have allowed their paramedic accreditation to lapse for greater than one year shall, in addition to the requirements listed above in Section IV. D, successfully complete the examination portion of the Accreditation Workshop and pay the established accreditation fee to EMS.

F. EMS shall notify individuals applying for accreditation of the decision to accredit within 30 days of submission of a complete application.

G. EMS shall submit the names and dates of accreditation of all individuals it accredits to the EMS Authority, within twenty working days of accreditation.

H. During an interfacility transfer, an individual who is accredited as a paramedic in one jurisdiction may utilize the paramedic scope of practice in another jurisdiction according to the policies and procedures established by the accrediting local EMS agency.

Document revised 7/1/2010

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Administration


EMS Medical Director

SUBJECT: PARAMEDIC ACCREDITATION

Date: 7/01/2010

- I. During a mutual aid response into another jurisdiction, a paramedic may utilize the paramedic scope of practice according to the policies and procedures established by the accrediting local EMS agency.
- J. EMS reserves the right to require periodic mandatory training on new skills, training on new or revised protocols, or remedial training as a condition of continued accreditation.
- K. EMS reserves the right to withdraw or restrict accreditation pending resolution of disciplinary issues, in accordance with state disciplinary regulations and local policy.

Document revised 7/1/2010

Approved:



Administration



EMS Medical Director

SUBJECT: DESIGNATION OF AUTHORIZED EMERGENCY MEDICAL
SERVICES CONTINUING EDUCATION PROVIDERS

Date: 3/01/2011

- I. **Authority:** Health and Safety Code, Division 2.5, Sections 1797.214, 1797.220, California Code of Regulations, Title 22, Chapter 11.
- II. **Purpose:** To establish a mechanism by which providers of continuing education may be designated an "authorized provider" of emergency medical services (EMS) continuing education (CE) in San Diego County.
- III. **Definition:** Authorized Emergency Medical Services (EMS) Provider of Continuing Education (CE) – Authorized EMS Provider of CE means an individual or organization who meets the requirements of California Code Of regulations (CCR), Title 22, Chapter 11, and is approved to conduct continuing education courses, classes, activities or experiences, and to issue earned continuing education hours to EMS Personnel for the purposes of maintaining certification/licensure or re-establishing lapsed certification or licensure within the state of California.
- IV. **Policy:** The County of San Diego, Health and Human Services Agency, Emergency Medical Services Branch (County EMS) will approve, for the purposes of recertification, relicensure, reaccreditation, or reauthorization, those CE activities sponsored by providers who are designated by EMS as authorized providers of CE and who comply with San Diego County policies, procedures, and guidelines for EMS CE providers.
- A. In order to become designated as an authorized provider of EMS CE in San Diego County, applicants must:
1. Complete an application form and submit it, with appropriate documentation and fees, to County EMS at least sixty days prior to the date of the first educational activity. San Diego County Base Hospitals are exempt from the fee. The form

Document revised 3/1/2011

Approved:



Administration



EMS Medical Director

**SUBJECT: DESIGNATION OF AUTHORIZED EMERGENCY MEDICAL
SERVICES CONTINUING EDUCATION PROVIDERS**

Date: 3/01/2011

-
- must indicate whether the applicant is applying for approval to offer courses for basic life support (BLS) personnel and/or advanced life support (ALS) personnel or both.
2. Agree to comply with all guidelines pertaining to authorized EMS CE providers. For all providers, these guidelines are described in the County of San Diego EMS Guidelines for Authorized Emergency Medical Services Continuing Education Provider manual, available at the County EMS office.
 3. Provider applicants must designate the certification level(s) of their intended CE participants (ALS or BLS). Approval may be granted for only one certification level (BLS versus ALS/BLS) if the applicant cannot document their ability and resources to provide CE at all levels. This approval level may be adjusted after initial approval provided that the authorized provider can demonstrate that it has the requisite equipment and materials to provide this education in accordance with the guidelines.
- B. County EMS shall approve or disapprove the CE request within 60 days of receipt of the completed request.
1. Within fourteen working days of receipt of a request for approval, County EMS will notify the CE provider that the request has been received, and shall specify what information is missing, if any.
 2. If the request is approved, County EMS will issue a CE provider number.
 3. If the request is denied, County EMS will notify the applicant in accordance with in accordance with applicable provisions of CCR, Title 22, Chapter 11.

Document revised 3/1/2011

Approved:



Administration



EMS Medical Director

**SUBJECT: DESIGNATION OF AUTHORIZED EMERGENCY MEDICAL
SERVICES CONTINUING EDUCATION PROVIDERS**

Date: 3/01/2011

-
- C. Designation as an authorized provider shall be for a four-year period, after which each provider must reapply. To maintain continuous approval the renewal application must be submitted at least sixty days prior to the CE provider expiration date.
 - D. Authorized providers are subject to periodic reviews of course outlines, attendance records, instructor qualifications, or other material pertaining to courses presented by the provider for CE credit. County EMS staff will conduct these reviews.
 - E. Noncompliance with any criterion required for CE provider approval, use of any unqualified teaching personnel, or noncompliance with any other applicable provision of state or local regulations may result in denial, probation, suspension or revocation of CE provider approval by County EMS, in accordance with CCR, Title 22, Chapter 11.

Document revised 3/1/2011

Approved:



Administration



EMS Medical Director

SUBJECT: CONTINUING EDUCATION FOR PREHOSPITAL PERSONNEL

Date: 7/01/2010

- I. **Authority:** Health & Safety Code Section 1797.214, 1797.220,
- II. **Purpose:** To identify the scope and role of the San Diego County emergency medical services (EMS) continuing education (CE) program for prehospital personnel.
- III. **Policy:**
 - A. The CE program for prehospital personnel shall be recognized as an important link in the San Diego County system-wide quality improvement process, and will receive oversight from the EMS Medical Director (or designee).
 - B. The CE program shall be implemented in accordance with Title 22, Division 9, Chapter 11 of the California Code of Regulations.
 - C. Within the requirements of San Diego policies regarding Paramedic accreditation, EMT-B certification, and MICN authorization, the County of San Diego, EMS branch will accept CE activities approved by other California local EMS agencies (or through their approved providers of CE), for recertification/authorization/accreditation purposes or re-establishing lapsed certification or licensure.
 - D. The County of San Diego, EMS Branch shall publish and maintain the Guidelines for Authorized Providers of Continuing Education for Personnel in San Diego County manual and make that manual available to approved providers and potential providers. The manual shall identify the requirements for the provider designation and renewal process, guidelines for qualifications of program personnel, specific guidelines for course approval, and other material specific to designated CE providers.
 - E. EMS shall maintain a list of current approved CE providers, including the contact person for the program, approval issue date and expiration date, and assigned provider number.

Document revised 7/1/2010

Approved:



Administration



EMS Medical Director

- F. CE activities offered by San Diego EMS approved providers, in accordance with San Diego guidelines, shall be considered to be "approved" by County of San Diego EMS.
- G. In addition to approval for CE activities presented by approved providers, EMS may, at its discretion, award CE credits for other activities not presented by approved providers. These include (but are not limited to) the following:
1. Nationally Recognized Curricula. - Programs offered using nationally recognized curricula, such as the Red Cross/Heart Association CPR-C program, Prehospital Trauma Life Support (PHTLS), or ACLS may be utilized for recertification/licensure purposes regardless of the provider's CE Providership status. It will be the responsibility of the participant to maintain a course completion record and course outline that indicates the total hours of the individual's participation (in activities relevant to the individual's level) for audit purposes.
 2. National Standard Curriculum refers to the curricula developed under the auspices of the United States Department of Transportation, National Highway Traffic Safety Administration for the specified level of training of EMS Personnel.
- H. The EMS Branch will not pre-authorize course outlines from non-approved CE Providers to determine their possible acceptance for recertification purposes. Nationally recognized curricula presented by non-providers may be accepted and approved by the County, but individual courses, conferences, or other activities will not be recognized if they are not sponsored and approved by an authorized provider.
- I. EMTs who have attended courses from non-providers (except in the case of a course using a nationally recognized course curriculum) must submit ALL OF THE FOLLOWING AT THE TIME OF RECERTIFICATION/REACCREDITATION if they wish

Document revised 7/1/2010

Approved:



Administration



EMS Medical Director

recertification credit:

1. Title of course, name of instructor, location, and telephone number of presenter.
2. Date of course, course outline, course learning objectives and a copy of course evaluation form.
3. The number of hours of information/experience relevant to EMT activities.

The EMT should be informed that there is no guarantee of acceptance of these courses for recertification. EMTs are reminded that extra activities may be required for recertification if the hours from a non-provider are rejected by the EMS Branch.

- J. EMS will NOT review individual courses offered by non-approved providers for Paramedic CE credit. Paramedics wishing credit for activities sponsored by organizations located in California counties other than San Diego County should contact that county's local EMS agency. Paramedics should contact the California EMS Authority for information on approval for courses offered by providers from out of state.
- K. EMS maintains the authority to approve continuing education activities, which may exceed the scope of the CE Guidelines Manual published by EMS. Any such determination by EMS is solely at its discretion.

Document revised 7/1/2010

Approved:



Administration



EMS Medical Director

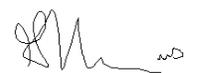
**SUBJECT: PUBLIC SAFETY AUTOMATED EXTERNAL DEFIBRILLATOR
TRAINING PROGRAM STUDENT ELIGIBILITY**

Date: 07/01/05

- I. **Authority:** Health and Safety Code, Division 2.5, Sections 1797.170, 1797.196, 1797.208 and 1797.214.
- II. **Purpose:** To establish the minimum requirements for Public Safety (PS) Automated External Defibrillator (AED) Training Program student eligibility.
- III. **Policy:** To be eligible to enter an approved PS AED Training Program, an individual shall meet all the following requirements:
 - A. Successfully complete an approved Public Safety First-Aid Course.
 - B. Possess a current CPR Card (Health Care Provider/Professional Rescuer or equivalent).

Approved:


Administration


Medical Director

SUBJECT: PUBLIC SAFETY AUTOMATED EXTERNAL DEFIBRILLATOR
TRAINING PROGRAM REQUIREMENTS

Date: 07/01/05

- I. **Authority:** Health and Safety Code, Division 2.5, Sections 1797.170, 1797.206, 1797.208 and 1797.214, California Code of Regulations, Title 22, Chapter 1.5, Sections 100020, 100021.
- II. **Purpose:** To establish standardized Public Safety (PS) Automated External Defibrillator (AED) curriculum and program approval requirements.
- III. **Policy:**
- A. San Diego County Emergency Medical Services (EMS) shall approve PS AED Training Programs.
- B. Program approval or disapproval shall be made in writing by EMS to the requesting training program within a reasonable period of time, not to exceed thirty (30) days, after receipt of all required documentation.
- C. Program approval shall be renewed every four (4) years.
- IV. **Procedure:**
- A. The requesting training agency shall submit to EMS the following materials to be considered for program approval:
1. Outline and objectives for the minimum four (4) hour PS AED training course, to include:
 - a. Proper use, maintenance and periodic inspection of the automated external defibrillator (AED).
 - b. The importance of defibrillation, advanced life support (ALS), adequate airway care, and internal emergency response system, if applicable.

Approved:

Pat Memi

Administration

[Signature]

Medical Director

**SUBJECT: PUBLIC SAFETY AUTOMATED EXTERNAL DEFIBRILLATOR
TRAINING PROGRAM REQUIREMENTS**

Date: 07/01/05

- c. Overview of the EMS system, the local EMS system's medical control policies, 9-1-1 access, and interaction with EMS personnel.
- d. Assessment of an unconscious patient, to include evaluation of airway, breathing, and circulation to determine cardiac arrest.
- e. Information relating to AED safety precautions to enable the individual to administer a shock without jeopardizing the safety of the patient or rescuers or other nearby persons.
- f. Recognition that an electrical shock has been delivered to the patient and that the AED is no longer charged.
- g. Rapid, accurate assessment of the patient's post-shock status.
- h. The appropriate continuation of care following a successful defibrillation.

Approved:

Pat Menni

Administration

[Signature]

Medical Director

SUBJECT: PUBLIC SAFETY AUTOMATED EXTERNAL
DEFIBRILLATOR ACCREDITATION

Date: 07/01/05

- I. **Authority:** Health and Safety Code, Division 2.5, Sections 1797.170, 1797.208, 1797.210, 1797.214, 1797.220, 1798.102 and 1798.104.
- II. **Purpose:** To establish the requirements for Public Safety (PS) Automated External Defibrillator (AED) accreditation in San Diego County.
- III. **Policy:** Public Safety personnel must be accredited by San Diego County Emergency Medical Services (EMS) in order to use the Automated External Defibrillator (AED) skill in San Diego County.
 - A. To become PS AED accredited in San Diego County, the following criteria must be met:
 1. Possess a current CPR card (Health Care Provider/Professional Rescuer or equivalent).
 2. Possess documentation of successful completion of an approved Public Safety First Aid Course.
 3. Possess a valid PS AED Course Completion record from an approved PS AED Training Program.
 4. Be affiliated with an approved PS AED agency in San Diego County.
 - B. The following continuing education (CE) requirements must be met to maintain PS AED accreditation:
 1. Demonstrate skills proficiency annually, at a minimum.
 2. Adherence to the CE requirements rests on the Physician Medical Director or designee to which the accredited PS AED is assigned.
 - C. Deactivation/Reactivation Process:

Approved:

Pat Mami

Administration

[Signature]

Medical Director

SUBJECT: PUBLIC SAFETY AUTOMATED EXTERNAL
DEFIBRILLATOR ACCREDITATION

Date: 07/01/05

1. PS AED accreditation will become inactive for:
 - a. Failure to comply with CE requirements.
 - b. Failure to maintain current CPR card.
 - c. No longer affiliated with a PS AED agency.
2. The Physician Medical Director or designee shall be responsible for notifying EMS of PS AED personnel who are placed in inactive status on the first day of the following month.
3. Inactive status due to CE delinquency: The employing agency shall be responsible for notifying the employee and assuring inactive status until the CE delinquency is resolved and verified by the Physician Medical Director or designee.
4. Inactive status due to failure to maintain certification(s):
 - a. Employing agency shall monitor status of employee certification(s).
 - b. Employing agency shall notify the Physician Medical Director or designee of the agency of inactive status due to lapse in certification(s).
 - c. The employing agency shall be responsible for notifying the employee and assuring inactive status until certification issue(s) resolved.
5. Reactivation Process:
 - a. A PS AED on inactive status may be reactivated by fulfilling the following requirements:

Approved:

Pat Mami

Administration

[Signature]

Medical Director

SUBJECT: PUBLIC SAFETY AUTOMATED EXTERNAL
DEFIBRILLATOR ACCREDITATION

Date: 07/01/05

- 1) Inactive status due to CE delinquency -- shall be resolved to the satisfaction of the Physician Medical Director or designee.
 - 2) Inactive status due to failure to maintain current First Aid/CPR certification--submit proof of current PS First Aid/CPR certification/training to employer.
- b. The Physician Medical Director or designee shall be responsible for notifying EMS of PS AED personnel who are removed from inactive status on the first day of the following month.

Approved:

Pat Mami

Administration

[Signature]

Medical Director

**SUBJECT: PERILARYNGEAL AIRWAY ADJUNCTS TRAINING PROGRAM
REQUIREMENTS**

Date: 7/01/2010

- I. **Authority:** Health and Safety Code, Division 2.5, Sections 1797.170, 1797.206, 1797.208, 1797.214 and 1797.218.
- II. **Purpose:** To establish a standardized Perilaryngeal Airway Adjunct Skills curriculum and program approval requirements.
- III. **Policy:**
 - A. County of San Diego, Emergency Medical Services (EMS) shall approve EMT Perilaryngeal Airway Adjunct Skills training programs prior to the program being offered. To receive program approval, requesting training agencies and CE providers must apply for approval to EMS and submit all materials listed in the sections below.
 - B. Program approval or disapproval shall be made in writing by EMS to the requesting training program within a reasonable period of time, not to exceed 30 days after receipt of all required documentation.
 - C. All approved EMT Perilaryngeal Airway Adjunct skills training programs shall be subject to periodic review including, but not limited to:
 1. Periodic review of all program materials.
 2. Periodic on-site evaluation by EMS.
 - D. Noncompliance with any criterion required for program approval, use of any unqualified teaching personnel, or noncompliance with any other applicable provision of the above may result in withdrawal, suspension or revocation of program approval by EMS.

Document revised 7/1/2010

Approved:



Administration



Medical Director

**SUBJECT: PERILARYNGEAL AIRWAY ADJUNCTS TRAINING PROGRAM
REQUIREMENTS**

Date: 7/01/2010

IV. Definition: "Perilaryngeal Airway Adjuncts" includes Supraglottic Airway Devices and/or Esophageal Tracheal Airway (ETAD) Devices.

V. Procedure:

The requesting training agency or CE provider shall submit to EMS documentation of current program approval and also submit the following materials in order to be considered for PAA program approval:

A. Curriculum course outline and objectives for the seven hour Perilaryngeal airway training program, to include:

1. Anatomy and physiology of the respiratory system.
2. Assessment of the respiratory system.
3. Review of basic airway management techniques, which includes manual and mechanical.
4. The role of the Perilaryngeal airway adjuncts in the sequence of airway control.
5. Indications and contraindications of the Perilaryngeal airway adjuncts.
6. The role of pre-oxygenation in preparation for the Perilaryngeal airway adjuncts.
7. Perilaryngeal airway device insertion and assessment of placement.
8. Methods for prevention of basic skills deterioration.
9. Alternatives to the Perilaryngeal airway adjuncts.

Document revised 7/1/2010

Approved:



Administration



Medical Director

**SUBJECT: PERILARYNGEAL AIRWAY ADJUNCTS TRAINING PROGRAM
REQUIREMENTS**

Date: 7/01/2010

- NOTE: If only one device is taught – course must be a minimum of five hours. If prior training for one device has been completed, an additional two hour device-specific training can be completed. If more than one device is being taught in a single session – 2 hours per additional device must be added to the minimum five hour primary course for a single device.
- B. A standardized competency-based written and skills examination for airway management which shall include the use of basic airway equipment and techniques and use of the Perilaryngeal airway adjuncts.
 - C. List of equipment to be used for skills training.
 - D. Documentation of access to equipment and staff for skills training in sufficient quantities to meet 1:10 teacher/student ratio.

Document revised 7/1/2010
Approved:



Administration



Medical Director

SUBJECT: EMT-BASIC OPTIONAL SKILLS STUDENT ELIGIBILITY

Date: 5/01/09

I. **Authority:** Health and Safety Code, Division 2.5, Sections 1797.107, 1797.170, 1797.214 and 1797.220.

II. **Purpose:** To establish the minimum requirements for Optional Skills Training Program student eligibility.

III. **Policy:**

To be eligible to enter an approved Optional Skills Training Program, an individual shall meet the following requirements:

1. Possess current State of California EMT-Basic Certification and accreditation within the County of San Diego.
2. Possess a current CPR card (Health Care Provider/Professional Rescuer or equivalent).
3. Must be sponsored by an approved local ALS or BLS prehospital provider agency.

Approved:


Administration


Medical Director

SUBJECT: EMT TRAINING PROGRAMS

Date: 7/01/10

- I. **Authority:** Health and Safety Code, Division 2.5, Sections 1797.170, 1797.208 and 1797.214.
- II. **Purpose:** To establish a mechanism for application and approval of EMT training programs in San Diego County.
- III. **Policy:**
- A. All EMT training programs must meet the requirements of the California Code of Regulations, Title 22, Division 9, Chapter 2, pertaining to EMT training program approval, and the County of San Diego, Emergency Medical Services (EMS) requirements listed in the attached training program application.
- B. All EMT training programs must have approval of EMS prior to the program being offered. To receive program approval, requesting training agencies must apply for approval to EMS and submit all materials listed on the "Check List: Emergency Medical Technician Training Program Application".
- C. Program approval or disapproval shall be made in writing by EMS to the requesting training program within a reasonable period of time after receipt of all required documentation. This period of time shall not exceed three (3) months.
- D. EMS shall establish the effective date of program approval, in writing, upon the satisfactory documentation of compliance with all program requirements.

Document revised 7/1/2010

Approved:



Administration



Medical Director

SUBJECT: EMT TRAINING PROGRAMS

Date: 7/01/10

- E. Program approval shall be for four (4) years following the effective date of approval and may be renewed every four (4) years, subject to the procedure for program approval specified in Section C above.
- F. All approved EMT training programs shall be subject to periodic review including, but not limited to:
1. Periodic review of all program materials.
 2. Periodic on-site evaluation by EMS.
- G. All approved training programs shall notify EMS, in writing, in advance, when possible, and in all cases, within thirty (30) days of any change in course content, hours of instruction, course director, and program director or program clinical coordinator.
- H. All approved training programs shall report, in writing, the name and address of each person receiving a course completion record and the date of course completion to EMS within fifteen (15) days of course completion.
- I. Noncompliance with any criterion required for program approval, use of any unqualified teaching personnel, or noncompliance with any other applicable provision of the above may result in withdrawal, suspension or revocation of program approval by EMS subject to the provision that an approved EMT training program shall have a reasonable opportunity to comply with these regulations, but in no case shall the time exceed sixty (60) days from date of written notice to withdraw program approval.

Document revised 7/1/2010

Approved:



Administration



Medical Director

COUNTY OF SAN DIEGO EMS AGENCY

APPLICATION FORM

EMERGENCY MEDICAL TECHNICIAN TRAINING PROGRAM

1. Name of Institution Agency _____
Street _____
City _____
Contact Person _____
Telephone Number _____ Extension _____
2. Personnel:
* Program Director () _____
* Clinical Coordinator () _____
* Principal Instructor(s) () _____
** Teaching Assistants () _____
3. Course Hours:
Didactic/Lab (min. 100 hrs.) EMT Course () Refresher () (min. 24 hrs.)
Clinical (min. 10 hrs.) () N/A
4. Units of Credit: _____
5. Text: _____

* Provide qualifications on appropriate forms for each person.
** Provide list of names and lecture subjects.

COUNTY OF SAN DIEGO EMS AGENCY

CHECK LIST: EMERGENCY MEDICAL TECHNICIAN TRAINING PROGRAM APPLICATION

MATERIALS TO BE SUBMITTED		CHECK ONE		
		ENCLOSED	TO FOLLOW	FOR COUNTY USE ONLY
1.	Letter to EMT approving authority requesting approval. 100066(a)			
2.	Check list for EMT Program approval.			
3.	Application Form for Program Approval.			
4.	Program Director Qualification Form. 100070(a)			
5.	Program Clinical Coordinator. Qualification Form 100070(c)			
6.	Principal Instructor Qualification Form. 100070(d)			
7.	Teaching Assistant(s) 100070(e) Submit names and subjects assigned to each Teaching Assistant.			
8.	Copy of written agreement with (1 or more) Acute Care Hospital(s) to provide clinical experience. 100068 and			
9.	Copy of written agreement with (1 or more) ambulance agency(ies) to provide field experience. 100068			
10.	Statement verifying usage of the United States Department of Transportation's EMT-Basic National Standard Curriculum, DOT HS 808 149, August 1994. 100075 (a)			
11.	EMT Course description (100066), including:			
	a. Statement of course objectives			
	b. At least six (6) sample lesson plans			
	c. Course outline			
	d. Performance objectives for each skill			
	e. At least ten (10) samples of written questions and at least six (6) samples of Skills Examinations used in periodic testing			
	f. Final Examination (written and skills).			
12.	Refresher course description (100066), including:			
	a. Statement of course objectives			
	b. At least six (6) sample lesson plans			
	c. Course outline			
	d. Performance objective for each skill			
	e. At least ten (10) samples of written questions and at least six (6) samples of Skills Examinations used in periodic testing			
	f. Samples of Final Examination ten (10) written and six (6) skills questions.			
13.	Class schedules; places and dates (estimate if necessary) a. EMT Course b. Refresher Course			
14.	Copy of Course Completion Certificate 100077 (basic and refresher)			
15.	Copy of liability insurance on students			
16.	Table of contents listing the required information on this application, with corresponding page numbers. 100066(b) (11)			

* Reference to specific Article within California Code of Regulations, Title 22, Division 9, Chapter 2.

COUNTY OF SAN DIEGO EMS AGENCY
EMT INSTRUCTOR QUALIFICATIONS

Institution: _____

Check One
Program Director _____
Clinical Coordinator _____
Principal Instructor _____
Teaching Assistant _____

1. Name: _____

2. Occupation: _____

3. Professional or Academic Degrees Held: 4. Professional License Number(s):

a. _____

a. _____

b. _____

b. _____

c. _____

c. _____

5. Emergency care related education within the last five (5) years:

<u>Course Title</u>	<u>School</u>	<u>Course Length</u>	<u>Date Completed</u>
---------------------	---------------	----------------------	-----------------------

a. _____

b. _____

c. _____

6. Emergency care related experience (academic or clinical) within the last (5) years:

<u>Position</u>	<u>Duties</u>	<u>Organization</u>	<u>Dates</u>
-----------------	---------------	---------------------	--------------

a. _____

b. _____

c. _____

7. On the attached pages, initial to the left each subject this person is assigned to teach.

Approvals:

Program Director

Clinical Coordinator

COUNTY OF SAN DIEGO EMS AGENCY
APPLICATION FORM
EMERGENCY MEDICAL TECHNICIAN TRAINING PROGRAM

List of equipment available in sufficient quantities to meet 1:10 student ratios for skills training (attached).

Equipment	Number Available
a. CPR mannequins, adult and baby	_____
b. Airway management equipment	_____
1. O ₂ cylinders	_____
2. Flowmeter	_____
3. O ₂ masks and nasal cannula	_____
4. Suction equipment	_____
5. Suction tubing	_____
6. Rigid and flexible suction catheters	_____
7. Pocket mask	_____
8. Bag-valve-mask resuscitator	_____
9. Demand-valve-mask resuscitator (optional)	_____
10. Oral and nasal airways of various sizes	_____
11. Combitube	_____
12. Endotracheal tube	_____
c. Traction Splint	_____
d. Extrication device	_____
e. Backboard, head immobilizer cervical collars	_____
f. Obstetrical mannequin and OB kit	_____
g. Tourniquets	_____
h. Various bandages and splints	_____
i. IV tubing and solution – Normal Saline	_____
j. Antishock garment	_____
k. Cardiac monitor (optional)	_____
l. Blood pressure cuffs and stethoscopes	_____
m. Intubation mannequins	_____
n. AED equipment for training	_____
o. Examples of medications in current scope	_____

**SUBJECT: EMERGENCY MEDICAL TECHNICIAN (EMT)
CERTIFICATION/RECERTIFICATION**

Date: 7/01/2010

- I. **Authority:** Health and Safety Code, Sections 1797.170, 1797.175 and 1797.210.
- II. **Purpose:** To establish the requirements for EMT certification/recertification in the County of San Diego.
- III. **Policy:**
 - A. To be eligible for certification as an EMT in San Diego County, the candidate must meet the following criteria:
 1. **Initial Certification:**
 - a. Must be 18 years of age or older.
 - b. Must hold a valid EMT Course Completion Record from an approved EMT course.
 - c. Must hold a current EMT National Registry Card.
 - d. Must possess a current CPR Card (Health Care Provider/Professional Rescuer or equivalent).
 - e. Must submit to a California Department of Justice Live scan and Federal Bureau of Investigation criminal background check (separate from any agency requirement).
 - f. Application for certification must be made within two (2) years of being issued an EMT Course Completion record.
 2. **Recertification:**
 - a. Hold a Current EMT Certificate in the State of California.
 - b. Successfully complete an approved refresher course within the two (2) years prior to application for recertification, or

Document revised 7/1/2010

Approved:



Administration



EMS Medical Director

**SUBJECT: EMERGENCY MEDICAL TECHNICIAN (EMT)
CERTIFICATION/RECERTIFICATION**

Date: 7/01/2010

- c. Complete 24 hours of approved continuing education (CE) within two (2) years prior to application for recertification.
 - d. Present a current CPR Card (Health Care Provider/Professional Rescuer or equivalent).
 - e. Submit to a California Department of Justice Live scan and Federal Bureau of Investigation criminal background check if not yet completed for County of San Diego EMS.
 - f. Submit a complete skills competency verification form.
3. Lapse in Certification:
- a. For a lapse within six months, the individual shall comply with the original requirements for re-certification.
 - b. For a lapse of six months or more, but less than twelve months, the individual shall comply with the original requirements for recertification and complete an additional twelve hours of continuing education for a total of 36 hours of training.
 - c. For a lapse of twelve months or more, but less than 24 months, the individual shall comply with the original requirements for recertification and complete an additional twenty-four hours of continuing education, for a total of 48 hours of training, and present a current National Registry Card.
 - d. For a lapse of greater than twenty-four months the individual shall complete an entire EMT course and comply with the original requirements for initial certification.

B. Notification responsibilities:

Document revised 7/1/2010

Approved:



Administration



EMS Medical Director

**SUBJECT: EMERGENCY MEDICAL TECHNICIAN (EMT)
CERTIFICATION/RECERTIFICATION**

Date: 7/01/2010

The EMT shall be responsible for notifying County of San Diego EMS of her/his proper and current mailing and residential address and shall notify County of San Diego EMS in writing within thirty (30) calendar days of any and all changes of the mailing and residential address, giving both the old and the new address, and California Emergency Medical Services Authority (EMSA) EMT central registry number.

- C. An application for certification or recertification shall be denied without prejudice and does not require an administrative hearing, when an applicant does not meet the requirements for certification or recertification, including but not limited to:
1. Failure to pass certification or recertification examination.
 2. Lack of sufficient continuing education or documentation of a completed refresher course.
 3. Failure to furnish additional information or documents requested by the certifying entity.
 4. Failure to pay any required fees.
- D. The denial shall be in effect until all requirements for certification or recertification are met. If a certificate expires before recertification requirements are met, the certificate shall be deemed a lapsed certificate and subject to the provision pertaining to lapsed certificates. An individual who is a member of the reserves and is deployed for active duty with a branch of the Armed Forces of the United States, whose California EMT certificate expires during the time the individual is on active duty or less than six (6) months from the date the individual is deactivated/released from active duty, may be given an extension of the expiration date of the individual's EMT certificate for up to six

Document revised 7/1/2010

Approved:



Administration



EMS Medical Director

SUBJECT: EMERGENCY MEDICAL TECHNICIAN (EMT)
CERTIFICATION/RECERTIFICATION

Date: 7/01/2010

(6) months from the date of the individual's EMT certificate upon compliance with the following provisions:

1. Provide documentation from the respective branch of the Armed Forces of the United States verifying the individual's dates of activation and deactivation/release from duty.
2. If there is no lapse in certification, meet the requirements for recertification. If there is a lapse, meet the requirements of a lapsed certification.
3. Provide documentation showing that the CE activities submitted for the certification renewal period were taken not earlier than thirty (30) calendar days prior to the effective date of the individual's EMT certificate that was valid when the individual was activated for duty and not later than six (6) months from the date of deactivation/release from duty.
4. For an individual whose active duty requires the use of EMT skills, credit may be given for documented training that meets the requirements of Chapter 11, EMS CE Regulations (Division 9, Title 22, California Code of Regulations) while the individual was on active duty. The documentation shall include verification from the individual's Commanding Officer attesting to the classes attended.

Document revised 7/1/2010

Approved:



Administration



EMS Medical Director

SUBJECT: **ADVANCED EMT TRAINING PROGRAMS**

Date: 7/01/10

- I. **Authority:** Health and Safety Code, Division 2.5, Sections 1797.107, 1797.171, 1797.200, 1797.208, 1797.218 and 1798.
- II. **Purpose:** To establish a mechanism for application and approval of Advanced Emergency Medical Technician (AEMT) training programs in San Diego County.
- III. **Policy:**
 - A. AEMT training programs must meet the requirements of the California Code of Regulations, Title 22, Division 9, Chapter 3, pertaining to AEMT training program approval, and the County of San Diego, Emergency Medical Services (EMS) requirements listed in the attached training program application.
 - B. Students accepted into AEMT training will already have a year's experience as an EMT, preferably with 911 responses, as a minimum requirement for enrollment in AEMT course.
 - C. AEMT training programs must have approval of EMS prior to the program being offered. To receive program approval, requesting training agencies must apply for approval to EMS and submit all materials listed on the "Advanced Emergency Medical Technician (AEMT) Training Program Application".
 - D. Program approval or disapproval shall be made in writing by EMS to the requesting training program within a reasonable period of time after receipt of all required documentation. This period of time shall not exceed three (3) months.
 - E. EMS shall establish the effective date of program approval, in writing, upon the satisfactory documentation of compliance with all program requirements.
 - F. Program approval shall be for four (4) years following the effective date of

Document revised 7/1/2010

Approved:



Administration



Medical Director

SUBJECT: ADVANCED EMT TRAINING PROGRAMS

Date: 7/01/10

approval and may be renewed every four (4) years, subject to the procedure for program approval specified in Section C above.

- G. Approved AEMT training programs shall be subject to periodic review including, but not limited to:
1. Periodic review of all program materials.
 2. Periodic on-site evaluation by EMS.
- H. Approved training programs shall notify EMS, in writing, in advance, when possible, and in all cases, within thirty (30) days of any change in course content, hours of instruction, course director, and program director or program clinical coordinator.
- I. Approved training programs shall report, in writing, the name and address of each person receiving a course completion record and the date of course completion to EMS within fifteen (15) days of course completion.
- J. Noncompliance with any criterion required for program approval, use of any unqualified teaching personnel, or noncompliance with any other applicable provision of the above may result in withdrawal, suspension or revocation of program approval by EMS subject to the provision that an approved AEMT training program shall have a reasonable opportunity to comply with these regulations, but in no case shall the time exceed sixty (60) days from date of written notice to withdraw program approval.

Document revised 7/1/2010

Approved:



Administration



Medical Director

COUNTY OF SAN DIEGO EMS AGENCY

APPLICATION FORM

ADVANCED EMERGENCY MEDICAL TECHNICIAN TRAINING PROGRAM

1. Name of Institution/Agency _____
Street _____
City _____
Contact Person _____
Telephone Number _____ Extension _____
2. Personnel:
 - * Program Medical Director () _____
 - * Course Director () _____
 - * Principal Instructor(s) () _____
 - ** Teaching Assistants () _____
 - * Field Preceptors () _____
 - * Hospital Clinical Preceptors () _____
3. Course Hours (min. 88 hr.):
 - Didactic/Lab (min. 48 hrs.) () _____
 - Clinical (min. 16 hrs.) () _____
 - Field (min. 24 hrs.) () _____
4. Units of Credit: _____
5. Text: _____

* Provide qualifications on appropriate forms for each person.

** Provide list of names and lecture subjects.

CHECK LIST: ADVANCED EMERGENCY MEDICAL TECHNICIAN TRAINING PROGRAM APPLICATION

MATERIALS TO BE SUBMITTED		CHECK ONE		
		ENCLOSED	TO FOLLOW	FOR COUNTY USE ONLY
1.	Letter to AEMT approving authority requesting approval. 100113*			
2.	Check list for AEMT Program approval.			
3.	Completed application Form for Program Approval.			
4.	Program Medical Director Qualification Form. 100109(a) *			
5.	Program Course Director Qualification Form 100109(b) *			
6.	Principal Instructor Qualification Form. 100109(c) *			
7.	Teaching Assistant(s) 100109(d) Submit names and subjects assigned to each Teaching Assistant.			
8.	Field Preceptor (s) Qualification Form. 100109(e) *			
9.	Hospital Clinical Preceptor(s) Qualification Form 100109(f) *			
10.	Copy of written agreement with (1 or more) Acute Care Hospital(s) to provide clinical experience. 100111*			
11.	Copy of written agreement with (1 or more) Advanced EMT or Paramedic agency(ies) to provide field experience. 100112(b)*			
12.	Statement verifying usage of the State AEMT Model curriculum, EMSA #133.			
13.	Basic course description, including: 100113*			
	a. Statement of course objectives			
	b. At least six (6) sample lesson plans			
	c. Course outline (if different than the State AEMT Basic curriculum format).			
	d. Performance objectives for each skill			
	e. At least ten (10) samples of written questions and at least six (6) samples of Skills Examinations used in periodic testing			
	f. Final Examination (written and skills).			
14.	Class schedules; places and dates (estimate if necessary)			
15.	Copy of Course Completion Certificate			
16.	Copy of liability insurance on students			
17.	Table of contents listing the required information on this application, with corresponding page numbers.			

* Reference to specific Article within California Code of Regulations, Title 22, Division 9, Chapter 3.

Attachment 360-A

COUNTY OF SAN DIEGO EMS AGENCY
AEMT INSTRUCTOR QUALIFICATIONS

Institution: _____

Check One
Course Director _____
Principal Instructor _____
Teaching Assistant _____
Field Preceptor _____
Hospital Preceptor _____

1. Name: _____

2. Occupation: _____

3. Professional or Academic Degrees Held:

4. Professional License Number(s):

a. _____

a. _____

b. _____

b. _____

c. _____

c. _____

5. Emergency care related education within the last five (5) years:

<u>Course Title</u>	<u>School</u>	<u>Course Length</u>	<u>Date Completed</u>
---------------------	---------------	----------------------	-----------------------

a. _____

b. _____

c. _____

6. Emergency care related experience (academic or clinical) within the last (5) years:

<u>Position</u>	<u>Duties</u>	<u>Organization</u>	<u>Dates</u>
-----------------	---------------	---------------------	--------------

a. _____

b. _____

c. _____

7. On the attached pages, initial to the left each subject this person is assigned to teach.

Approvals:

Medical Director

Course Director

COUNTY OF SAN DIEGO EMS AGENCY
APPLICATION FORM
ADVANCED EMERGENCY MEDICAL TECHNICIAN TRAINING PROGRAM

List of equipment available in sufficient quantities to meet 1:10 student ratios for skills training (attached).

	Equipment	Number Available
a.	CPR mannequins, adult and baby	_____
b.	Airway management equipment	_____
	1. O ₂ cylinders	_____
	2. Flow meter	_____
	3. O ₂ masks and nasal cannula	_____
	4. Inhalers/spacers/T-tubes/nebulizers	_____
	5. Suction equipment	_____
	6. Suction tubing	_____
	7. Rigid and flexible suction catheters	_____
	8. Pocket mask	_____
	9. Bag-valve-mask resuscitator	_____
	10. Demand-valve-mask resuscitator (optional)	_____
	11. Oral and nasal airways of various sizes	_____
	11. Perilaryngeal Airway Adjuncts	_____
c.	Tourniquets	_____
d.	Various bandages and splints	_____
e.	IV tubing and solution – Normal Saline	_____
f.	Capillary Finger-stick blood draw equipment	_____
g.	IV catheters	_____
h.	IV saline locks	_____
i.	Vacutainers & Blood tubes	_____
j.	Blood glucose testing equipment	_____
k.	Blood pressure cuffs and stethoscopes	_____
l.	Intubation mannequins	_____
m.	AED equipment for training	_____
n.	Examples of medications in AEMT scope	_____

SUBJECT: **ADVANCED EMT CERTIFICATION/RECERTIFICATION**

Date: 7/01/10

I. **Authority:** Health and Safety Code, Sections 1797.170, 1797.175, 1797.210 and 1798.

II. **Purpose:** To establish the requirements for Advanced Emergency Medical Technician (AEMT) certification/recertification in San Diego County.

III. **Policy:**

A. To be eligible for certification as an AEMT in San Diego County, the candidate must meet the following criteria:

1. **Initial Certification:**

- a. Possess a current EMT certificate issued in the State of California.
- b. Must hold a valid AEMT course completion record from an approved AEMT training program.
- c. Pass, by pre-established standards developed and/or approved by the AEMT certifying authority, a competency-based written and skills certifying examination.
- d. Completion of a statement that the individual is not precluded from certification for reasons defined in Section 1798.200 of the Health and Safety Code.
- e. Completion of an AEMT certification application form.
- f. Must submit to a Live-scan criminal background check from the California Department of Justice and FBI Criminal background check for County of San Diego, EMS Branch (separate from any agency requirement), if not previously submitted.
- g. Must submit a photograph for identification purposes.
- h. Application for certification must be made within one (1) year of being issued an

Document revised 7/1/2010

Approved:



Administration



EMS Medical Director

SUBJECT: ADVANCED EMT CERTIFICATION/RECERTIFICATION

Date: 7/01/10

AEMT Course Completion record.

- i. For out-of-county applicants, AEMTs will successfully complete an accreditation workshop as prescribed by County of San Diego EMS. This workshop shall not be less than six (6) hours nor exceed 12 hours in length, and will include:

- (1) Orientation to the local EMS system policies, procedures and protocols, radio communications, hospital/facility destination policies/practices, and other unique system features.
- (2) Training and/or testing in any AEMT-specific procedures authorized by the County of San Diego EMS Medical Director, in which the individual has not been trained or tested.

2. Recertification:

- a. Hold a current AEMT certificate in the State of California.
- b. Successfully complete an approved refresher course within the two (2) years prior to application for recertification, or
- c. Complete 36 hours of approved continuing education (CE) within two (2) years prior to application for recertification.
- d. Present a current CPR Card (Health Care Provider/Professional Rescuer or equivalent).
- e. Submit to a Live-scan from the California Department of Justice and FBI criminal background check if not yet completed for County of San Diego EMS.
- f. Submit a complete skills competency verification form.

3. Lapse in Certification:

Document revised 7/1/2010

Approved:



Administration



EMS Medical Director

SUBJECT: **ADVANCED EMT CERTIFICATION/RECERTIFICATION**

Date: 7/01/10

- a. For a lapse within six months, the individual shall comply with the original requirements for re-certification.
- b. For a lapse of six (6) months or more, but less than twelve (12) months, the individual shall comply with the original requirements for recertification and complete an additional twelve (12) hours of continuing education for a total of forty-eight (48) hours of training.
- c. For a lapse of twelve (12) months or more, but less than twenty-four (24) months, the individual shall comply with the original requirements for recertification and complete an additional twenty four (24) of continuing education, for a total of sixty (60) hours of training, and the individual shall pass the written and skills certification exam mentioned previously in section A.
- d. For a lapse of greater than twenty-four months the individual shall complete the entire AEMT training course and comply with the original requirements for initial certification.

4. Notification responsibilities:

The AEMT shall be responsible for notifying County of San Diego EMS of her/his proper and current mailing and residential address and shall notify County of San Diego EMS in writing within thirty (30) calendar days of any and all changes of the mailing and residential address, giving both the old and the new address, and AEMT registry number.

5. AEMT Certification Denial:

An application for certification or recertification shall be denied without prejudice and

Document revised 7/1/2010

Approved:



Administration



EMS Medical Director

SUBJECT: ADVANCED EMT CERTIFICATION/RECERTIFICATION

Date: 7/01/10

does not require an administrative hearing, when an applicant does not meet the requirements for certification or recertification, including but not limited to:

- a. Failure to pass a certification or recertification examination,
- b. Lack of sufficient continuing education or documentation of a completed refresher course,
- c. Failure to furnish additional information or documents requested by the certifying entity
- d. Failure to pay any required fees

The denial shall be in effect until all requirements for certification or recertification are met. If a certificate expires before recertification requirements are met, the certificate shall be deemed a lapsed certificate and subject to the provision pertaining to lapsed certificates.

Document revised 7/1/2010
Approved:



Administration



EMS Medical Director

**SUBJECT: MANAGEMENT OF CONTROLLED SUBSTANCES
FOR ALS AGENCIES**

Date: 9/1/2010

-
- I. **Authority:** California State Board of Pharmacy Business and Professions Code, Section 4119 and 4126.5, California Code of Regulations, Title 22, Division 2.5, Chapter 3, Section 1797.172, and Chapter 5, Section 1798 through 1798.6, and Title 21, Chapter II of the Code of Federal Regulations, Sections 1301.11; 1301.12; 1301.75; 1301.76; 1301.91; 1301.92; 1304.03; 1304.04; 1304.11; 1304.21; 1304.22; 1307.02; 1307.21; 1305.05
- II. **Purpose:** To ensure accountability for all controlled substances and devices issued to advanced life support (ALS) units.
- III. **Policy:** All Advanced Life Support (ALS) Agencies in the County of San Diego will have a physician registrant to purchase controlled substances with a Drug Enforcement Administration (DEA) Form 222 from a pharmacy, or pharmaceutical supply agency, thereby retaining ownership, accountability and responsibility of those controlled substances. ALS Agencies which do not have a Medical Director may use the County of San Diego EMS Medical Director to assist with the purchase of controlled substances (per Policy S-416) if said agency signs a Memorandum of Agreement with the County of San Diego, for the purchase of Dangerous Drugs and Devices. All ALS agencies will develop policies compliant with Title 21 CFR regulations concerning the procurement, receipt, distribution and waste management of controlled substances managed under their DEA registration number.
- IV. **Definitions:**
- Controlled Substances:** Pharmaceutical drugs categorized as Schedule II, III or IV by the DEA.
- ALS Units** – Ambulances or other emergency vehicles (e.g. engines, trucks etc.) upon

Document revised 9/1/2010

Approved:



EMS Medical Director

**SUBJECT: MANAGEMENT OF CONTROLLED SUBSTANCES
FOR ALS AGENCIES**

Date: 9/1/2010

which paramedics are placed to render ALS care.

V. Procedure:

A. Initial Stocking and resupply of ALS Units:

1. Controlled substances will be ordered by the agency physician registrant and assigned to its ALS Units according to Drug Enforcement regulations.
2. All controlled substances will be issued in tamper evident containers and must be kept under double lock and key system.
3. All ALS agencies will maintain a stock supply of controlled substances at a central location at which all that agency's ALS units must resupply.
4. If any ALS agency wishes to have more than one location from which to stock ALS units, each location will have a separate DEA registration.
5. All locations in an ALS agency shall be under the control of the agency person who is designated to manage the narcotics program at the agency for the Medical Director.
6. All ALS agencies will maintain a secure, double locked location in which to keep the stock supply of the controlled substances. Access to this supply will be strictly limited.
7. All ALS agencies will be subject to at least yearly inspection of the location of the controlled substances and the logs in the storage location, by the physician registrant or designee.

B. Controlled Substance Record keeping by ALS Agency registrants:

1. All ALS agencies will keep a controlled substance log in the secure location that will

Document revised 9/1/2010

Approved:



EMS Medical Director

**SUBJECT: MANAGEMENT OF CONTROLLED SUBSTANCES
FOR ALS AGENCIES**

Date: 9/1/2010

document:

- a. Receiving of the controlled substances.
 - b. Distribution of controlled substances to the units for restock
 - c. Daily count of controlled substances
2. All registered agencies shall maintain the following logs on site for DEA review at any time (n. b. inventory records must be kept separately from the logs):
- a. Initial inventory (documented at the initial registration of the agency)
 - (1) A physical count of all controlled substances in stock, to include on the vehicles is to be taken.
 - (2) Enter this count on an inventory record.
 - b. A biennial inventory is then taken each two years beginning within two years of the initial stocking date.
3. All original controlled substance purchase invoices and executed DEA-222 forms must be kept separately from the daily and maintenance logs.
4. The following logs must be maintained at the agency for a period of not less than 2 years.
- a. Controlled Drug Usage Record
 - b. Controlled Drug Inventory Record
 - c. Records for Schedule II narcotics (Morphine Sulfate, and Morphine Immediate Release Oral Liquid) must be maintained separately from Schedule IV drugs (Midazolam).

C. Record-keeping on ALS Units:

Document revised 9/1/2010

Approved:



EMS Medical Director

**SUBJECT: MANAGEMENT OF CONTROLLED SUBSTANCES
FOR ALS AGENCIES**

Date: 9/1/2010

1. Each ALS Unit shall maintain a standardized written record of controlled drug inventory. That record shall be available to the physician registrant for routine inspection, and shall be maintained by the agency for a period of three (3) years in compliance with the State Board of Pharmacy.
 2. Drugs shall be inventoried by the ALS Personnel at the beginning and at the conclusion of each shift, and documentation shall include the signatures of the person(s) performing the inventory and noted on the controlled drug inventory.
 3. Any time a controlled substance is administered, the name of the drug, the dose administered, the date of administration, the patient name, the name of the licensed person who is administering the medication, the receiving facility and the QCS run number, if available, shall be documented on the controlled drug inventory.
 4. Any medication that has not been completely used must be disposed of in the presence of two medical personnel.
 5. Agency personnel must document any disposed narcotic on the appropriate agency form. This form must document:
 - a. The amount of the medication given to the patient
 - b. The amount of the medication disposed
 - c. The signatures of the two medical personnel who witnessed the disposal.
- D. Management of Inventory Discrepancies
1. Any discrepancy between the written ALS Unit controlled drug inventory and the count of on board or stock supply drugs shall be noted on the controlled drug inventory sheet and shall be signed by the ALS Team first noting the discrepancy.

Document revised 9/1/2010

Approved:



EMS Medical Director

**SUBJECT: MANAGEMENT OF CONTROLLED SUBSTANCES
FOR ALS AGENCIES**

Date: 9/1/2010

That discrepancy shall be verbally reported immediately to the agency person responsible for the narcotics at the agency.

2. Any discrepancy between the inventory and the actual amounts of the narcotics in the stock supply must be reported immediately to the physician registrant, followed by written report to the EMS Branch within 24 hours.
 3. Any discrepancy between the inventory and the actual amounts of the narcotics in the stock supply must be reported to the DEA immediately using form P-106 on the DEA Diversion website (www.deadiversion.usdoj.gov).
 4. Any agency personnel having knowledge of drug diversion must report this situation to the DEA.
- E. Controlled Drug Inspection/Audit of ALS Units:
1. Periodic unannounced inspections or audits of controlled drugs and/or controlled drug inventory shall be conducted no less than once each year by the physician registrant or designee.
 2. The EMS Medical Director or designee may perform announced or unannounced periodic inspections to document compliance with this policy at any time.

Document revised 9/1/2010

Approved:



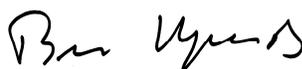
EMS Medical Director

SUBJECT: SCOPE OF PRACTICE OF EMT-PARAMEDIC IN
SAN DIEGO COUNTY

Date: 7/01/2010

- I. **Authority:** Health and Safety Code, Division 2.5, Sections 1797.172 and 1798.
- II. **Purpose:** To identify the scope of practice of Paramedics in San Diego County.
- III. **Policy:**
 - A. A Paramedic may perform any activity identified in the scope of practice of an EMT-1 in Chapter 2 of the California Code of Regulations, Division 9, Title 22.
 - B. A Paramedic student, or a currently licensed Paramedic affiliated with an approved Paramedic service provider, while caring for patients in a hospital as part of his/her training or continuing education, under the direct supervision of a physician, registered nurse, or physician's assistant, or while at the scene of a medical emergency or during transport, or during interfacility transfer, may, in accordance with the County of San Diego Emergency Medical Services Branch (EMS) Policies, Procedures and Protocols, perform the following procedures and administer the following medications:
 1. Perform defibrillation.
 2. Perform synchronized cardioversion.
 3. Visualize the airway by use of the laryngoscope and remove foreign body(ies) with forceps.
 4. Perform pulmonary ventilation by use of the lower airway multi-lumen adjuncts, Perilaryngeal airway, and by adult oral endotracheal intubation (adult and pediatric*).
 5. Institute intravenous (IV) catheters, needles or other cannulae (IV lines) in peripheral veins, institute saline locks, and monitor and administer medications through pre-existing vascular access.

Approved:

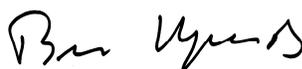

Ben Myers
EMS Medical Director

SUBJECT: SCOPE OF PRACTICE OF EMT-PARAMEDIC IN
SAN DIEGO COUNTY

Date: 7/01/2010

6. Administer intravenous glucose solutions or isotonic salt solutions.
7. Obtain venous blood samples.
8. Perform Valsalva maneuver.
9. Perform nasogastric intubation* and gastric suction*.
10. Perform needle thoracostomy.
11. Monitor thoracostomy tubes.
12. Perform Intraosseous needle placement
12. Monitor and adjust IV solutions containing Potassium equal to or less than 20mEq/L.
13. Perform blood glucose monitoring test.
14. Administer, using prepackaged products when available, the following medications utilizing the listed routes: intravenous, intramuscular, intraosseous*, subcutaneous transcutaneous, rectal, sublingual, endotracheal, oral or topical.
 - a. 25% and 50% dextrose;
 - b. Activated charcoal;
 - c. Adenosine;
 - d. Albuterol;
 - e. Aspirin;
 - f. Atropine sulfate;
 - g. Atrovent (ipratropium bromide); *
 - h. Calcium chloride;
 - i. Diazepam

Approved:


EMS Medical Director

SUBJECT: SCOPE OF PRACTICE OF EMT-PARAMEDIC IN
SAN DIEGO COUNTY

Date: 7/01/2010

- j. Diphenhydramine;
- k. Dopamine hydrochloride;
- l. Epinephrine;
- m. Furosemide;
- n. Glucagon;
- o. Lidocaine hydrochloride;
- p. Midazolam;
- q. Morphine sulfate;
- r. Naloxone hydrochloride;
- s. Nitroglycerine preparations (excluding IV);
- t. Sodium bicarbonate;
- u. Pralidoxime chloride (2 PAM Chloride) –requires completion of specialized training.

(Note: Items identified with an asterisk are included as a local optional paramedic intervention, pursuant to CCR Title 22, Div 9, Sec 100145,c, 2)*

15. Perform any prehospital emergency medical care treatment procedure(s) or administer any medication(s) on a trial basis when approved by the medical director of the local EMS agency. Study procedure shall be as defined in Title 22, Division 9, Chapter 4 of the California Code of Regulations.

Approved:



EMS Medical Director

SUBJECT: PREHOSPITAL DETERMINATION OF DEATH

Date: 7/1/10

I. **Authority:** Health and Safety Code, Division 2.5, Sections 1798 and 1797.220.

II. **Procedure:**

A. When the patient is determined to be "obviously dead", resuscitation measures shall not be initiated.

1. The "obviously dead" are victims who, in addition to absence of respiration and cardiac activity, have suffered one or more of the following:

- a. Decapitation
- b. Evisceration of heart or brain
- c. Incineration
- d. Rigor Mortis
- e. Decomposition

2. Adult blunt traumatic cardiac arrest, with ALL of the following:

- a. No visible signs of life (no spontaneous movement, apneic, pulseless.)
- b. Cardiac rhythm of asystole
- c. Mechanism of injury consistent with injuries

3. The EMT shall describe the incident and victim's condition on the Prehospital Patient Record clearly stating the reasons that life support measures were not initiated

B. All patients with absent vital signs, shall be treated with resuscitative measures, unless they are "obviously dead (A.1.) or adult with blunt trauma arrest (A.2.). The Base Hospital Physician may make pronouncement of death by radio communication.

Document revised 7/1/2010
Approved:


Administration


EMS Medical Director

SUBJECT: PREHOSPITAL DETERMINATION OF DEATH

Date: 7/1/10

- C. In multi-patient incidents, where staffing resources are limited, CPR need not be initiated for arrest victims, however, if CPR has been initiated prior to the arrival of ALS personnel or briefly during assessment, discontinue only if one of the following occurs or is present:
1. Subsequent recognition of obvious death
 2. Per BHPO
 3. Presence of valid DNR Form/Order, Medallion, Advanced Health Care Directive, or Physician Orders for Life-Sustaining Treatment (POLST) form indicating "Do Not Resuscitate."
 4. Lack of response to brief efforts in the presence of any other potentially salvageable patient requiring intervention.
- D. Except for signs of obvious death, if CPR has been initiated, BLS should be continued while contact is established with the Base Hospital.
1. Once the patient has been pronounced by the Base Hospital Physician, the EMT shall discontinue resuscitative efforts and she/he may contact the Medical Examiner.
 2. The EMT shall describe the incident and the patient's condition on the Prehospital Patient Record, clearly stating the circumstances under which resuscitative efforts were terminated, to include the name of the Base Hospital Physician who pronounced the patient, and all available EKG monitoring documentation.
 3. Patients placed in an ambulance or undergoing ambulance transport in CPR status may be pronounced by a Base Hospital Physician Order (BHPO). Criteria to pronounce may include:
 - a. Medical futility

Document revised 7/1/2010
Approved:


Administration


EMS Medical Director

SUBJECT: PREHOSPITAL DETERMINATION OF DEATH

Date: 7/1/10

- b. Latent discovery of a valid DNR
 - c. Development of obvious signs of death
 - d. Social concerns on scene such as large gatherings, unattended children, highly visible public settings, sensitive family contacts or crew safety or inclement weather, which may require transport of a patient who would otherwise be pronounced on scene.
4. Disposition of patients pronounced in an ambulance:
- a. Deliver the deceased to the closest appropriate BEF and have the deceased logged in as an Emergency Department (ED) patient.
 - b. Turn over will be given to the ED staff. The Prehospital Patient Record (PRP) and all personal belongings will be left with the deceased.
 - c. The receiving facility will assume responsibility for the deceased and contact the Medical Examiner and Life Sharing Community Organ Donation, if appropriate, and provide any necessary social services for the family.
- E. For patients with valid "Do Not Resuscitate" orders, follow procedures as established in County of San Diego EMS Policy S-414.

Document revised 7/1/2010
Approved:


Administration


EMS Medical Director

SUBJECT: PHYSICIAN ON SCENE

Date: 7/01/2010

- I. **Authority:** Health and Safety Code, Division 2.5, Sections 1798 and 1798.6.
- II. **Purpose:** To establish a mechanism for prehospital patient care when a Physician-on-Scene offers assistance to the Paramedic.
- III. **Policy:**
The Paramedic may only follow orders from a Base Hospital Physician or authorized RN (MICN).
- IV. **Procedure:**
 - A. Paramedics to facilitate immediate consultation with Base Hospital Physician by providing radio or phone contact.
 - B. Base Hospital Physician shall relay information of Attachment A to Physician-on-Scene.
 - C. If Physician-on-Scene chooses to take total responsibility for the patient:
 1. Base Hospital Physician may request proof of State of California licensure to be shown to paramedics.
 2. Base Hospital Physician must approve or deny a Physician-on-Scene's request to take total responsibility for patient.
 3. The Paramedic may assist the Physician-on-Scene with EMT level skills.
 4. Drugs and equipment may be made available for the Physician-on-Scene's use.
 - D. Paramedic/MICN shall document Physician-on-Scene's name and on scene involvement on the patient care record.

Document revised 7/1/2010

Approved:



Medical Director

ATTACHMENT A

NOTE TO PHYSICIAN ON INVOLVEMENT WITH EMT-PARAMEDICS

An ALS support team (EMT-Paramedic) operates under standard policies and procedures developed by the local EMS agency and approved by their Medical Director under the authority of Division 2.5 of the California Health and Safety Code. The drugs they carry and procedures they can do are restricted by law and local policy.

If s/he wants to assist, this can only be done through one of the alternatives listed. These alternatives have been endorsed by CMA, State EMS Authority, CCLHO and BMQA.

Assistance rendered in the endorsed fashion, without compensation, is covered by the protection of the "Good Samaritan Code" (see Business and Professions Code, Sections 2144, 2395-2398 and Health and Safety Code, Section 1799.104).

ENDORSED ALTERNATIVES FOR PHYSICIAN INVOLVEMENT

After identifying yourself to the paramedic by name as a physician licensed in the State of California, and consulting with the Base Hospital physician and, if requested, showing proof of identity, you may choose to do one of the following:

1. Offer your assistance with another pair of eyes, hands, or suggestions, but let the life support team remain under base hospital control; or,
2. Take total responsibility for the care given by the life support team and physically accompany the patient until the patient arrives at a hospital and responsibility is assumed by the receiving physician. In addition, you must sign for all instructions given in accordance with local policy and procedure. (Whenever possible, remain in contact with the base station physician.)

The California Health and Safety Code, Division 2.5, Chapter 5, Section 1798.6 (a) states as follows:

Authority for patient health care management in an emergency shall be vested in that licensed or certified health care professional, which may include any paramedic or other prehospital emergency personnel, at the scene of the emergency who is most medically qualified specific to the provision of rendering emergency medical care. If no licensed or certified health care professional is available, the authority shall be vested in the most appropriate medically qualified representative of public safety agencies who may have responded to the scene of the emergency.

A key phrase in this is "...who is most medically qualified specific to the provision of rendering emergency care." The most medically qualified person certainly ought to be the base hospital physician, who is familiar with the county EMS system and paramedic procedures and protocols, and consequently, by extension, the base hospital nurse on the radio. The paramedic on scene is viewed as an extension of the base hospital physician, acting as his eyes and ears, and functions under his directions and orders.

Almost always, physicians on scene would be less qualified **specific to the provision of rendering emergency care**, and the paramedic/base hospital nurse/base hospital physician would be legally in charge of the scene.

It is certainly in everyone's best interest to have a smoothly operating team at the scene, and it is imperative that any physician on scene, expressing in whatever manner that he wants to be in command medically, be immediately put in radio contact with the base hospital physician.

ATTACHMENT A (continued)

The following is some suggested dialogue for the base hospital physician...

"Doctor, my name is I am the base hospital physician atHospital and we are in medical control of the paramedic unit at your scene.

"Generally, the medics can most efficiently get the patient under treatment and into the emergency care system under our radio direction, and if that is alright with you, I can give them that direction by radio. Would that be alright with you?"

"If so, let me speak to the medics on the radio and I will get things under way with them. Perhaps, if you wish, you could stand by to lend an extra pair of eyes and hands but remember that the paramedics are closely limited by state law and county policies on what specific procedures they can do, and state law allows them to take orders only from the base hospital.

IF THE PHYSICIAN INSISTS ON TAKING MEDICAL CONTROL

"Doctor, I understand that you wish to take total responsibility for the care given by the life support team. To do so, requires that you are licensed in the state of California and can show your license to the medics on scene. You must also accompany the patient until he arrives at the hospital and responsibility is assumed by the receiving physician. In addition, you must sign for all instructions given in accordance with local policy and procedure. Is that your wish and intention?"

"If so, I would ask that you state your name for the radio record and show the paramedics your California license. Could you also briefly tell me if you are on the staff of any local hospitals and what your training or specialty is, particularly with reference to the care of this patient.

"Please be advised again, that the state law does not allow the paramedics to take orders from anyone other than the base hospital physician, but they can assist you with basic life support.

...(It is the base hospital physician's option to make the equipment and drugs available to the on scene physician if he approves of his scene control.)

"Doctor, based on the information you have given me on the radio record, I am turning over medical control of the scene to you. You may request medications and drugs from the paramedics and they will assist you with basic life support. I will be standing by on the radio in case a problem arises and you need to discuss something further with me. If you would put the medics back on the radio, I will so advise them. Thank you.

....

If you cannot establish the competence of the on scene physician to your satisfaction, you should not turn over medical control. You may reference the previous information in a manner such as...

"California Health and Safety Code section 1798.6 specifically states that authority for patient health care management in an emergency shall be vested in that licensed ... professional...who is most medically qualified specific to the provision of rendering emergency medical care. In this case, while I want to thank you for your offer of assistance, I'm afraid I do not feel that I can reasonably turn over the scene management to you and I must request that you allow the paramedics to proceed with the emergency care of the patient. If you wish to discuss this with me or my base hospital medical director, Dr, you may phone us later at our hospital at phone number, Could you please put the medics back on the radio so I may give them the orders necessary for the patient's care. Again, we would appreciate any cooperation you could give the medics.

SUBJECT: COMMUNICATIONS FAILURE

Date: 7/01/2010

- I. **Authority:** Health and Safety Code, Division 2.5, Section 1798 and 1798.2; California Code of Regulations, Division 9, Title 22, Section 100145.
- II. **Purpose:** To document the procedure for Paramedic activity during and reporting of communications failure.
- III. **Policy:**
 - A. In the event that an Paramedic at the scene of an emergency attempts direct voice contact with a physician or mobile intensive care nurse (MICN) but cannot establish or maintain that contact and reasonably determines that a delay in treatment may jeopardize the patient, the Paramedic may initiate any Paramedic activity authorized by the EMS Medical Director in accordance with the County of San Diego Treatment Protocols, "Standing Orders for Communications Failure", until such direct communication may be established and maintained or until the patient is brought to a general acute care hospital. Direct voice communication with the base hospital shall be attempted at the scene or en route.
 - B. In each instance where advanced life support procedures are initiated in accordance with Section A of this Policy, immediately upon ability to make voice contact, the Paramedic who has initiated such procedures shall make a verbal report to the contacted Base Hospital Physician or MICN. A "Report of ALS Services Provided Without Base Hospital Contact" form (Attachment A) shall be completed and filed with the contacted Base Hospital Physician, when possible, immediately upon delivery of

Document revised 7/1/2010
Approved:



EMS Medical Director

SUBJECT: COMMUNICATIONS FAILURE

Date: 7/01/2010

the patient to a hospital, but in no case shall the filing of such documentation be delayed more than twenty-four (24) hours. If no contact is made, the form is filed with the assigned Base Hospital. The Base Hospital Physician shall evaluate this report and forward the report to the County of San Diego EMS Medical Director within seventy-two (72) hours of receipt of report from Paramedic(s).

Document revised 7/1/2010
Approved:



EMS Medical Director

COUNTY OF SAN DIEGO OFFICE OF EMERGENCY MEDICAL SERVICES

ATTACHMENT A

Report of ALS Services Provided without Base Hospital Contact: In accordance with Health & Safety Code, Division 2.5 Section 1798, any incident wherein advanced life support was rendered in the absence of direct communication with a Base Hospital must be verbally reported to the Base Hospital Physician or MICN immediately upon ability to make voice contact, and the following report must be completed; if more than one patient was treated, a separate form must be completed for each patient. Complete reports must be submitted to a Base Hospital Physician at the hospital to which you are regularly assigned within twenty-four (24) hours of the incident.

Date of incident: _____ PM Agency: _____ Unit:

Paramedics - (Patient Care): _____ (Radio):

Base Hospital (if contact made): _____ Run Number:

Assigned Base Hospital: _____ EMS Form Number: _____ (Copy must be attached)

Completely describe the nature of the communication problem including suspected cause, exact geographic location, remedial actions taken, alternate modes attempted:

Detail the conditions and patient assessment that led you to believe the patient was in jeopardy of losing his/her life without ALS Treatment:

What specific ALS treatment was given without medical control?

What was the patient's condition on arrival at the hospital?

List witnesses at scene (first responders, other medical personnel)

Receiving RN Name: _____

MD Name: _____

Hospital receiving patient:

Incident Reported	Date:	Time:	Agency:	Person reported to:
Verbal report(s)				
Written report:				

We, the above paramedics affirm that the statements made on the report are complete and true to the best of our knowledge.

Signature: _____ Cert #: _____ Date: _____

Signature: _____ Cert #: _____ Date: _____

Written report received by:(signature)

Date & Time received: _____ Base Hospital: _____

Base Hospital Physician Review:

Signature: _____, M.D. Date: _____

Please attach copies of the following when submitting this report to the Division of Emergency Medical Services.

- A. All documentation provided by service provider agency and paramedics
- B. Copy of the MICN report form and copy of paramedic tape (if contact was made).
- C. Copy of EMS Prehospital Patient Record

Forward copies of all documentation with 72 hours to:

EMS Medical Director, County of San Diego
Emergency Medical Services Branch
6255 Mission Gorge Road
San Diego, CA 92120

COUNTY OF SAN DIEGO EMERGENCY MEDICAL SERVICES

For Office Use Only

Date and time report received:

Date: _____ Time: _____

Report received by:

EMS Medical Director

EMS Chief

EMS Paramedic Coordinator

Reviewer's Comments:

Recommended Action:

A. Receive and file - no further action required

B. Forward summary of communication problems to County Communications for review and recommendations

C. Return to Base Hospital for further information Detail:

D. Return to Base Hospital for the following recommended action(s):

E. Forward to service provider agency for review

F. Other:

Signature of Reviewer:

Date: _____ Title: _____

Medical Director Review:

Recommended action(s):

EMS Medical Director

Date:

The Office of EMS will review and distribute its findings to the appropriate individuals listed below within thirty (30) days of receipt of this report.

Distribution File

 Special Incident

 EMT-Paramedic - Name:

 EMT-Paramedic - Name:

 Base Hospital - Name: _____

 () Receiving Hospital - Name:

 () Service Provider Agency - Name:

 Other: _____

SUBJECT: DETERMINATION OF DEATH

Date: 07/01/02

I. Authority: Health and Safety Code, Division 2.5, Section 1798.

II. Procedure:

A. When the patient is determined to be “obviously dead,” resuscitation shall not be initiated per Policy S-402.

1. The “obviously dead” are victims who, in addition to absence of respirations and cardiac activity, have suffered one or more of the following:

- a. Decapitation
- b. Evisceration of heart or brain
- c. Incineration
- d. Rigor Mortis
- e. Decomposition

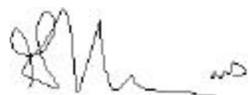
2. The prehospital personnel shall describe the incident and victim’s condition on the Prehospital Patient Record, clearly stating the reasons that life support measures were not initiated.

B. It is not the responsibility of aeromedical prehospital personnel to pronounce the death of a patient in the prehospital care setting. However, there may be situations where the flight nurse is called upon to determine death on scene.

1. If despite resuscitation efforts, the patient remains pulseless and apneic, for the following type of chief complaint or mechanism of injury, the flight nurse may determine death on scene:

- a. Medical CPR
- b. Traumatic CPR
 - 1) Blunt Injury
 - 2) Penetrating Injury

Approved:

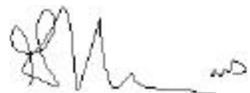

EMS Medical Director

SUBJECT: DETERMINATION OF DEATH

Date: 07/01/02

2. Special Considerations:
 - a. In cases of obvious death, a monitor need not be used to determine death.
 - b. If a monitor is used, a patient with a rhythm of ventricular fibrillation requires a Base Hospital Physician Order for determination of death.
 - c. If victims of hypothermia, electrocution, lightning strikes and drowning do not meet “obvious death” criteria, determination of death requires a Base Hospital Physician Order.
 - d. In any situation where there may be doubt as to the clinical findings of the patient, basic life support (BLS/CPR) must be initiated.
- C. When a “death has been determined,” no basic or advanced life support shall be initiated or continued.
 1. The flight nurse is authorized to discontinue CPR or advanced life support (ALS) care initiated at the scene.
 2. The appropriate law enforcement agency must be notified.
 3. In situations where no other emergency medical services (EMS) personnel or authorized personnel are available, the flight crew will remain on scene until released by law enforcement.
 4. The flight crew will document on the prehospital patient record and the flight record the patient’s name, if known, the criteria for determination of death, the time the death was determined and resuscitative efforts discontinued.

Approved:

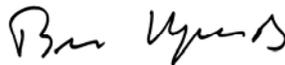

EMS Medical Director

SUBJECT: TRIAGE TO APPROPRIATE FACILITY

Date: 07/01/07

- I. **Authority:** Health and Safety Code, Division 2.5, Sections 1797.88 and 1798.
- II. **Purpose:** To provide guidelines for transportation of patients.
- III. **Policy:**
 - A. Patients will be transported from the scene of the incident to the most accessible and appropriate facility staffed, equipped, and prepared to administer care appropriate to the needs of the patient.
 - B. Trauma center candidates who meet trauma triage criteria will be transported to the most appropriate trauma center.
 - C. Patients who are assessed as having a STEMI by using a 12-lead EKG shall be transported to the appropriate STEMI Receiving Center (SRC).
 - D. Transport to other than the most accessible facility will be ordered if it is in the best interest of the patient, based on the medical judgment of the Base Hospital.
 - E. If facility of preference requested by a patient or patient's adult family member is beyond a reasonable distance from the incident scene or is not medically in the best interest of the patient, refer to Policy P-412.
 - F. Prehospital personnel accompanying patient(s) to a receiving facility will remain with the patient(s) until medical management is assumed by the receiving facility's medical staff, and will provide staff with a verbal report.
 - G. In the event that there is a delay in the turnover of the patient to the receiving facility medical staff, subsequent medical interventions, once at the facility, will be at the discretion of the receiving facility.
 - H. The Emergency Medical Services Prehospital Patient Record (PPR), including field cardiac rhythm strips, will be left with the patient. This is particularly important for

Approved:



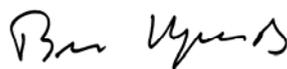
Medical Director

SUBJECT: TRIAGE TO APPROPRIATE FACILITY

Date: 07/01/07

those patients who are in acute status, STEMI patients, or are major trauma victims.

Approved:



Medical Director

SUBJECT: VARIATION FROM SAN DIEGO COUNTY PROTOCOLS
FOR ADVANCED LIFE SUPPORT

Date: 7/01/2010

- I. **Authority:** Health and Safety Code, Sections 1797.90, 1797.202, 1797.220, 1798 (et.seq.)
- II. **Purpose:** To identify the process by which a Base Hospital Physician may issue medical orders that vary from standard San Diego County ALS protocols.
- III. **Policy:**
- A. Base Hospital Physicians may issue medical treatment orders which vary from San Diego County ALS treatment protocols under the following criteria:
1. The order must be within the California Scope of Practice for Paramedics (Title 22, Section 100145) and included in the San Diego County ALS protocols, or within the San Diego County expanded Scope of Practice for Paramedics (SD County policy P-401).
 2. The order must be transmitted to field personnel by the Base Hospital Physician or authorized mobile intensive care nurse (MICN) via direct voice contact.
 3. Variation from protocol must be deemed necessary by the Base Hospital Physician to prevent serious morbidity or mortality.
- B. The Paramedic nor and/or the MICN shall not be subject to disciplinary actions for carrying out or declining orders that vary from protocol that meet the above criteria.
- C. All variations from protocol shall be reported to the EMS Medical Director and the Prehospital Audit Committee for evaluation and tracking.
- IV. **Procedure:**
- A. The Base Hospital Physician, after determining that a variation from protocol (a "Variation") is necessary to prevent serious morbidity or mortality, shall:
-

Document revised 7/1/2010

Approved:



EMS Medical Director

SUBJECT: VARIATION FROM SAN DIEGO COUNTY PROTOCOLS
FOR ADVANCED LIFE SUPPORT

Date: 7/01/2010

1. Transmit the order personally to the field personnel or instruct the MICN to transmit the order via direct voice communication, and
 2. Sign the MICN run sheet or otherwise document the order, and
 3. Complete "Notification of Variation from Advanced Life Support Treatment Protocol" (Attachment A) and submit it to the Base Hospital Medical Director, Base Hospital Nurse Coordinator or designee within twenty-four 24 hours of the occurrence of the incident.
- B. The MICN shall:
1. Receive the verbal order with explanation of rationale from the Base Hospital Physician and acknowledge that the order is a Variation from ALS protocol, and
 2. Transmit the order to field personnel (if the physician has not already done so), and state that "this Variation from ALS protocol was ordered by Dr. _____", and
 3. Obtain the physician's signature or otherwise document the source of the order, and
 4. Initiate a Notification of Variation from ALS Treatment Protocol form for the Base Hospital Physician to complete.
- C. The Paramedic shall:
1. Receive the order with explanation of rationale if needed directly from the Base Hospital Physician or MICN via direct voice communication, and
 2. Acknowledge that the order received is a variation from San Diego County ALS protocol, and the Base Hospital Physician who gave the order and

Document revised 7/1/2010

Approved:



EMS Medical Director

SUBJECT: **VARIATION FROM SAN DIEGO COUNTY PROTOCOLS
FOR ADVANCED LIFE SUPPORT**

Date: 7/01/2010

3. Document on EMS Prehospital Patient Record the order for the Variation, and the name of the Base Hospital Physician (and the name of the MICN transmitting the order, if applicable) ordering the Variation.
- D. The Base Hospital Medical Director or Base Hospital Nurse Coordinator shall gather all pertinent data relevant to the incident. This information will be documented on the Notification form and in the prehospital Quality Assurance Network Quality Collector System (QCS) computer on the Confidential Prehospital Quality Assurance Form and on the MD Variation form.
- E. The Base Hospital Medical Director shall review the Variation to determine if it was necessary to prevent serious morbidity or mortality, and was consistent with San Diego County Scope of Practice for Paramedics or the State of California Paramedic Scope of Practice. The Base Hospital Medical Director shall document this determination, and any necessary educational efforts with the field, medical physician or nursing personnel involved, on the Notification form, and cause a copy of this form (and attachments) to be submitted to the County of San Diego EMS Medical Director for review and analysis (including review for the Prehospital Audit Committee).

Document revised 7/1/2010

Approved:



EMS Medical Director

**COUNTY OF SAN DIEGO
QCS CONFIDENTIAL PREHOSPITAL QUALITY ASSURANCE REPORT (1.4)
MD VARIATION DETAIL**

Run Number:				
Base Hospital:		Incident: (date)		(time)
MICN:		Crew Members:	1	-
Agency:	Unit:		2	-
BH Physician:	Agency Role:		3	-

Base Hospital Nurse Coordinator	
Incident Description:	
BHNC Signature:	Date:

Base Hospital Physician	
Specific Order:	
Physician Comment:	

Base Hospital Medical Director	
<input type="checkbox"/> This Variation was Deemed Necessary to Prevent Serious Morbidity or Mortality	
<input type="checkbox"/> This Variation was within the CA/COSD Paramedic Scope of Practice	
Base Hospital Medical Director Action:	<input type="checkbox"/> No action indicated
	<input type="checkbox"/> Trend issue
BHMD Comments:	
<input type="checkbox"/> MD Variation Reviewed by BHMD	Date:
BHMD Signature:	Date:

<input type="checkbox"/> Case Ready for EMS Review	Date:
--	-------

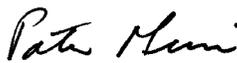
SUBJECT: REPORTING OF ISSUES IN PATIENT CARE MANAGEMENT

Date: 01/01/05

- I. **Authority:** Health and Safety Code, Division 2.5, Section 1797.220 and 1798.102.
- II. **Purpose:** To establish the primary responsibilities of all participants in the San Diego County's Emergency Medical Services System for reporting to the Medical Director of the County of San Diego Emergency Medical Services (EMS), issues of patient care management.
- III. **Policy:**
- A. The County of San Diego, Health & Human Services Agency, Emergency Medical Services Branch (EMS) shall maintain agreements with Base Hospitals and EMS provider agencies requiring:
1. Reporting issues in medical management of patients to the EMS Medical Director, including, but not limited to:
 - a. Actions outside of the scope of practice of prehospital personnel
 - b. Actions or errors that actually or potentially result in untoward patient outcomes, such as errors in administration of medications, invasive procedures, defibrillation/cardioversion, or other patient treatments.
 2. Reporting actions or behaviors that endanger the welfare of patients or adversely affect the public regard for prehospital emergency services.
 3. Reporting EMS personnel or EMS provider agency trends indicating on-going frequency of errors or non-compliance with established policies, protocols or standards of patient care.
- B. EMS shall establish a Quality Improvement program in compliance with Policy S-004.
- C. Base Hospitals will implement their own Quality Improvement program in compliance with Policy S-004. Patient care issues will be reported to the County of San Diego EMS through the Prehospital Audit Committee process.
- D. Each EMS provider agency will implement its own Quality Improvement program in compliance with Policy S-004. Patient care issues will be reported to the agency's designated Base Hospital or the County of San Diego, EMS Medical Director.

EMS prehospital personnel are expected to report significant issues in medical management of a patient to their agency, Base Hospital and/or County of San Diego EMS Medical Director.

Approved:



Administration



EMS Medical Director

SUBJECT: SAN DIEGO COUNTY SPECIAL ASSIGNMENT- PARAMEDIC

Date: 7/01/2010

- I. **Authority:** Health and Safety Code, Division 2.5, Sections 1797.172 and 1798.4, Title 22, Section 100141.
- II. **Purpose:** To establish policy for special paramedic operations and patient care while assigned to extraordinary special assignments or missions.
- III. **Policy:**
 - A. This policy applies only to those currently certified Paramedics formally appointed and assigned by an approved Paramedic service provider agency which has been designated by the County of San Diego, Emergency Medical Services (EMS) Branch to provide personnel for special assignments or missions exclusively at the request of security/law enforcement/other services approved by the EMS Medical Director.
 - B. This policy is operative only for the duration of a specific special assignment or mission of the agencies specified in "A" above.
 - C. Paramedics on special assignment will not be required to make Base Hospital contact to treat patients due to the operational requirements of the special assignment/mission that prohibit the practical employment or presence of telemetry communications equipment.
 1. The Paramedics will experience communications failure by default due to the nature of a special assignment/mission.
 2. Paramedics shall establish base hospital radio contact at the earliest opportunity afforded by the circumstances of the special assignment/mission should it become necessary to engage in ALS level treatment.

Document revised 7/1/2010

Approved:



EMS Medical Director

SUBJECT: SAN DIEGO COUNTY SPECIAL ASSIGNMENT- PARAMEDIC

Date: 7/01/2010

- D. Paramedics engaged in a special assignment or mission may, as the mission dictates, treat patients in accordance with the following:
1. Paramedic Treatment Protocol P-110 ALS Adult Standing Orders and P-111 Adult Standing Orders for Communications Failure.
 2. Paramedic Treatment Protocol P-405 Communications Failure.
 3. A report must be filed as specified in Policy P-405 Attachment "A" should any patient receive ALS treatment in connection with a special assignment/mission when communication failure occurs.
- E. Paramedics engaged in a special assignment/mission will be permitted to operate and engage in patient care without a second Paramedic partner or authorized Mobile Intensive Care Unit (MICU) as the logistics of the special assignment/mission dictate.
- F. Paramedics are responsible to maintain sufficient equipment and medical supplies necessary to treat a victim that meets the requirements of this special assignment protocol.
- G. The transport of victim(s) to receiving hospitals shall at all times be consistent with existing state and county policy except as security and other considerations require with respect to special assignments for the U.S. Secret Service and U.S. State Department exclusively.

Document revised 7/1/2010

Approved:



EMS Medical Director

SUBJECT: REPORTING OF SUSPECTED CHILD, DEPENDENT ADULT, OR
ELDER ABUSE/NEGLECT

Date: 4/01/2011

-
- I. **Authority:** Health and Safety Code, Division 2.5, Section 1798 and; Child Abuse: California Penal Code, Article 2.5; and, Elder Abuse: Welfare and Institutions Code Chapter II, Part 3, Division 9.
- II. **Purpose:** To establish a policy for identification and reporting of incidents of suspected child, dependent adult or elder abuse/neglect.
- III. **Policy:** All prehospital care personnel are required to report incidents of suspected neglect of, or abusive behavior toward children, dependent adults or elders.
- IV. **Reporting Procedure:**
- A. Child Abuse/Neglect:
1. Suspicion of Child Abuse/Neglect is to be reported by prehospital personnel by telephone to the Child Abuse Hotline, (858) 560-2191, immediately or as soon as possible. Be prepared to give the following information:
 - a. Name of person making report;
 - b. Name of child;
 - c. Present location of the child;
 - d. Nature and extent of the abuse/neglect;
 - e. Information that led reporting person to suspect child abuse/neglect;
 - f. Location where incident occurred, if known; and
 - g. Other information as requested.
 2. Phone report must be followed within thirty-six (36) hours by a written report on "Suspected Child Abuse Report" form #SS8572. The mailing address for this report is: Health and Human Services Agency (HHS),

Document revised 4/01/2011

Approved:



EMS Medical Director

SUBJECT: REPORTING OF SUSPECTED CHILD, DEPENDENT ADULT, OR
ELDER ABUSE/NEGLECT

Date: 4/01/2011

Children's Services Child Abuse Hotline, P.O. Box 711341, San Diego, CA 92111. Fax of this report may be transmitted to (858) 694-5240 or (858) 694-5241 between the hours of 8:00am and 5:00pm.

3. Copies of form SS8572 can be accessed on the County of San Diego, Emergency Medical Services website: www.sandiegocountyems.com.
4. The identity of all persons who report under this article shall be confidential and disclosed only between child protective agencies, or to counsel representing a child protective agency, or to the district attorney in a criminal prosecution or by court order.

B. Dependent Adult and Elder Abuse/Neglect:

1. Suspicion of Dependent Adult and Elder Abuse/Neglect should be reported as soon as possible by telephone to the Adult Protective Services at HHSA Aging and Independent Services (800) 510-2020. Be prepared to give the following information:
 - a. Name of person making report;
 - b. Name, address, and age of the dependent adult or elder;
 - c. Nature and extent of person's condition; and,
 - d. Other information, including information that led the person to suspect abuse/neglect.
2. Telephone report must be followed by a written report within thirty-six (36) hours of the telephone report using "Report of Suspected Dependent Adult/Elder Abuse" form SOC 341. The mailing address for this report is:

Document revised 4/01/2011

Approved:



EMS Medical Director

SUBJECT: REPORTING OF SUSPECTED CHILD, DEPENDENT ADULT, OR
ELDER ABUSE/NEGLECT

Date: 4/01/2011

Adult Protective Services, 5560 Overland Avenue, San Diego, CA 92123.

The report may be faxed to (858) 495-5247.

3. Copies of form SOC 341 can be accessed on the County of San Diego, Emergency Medical Services website: www.sandiegocountyems.com.
 4. The identity of all persons who report shall be confidential and disclosed only by court order or between elder protective agencies.
- C. When two or more persons who are required to report are present at scene, and jointly have knowledge of a suspected instance of child, dependent adult, or elder abuse/neglect, and when there is agreement among them, the telephone report may be made by a member of the team selected by mutual agreement and a single report may be made and signed by such selected member of the reporting team. Any member who has knowledge that the member designated to report has failed to do so, shall thereafter make such report.
- D. The reporting duties are individual, and no supervisor or administrator may impede or inhibit such reporting duties and no person making such report shall be subject to any sanction for making such report. However, internal procedures to facilitate reporting and apprise supervisors and administrators of reports may be established provided they are consistent with the provisions in this article.

Document revised 4/01/2011

Approved:



EMS Medical Director

SUBJECT: **PREHOSPITAL TREATMENT AND TRANSPORTATION OF ADULTS - REFUSAL OF CARE OR SUGGESTED DESTINATION, RELEASE** Date: 7/01/2010

- I. **Authority:** Health and Safety Code, Division 2.5, Section 1798.
- II. **Purpose:** To establish a procedure for a patient or designated decision maker (DDM) to refuse care (assessment, treatment, or transport) or request an alternate disposition by EMS personnel.
- III. **Definitions:**
- A. AMA - The refusal of treatment or transport, by an emergency patient or his/her designated decision maker, against the advice of the medical personnel on scene or of the base hospital.
- B. Designated decision maker (DDM) - An individual to whom a person has legally given the authority to make medical decisions concerning the person's health care (i.e., through a Durable Power of Attorney for Health Care).
- C. Emergency Patient - Any person for whom the 9-1-1/EMS system has been activated and who meets the following criteria:
1. Has a chief complaint or suspected illness or injury; or
 2. Is not oriented to person, place, time, or event; or
 3. Requires or requests field treatment or transport; or
 4. Is under the age of 18 and is not accompanied by a parent or legal guardian.
- D. Release -A call outcome that occurs when the patient and the EMS personnel (including the base hospital if a base was contacted) agree that the illness/injury does not require immediate treatment/transport via emergency/9-1-1 services and the patient does not require the services of the prehospital system.

Document revised 7/1/2010
Approved:



EMS Medical Director

SUBJECT: PREHOSPITAL TREATMENT AND TRANSPORTATION OF ADULTS - REFUSAL OF CARE OR SUGGESTED DESTINATION, RELEASE Date: 7/01/2010

IV. Policy:

- A. All emergency patients will be offered treatment and/or transport following a complete assessment.
- B. Against Medical Advice (AMAs)
 1. Adults have the right to accept or refuse any and all prehospital care and transportation, provided that the decision to accept or refuse these treatments and transportation is made on an informed basis and provided that these adults have the mental capacity to make and understand the implications of such a decision.
 2. The decisions of a Designated Decision Maker (DDM) shall be treated as though the patient was making these decisions for him/herself.
 3. For those emergency patients who meet base hospital contact criteria (S-415) and wish to sign AMA, prehospital personnel shall use their best efforts to make base hospital contact prior to the patient leaving the scene and prior to the responding unit leaving the scene. In the event that the patient leaves the scene prior to base hospital contact, field personnel shall still contact the base hospital for quality improvement and trending purposes only.
 4. The EMT, AEMT or paramedic should contact the base hospital and involve the MICN and/or base hospital physician in any situation in which the treatment or transport refusal is deemed life threatening or "high risk" by the EMT, AEMT or paramedic.
 5. Field personnel shall document, if possible, the following for all patients released AMA:
 - a. Who activated 9-1-1 and the reason for the call.

Document revised 7/1/2010
Approved:



EMS Medical Director

SUBJECT: **PREHOSPITAL TREATMENT AND TRANSPORTATION OF ADULTS - REFUSAL OF CARE OR SUGGESTED DESTINATION, RELEASE** Date: 7/01/2010

- b. All circumstances pertaining to consent issues during a patient encounter.
- c. The presence or absence of any impairment of the patient/DDM such as by alcohol or drugs.
- d. The ability of the patient/DDM to comprehend and demonstrate an understanding of his/her illness or injury.
- e. The patient/DDM has had the risks and potential outcome of non-treatment or non-transport explained fully by the EMT, AEMT or Paramedic, such that the patient/DDM can verbalize understanding of this information.
- f. The reasons for the AMA, the alternate plan, if any, of the patient/DDM and the presence of any on-scene support system (family, neighbor, or friend [state which]).
- g. That the patient/DDM has been informed that they may re-access 9-1-1 if necessary.
- h. The signature of the patient/DDM on the AMA form, or, if the prehospital personnel are unable to have an AMA form signed, the reason why a signed form was not obtained.
- i. Consideration should be given to having patient/family recite information listed in sections IV.B.5. d-g above, to the MICN/BHP over the radio or telephone.

C. Patient Refusal of Transport to Recommended Facility

Should the situation arise wherein a patient refuses transport to what is determined by the base hospital to be the most accessible emergency facility equipped, staffed and prepared to administer care appropriate to the needs of the patient, but the patient requests transport to

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Approved:



EMS Medical Director

**SUBJECT: PREHOSPITAL TREATMENT AND TRANSPORTATION OF ADULTS -
REFUSAL OF CARE OR SUGGESTED DESTINATION, RELEASE**

Date: 7/01/2010

an alternate facility:

1. Field personnel should discuss with the base hospital the patient's or DDM's rationale for their choice of that alternate facility.
2. Inform the patient or DDM of base hospital's rationale for its selected destination.
3. If the patient still refuses transport to the selected destination, follow procedures for the patient to refuse treatment and/or transport "against medical advice" (AMA). However, if, in the judgment of the base hospital, the patient's refusal of transport would create a life-threatening or high-risk situation, and the patient continues to refuse the recommended destination, document the AMA and transport the patient to the requested facility if possible.
4. Arrange for alternate means of transportation to the facility of choice if appropriate.

D. Downgrade

1. Following a complete paramedic assessment and base hospital report (as required per County of San Diego EMS Policy S-415), the base hospital may authorize a downgrade in the transportation and treatment needs of an ALS-dispatched patient from advanced life support (i.e., paramedic treatment and transport) level of prehospital care to BLS (EMT treatment and transport) level of care and that unit can continue to transport the patient to any destination. All downgrades shall be reviewed by the agency's internal Quality Improvement program.
2. If the patient's condition deteriorates during the transport, the paramedic shall contact the base hospital authorizing the downgrade, initiate appropriate ALS treatment

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Approved:



EMS Medical Director

SUBJECT: PREHOSPITAL TREATMENT AND TRANSPORTATION OF ADULTS - REFUSAL OF CARE OR SUGGESTED DESTINATION, RELEASE Date: 7/01/2010

protocols, and deliver the patient to the most appropriate facility at the direction of the base hospital. The Base Hospital shall generate a report to the Prehospital Audit Committee documenting the incident.

3. If the paramedics have transferred care to a BLS service provider and the patient's condition deteriorates during the BLS transport, the EMT shall contact a base hospital, inform the base hospital that the patient had been downgraded from ALS to BLS, and deliver the patient to the most appropriate facility at the direction of the base hospital. The Base Hospital shall generate a report to the Prehospital Audit Committee documenting the incident.

E. Release

If the patient and EMS personnel (including the base hospital if a base was contacted) agree that the illness/injury does not require immediate treatment/transport via emergency/9-1-1 services, and the patient does not require the services of the prehospital system, the patient may be released at scene. For those patients who meet base hospital contact criteria (S-415), field personnel shall attempt to contact the base prior to the patient leaving the scene.

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Approved:



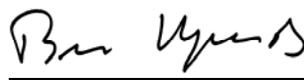
EMS Medical Director

SUBJECT: RESUSCITATION

Date: 7/1/06

- I. Authority:** Health and Safety Code, Division 2.5, Section 1798.
- II. Purpose:** To establish guidelines for Emergency Medical Technicians (EMT's) (all levels) in San Diego County to determine appropriateness of either:
- A. Discontinuing or withholding resuscitative measures, or;
 - B. Obtaining a Base Hospital Physician Order for pronouncement of patients in cardiac arrest while in the prehospital setting.
- III. Definition:**
- A. Emergency Medical Technician shall apply to all EMT-I's, EMT/PS-D's, EMT-P's licensed, certified, and/or accredited to function in San Diego County.
 - B. Do not Resuscitate (DNR) means no chest compressions, no defibrillation, no assisted ventilation, no endotracheal intubation, and no cardiotoxic drugs. The patient is to receive full treatment other than resuscitative measures (e.g., for airway obstruction, pain, dyspnea, major hemorrhage, etc.).
 - C. Absent vital signs: absence of respirations and absence of a carotid pulse.
 - D. DNR Medallion: metal or permanently imprinted insignia, belonging to the patient that is imprinted with the words "Do Not Resuscitate, EMS."
 - E. DNR Form: Any completed "Do Not Resuscitate Form."
 - F. Advance Health Care Directive: An individual health care instruction or a power of attorney for health care.
- IV. Procedure:**

Approved:



EMS Medical Director

SUBJECT: RESUSCITATION

Date: 7/1/06

A. All patients with absent vital signs who are not “obviously dead,” (refer to Policy S-402) shall be treated with resuscitative measures, unless one of the following circumstances apply:

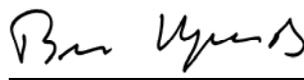
1. An EMT may withhold CPR if presented with one of the following:
 - a. DNR Medallion.
 - b. A completed DNR Form stating, “Do not resuscitate,” “No code,” or “No CPR.”
 - c. A written, signed order in the patient’s medical record.
 - d. An Advance Health Care Directive.
 - e. Upon receipt of a Base Hospital Physician Order.

2. An EMT may discontinue CPR if presented with one of the following:
 - a. A DNR Medallion.
 - b. A completed DNR Form stating, “Do not resuscitate,” “No code,” or “No CPR.”
 - c. A written, signed order in the patient’s medical record.
 - d. An Advance Health Care Directive.
 - e. Upon receipt of a Base Hospital Physician Order.

B. Documentation

Reason for withholding or terminating CPR shall be documented in the patient care record. DNR orders shall include the name of the physician or designee (e.g. Physician Assistant, Nurse Practitioner), and the date of the order. If patient

Approved:


EMS Medical Director

SUBJECT: RESUSCITATION

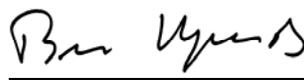
Date: 7/1/06

transport is initiated, the DNR Form (original or copy), DNR Medallion, or a copy of the valid DNR Order from the patient's medical record shall accompany the patient.

C. Considerations

1. In the event any patient expires in an ambulance either before or during transport, the following should be considered:
 - a. Unless specifically requested, the patient should not be returned to a private residence or skilled nursing facility, continue to the destination hospital.
 - b. If between hospitals, return to the originating hospital if time is not excessive. If transport time would be excessive, divert to the closest hospital with a basic emergency facility (BEF).
 - c. In rural areas in cases where the Medical Examiner has not waived the case, the transporting agency and the Medical Examiner shall arrange for a mutually acceptable rendezvous location where the patient may be taken and left in the custody of law enforcement, so that the transporting unit may return to service.

Approved:



EMS Medical Director

**SUBJECT: BASE HOSPITAL CONTACT, PATIENT TRANSPORTATION
AND REPORT - EMERGENCY PATIENTS**

Date: 7/1/2010

- I. **Authority:** Health & Safety Code, Division 2.5, Section 1797.88; 1798. Title XXII, Section 100170, Civil Section 25.8.

- II. **Purpose:** To identify conditions under which EMT, AEMTs and paramedics shall, when encountering an emergency patient, contact a base hospital for notification, medical direction, or to give report; or (for EMTs) contact a receiving hospital to verify appropriate transport destination and give report.

- III. **Definitions:**
 - A. **Aid Unnecessary** - Calls in which the person for whom 9-1-1 was called does not meet the definition of "emergency patient," and has agreed to make alternate transportation arrangements if necessary.

 - B. **Call Canceled** - Calls to which EMS personnel were responding but the response was canceled prior to encountering an emergency patient or potential patient.

 - C. **Complete Patient Report** - A problem-oriented verbal communication which includes:
 1. Acuity.
 2. Age.
 3. Gender.
 4. Chief complaint(s).
 5. Vital signs (including O₂ saturation when possible).
 6. Pertinent history, allergies, medications.
 7. Pertinent findings of the primary and secondary survey.
 8. Field treatment and response.
 9. Anticipated destination facility.

Document revised 7/1/2010
Approved:


EMS Medical Director

**SUBJECT: BASE HOSPITAL CONTACT, PATIENT TRANSPORTATION
AND REPORT - EMERGENCY PATIENTS**

Date: 7/1/2010

10. Estimated time of arrival.
- D. Initial Notification- A brief communication by the field personnel to provide the acuity, age, gender, and chief complaint of the patient to the base hospital to assist in determining appropriate patient destination. This communication is intended to verify resource capability and availability of the facility that will receive the patient.
- E. Release - A call outcome that occurs when the patient and the EMS personnel (including the base hospital if a base was contacted) agree that the illness/injury does not require immediate treatment/transport via emergency/9-1-1 services and the patient does not require the services of the prehospital system.
- F. Emergency Patient - Any person for whom the 9-1-1/EMS system has been activated and who meets the following criteria:
1. Has a chief complaint or suspected illness or injury; or
 2. Is not oriented to person, place, time, or event; or
 3. Requires or requests field treatment or transport; or
 4. Is a minor who is not accompanied by a parent or legal guardian and is ill or injured or appears to be ill or injured
- G. Elopement - The departure from the scene of a patient, in which the patient has refused to comply with established procedures for refusing care or transportation.
- H. Minor - A person under the age of 18 and who is not emancipated
- I. Designated decision maker (DDM) - An individual to whom a person has legally given the authority to make medical decisions concerning the person's health care (i.e., a parent, legal guardian, an "attorney in fact" through a Durable Power of Attorney for Health Care, or an

Document revised 7/1/2010
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EMS Medical Director

**SUBJECT: BASE HOSPITAL CONTACT, PATIENT TRANSPORTATION
AND REPORT - EMERGENCY PATIENTS**

Date: 7/1/2010

“agent” through an Advance Health Care Directive).

IV. Policy:

- A. EMT, AEMTs - Hospital contact is required for all patients who are transported to the Emergency Department of a hospital.
 - 1. EMT, AEMTs shall contact the intended facility as soon as possible to verify their destination and to provide a complete patient report.
 - 2. EMT, AEMTs shall call:
 - a. A base hospital if they have a question regarding the appropriate treatment or disposition of any patient.
 - b. A designated trauma center for those patients who meet trauma center criteria (T-460).
 - c. UCSD base for those patients meeting Burn Center criteria (S-124).
- B. Paramedics - Base hospital contact is required by paramedics in the following situations (except in cases of elopement - see **III. D.**):
 - 1. Any emergency patient transport by paramedics, including transports by paramedic ambulance to a BLS destination following downgrade to BLS.
 - 2. Any emergency patient treatment involving ALS medications or skills (except EKG monitoring)
 - 3. Any emergency patient assessment involving abnormal vital signs, or an altered level of consciousness.
 - 4. Any suspicion that the emergency patient (or designated decision maker [DDM]) is impaired by alcohol or drugs.

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EMS Medical Director

**SUBJECT: BASE HOSPITAL CONTACT, PATIENT TRANSPORTATION
AND REPORT - EMERGENCY PATIENTS**

Date: 7/1/2010

5. The emergency patient/DDM is unable to comprehend or demonstrate an understanding of his/her illness or injury.
 6. The emergency patient meets criteria as a trauma center candidate (T-460).
 7. The emergency patient is > 65 years of age and has experienced an altered/decreased level of consciousness, significant mechanism of injury, or **any** fall.
 8. An emergency patient who is a minor is ill or injured or is suspected to be ill or injured.
 9. Whenever paramedics have a question regarding appropriate treatment or disposition of the patient.
- C. Any other communications between the patient, DDM, family member or care giver and prehospital personnel regarding refusal of care or care that is in variance with San Diego County prehospital treatment protocols or the San Diego County Resuscitation policy (S-414) (such as an Advance Health Care Directive, Living Will, Comfort Care communication, verbal notification from family member or care giver, DPAHC without attorney-in-fact present, etc.), shall be immediately referred to the base hospital for evaluation. The base hospital shall evaluate this information and determine the plan of treatment and transport for the patient.
- D. Treatment and transport decisions for emergency patients in involuntary or protective custody (i.e., under arrest by law enforcement, placed on a "5150" hold, or serving a prison term) are to be made by the authority under which they are being held.
- E. Paramedics shall contact a base hospital as soon as possible to verify destination.
- Paramedics will first attempt to call their regularly assigned base hospital unless the

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EMS Medical Director

**SUBJECT: BASE HOSPITAL CONTACT, PATIENT TRANSPORTATION
AND REPORT - EMERGENCY PATIENTS**

Date: 7/1/2010

emergency patient meets one of the following criteria:

1. Adult Trauma: For all adult emergency patients who appear to meet trauma center candidate criteria in T-460, paramedics shall first attempt to call the trauma base in the catchment area of the incident.
 2. Pediatric Trauma: Paramedics shall first attempt to contact the designated pediatric trauma base for pediatric trauma center candidates (T-460).
 3. Burns: Paramedics shall first attempt to contact the UCSD base for all emergency patients that meet burn center disposition criteria (S-124).
- F. A complete patient report is required as soon as reasonably possible for all emergency patients transported. However, an initial notification may be made to a base hospital prior to the complete patient report without interfering with the paramedic's ability to implement standing orders. Standing orders for medications may not be implemented following the initiation of a complete patient report.
- G. MICNs shall relay patient information received from the patient report to the appropriate receiving facility personnel.
- H. Treatment and/or Transport of a Minor:
1. Treatment or transport of a conscious minor who is ill or injured or suspected to be ill or injured shall be with the verbal consent of the natural parent, legal guardian, or any adult authorized in writing by the legal guardian pursuant to Section 25.8 of the Civil Code (Attachment A).
 2. Treatment or transport of a conscious minor who is ill or injured or suspected to be ill or injured, where the natural parents, legal guardian, or authorized persons are not

Document revised 7/1/2010
Approved:


EMS Medical Director

**SUBJECT: BASE HOSPITAL CONTACT, PATIENT TRANSPORTATION
AND REPORT - EMERGENCY PATIENTS**

Date: 7/1/2010

present, will be under the direction of the Base Hospital. Transport shall be to the most accessible appropriate receiving or specialty care center.

3. Treatment or transport of a minor who is unconscious or suffering from a life threatening disease, illness, or injury in the absence of a natural parent, legal guardian or authorized person (Attachment A) may be initiated without parental consent.
- I. Base Hospital contact is NOT REQUIRED on individuals who meet the following criteria:
 1. Obvious death (S-402).
 2. Discontinuation of CPR with a Prehospital DNR order or DPAHC on scene (S-414).
 3. Release of a minor on scene who is neither ill nor injured, nor suspected to be ill or injured, may be permissible without Base Hospital contact if:
 - a. Parent or legal guardian so requests
 - OR
 - b. A responsible adult other than parent or legal guardian (i.e. school nurse, law enforcement, or person of similar standing) so requests.
 - c. The field EMT, AEMT or Paramedic shall document the circumstances and identification of the person accepting responsibility for the minor.
 4. Patients who wish to be released and do not meet base hospital contact criteria.
 5. Dispatched as a BLS call where ALS treatment or intervention is not anticipated nor required.

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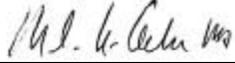

EMS Medical Director

**SUBJECT: SUPPLY AND RESUPPLY OF DESIGNATED
EMS AGENCIES AND VEHICLES**

Date: 7/1/01

- I. Authority:** California Health and Safety Code, Division 2.5, Chapter 4, Section 1797.202 and California Business and Professions Code, Division 2, Chapter 9, California Pharmacy Law. Section 4000, et seq.
- II. Purpose:** To provide a policy for agencies to procure, store and distribute medical supplies and pharmaceuticals identified in the Inventory.
- III. Definition:** Dangerous Drugs and Devices: Any drug or device unsafe for self-use (e.g. IV solutions and medications carried on the MICU Inventory). Drugs and devices bearing the legend, “Caution, federal law prohibits dispensing without prescriptions” or words of similar import.
- IV. Policy:**
- A. Each agency shall have a mechanism to procure, store and distribute its own medical supplies and pharmaceuticals under the license and supervision of an appropriate physician. An appropriate physician is considered to be one of the following:
1. The Medical Director of the agency.
 2. The County of San Diego, Division of Emergency Medical Services (EMS) Medical Director.
 3. The Medical Director of a contracted base hospital.
- B. Mechanisms of procurement may include the following:
1. Procurement of pharmaceuticals and medical supplies through a legally authorized source such as a pharmaceutical distributor or wholesaler.
 2. Procurement of pharmaceuticals and medical supplies from a hospital that determines it has the legal authority to resell pharmaceuticals and supplies to an agency.
- C. Each agency shall have procedures in place for the procurement, transport, storage and distribution of Dangerous Drugs and Devices.

Approved:

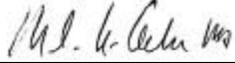

EMS Medical Director

**SUBJECT: SUPPLY AND RESUPPLY OF DESIGNATED
EMS AGENCIES AND VEHICLES**

Date: 7/1/01

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- D. If agency requests the County of San Diego, EMS Medical Director to assume responsibility for providing medical authorization for procuring Dangerous Drugs and Devices, these policies shall be reviewed and approved by the County of San Diego, EMS Medical Director and shall include the following:
1. Identification (by title) of individuals responsible for procurement and distribution.
 2. A determination of reasonable quantities of supplies and pharmaceuticals that must be maintained to resupply agencies.
 3. Maintenance of copies of all drug orders, invoices, and logs associated with Dangerous Drugs and Devices for a minimum of three years.
 4. Procedures for completing a monthly inventory of Dangerous Drugs and Devices, which includes:
 - a. Ensuring medications are stored in original packaging.
 - b. Checking medications for expiration dates, rotating supplies for use prior to expiration, and exchanging for current medications.
 - c. Properly disposing of expired medications that cannot be exchanged.
 - d. Distributing to agencies.
 - e. Returning medications to pharmaceutical distributor if notified of a recall.
 5. Storage of drugs (other than those carried on a vehicle) that complies with the following:
 - a. Drugs must be stored in a locked cabinet or storage area.
 - b. Drugs may not be stored on the floor. (Storage of drugs on pallets is acceptable.)
 - c. Antiseptics and disinfectants must be stored separately from internal and injectable medications.
 - d. Flammable substances (e.g., alcohol) must be stored in a metal cabinet, in accordance with local fire codes.

Approved:


EMS Medical Director

**SUBJECT: SUPPLY AND RESUPPLY OF DESIGNATED
EMS AGENCIES AND VEHICLES**

Date: 7/1/01

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- e. Storage area is maintained within a temperature range that will maintain the integrity, stability and effectiveness of drugs.
6. Agencies shall develop, implement and maintain a quality assurance and improvement program that includes a written plan describing the program objectives, organization, scope, and mechanisms for overseeing the procurement, transport, storage, distribution and administration of Dangerous Drugs and Devices.
- E. Agencies under the license and supervision of the County of San Diego, EMS Medical Director shall have a written agreement with the County of San Diego, Division of Emergency Medical Services that is specific to the procurement, transport, storage, distribution and administration of Dangerous Drugs and Devices.

Approved:

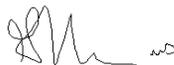

EMS Medical Director

SUBJECT: EMERGENCY MEDICAL TECHNICIAN/PUBLIC SAFETY-DEFIBRILLATION
EQUIPMENT

Date: 07/01/05

- I. **Authority:** Health and Safety Code, Division 2.5, Sections 1797.52, 1797.170 and 1797.204.
- II. **Purpose:** To identify specific type of Public Safety-Defibrillation equipment to be used in San Diego County.
- III. **Policy:**
 - A. An approved PS-D Program shall use only automated external defibrillation (AED) equipment capable of generating an event record.
 - B. In areas where PS-D responders have the potential to interface with Advanced Life Support (ALS) units, procedures shall be established which allow for this interface.
 - C. Equipment shall be programmed to comply with current San Diego County treatment protocols.

Approved:



EMS Medical Director

**SUBJECT: TRANSFER OF SPECIFIC PATIENT CARE INFORMATION
BETWEEN FIRST RESPONDERS UTILIZING DEFIBRILLATION
EQUIPMENT AND TRANSPORT PERSONNEL**

DATE: 07/01/03

- I. Authority:** Health and Safety Code, Division 2.5, Section 1798 and 1798.6.
- II. Purpose:** To assure effective transfer of patient care information between first responders utilizing defibrillation equipment, and transport personnel at the scene of an emergency.
- III. Policy:** Patient care information shall be communicated between first responders and transport personnel at the time of transfer.
- IV. Procedure:**
- A. Transfer shall be to an equal or higher level of care only.
 - B. Prior to actual transfer of patient care responsibilities, the first responder will provide a verbal report to the transport personnel containing the following information:
 - 1. Patient age.
 - 2. Witnessed/unwitnessed arrest.
 - 3. Approximate time from collapse.
 - 4. Initiation of CPR prior to first responder arrival.
 - 5. Initial monitored rhythm. (shockable vs non-shockable rhythm)
 - 6. Number of defibrillatory shocks delivered and joules of each shock.
 - 7. Response to treatment.
 - B. Once verbal report has been completed, the first responder shall assist the transport personnel in the transfer process as needed.

Approved:



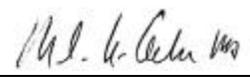
Medical Director

SUBJECT: APPLICATION OF PATIENT RESTRAINTS

Date: 07/01/02

- I. Authority:** Health & Safety Code, Division 2.5, Section 1798; California Code of Regulations, Title 22, Section 100075, 100159
- II. Purpose:** To establish criteria for the use of restraints in the field or during transport.
- III. Policy:**
- A. When field personnel apply restraints, the safety of the patient, community, and responding personnel shall be of paramount concern.
- B. Whenever patient restraints have been applied in the field, prehospital personnel shall document in the Prehospital Patient Record the following:
1. The reason the restraints were needed (including previous attempts to control patient prior to restraint use), and;
 2. the type of restraint used, the extremity(ies) restrained, the time the restraints were applied, and
 3. which agency applied the restraints, and;
 4. information and data regarding the monitoring of circulation to the restrained extremities, and;
 5. information regarding the monitoring of the patient's respiratory status while restrained.
- C. Restraints are to be used only for patients who are violent or potentially violent, or who may harm self or others.
- D. Prehospital personnel must consider that aggressive or violent behavior may be a symptom of a medical condition.
- E. The method of restraint used shall allow for adequate monitoring of vital signs and shall not restrict the ability to protect the patient's airway or compromise the neurological or circulatory status of the restrained extremity(ies).
- F. If the patient has been restrained by a law enforcement officer (such as handcuffs, plastic ties, or "hobble" restraints, the following criteria must be met:

Approved:


EMS Medical Director

SUBJECT: APPLICATION OF PATIENT RESTRAINTS

Date: 07/01/02

1. Restraints must provide sufficient slack in the restraint device to allow the patient to straighten the abdomen and chest and to take full tidal volume breaths.
2. Restraints applied by law enforcement require the officer's continued presence to ensure patient and scene management safety. The officer shall accompany the patient in the ambulance. In the unusual event that this is not possible, the officer should follow by driving in tandem with the ambulance on a pre-determined route. Prior to leaving the scene, prehospital personnel shall attempt to discuss an appropriate method to alert the officer of any problems that may develop during the transport requiring the officer's immediate presence.
3. Law enforcement personnel shall attempt, when possible, to modify their restraints to a medically accepted standard prior to transport.

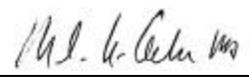
This policy is not intended to negate the use by law enforcement personnel of appropriate restraint equipment that is approved by their respective agencies to establish scene management control.

- G. Restraints or protective devices that have been applied by medical personnel prior to transport may be continued during the transport per instructions from those medical personnel.

IV. Procedure:

- A. Restraint equipment applied by prehospital personnel must be either padded leather restraints or soft restraints (i.e posey, velcro or seatbelt type). The method of restraint must provide for quick release.
- B. The following forms of restraint shall not be used by EMS prehospital care personnel:
1. Any restraint device requiring a key to remove.
 2. Backboard, stretcher or flat used as a "sandwich" restraint.
 3. Devices that restrain a patient's hand(s) and/or feet behind the patient
 4. Methods or materials applied in a manner that could cause vascular or neurological damage to the patient.

Approved:

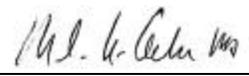

EMS Medical Director

SUBJECT: APPLICATION OF PATIENT RESTRAINTS

Date: 07/01/02

5. Hard plastic ties ("flex-cuffs"). Aeromedical personnel (only) may use hard plastic restraints provided that appropriate provider agency policies regarding the application and monitoring of the extremities restrained, and the use of alternate restraint methods (such as pharmaceutical restraints) are in place.
- C. Patients shall not be restrained in a prone position. Prehospital personnel must ensure that the patient's position does not compromise the patient's respiratory/circulatory systems, or does not preclude any necessary medical intervention to protect the patient's airway should vomiting occur.
- D. Restrained extremities shall be evaluated for pulse, movement, sensation and color at least every 15 minutes. The results of each evaluation shall be documented in the Prehospital Patient Record.

Approved:


EMS Medical Director

SUBJECT: UTILIZATION OF ATROPINE, DIAZEPAM, MIDAZOLAM &
2-PAM CL FOR TREATMENT OF NERVE AGENT EXPOSURE

Date: 10/01/08

- I. **Authority:** Health & Safety Code, Division 2.5, Section 1798; California Code of Regulations, Title 22, Division 9, Section 100145 (2); and County of San Diego Multi-casualty Plan, Annex B & Annex D
- II. **Purpose:** To identify the procedure for administration of Atropine, 2-PAM Cl (Pralidoxime), Diazepam and Midazolam for treatment of nerve agent exposure in a suspected terrorist event.
- III. **Definitions:** Chempack Cache – a strategically placed supply of medications used in the treatment of nerve gas exposure.
- Metropolitan Medical Response System (MMRS) - systematic medical response to nuclear, biological or chemical acts of terrorism.
- Metropolitan Medical Strike Team (MMST) - a designated team specially trained and equipped to manage incident scenes of nuclear, biological or chemical acts of terrorism.
- Nerve Agent - a chemical that has biological effects by inhibiting the enzyme acetyl cholinesterase, thus allowing the neurotransmitter acetylcholine to accumulate and over-stimulate organs and the nervous system causing sudden loss of consciousness, seizures, apnea and death. Nerve agents include Tabun (GA), Sarin (GB), Soman (GD) and VX.
- Terrorism - the unlawful use of force or violence against persons or property or to coerce a government or civilian population in the furtherance of political or social objectives.
- Weapons of Mass Destruction (WMD) - devices specially designed and
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Approved:



EMS Medical Director

SUBJECT: UTILIZATION OF ATROPINE, DIAZEPAM, MIDAZOLAM &
2-PAM CL FOR TREATMENT OF NERVE AGENT EXPOSURE

Date: 10/01/08

utilized by terrorists to cause mass illness, injury, death and hysteria on a population.

IV. Policy:

- A. In a suspected or confirmed terrorist event in response to a release of Nerve Agent when signs and symptoms are exhibited, an autoinjector or injection device of Atropine, 2-PamCl, Diazepam (if available) and Midazolam may be administered. Diazepam autoinjector use requires MMST physician prescription.
- B. The primary use of predeployed medication will be for treatment or self-treatment of public safety personnel. Secondary use will be for treatment of patients.
- C. Atropine and 2-PamCl will be stored and available for use on designated first responder vehicles, hazmat units and deployable cache stockpiles per the MMRS plan.
- D. Only prehospital personnel who have completed County of San Diego approved training specific to use of the Atropine, 2-PamCl and Diazepam autoinjectors are authorized to utilize the Autoinjectors.
- E. If medications are used, and this is in response to a wide-spread incident consider activation of MMST through the EMS Duty Officer and Station M.
- F. All uses of the medication and activation of the MMRS plan will be reviewed by the MMST Program Management Team with summary reports to the Medical Director and County EMS Prehospital Audit Committee.

Approved:



EMS Medical Director

- I. **Authority:** Health and Safety Code, Division 2.5, Sections 1797.170 and 1798, 1797.202 and 1797.214.
- II. **Purpose:** To identify the scope of practice of an EMT in San Diego County.
- III. **Policy:**
 - A. During training, while at the scene of an emergency, and during transport of the sick or injured, or during interfacility transfer, a supervised EMT student or certified EMT is authorized to do any of the following:
 1. Evaluate the ill and injured.
 2. Render basic life support, rescue and first aid to patients.
 3. Obtain diagnostic signs, including but not limited to, temperature, blood pressure, pulse, respiratory rate, level of consciousness and pupil status.
 4. Perform cardiopulmonary resuscitation; including the use of mechanical adjuncts to basic cardiopulmonary resuscitation (e.g. use of chest compression devices).
 5. Use the following adjunctive airway breathing aids:
 - a. Oropharyngeal airway.
 - b. Nasopharyngeal airway.
 - c. Suction devices.
 - d. Basic oxygen delivery devices, manual and mechanical ventilating devices designed for prehospital use.
 - e. Perilaryngeal Airway Adjuncts if authorized by the local EMS Agency.
 6. Use various types of stretchers and body immobilization devices.
 7. Provide initial prehospital emergency care for patients with trauma.

Document revised 9/1/2010

Approved:



EMS Medical Director

8. Administer or assist patient to administer oral glucose or sugar solutions.
 9. Assist patient to take his or her own prescribed Nitroglycerine.
 10. Extricate entrapped persons.
 11. Perform basic field triage.
 12. Transport patients.
 13. Assist paramedics to set up for advanced life support procedures excluding any medications except Normal Saline.
 14. Manage patients within their scope of practice.
- B. A supervised EMT student or certified EMT may monitor and transport patients with peripheral lines delivering IV fluids under the following circumstances:
1. The patient's condition is not critical and is deemed stable by the transferring physician or base hospital physician.
 2. The fluid infusing is a glucose solution or isotonic balanced salt solution, including Ringer's Lactate.
 3. The IV is infusing at a pre-set rate of flow; turn off device only with base hospital direction.
 4. No other advanced life support equipment is attached to the patient that will require monitoring that is outside the scope of practice of the EMT.
 5. The patient has not received additional treatment by paramedics that are outside the scope of practice of the EMT if in the prehospital setting.
- C. A supervised EMT student or certified EMT may monitor and transport patients, as described in B.1. above, with nasogastric (N.G.) tubes, gastrostomy tubes, heparin

Document revised 9/1/2010

Approved:



EMS Medical Director

- locks, Foley catheters, tracheostomy tubes, and/or indwelling vascular access lines, excluding arterial lines and uncapped central lines or other items approved by local EMS Agency.
- D. A supervised EMT student or a certified EMT may assist patients with the administration of physician prescribed devices, including but not limited to, patient operated medication pumps and self-administered emergency medications, including epinephrine devices.
- E. An EMT may perform defibrillation on an unconscious, pulseless patient who is apneic or has agonal respirations when authorized by an EMT AED service provider, according to established policies.
- F. An EMT student or certified EMT may utilize additional skills and/or medications included as part of pilot study as determined by the EMS Medical Director in accordance with Section 1797.214 of the Health and Safety Code, Division 2.5.

Document revised 9/1/2010

Approved:



EMS Medical Director

SUBJECT: **ADVANCED EMERGENCY MEDICAL TECHNICIAN
SCOPE OF PRACTICE**

Date: 7/01/10

- I. **Authority:** Health and Safety Code, Division 2.5, Sections 1797.107 and 1798, 1797.171 and 1797.56.
- II. **Purpose:** To identify the scope of practice of Advanced Emergency Medical Technician (AEMT) in San Diego County.
- III. **Policy:**
 - A. An Advanced EMT may perform any activity identified in the scope of practice of an EMT, described in policy B-450.
 - B. During training, while at the scene of an emergency, and during transport of the sick or injured, a supervised Advanced EMT student or certified Advanced EMT may in accordance with the County of San Diego EMS Branch, Policies, Procedures, and Protocols perform the following procedures and administer the following medications:
 1. Perform pulmonary ventilation by use of a perilaryngeal airway adjunct.
 2. Institute intravenous (IV) catheters in peripheral veins.
 3. Administer IV glucose solutions or isotonic balanced salt solutions.
 4. Obtain venous and/or capillary blood samples for laboratory analysis.
 5. Use blood glucose measuring device.
 6. Administer the following medications:
 - a. Sublingual nitroglycerine
 - b. Oral aspirin
 - c. Intramuscular glucagon
 - d. Inhaled beta-2 agonists (bronchodilators)
 - e. Oral activated charcoal

Document revised 7/1/2010

Approved:



EMS Medical Director

SUBJECT: ADVANCED EMERGENCY MEDICAL TECHNICIAN
SCOPE OF PRACTICE

Date: 7/01/10

- f. Intramuscular or intranasal naloxone
 - g. Intramuscular or subcutaneous epinephrine
 - h. Intravenous administration of 50% dextrose
- C. A supervised AEMT student or certified AEMT may utilize additional skills and/or medications included as part of pilot study as determined by the EMS Medical Director in accordance with Section 1797.214 of the Health and Safety Code, Division 2.5.

Document revised 7/1/2010
Approved:



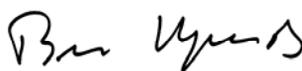
EMS Medical Director

SUBJECT: IDENTIFICATION AND TRANSPORTATION
OF THE TRAUMA CENTER CANDIDATE

Date: 7/1/08

-
- I. **Authority:** Division 2.5, Health and Safety Code, Sections 1798, 1798.102 and 1798.163.
- II. **Purpose:** To establish criteria for identification of trauma center candidates to be transported to a designated trauma center.
- III. **Definitions:**
- A. **Adult** – Any trauma candidate known or appearing to be 15 years of age or older.
- B. **Pediatric** – Any trauma candidate known or appearing to be 14 years of age or less.
- IV. **Policy:**
- A. The base hospital physician/MICN shall use the following criteria to identify a trauma center candidate and the most appropriate destination for transport (see Trauma Decision Tree Algorithm attachment T-460(a)-01):
1. Physiologic Criteria: Glasgow Coma Score (GCS) < 14, Abnormal Vital Signs, Appearance, Work of Breathing and/or Circulation.
 2. Anatomic Criteria: Patients with significant anatomic injury.
 3. Mechanism of Injury: Patients sustaining a significant mechanism of injury, which may be indicative of severe underlying injury.
- B. Transportation:
1. The adult patient who is identified as a trauma candidate will be transported to the most appropriate designated adult trauma center.
 2. The pediatric patient who is identified as a trauma candidate will be

Approved:



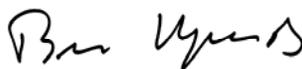
EMS Medical Director

**SUBJECT: IDENTIFICATION AND TRANSPORTATION
OF THE TRAUMA CENTER CANDIDATE**

Date: 7/1/08

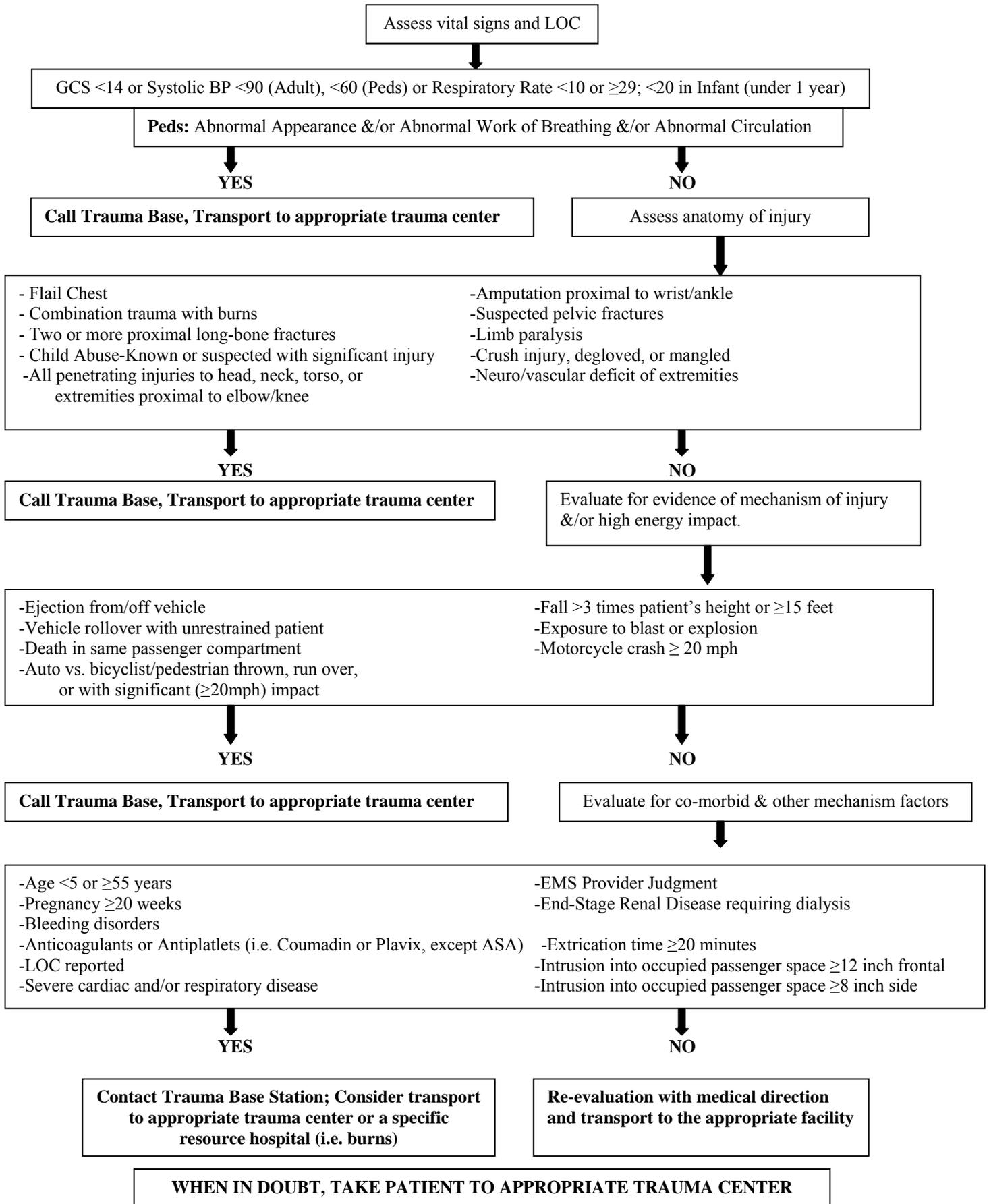
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- transported to the designated pediatric trauma center (Children's).
3. If there is a single ambulance (air/ground) with both a pediatric trauma center candidate AND an adult trauma center candidate, the ambulance should deliver the more critical patient to the appropriate facility. If both patients are critical, or if there are questions, both may be delivered to the designated adult trauma center. Field personnel should consider splitting the team using additional ALS transport vehicles, or air medical resources to transport the pediatric patient to a pediatric designated trauma facility and the adult to the catchment area trauma facility.
 4. If the designated pediatric trauma center is "on bypass", pediatric trauma candidates should be delivered to the Level 1 adult designated trauma facility (UCSD).
- C. The Trauma Decision Tree Algorithm (attached) is an educational guideline to assist in identification of the trauma candidate and does not exclude a patient from identification and transportation to a designated trauma center if in the judgment of the base hospital, it is in the patient's best interest.
- D. All Prehospital Personnel will be trained in trauma triage as part of standard agency/facility orientation curriculum and upon any changes in trauma triage criteria.

Approved:



EMS Medical Director

TRAUMA DECISION TREE ALGORITHM



SUBJECT: DESTINATION OF ACUTE STROKE PATIENT

Date: 4/01/2011

- I. **Authority:** Health and Safety Code, Sections 1798. and 1798.170.
- II. **Purpose:**
To identify hospitals that may receive 9-1-1 patients with symptoms of acute stroke.
- III. **Policy:**
 - A. Patients with a documented onset of acute stroke symptoms within the previous 4 hours shall be taken to a hospital with a basic emergency facility that has the following qualifications:
 1. Identification of an individual to coordinate stroke care activities, with appropriate neurology input.
 2. A team to respond to acute stroke patients. A protocol for the use of intravenous thrombolytic medication, including a demonstrated ability to administer.
 3. Ability to obtain and read a CT scan of the head promptly (goal within 45 minutes of order).
 4. Written care protocols for evaluation and care of the acute stroke patient.
 5. Care pathways for stroke patients including, e.g., cardiac rhythm monitoring and blood pressure monitoring and treatment.
 6. In-house rehabilitation services or transfer plan for rehabilitation.
 7. A registry or other method for tracking acute stroke patients as defined above.
 8. Performance measures for stroke care, and a quality improvement system for stroke care.
 - B. Identified hospitals shall note on the prehospital Quality Assurance Network Collector

Document revised 4/1/2011

Approved:



Administrator



Medical Director

SUBJECT: DESTINATION OF ACUTE STROKE PATIENT

Date: 4/01/2011

System (QCS) computer resource screen if they are unable to receive acute stroke patients (e.g. CT scanner down, resource lack).

- C. The County of San Diego Emergency Medical Services Branch may confirm availability of the services and may conduct on site visits to ensure compliance with established criteria. Certification as a Primary Stroke Center by the Joint Commission on the Accreditation of Healthcare Organizations is evidence of compliance.

Document revised 4/1/2011

Approved:



Administrator



Medical Director

SUBJECT: AIR MEDICAL SUPPORT UTILIZATION

DATE: 07/01/04

- I. **Authority:** Health and Safety Code, Section 1797.204, 1797.206, 1797.218. County of San Diego, Ambulance Ordinance, No 8787
- II. **Purpose:** To establish guidelines for the use of air medical resources within the San Diego County EMS system.
- III. **Policy:** The San Diego County EMS system shall include the utilization of authorized air medical resources.
 - A. Any public safety agency on scene or a Base Hospital may call for air medical support. Considerations for utilization of air medical transport include:
 1. A delay in ground transport could pose an immediate threat to the patient's health and safety,
 2. The difference between ground vs. air transport time and patient condition,
 3. Length of extrication time,
 4. The skill level of the transporting ground unit personnel,
 5. Any specific operational problems precluding effective use of surface transport such as:
 - a. weather
 - b. traffic
 - c. access/egress routes
 - d. local resource capabilities during time unit will be out of service
 - e. multi-casualty incidents.
 6. Utilization of Air Ambulance
 - a. For a patient whose condition warrants rapid transport to medical facility.
 - b. For a patient whose condition requires advanced skills, not available on a paramedic unit.



Administration



EMS Medical Director

SUBJECT: AIR MEDICAL SUPPORT UTILIZATION

DATE: 07/01/04

- c. For multiple patient incidents when ground transport resources are inadequate.
7. Utilization of ALS rescue aircraft
- a. Utilize for rescue/rendezvous purposes primarily. Patient care shall be transferred after rescue efforts to the provider on scene with the most appropriate level of care required by patient condition.
 - b. ALS Rescue Aircraft shall only transport patients in coordination and conjunction with Air Ambulance agencies.
8. Utilization of Auxiliary Rescue Aircraft
- a. Utilize for rescue/rendezvous purposes only and shall not be for transportation to a medical facility.
 - b. Patient care shall be transferred after rescue efforts to the provider on scene with the most appropriate level of care required by patient condition.
 - c. ALS or BLS ground transport providers shall not transport the patient via Auxiliary rescue aircraft to a medical facility.
- B. It is solely the requesting party's responsibility to cancel EMS air medical resources.



Administration



EMS Medical Director

SUBJECT: DOCUMENTATION AND TRANSFERRAL OF PREHOSPITAL
PATIENT CARE INFORMATION

Date: 7/1/01

- I. **Authority:** Health & Safety Code, Division 2.5 Section 1797.202, 1797.204, 1798.
- II. **Purpose:** To identify minimum patient documentation standards for transferral of prehospital patient information, to meet legal patient documentation requirements, enhance the continuum of care, and provide for EMS system oversight and management.
- III. **Definitions:**
- A. Prehospital Patient Record (PPR): That document, approved and required by the County and completed either electronically or on paper, that officially records prehospital patient information.
- B. Patient Response: A response to an individual who meets any of the following criteria:
1. Is an emergency patient (refer to S-412 for definition) or a patient for whom base hospital contact was made.
 2. Meets obviously dead criteria or who has a DNR or equivalent documentation.
 3. Transported by a BLS or CCT unit.
- IV. **Policy:**
- A. A PPR shall be completed for every patient response:
1. Each agency making patient contact shall complete a PPR which includes personnel from that agency who participated in that patient's care (assessment, treatment, advice, transport). If an agency responds more than one vehicle, the agency may combine information onto a single PPR listing patient care personnel, or submit individual PPRs for each vehicle responding.
 2. In addition to the above, agencies may submit PPR's for all non-patient responses for statistical analysis by the Division of EMS.
 3. In all incidents involving more than one patient one form will be completed for each patient except when the County's mass casualty plan (Annex D) is activated (See Policy S-140).
-

Approved:



Administration



EMS Medical Director

SUBJECT: DOCUMENTATION AND TRANSFERRAL OF PREHOSPITAL
PATIENT CARE INFORMATION

Date: 7/1/01

- B. The PPR shall be completed in accordance with instructions provided in the County's Prehospital Patient Record Instruction Manual.
- C. When patient care is transferred, field personnel shall give a verbal patient care report to the receiving caregiver. This verbal report will relay pertinent history, vital signs, intervention, and response to treatment such that care may be transferred.

V. **Data Collection and Evaluation:**

Data collected by the Division of Emergency Medical Services from the Prehospital Patient Records and base hospital reports shall be stored by the County Division of EMS and used for overall system evaluation.

Approved:



Administration



EMS Medical Director

SUBJECT: **Emergency Medical Technician/Public Safety-Defibrillation
Data Collection and Evaluation**

Date: 2/15/99

- I. **Authority:** Health and Safety Code, Division 2.5, Sections 1797.170 and 1797.204.
- II. **Purpose:** To establish a data base to effectively evaluate San Diego County's EMT/PS-D System.
- III. **Policy:**
 - A. Data essential to the evaluation of the EMT/PS-D System in San Diego County shall be collected by the Division of Emergency Medical Services in conjunction with Base Hospitals and provider agencies.
 - B. Minimum data to be collected for each EMT/PS-D patient shall include:
 1. Age.
 2. Sex.
 3. Place of occurrence.
 4. Witnessed/unwitnessed cardiac arrest.
 5. The initial monitored rhythm.
 6. Total number of defibrillatory shocks.
 7. Time in minutes from call received to first analysis.
 8. Outcome.
 9. Any bystander CPR and by whom.
 - C. The above patient data will be sent to Division of Emergency Medical Services quarterly by the fifth day of the following months: January, April, July, October.

Approved:

Gail F Cooper

Administration

M. L. G. G. G.

Medical Director

**SUBJECT: Emergency Medical Technician/Public Safety-Defibrillation
Data Collection and Evaluation**

Date: 2/15/99

D. Data collected by the Division of Emergency Medical Services from the EMS Prehospital Patient Record shall be stored by the Division of Emergency Medical Services, and used for overall system evaluation, while maintaining patient confidentiality.

1. The Division of Emergency Medical Services shall distribute routine reports, summarizing data received, to provider agencies and Base Hospitals. Format of these reports will be developed by the Division of Emergency Medical Services in conjunction with the provider agencies and the Base Hospitals.
2. Requests for data for specific research projects must be submitted to the Division of Emergency Medical Services by the first of the month in which the data is required.

Approved:

Gail F Cooper

Administration

M. L. G. G. G.

Medical Director

SUBJECT: **Transfer of Patient Data/Medical Record**

Date: 2/15/99

- I. **Authority:** Health and Safety Code, Division 2.5, Sections 1797.170, 1797.204, 1797.220 and 1798.
- II. **Purpose:** To establish guidelines in transferring and acquiring EMT/PS-D patient care data.
- III. **Policy:** Transfer of patient data shall occur in accordance with policies and procedures mutually established between provider agencies, Base Hospitals and the Division of Emergency Medical Services.
- IV. **Procedure:**
- A. Each provider agency shall develop a procedure for relinquishing the EMT/PS-D event record to the assigned Base Hospital to include:
1. The event record, and EMT/PS-D form shall be sent to the BHDMD or designee within 24 hours of the run.
 2. Event record shall be forwarded to the assigned Base Hospital representative within seven (7) days of incident.
 3. Event record will be handled in accordance with Base Hospital medical records policy.
 4. Event record is utilized for quality assurance and continuing education purposes only per San Diego County policy D-721.
- B. Transfer of patient data may occur between the Base Hospitals, provider agencies and Division of Emergency Medical Services for continuing education and quality assurance purposes.

Approved:

Gail F Cooper

Administration

M. L. G. Cooper MD

Medical Director

SUBJECT: Esophageal Tracheal Airway Device Data Collection and Evaluation

Date: 2/15/99

- I. **Authority:** Health and Safety Code, Division 2.5, Sections 1797.170 and 1797.204.
- II. **Purpose:** To establish a data base to effectively evaluate San Diego County's Esophageal Tracheal Airway Device (ETAD or "Combitube[®]") System.
- III. **Policy:** Data essential to the evaluation of the ETAD System in San Diego County shall be collected by the Division of Emergency Medical Services (EMS) in conjunction with base hospitals and provider agencies.
- A. Minimum data to be collected for all patients that meet criteria for ETAD insertion shall include:
1. Age of patient.
 2. Sex.
 3. Type of call - medical or trauma.
 4. Person and agency providing care.
 5. Number of attempts (successful vs. unsuccessful).
 6. Explanation if patient met criteria, and there was no ETAD insertion.
 7. Base hospital
 8. Time interval between BLS and ALS arrival.
 9. Field complication (if any) with insertion.
 10. Was ETAD replaced in field with ET?
 - a. why?
 - b. by whom?
 - c. when?
 11. Field O₂ saturation acquired by pulse oximeter (if available).
 12. ABGs on ED arrival (if available).

Approved:

Gail F Cooper

Administration

M. L. G. Cooper MD

Medical Director

SUBJECT: Esophageal Tracheal Airway Device Data Collection and Evaluation

Date: 2/15/99

- 13 Patient status (survived/expired).
- B. The above patient data shall be sent to the controlling base hospital within 48 hours for entry into the QA Net.
- C. Data collected shall be used for system and patient care improvements, assuring confidentiality of patient records.
- D. The Division of Emergency Medical Services shall distribute quarterly reports, summarizing data received, to provider agencies and base hospitals.

Approved:

Gail F Cooper

Administration

M. L. G. G. G.

Medical Director

- I. **Authority:** Health and Safety Code, Sections 1797.204, 1797.220, 1798.2, 1798.100, 1798.102, and 1798.104.
- II. **Purpose:** To establish a mechanism for designation of an acute care hospital as a Paramedic Base Hospital.
- III. **Policy:**
 - A. To be designated as a Paramedic Base Hospital in San Diego County, the requesting institution must:
 1. Comply with California Code of Regulations, Title 22, Division 9, Chapter 4.
 2. Enter into a contract with the County of San Diego, Health and Human Services Agency, Emergency Medical Services Branch (County EMS) to perform as a Base Hospital.
 3. Comply with the County of San Diego's Base Hospital Contract.
 - B. County EMS shall review the Contract with each Paramedic Base Hospital every three years. The Base Hospital Contract may be changed, renewed, canceled, or otherwise modified when necessary according to provisions for such in the Contract.
 - C. County EMS may deny, suspend, or revoke the approval of a Paramedic Base Hospital for failure to comply with applicable policies, procedures, protocols, or regulations in accordance with provisions for such in the Contract.
 - D. Additional Paramedic Base Hospitals may be added to the Emergency Medical Services System on the basis of demonstrated local need.

Document revised 3/1/2011

Approved:



Administration



EMS Medical Director

SUBJECT: PARAMEDIC BASE HOSPITAL DESIGNATION

Date: 3/01/2011

1. Demonstrated local need shall include, but not be limited to an assessment of:
 - a. Base Hospital call volumes.
 - b. Base Hospital ALS unit and prehospital personnel assignments.
 - c. Current system effectiveness.
2. County EMS, shall review the need for supplemental Base Hospitals annually.
3. Changes in the EMS System as it relates to the number of Base Hospitals shall be forwarded to the Board of Supervisors for approval.

IV. Procedure:

- A. County EMS develops a Request for Proposal (RFP) for Base Hospital Designation based on previously identified need and established Base Hospital criteria for submittal to Board of Supervisors for approval.
- B. County EMS evaluates proposals, including independent review process and on-site evaluation.
- C. County EMS recommends to the Board of Supervisors the addition of Base Hospital in accordance with established County Policies and State Regulations.
- D. County EMS shall approve the newly designated Base Hospital's implementation plan. The implementation plan shall include, but is not limited to, the following:
 1. Evidence of a continuous quality improvement process that can incorporate into the Local and State EMS Plans, inclusive of policies, procedures and protocols.

Document revised 3/1/2011
Approved:


Administration


EMS Medical Director

SUBJECT: PARAMEDIC BASE HOSPITAL DESIGNATION

Date: 3/01/2011

2. Evidence of the ability to provide initial and continuing prehospital education to all categories of prehospital personnel.
3. Community outreach programs.
4. Orientation of the community to the hospital's new role.
5. Evidence of ability to collect and manage data.
6. Communications systems to include all satellite and other base facilities.
7. Time line of scheduled implementation.

Document revised 3/1/2011

Approved:



Administration



EMS Medical Director

SUBJECT: DESIGNATION OF A PARAMEDIC BASE HOSPITAL

Date: 07/01/05

- I. **Authority:** Division 2.5, Health and Safety Code, Section 1798.100 through 105.
- II. **Purpose:** To establish a mechanism for termination of Paramedic Base Hospital designation.
- III. **Policy:**
 - A. Termination for Cause:
 1. County of San Diego, Health and Human Services Agency Emergency Medical Services Branch (EMS Branch) may immediately terminate the Base Hospital Contract if a Base Hospital's license to operate as a general acute care hospital is revoked or suspended.
 2. County of San Diego may immediately suspend its Contract upon written notice if a Base Hospital is in gross default of material obligation under its agreement, which default adversely affects patient care.
 3. For any other material breach of its agreement, County of San Diego may terminate a Base Hospital Contract for cause, if the cause is not cured within 15 days after a written notice specifying the cause is delivered. Such cause shall include, but not be limited to:
 - a. Failure to comply with material terms and conditions of the Base Hospital Contract, after notice of the failure has been given.
 - b. Failure to make available sufficient personnel as required by the Contract.
 - c. Gross misrepresentation or fraud.
 - d. Substantial failure to cooperate with the County's monitoring of Base Hospital

Approved:

Patricia Menni

Administration

[Signature]

EMS Medical Director

SUBJECT: DESIGNATION OF A PARAMEDIC BASE HOSPITAL

Date: 07/01/05

services.

- e. Substantial failure or refusal to cooperate with quality assurance and audit
- f. findings and recommendations within a reasonable time.

- 4. If, within the fifteen (15) days after delivery of the written notice of cause, the material breach has not been cured to the reasonable satisfaction of the County's representative, then the County may terminate the Base Hospital Contract effective as of a date specified in a written notice of termination delivered thereafter.
- 5. If, after notice of termination of the Base Hospital contract for cause, which is not voluntarily withdrawn as stated above, it is determined for any reason that the Base Hospital was not in default under the provisions of this clause, or that the default was excusable under the provisions of this clause, the rights and obligations of the parties shall be the same as if the notice of termination had been issued pursuant to the termination for convenience agreement.

B. Termination for Convenience:

Either the County or the Base Hospital may terminate the Base Hospital contract, upon thirty (30) days written notice to the other party, as a termination for convenience.

- C. Upon the de-designation of a Base Hospital, the local EMS Agency shall be responsible for system redesign decisions.

Approved:

Patricia Menni

Administration

[Signature]

EMS Medical Director

SUBJECT: TRAUMA CARE FUND

Date: 7/01/2008

- I. **Authority:** Health & Safety Code, Division 2.5, Chapter 2.5, Section 1797.198, 1797.199
- II. **Purpose:** To establish a process for the administration and disbursement of fiscal resources in the Trauma Care Fund to trauma centers based upon submission of trauma registry data.
- III. **Definitions:**
- A. **Trauma Care Fund Inclusion Criteria**
1. ICD-9 code ranging between 800 to 959.9, **and**
 2. Trauma center admission to the hospital, **and**
 3. Evaluated by a trauma or burn surgeon in the emergency department or resuscitation area, **or**
 4. Trauma related death **and** ICD-9 code ranging between 800 to 959.9, **or**
 5. Interfacility transfer in/out for a higher level of trauma care **and** ICD-9 code ranging between 800 to 959.9
- B. **Trauma Care Fund Exclusion Criteria:**
1. Had isolated burn without penetrating or blunt injury, **or**
 2. Were discharged from the Emergency Department or Trauma resuscitation area, **or**
 3. Trauma consult patients who were not admitted to the trauma service.
- IV. **Policy**
- A. The Trauma Care Fund has been established as a means to administer and distribute monies from the State Treasury Trauma Care Fund which have distributed to the Local Emergency Medical Services Agency based upon trauma registry data.
- B. The County shall distribute all monies received into the trauma care fund to eligible trauma centers, except for 1% that will be allocated to the County for administrative costs.
- C. The County will use specified methodology or a competitive grant based system for distribution of the funds based on established criteria.
- D. If additional State Treasury Trauma Fund monies are available after the initial distribution, the County shall submit a request to the EMS Authority

Approved:



Administrator



Medical Director

SUBJECT: TRAUMA CARE FUND

Date: 7/01/2008

for additional funding. The County will develop a methodology for distribution of any additional monies received into the Trauma Care Fund. The Trauma Administrators Committee will function as an advisory committee to the County on distribution of the Trauma Care Fund.

- E. An application will be made to the EMS Authority for any additional trauma centers, which are designated within the County after July 1 and before January 1 of any fiscal year in which funds are distributed.
- F. If a designated trauma center de-designates prior to June 30 during a fiscal year in which it has received Trauma Care Funds, the trauma center will pay back to the County a pro rata portion of the funds it has received. The returned monies will then be distributed to the remaining trauma centers. If no designated trauma centers remain within the County, the County will return the monies to the EMS Authority.
- G. A contract will be completed for each designated trauma center receiving monies from the Trauma Care Fund. The contract will include:
 - 1. Trauma registry data transmission to the County for the purposes of Trauma Care Fund distribution.
 - 2. Invoice mechanism will be used for the distribution of allocated trauma care funds..
 - 3. Distribution methodology for any remaining monies in the Trauma Care Fund.
 - 4. Report to the County on how the funds were used to support trauma services.
 - 5. The trauma center shall demonstrate that it is appropriately submitting data to the trauma registry, and participate in audit process by EMS on annual basis.
 - 6. The funds shall not be used to supplant existing funds designated for trauma services, including medical staff coverage or training ordinarily provided by the trauma hospital.
- H. The County will conduct an annual audit of the Trauma Care Fund Contract within two years of a distribution. The audit will include monitoring for compliance with:
 - 1. Data submission requirements

Approved:



Administrator



Medical Director

SUBJECT: TRAUMA CARE FUND

Date: 7/01/2008

2. Distribution methodology
3. Appropriate spending of Trauma Care Fund monies on trauma services.
 - I. The County will provide trauma registry data to the Emergency Medical Services Authority within 45 days of each request.
 - J. The County will utilize the standardized reporting criteria of trauma patients to the State Trauma Registry by July 1, 2003 or as determined by the EMS Authority.
 - K. The County will provide to the EMS Authority an annual fiscal year report by December 31 following any fiscal year in which Trauma Care Funds were distributed.

Approved:



Administrator



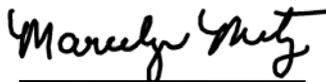
Medical Director

SUBJECT: TRAUMA CATCHMENT SERVICE AREA

Date: 7/1/2008

- I. **Authority:** Division 2.5 Health & Safety Code, Section 1798.161, 1798.163
- II. **Purpose:** To designate catchment service areas for each designated trauma center.
- III. **Definitions:**
- Trauma Catchment Area – Geographic Area with defined boundaries assigned to a designated trauma center for purposes of care of patients identified as trauma candidates.
- IV. **Policy:**
- A. The adult patient who is identified as a trauma candidate will be transported to the most appropriate adult trauma center assigned per geographic designation per policy T-460: Identification and Transportation of the Trauma Center Candidate, the Trauma Catchment Area Boundary Guidelines and the San Diego Trauma Catchment Maps.
- B. The pediatric patient who is identified as a trauma candidate will be transported to the most appropriate pediatric trauma center per geographic designation per policy T-460: Identification and Transportation of the Trauma Center Candidate, the Trauma Catchment Area Boundary Guidelines and the San Diego Trauma Catchment Maps.
- C. The pediatric patient who is identified as a trauma candidate will be transported to the designated pediatric trauma center. When the pediatric trauma center is on bypass, including age specific bypass, the pediatric patient will be transported to a Level I trauma center (UCSD).

Approved:



Administrator



Medical Director

SUBJECT: ROLE OF THE PEDIATRIC TRAUMA CENTER

Date: 7/1/2008

I. **Authority:** Health & Safety Code, Division 2.5 Chapter 6. Section 1798.165 and 1799.205.

II. **Purpose:** To define the role and requirements of a designated pediatric trauma center.

III. **Definitions:**

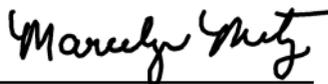
Pediatric Trauma Center – a facility which has been designated by the San Diego County Emergency Medical Services Branch to provide comprehensive care to the injured pediatric patient <15 years of age, who meets major trauma candidate criteria.

IV. **Policy:**

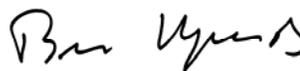
A Pediatric Trauma Center shall:

- A. Meet or exceed compliance standards set forth within the San Diego County Pediatric Trauma Center Agreement.
- B. Participate in the Committee on Pediatric Emergency Medicine (COPEM), providing expertise in pediatric trauma care issues.
- C. Participate in injury prevention and community education activities related to children.

Approved:



Administrator



Medical Director

SUBJECT: **TRAUMA CARE COORDINATION WITHIN THE TRAUMA
SYSTEM**

Date: 7/1/2007

- I. **Authority:** Health and Safety Code, Division 2.5, Sections 1797.200 and 1798.163
- II. **Purpose:** To define the coordination of trauma care within the San Diego County Emergency Medical Services (EMS) System, and with neighboring jurisdictions.
- III. **Policy**

The Health & Human Services Agency, Emergency Medical Services Branch is required to assure coordination of trauma care services and trauma system compliance with state and local regulations. This shall be accomplished through the following System design that assures:

- A. Adequate numbers of trauma centers to meet the needs of the population and incidents of trauma in the county.
- B. A coordinated response for the provision of advanced life support (ALS) and trauma care services within and around San Diego County through ALS inter-county agreements with neighboring and remote EMS jurisdictions.
- C. Active duty military personnel and their dependants involved in traumatic incidents are integrated into the San Diego County Trauma System.
- D. System oversight to assure that patients needing trauma services receive such services, including:
1. Transportation of trauma patients to designated trauma facilities.
 2. Required personnel and resources to provide the appropriate level of service are available at designated trauma facilities.
 3. Trauma team activation criteria are defined and provided at designated trauma facilities.
 4. The trauma registry is maintained for the purpose of monitoring system operations.
 5. A quality monitoring system that assures compliance with all applicable state laws, regulations and local policies, procedures and contractual arrangements.
 6. Public awareness and education on injury prevention.

Approved:



Administrator



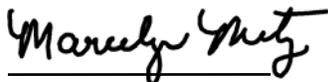
Medical Director

SUBJECT: DESIGNATION OF A TRAUMA CENTER

Date: 7/1/2008

-
- I. **Authority:** Division 2.5 Health and Safety Code, Section 1798.164, 1798.165
- II. **Purpose:** To define the process and procedure for designating a Trauma Center to the Trauma Care System.
- III. **Definitions:**
- IV. **Policy**
- A. The need for additional designated Trauma Centers shall be determined by the Health & Human Services Agency, Emergency Medical Services Branch. An additional Trauma Center may be added to the Trauma Care System on the basis of demonstrated local need, which shall include, but not be limited to an assessment of:
1. Prehospital response times
 2. Population shifts/increases
 3. Current system effectiveness
 4. Available prehospital/hospital resources
- B. The Board of Supervisors shall approve recommendations as to the number of Trauma Centers.
- C. The designation of an additional trauma center will occur via a competitive bid process.
- D. Upon designation, each trauma center will pay an initial and thereafter annual fee of \$40,000.00 per year to the County of San Diego, Emergency Medical Services Branch.

Approved:



Administrator



Medical Director

SUBJECT: DESIGNATION OF A TRAUMA CENTER

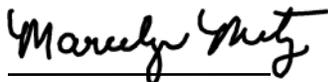
Date: 7/1/2008

- E. The designation of a trauma center for purposes of the Emergency Medical Services System of the County of San Diego confers upon the facility, the recognition that it has the commitment, personnel and resources necessary to provide optimum medical care for the trauma patient.
- F. Each trauma center shall meet the criteria set forth in the trauma center agreement and demonstrate a continuous ability and commitment to comply with policies, protocols and procedures developed by the Emergency Medical Services Branch.
- G. Each trauma center shall undergo an annual performance evaluation based upon the trauma center agreement. Results of the evaluation shall be made available to the facility.
- H. All designated trauma centers shall participate in the quality improvement process per the Quality Assurance Manual.

V. Procedure:

- A. Health & Human Services Agency, Emergency Medical Services Branch develops and distributes a Request for Proposal (RFP) for Trauma Center Designation.
- B. Health & Human Services Agency, Emergency Medical Services Branch evaluates the proposals, including independent review process and on-site evaluation and makes recommendations to the Board of Supervisors.

Approved:



Administrator



Medical Director

SUBJECT: DE-DESIGNATION OF A TRAUMA CENTER

Date: 7/1/2008

- I. **Authority:** Division 2.5, Health and Safety Code, Section 1798.163.
- II. **Purpose:** To establish a policy and procedure for de-designation of a trauma center.
- III. **Policy**
- A. Termination for Cause:
1. County may immediately terminate its Trauma Center Agreement if a trauma center's license to operate as a general acute care hospital is revoked or suspended.
 2. County may immediately suspend its Agreement upon written notice if a trauma center is in gross default of material obligation under its Agreement, which default could adversely affect patient care provided by Contractor.
 3. For any other material breach of its agreement, County may terminate a trauma center contract for cause, per the language of the Agreement. Such cause shall include, but not be limited to:
 - a. Failure to comply with material terms and conditions of the trauma center contract, after notice of the failure has been given.
 - b. Failure to make available sufficient, qualified personnel and hospital resources to provide immediate care for trauma patients as required by Section C of the contract.
 - c. Failure to provide timely surgical coverage for trauma patients as required by Section C of the contract.

Approved:



Administrator



Medical Director

SUBJECT: DE-DESIGNATION OF A TRAUMA CENTER

Date: 7/1/2008

- d. Failure to provide physicians, surgeons, and other medical, nursing and ancillary staff who possess that degree of skill and learning ordinarily possessed by reputable medical personnel in like or similar localities and under similar circumstances for the provision of trauma center medical services.
- e. Gross misrepresentation or fraud.
- f. Substantial failure to cooperate with the County's monitoring of trauma center services and base hospital services.
- g. Substantial failure or refusal to cooperate with quality assurance and audit findings and recommendations within a reasonable time.

B. Termination for Convenience:

Either the County or the Trauma Center may terminate the trauma center contract, as a termination for convenience per the language of the Agreement.

- C. Upon the de-designation of a trauma center, the local EMS Agency shall be responsible for system redesign decisions.

Approved:



Administrator



Medical Director

SUBJECT: TRAUMA CENTER BYPASS

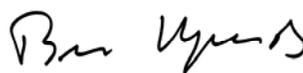
Date: 7/1/2008

- I. **Authority:** Division 2.5, Health and Safety Code, Section 1798.163.
- II. **Purpose:** To establish criteria for trauma center bypass.
- III. **Policy:**
 - A. The in-house trauma surgeon is responsible for determining bypass status of his/her Trauma Center and will utilize the following criteria for making this determination. The Trauma Center may go on bypass status if one of the following criteria is met:
 1. Time (30 minutes) is needed to obtain a backup trauma surgeon, neurosurgeon or anesthesiologist because the primary physician is occupied with another trauma patient.
 2. Time (1 hour) is needed to identify a second operating room because the primary room is being utilized and another is not readily available.
 3. Two or more trauma patients with major injuries are being resuscitated in the trauma room (1 hour).
 4. The hospital is closed due to internal disaster.
 5. The trauma center is activated during an external disaster (Annex D).
 6. Time (1 hour) the CT scanner is being serviced or is broken. The trauma center can accept penetrating injuries excluding head or neck.
 - B. When a trauma center is on bypass, the patient should be redirected to another trauma center, taking into consideration transport time, the patient's medical needs and the institution's available resources.
 - C. Trauma center personnel will immediately enter both the initiation and reasons/conditions for bypass into the San Diego County Quality Assurance Network Collector system (QCS). At the time of change in condition of trauma center bypass status, trauma center personnel shall update the QCS.
 - D. The trauma center will provide reviews of variations from this policy to the Medical Audit Committee via the EMS Branch as requested for purposes of trauma system quality assurance.
 - E. A trauma center should use its best efforts to limit bypass to less than 5% of the total available hours on a monthly basis.

Approved:



Administrator



Medical Director

- I. **Authority:** Health & Safety Code, Division 2.5, Section 1798.163
- II. **Purpose:** To identify the trauma center resources, which must be available for trauma team activation

III. **Definitions:**

Immediately Available – means unencumbered by conflicting duties or responsibilities; responding when notified without delay; and being within the specified resuscitation area of the trauma center when the patient is delivered.

Promptly Available – means responding without delay when notified and requested to respond to the hospital; and being physically available to the specified area of the trauma center within a period of time that is medically prudent (within 30 minutes, 24 hours per day, 7 days per week).

IV. **Policy**

- A. The following resources shall be available for trauma center candidates requiring full trauma team activation:
1. Immediately Available:
 - a. Qualified Trauma Surgeon
 - b. Emergency Department Physician
 - c. Trauma Resuscitation Nurse responsible for the supervision of nursing care during the resuscitation phase
 - d. Registered Nurse currently trained in trauma patient care to perform care duties, scribe, etc
 - e. Respiratory Therapy

Approved:



Administrator



Medical Director

SUBJECT: RESOURCES FOR TRAUMA TEAM RESPONSE

Date: 7/1/2008

- f. Radiology
- g. Laboratory
- h. Operating Room
- i. Pharmacy

2. Promptly Available:

Trauma Consultants as requested by the Trauma Surgeon

B. Trauma center candidates not requiring full trauma team activation require, at a minimum, the following resources with a physical evaluation by the Trauma Surgeon:

- 1. Qualified Trauma Surgeon
- 2. Emergency Department Physician
- 3. Registered Nurse currently trained in trauma patient care.

C. The use of a tiered trauma response is encouraged in an effort to conserve resources and reduce the cost of trauma care.

D. All departments involved in the delivery of trauma care must have equipment and supplies for all ages of patients as approved by the Medical Director of the Service in collaboration with the Trauma Medical Director.

Approved:



Administrator



Medical Director

SUBJECT: TRAUMA SERVICE CONSULTATION FOR THE COMMUNITY Date: 12/01/2007

I. **Authority:** Health & Safety Code, Division 2.5, Health and Safety Code, Section 1798.163.

II. **Purpose:** To establish the criteria for trauma consultation with community physicians.

III. **Policy**

A San Diego County Trauma Center shall provide:

A. Medical consults with community physicians and providers regarding the immediate management of trauma patients.

B. Trauma care information, education and follow-up to other medical care providers in their service area on a routine basis. The Trauma Program Medical Director or designee shall meet with satellite hospital personnel for this purpose when necessary.

Approved:



Administrator



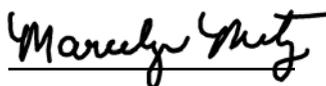
Medical Director

**SUBJECT: TRANSFER OF STABLE TRAUMA SERVICE
HEALTH PLAN MEMBERS**

Date: 12/01/2007

- I. **Authority:** Health and Safety Code, Division 2.5, Sections 1798.163 and 1798.172
- II. **Purpose:** To establish guidelines for transfer of stable trauma patients to their health plan's facility.
- III. **Policy**
- A. It is the intent of the trauma system to transfer stable trauma patients to their health plan provider's facility when requested, as long as such transfer is medically prudent and in the best interest of the patient. All requests/discussions concerning transfer status of the patients will be made physician to physician. Transfer agreement will be based on patient condition and appropriateness of receiving facility resources.
- B. Unless otherwise decided by the trauma surgeon of record, no patient requiring acute care admission will be transferred to a hospital that is not a designated trauma center in less than twenty-four hours.
- C. The decision as to transfer of post-operative, intensive care or other acute care patients lies solely with the trauma surgeon of record.
- D. Hospitals which have accepted transfer of a trauma patient from a designated trauma center shall:
1. Provide the information required to complete the trauma registry on that patient to the transferring trauma center.
 2. Participate in system and trauma center quality improvement activities for that patient who has been transferred.

Approved:



Administrator



Medical Director

SUBJECT: TRANSFER OF STABLE TRAUMA SERVICE
HEALTH PLAN MEMBERS

Date: 12/01/2007

- E. Trauma center candidates cared for at San Diego County designated trauma centers may require extensive diagnostic evaluation or immediate treatment. Trauma center evaluation does not necessitate pre-approval by the patient's insurer.

Approved:



Administrator



Medical Director

SUBJECT: **TRAUMA CENTER INJURY PREVENTION ACTIVITIES**

Date: 7/1/2007

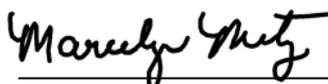
- I. **Authority:** Health & Safety Code, Division 2.5 Chapter 6 Section 1798.163
- II. **Purpose:** To establish minimum standards for County of San Diego Trauma System's injury prevention activities/programs.

III. **Policy:**

The Health & Human Services, Emergency Medical Services (EMS) Branch will provide epidemiological injury information in support of efforts by trauma centers, injury prevention coalitions and public health initiatives to implement targeted injury prevention goals. The County of San Diego's Trauma System injury prevention program includes:

- A. Each designated trauma center will participate in injury prevention activities.
- B. Prevention activities may be autonomous or collaborative with existing organizations/agencies and/or other designated trauma centers (individually or as a system).
- C. Injury prevention topics will be based upon:
1. Identification of injury trends through utilization of the trauma registry.
 2. Community mortality data provided by the Medical Examiners Office.
 3. Community identified injury risks (may be seasonal).
- D. Prevention activities/programs will be based upon identified need and includes objective goals and outcome evaluation.
- E. EMS will develop and publish epidemiological data on an annual basis, providing injury information and the etiology of injury based on trauma registry and other data sources.

Approved:



Administrator



Medical Director

SUBJECT: PUBLIC INFORMATION & EDUCATION
ON TRAUMA SYSTEMS

Date: 12/01/2007

- I. **Authority:** Health & Safety Code, Division 2.5 Chapter 6, Section 1798.163, California Code of Regulations, Title 22, Division 9, Section 100255 (r).
- II. **Purpose:** To establish minimum standards for designated trauma centers to participate in public information and education about the trauma system.
- III. **Policy**
 - A. Each designated trauma center will participate in providing the public/community with information and education regarding the San Diego County Trauma System.
 - B. Public Information and Education programs may be autonomous or collaborative with existing organizations/agencies and/or with other designated trauma centers.
 - C. Public Information and Education may be incorporated into Injury Prevention Programs and other public information venues.

Approved:



Administrator



Medical Director

SUBJECT: TRAUMA PROVIDER MARKETING AND ADVERTISING

Date: 12/01/2007

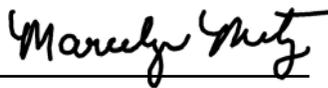
- I. **Authority:** Health & Safety Code, Division 2.5, Sections 1789.163, 1798.165
- II. **Purpose:** To provide a guideline for the utilization of the trauma terminology in marketing and advertising by a trauma care provider within the San Diego Emergency Medical Services (EMS) System.

III. **Policy**

The Emergency Medical Services Branch has the responsibility to authorize use of the term "Trauma" in marketing and advertising by any health or trauma care provider.

- A. In accordance with Section 1798.165 of the Health & Safety Code, "No health care provider shall use the terms; trauma facility, trauma hospital, trauma center, trauma care provider, trauma vehicle or similar terminology in its signs or advertisements, or in printed materials and information it furnishes to the general public, unless the use is authorized by the local EMS agency".
- B. Requests for such authorizations are to be submitted to the EMS Coordinator for Trauma at the Emergency Medical Services Branch.

Approved:



Administrator



Medical Director

SUBJECT: DESIGNATION OF PUBLIC SAFETY-
AUTOMATED EXTERNAL DEFIBRILLATOR BASE HOSPITAL

Date: 07/01/05

- I. **Authority:** Health and Safety Code, Division 2.5, Sections 1797.170, 1797.204, 1797.220, 1798, 1798.2, 1798.100 and 1798.104, California Code of Regulations Title 22, Division 9, Chapter 2, Section 100063.1.
- II. **Purpose:** To establish a standard mechanism for approval and designation as a Public Safety Automated External Defibrillator (PS AED) Base Hospital.
- III. **Policy:**
- A. To be designated as a PS AED Base Hospital in San Diego County, the requesting institution shall be currently designated as a Base Hospital complying with all requirements, policies, procedures and protocols for a Base Hospital in San Diego County.
- B. A PS AED Base Hospital may delegate any or all of the following to a specified satellite hospital or provider agency if approved by the Base Hospital Medical Director:
1. Field care audits.
 2. Structured training sessions.
 3. Defibrillation skill proficiency demonstrations.

Approved:

Pat Mami

Administration

[Signature]

Medical Director

SUBJECT: QUALITY ASSURANCE FOR EMERGENCY MEDICAL TECHNICIAN
OR PUBLIC SAFETY AUTOMATED EXTERNAL DEFIBRILLATOR

Date: 07/01/05

- I. **Authority:** Health and Safety Code, Division 2.5, Sections 1797.170, 1797.204, 1798 and 1798.102.
- II. **Purpose:** To establish minimum requirements for quality control and assurance of appropriate patient care.
- III. **Policy:**
 - A. The Public Safety (PS) Automated External Defibrillator (AED) provider agency physician or the EMT Automated External Defibrillator (AED) agency coordinator shall establish policies and procedures to review runs to include the following:
 1. Written documentation of compliance/noncompliance of protocols on each run; information to be obtained from the event record.
 2. All shockable rhythms to identify trends or deficiencies and follow-up according to Base Hospital quality assurance process.
 - B. Prehospital issues reportable to Prehospital Audit Committee (PAC).
 1. Malfunctions of the AED machine.
 2. Functioning outside of the scope of practice.
 3. Variation of policies/protocols.
 4. Deviations from safety guidelines.
 - C. The following deviations and deficiencies shall be reported verbally to San Diego County Emergency Medical Services within 48 hours with written documentation to follow.
 1. Functioning outside of the scope of practice.

Approved:

Patricia Menni

Administration

[Signature]

Medical Director

**SUBJECT: QUALITY ASSURANCE FOR EMERGENCY MEDICAL TECHNICIAN
OR PUBLIC SAFETY AUTOMATED EXTERNAL DEFIBRILLATOR**

Date: 07/01/05

2. Deviations from safety guidelines resulting in injury.
- D. The PS AED provider agency physician or the EMT AED agency coordinator and agency shall establish policies to deal with event record storage, retrieval, and disposal. The event record is to be utilized for quality assurance and continuing education purposes only.

Approved:

Patricia Menni

Administration

[Signature]

Medical Director

SUBJECT: DESIGNATION OF PROVIDERS OF
ADVANCED LIFE SUPPORT SERVICE

Date: 3/01/2011

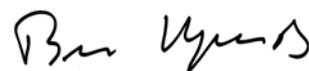
- I. **Authority:** Health & Safety Code, Division 2.5, Sections 1797.204, 1797.206, 1797.218, 1797.220; California Code of Regulations, Division 9, Chapter 4, Article 5.
- II. **Purpose:** To approve and designate Paramedic service providers in San Diego County.
- III. **Definitions:**
- A. Advanced Life Support (ALS) response: Any medical aid call in which Paramedics are dispatched to the scene on a ground transporting unit, and/or any call that has been screened or prioritized in accordance with an approved dispatch plan as necessitating an advanced life support level of response.
- B. Approved Dispatch Plan: A dispatch plan approved by the County of San Diego, Emergency Medical Services (EMS) Branch (EMS Branch).
- C. Local Jurisdiction: a local jurisdiction is the County, a city, water district, fire protection district, or county service area.
- IV. **Policy:**
- A. To be designated as a Paramedic service provider in San Diego County, a local jurisdiction or air ambulance provider designated as a primary response air ambulance in accordance with the San Diego County Ambulance Ordinance, shall:
1. Enter into a written agreement with the EMS Branch to perform as a Paramedic service provider.
 2. Provide ALS service on a continuous 24- hours per day basis.
 3. Provide emergency medical responses in accordance with the following requirements:

Document revised 3/1/2011

Approved:



Administration



Medical Director

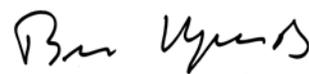
- a. Ground ALS Response: Ensure that at least two Paramedics are initially responded to each ALS response, and that a ground transport vehicle is simultaneously dispatched to all ALS responses, unless an alternate dispatch plan which has been approved by the EMS is in effect. In systems which respond ALS first responder units, the ALS first responder shall be equipped in accordance with EMS Policy P-806 "ALS First Responder Inventory".
 - b. Air Ambulance Response: Ensure that all primary response air ambulances are staffed in accordance with the provisions of the San Diego County Ambulance Ordinance, maintaining a minimum staffing level of one registered nurse and one Paramedic as flight crew.
4. Require that Paramedics establish base hospital contact as outlined in San Diego County Emergency Medical Services Policy S-415.
 5. Require that paramedics maintain a current CPR card (Healthcare Provider/Professional Rescuer or equivalent).
 6. Require that all Paramedics working as a part of the EMS system maintain San Diego County Paramedic Accreditation (Policy P-305).
 7. Integrate with a first responder system.
 8. Enter into mutual aid agreement with adjoining Paramedic agencies whenever possible.
 9. Establish the following planned response times:
 - a. Provide for a planned maximum ground ALS response time of no more than

Document revised 3/1/2011

Approved:



Administration



Medical Director

30 minutes 90% of the time in rural areas and no more than *10 minutes 90% of the time* in urban areas. In systems that incorporate ALS First Responders, the provider shall plan for a maximum ALS First Responder arrival time of *8 minutes 90% of the time* with a maximum ALS ground transport response time of *12 minutes 90% of the time*.

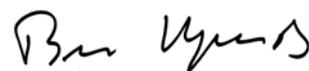
10. Cooperate with the paramedic training agencies in providing paramedic field internship placements.
11. Provide orientation for first responder agencies to advanced life support functions and role.
12. Designate an agency paramedic coordinator.
13. Submit prehospital patient records via approved San Diego County EMS Form 104 or via electronic means.(as per Policy S-601).
14. Agree to participate in community education programs to teach the public 911 access and CPR.
15. Submit to the EMS Branch evidence of compliance with the California Code of Regulations, Title 22, Division 9, Chapter 4, Article 5.
16. Participate in the County of San Diego EMS Quality Improvement Plan based on state and county regulations and policies.
17. Assess the current knowledge of their paramedics in local policies, procedures and protocols and skills competency.
18. Contract with a designated base hospital to provide medical direction and

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Administration



Medical Director

supervision to assigned air medical Paramedic personnel (designated primary response air ambulance providers only).

B. The County of San Diego shall:

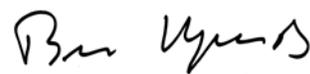
1. Approve paramedic curriculum and training programs.
2. Provide standard for accreditation/authorization and reaccreditation/reauthorization of Paramedics and MICNs in the County.
3. Contract with designated base hospitals to provide immediate medical direction and supervision of assigned prehospital personnel.
4. Provide prehospital patient record forms or alternate electronic reporting mechanism
5. Review agreements with each Paramedic service provider every two years.

Document revised 3/1/2011

Approved:



Administration



Medical Director

SUBJECT: RECOVERY OF PREHOSPITAL PATIENT CARE
REUSABLE EQUIPMENT

Date: 7/1/07

- I. **Authority:** Health and Safety Code, Division 2.5, Section 1797.204.
- II. **Purpose:** To secure and return reusable equipment to the prehospital care provider.
- III. **Policy:**
 - A. All participants in the EMS system shall facilitate the return of properly labeled equipment to the owner agency.
 - B. All agencies in the EMS system agree to buy and stock enough equipment so as not to be dependent upon another agency for immediate item replacement/exchange when faced with normal average workloads.
- IV. **Procedure:**
 - A. Prehospital Agency Responsibilities:
 1. Agencies shall permanently label all reusable equipment in the following manner:
 - a. Agency name and telephone number.
 - b. "Return to Emergency Department." (optional)
 2. Agencies shall make their best effort to recover equipment within seven (7) days.
 3. Prehospital personnel shall log equipment as required by their agency.
 - B. Hospital Responsibilities:
 1. Hospitals shall provide a logbook or similar mechanism to assist in keeping track of equipment left in the hospital.
 2. Hospitals shall be responsible for security on reusable prehospital equipment left in the hospital for up to seven (7) days, when the provider agency has clearly labeled equipment with agency name and telephone number.
 3. Hospitals shall not release equipment to any agency but the owner agency, unless

Approved:


Administration


Medical Director

SUBJECT: RECOVERY OF PREHOSPITAL PATIENT CARE
REUSABLE EQUIPMENT

Date: 7/1/07

there is prior approval by the owner agency.

4. Hospitals shall make every attempt to remove visible contaminants prior to placing equipment in a common storage area.

Approved:


Administration


Medical Director

SUBJECT: ALTERNATE PARAMEDIC SERVICE PROVIDER
APPLICATION/DESIGNATION

Date: 7/01/2010

- I. **Authority:** Health and Safety Code, Division 2.5, Sections 1797.201, 1797.204, 1797.218, and 1797.224.
- II. **Purpose:** To encourage the establishment of new advanced life support (ALS) services in low population density areas that have demonstrated hardship in establishing services at the community standard of care.
- III. **Definitions:**
 - A. Alternate Advanced Life Support (ALS): ALS provided in low population density areas utilizing a Paramedic staffing option other than the current community standard in San Diego County.
 - B. Community Standard: two (2) -paramedics on each advanced life support unit with twenty-four (24) hour per day coverage and a response time of ten (10) minutes or less (urban) and fifteen (15) minutes or less (rural) 90% of the time.
 - C. Low population density area: service area wherein a population does not exceed 750 residents per square mile and is not less than 100 residents per square mile, or where sufficient non-resident or other usage can be demonstrated to justify the service.
 - D. Hardship is one or more of the following situations:
 1. Financial hardship such that service at the community standard of care is impossible.
 2. A local system or organizational hardship such that:
 - a. Service cannot be made generally available throughout the service area within

Document revised 7/1/2010

Approved:



Administration



Medical Director

SUBJECT: ALTERNATE PARAMEDIC SERVICE PROVIDER
APPLICATION/DESIGNATION

Date: 7/01/2010

established response time guidelines utilizing a community standard service configuration; or

- b. Service cannot be made available through eligible provider at the community standard without compromising other public safety mission requirements; or
- c. No new provider can or will enter the service area and provide service at the community standard.

IV. Procedure:

A. Application Process:

1. Submit a letter of intent to establish ALS services, in writing, to the County of San Diego Health and Human Services Agency, EMS Branch.
2. Conduct a competitive bid process pursuant to Health and Safety Code, Division 2.5, Section 1797.224, and in accordance with local policies.
3. Following a competitive bid process, submit to the EMS Branch:
 - a. Copy of all proposals or responses received.
 - b. Statement of need of ALS services in defined area.
 - c. Data which supports a claim of hardship in establishing ALS services in accordance with established current community standards.
 - d. Description of alternate ALS model proposed.
 - e. Description of financial viability for alternate program.
 - f. Other special issues unique to the community which may directly or indirectly

Document revised 7/1/2010

Approved:



Administration



Medical Director

SUBJECT: ALTERNATE PARAMEDIC SERVICE PROVIDER
APPLICATION/DESIGNATION

Date: 7/01/2010

impact the ability to provide ALS services at the community standard of care.

4. Within 90 days of receipt of above documents, the EMS Branch will:
 - a. Review all documents.
 - b. Conduct a community survey (on an as needed basis).
 - c. Make a determination of the need for alternate ALS to the specified community.
 - d. Notify the applicant(s) of the final decision and any recommendations or suggestions for implementation.

B. Designation Process:

1. To be designated as an alternate Paramedic service provider in San Diego County, a local jurisdiction (a local jurisdiction is the County, a city, water district, fire protection district, or county service area), which has been approved by the County of San Diego to provide alternate ALS services must:
 - a. Comply with California Code of Regulations, Title 22, Division 9, Chapter 4.
 - b. Enter into an Agreement with the County of San Diego, Health and Human Services Agency, Emergency Medical Services to perform as an alternate Paramedic service provider agency.
 - c. Comply with all responsibilities of the contractor as outlined in Exhibit A.
2. The County of San Diego, Department of Health, EMS Branch shall review the Agreement with the alternate Paramedic service provider every two (2) years. The

Document revised 7/1/2010

Approved:



Administration



Medical Director

SUBJECT: ALTERNATE PARAMEDIC SERVICE PROVIDER
APPLICATION/DESIGNATION

Date: 7/01/2010

Agreement may be changed, renewed, canceled, or otherwise modified when necessary according to provisions for such in the Agreement.

3. The County of San Diego, EMS Branch may deny, suspend, or revoke the approval of an alternate Paramedic service provider agency for failure to comply with applicable policies, procedures, protocols, or regulations in accordance with provisions for such in the Agreement.

Document revised 7/1/2010

Approved:



Administration



Medical Director

EXHIBIT A

RESPONSIBILITIES OF THE CONTRACTOR

1. To provide Paramedic Services within the boundaries of its local jurisdiction, and within adjoining areas as specified by Agreements with adjoining Paramedic Service Providers.
2. To participate in the Advanced Life Support (ALS) Program in accordance with Title 22 of the California Code of Regulations, Division 9, Chapter 4.
3. To develop and operate Paramedic Services in accordance with California Code of Regulations, Title 22, Division 9, Chapter 4. The **CONTRACTOR** may subcontract all or a portion of these services. However, the **CONTRACTOR** is responsible for insuring that any and all subcontractors provide services in accordance with California Code of Regulations, Title 22, Division 9, Chapter 4.
4. To maintain and operate at least one fully equipped, supplied and staffed Paramedic Unit seven days a week, twenty-four (24) hours a day, in accordance with the Policies, Procedures and Protocols established by San Diego County.
5. To staff each unit with at least one (1) Paramedic at all times. For the purpose of this Agreement, a Paramedic is an individual certified in the State of California as a Paramedic, and accredited by the County of San Diego Emergency Medical Services Medical Director to operate as a Paramedic in San Diego County, pursuant to Section 1797 et seq. of the Health and Safety Code.
6. To staff each unit with at least one (1) EMT at all times. For the purpose of this Agreement, an EMT is an individual certified in the State of California to operate as an EMT, pursuant to Section 1797 et seq. of the Health and Safety Code.

7. To provide the citizens of the local jurisdiction with information on the 9-1-1 system and where and how to obtain Cardiopulmonary Resuscitation (CPR) training.
8. To ensure that all Paramedic personnel comply with the continuous accreditation requirements of the **COUNTY**.
9. To provide suitable facilities for housing the Paramedic unit(s).
10. To cooperate with the approved Paramedic training programs in providing field internship locations for paramedic interns.
11. To develop mutual aid and/or call-up plans for providing Paramedic Service in an area in the event the ambulance assigned to the area is not operable, or is away from the area for other reasons. Automatic response plans may be developed by the local jurisdiction with concurrence of adjoining Paramedic services.
12. To notify the Chief, Division of Emergency Medical Services, or designee, immediately whenever any condition exists which adversely affects the local jurisdiction's ability to meet the conditions of this Agreement.
13. To appoint an Agency Paramedic Coordinator, to serve as liaison between the Agency, the County, base hospitals, receiving hospitals, BLS provider agencies and public safety agencies operating within the service area.
14. To provide orientation for first responder agencies to advanced life support functions and role.
15. To provide for a planned maximum response time of no more than fifteen (15) minutes in rural areas and no more than ten (10) minutes in urban areas.
16. To participate in local Emergency Medical Service planning activities, including disaster management.

17. To comply with all applicable State statutes and regulations and County standards, policies, procedures and protocols, including a mechanism to assure compliance.
18. To implement and maintain a Quality Assurance program.
19. To take immediate corrective action where there is a failure to meet "Responsibilities of the **CONTRACTOR**".

SUBJECT: ADVANCED LIFE SUPPORT FIRST RESPONDER UNIT

Date: 07/01/07

- I. **Authority:** Health and Safety Code, Division 2.5, Sections 1797.204, 1797.218, and 1797.220.
- II. **Purpose:** To offer a mechanism for designated paramedic service agencies in San Diego County to provide advanced life support (ALS) assessment and initial treatment to patients by paramedics prior to the arrival of a transporting unit.
- III. **Definitions:**
- A. An ALS first responder unit is defined as a non-transporting emergency response vehicle utilized by a designated paramedic service provider which is staffed by at least one (1) paramedic and one (1) EMT- Basic, and which complies with the operational criteria outlined in this policy.
- B. An ALS transporting unit is defined as an emergency response vehicle utilized for patient transport which is staffed with at least one (1) paramedic and one (1) EMT-Basic and which complies with the operational criteria as outlined in County of San Diego, Division of Emergency Medical Services (EMS) policy P-801.
- C. A BLS transporting unit is defined as a response vehicle utilized for emergent or non-emergent patient transport which is staffed with two (2) EMT-Basics and which complies with the operational criteria as outlined in County of San Diego, Division of Emergency Medical Services (EMS) policy B-833.
- IV. **Policy:**
- A. Staffing for an ALS first responder unit in San Diego County shall include at a minimum one (1) paramedic and one (1) EMT-Basic. ALS first responder units shall be equipped with standardized inventory as specified in San Diego County Division of EMS policy P-806.

Approved:



Administrator



Medical Director

SUBJECT: **ADVANCED LIFE SUPPORT FIRST RESPONDER UNIT**

Date: 7/01/2010

criteria for dispatch of an ALS unit.

- C. If ALS care is initiated and an ALS transporting unit remains unavailable, the ALS first responder unit paramedic shall accompany the patient to the hospital in a BLS transporting unit.
- D. Each ALS first responder unit will be assigned to a Base Hospital for medical control, by the local EMS agency.
- E. Approved service provider agencies shall have a current ALS service provider agreement with the County of San Diego EMS.

V. Procedure:

A. Application/Approval Process:

Application for use of ALS first responder unit(s) shall be submitted in writing to the Medical Director, County of San Diego EMS and shall include:

1. Identification, location, and average response times of the transporting ALS unit assigned to the geographical area.
2. Identification, location, and average response times of the proposed ALS first responder unit(s).
3. Description of the proposed ALS first responder unit staffing, to include level(s) of training.
4. A statement indicating what optional equipment (if any) will be included in the inventory of the ALS first responder unit.

B. Operational Requirements:

When the ALS first responder unit arrives on scene prior to the transporting ALS unit, the ALS First Responder paramedic shall:

Document revised 7/1/2010

Approved:



Administrator



Medical Director

SUBJECT: **ADVANCED LIFE SUPPORT FIRST RESPONDER UNIT**

Date: 7/01/2010

1. Assess and treat the patient.
2. If the First Responder paramedic does not accompany the patient to the hospital, transfer of care and information shall occur at the earliest most appropriate time to facilitate continuity of care and prevent any delay in care.
3. First Responder paramedics shall submit completed prehospital patient records in accordance with policy S-601.

Document revised 7/1/2010

Approved:



Administrator



Medical Director

SUBJECT: **ALS First Responder Inventory**

Date: 7/01/09

- I. **Authority:** Health and Safety Code, Division 2.5, Section 1797.204.
- II. **Purpose:** To identify standardized inventory for all First Responder Units. Individual agencies may increase inventory to include all ALS medications, including controlled substances.
- III. **Policy:** Essential equipment and supplies to be carried on each ALS first responder unit shall include at a minimum the following:

A. <u>Airway Adjuncts:</u>	<u>Minimum</u>
Airways-assorted sizes	
Aspiration based endotracheal tube placement verification device	1 each
Bag-Valve-Mask Device	1 each size
Esophageal Tracheal Airway Device (Combitube): Reg, Small Adult	1 each
OR	
Perilaryngeal Airway (King airway) sizes: 3, 4, 5	1 each
Intubation tubes: sizes: 2.5, 3, 3.5, 4, 4.5, 5, 5.5, 6, 6.5, 7, 7.5, 8, 8.5, 9	1 each
Laryngoscope - blade: curved and straight sizes 2, 3, 4	1 each
Laryngoscope - handle	2 each
Magill tonsil forceps	1 each
O ₂ Cannula	2 each
O ₂ Masks	2 each
O ₂ powered nebulizer	1 each
Stylet (pediatric, adult)	1 each
Suction catheters (5, 6, 8, 10, 12, 14, 18 fr)	1 each
Suction catheters, tonsil tip (Yankauer)	2 each
Water soluble lubricant	1
Quantitative (Capnography) End Tidal CO ₂	1 each
End-tidal CO ₂ detector (pediatric and adult) (optional item)	1 each
B. <u>Vascular Access/Monitoring Equipment</u>	
Armboard: short	2 each
Blood glucose monitoring device	1 each
Blood pressure cuff - adult	1 each
Blood pressure cuff - pediatric	1 each
IV administrations sets: Macro drip, Micro drip	1 each
IV tourniquets	2 each
Needles:	
IV cannula - 14 gauge	2 each
IV cannula - 16 gauge	2 each
IV cannula - 18 gauge	2 each
IV cannula - 20 gauge	2 each
IV cannula - 22 gauge	2 each
IV cannula - 24 gauge	2 each
IM – 21 Gauge 1"	3
IO – Jamshidi-type – 18 gauge	2
IO – Jamshidi-type (or approved device) needle – 15 gauge	2

Approved:



Administration



Medical Director

SUBJECT: ALS First Responder Inventory

Date: 7/01/09

Syringes: 1ml, 3ml, 5ml, 10ml, 20ml	2 each
Stethoscope	1 each
C <u>Splinting Devices:</u>	
Extrication Collars, Rigid	1 ea size
Restraints, soft or leather	1 set
D <u>Packs:</u>	
Cold packs	2 each
Drug Box	1 each
Hot packs (warming, not to exceed 110 degrees F)	1 each
Personal Protective Equipment (masks, gloves, gowns, shields)	2 sets
Trauma Box/Pack	1 each
E. <u>Other:</u>	
Thermometer-oral, rectal	1 each
F. <u>Communication Items:</u>	
Agency radio	1 each
Communication Failure Protocol (laminated)	1 each
EMS radio	1 each
G. <u>Replaceable Medications:</u>	<u>Minimum</u>
Adenosine 6mg/2ml vial	30 mg total
Albuterol 2.5mg/3ml or 0.083%	4 vials
ASA 81 mg/tab	4 tabs
Atropine sulfate 1mg/10ml	3 each
Atrovent 2.5ml (one unit dose vial) or 0.02%	2 each
Dextrose, 50% 50 ml	1 each
Diphenhydramine(Benadryl) 50mg/2ml	1 each
Epinephrine: 1:1,000 1 mg	2 each
Epinephrine: 1:10,000 1 mg	4 each
Lidocaine 100 mg	2 each
Midazolam (Versed) 5mg/ml	10 mg
Morphine 10 mg/ml	10 mg
Naloxone HCL (Narcan) 1mg/ml	4mg
Nitroglycerine spray/tabs 0.4 mg	1 container
Nitropaste w/ papers	1 tube
Ondansetron (Zofran) 4mg/2ml	1 each
Oral Glucose	3 tabs or 15g
<u>IV Solutions</u>	
Normal Saline - 1000 ml bag	2 each
Normal Saline - 250 ml bag	2 each

Approved:



Administration



Medical Director

SUBJECT: ALS First Responder Inventory

Date: 7/01/09

H. Other Equipment

Broselow Tape	1 each
Cardiac Monitor/Defibrillator	1
Mucosal Atomizer Device (MAD)	1
Pediatric Drug Chart (laminated)	1 set
Spinal Immobilization devices (1 min. 30", 1 min. 60") with straps	1 each
Standing Orders (Adult and Pediatric) [laminated]	1 set

I. Optional equipment:

End-tidal CO2 detector	
Ondansetron (Zofran) PO/ODT	4mg
Tourniquets	2
Tympanic thermometer	

Approved:



Administration



Medical Director

SUBJECT: WILDLAND ALS KIT INVENTORY

Date: 7/01/09

- I. **Authority:** Health & Safety Code, Division 2.5, 1797.204.
- II. **Purpose:** To identify minimum inventory for ALS Wildland Packs to be carried on Brush Rigs that may be sent out on a Strike Team. Individual agencies may increase inventory to include all ALS medications and equipment.
- III. **Definitions:**
ALS Wildland Packs – Minimal inventory kits containing ALS medications and equipment that can be used by paramedics who staff apparatus sent out on a Fire Strike Team.

Wildland Strike Team –Personnel and units sent to other areas to fight Wildland fires

- IV. **Policy:**
Essential equipment and supplies to be carried on each Wildland Fire Strike Team unit shall include at a minimum the following:

A. Airway Adjuncts:	Minimum
Bag-valve-mask ventilation assist	1 each
CO ₂ Detection Device OR	1 each (adult/pediatric)
Quantitative (Capnography) End Tidal CO ₂ device	1
Esophageal/Tracheal Airway Device OR	1 each (small/regular adult)
Perilaryngeal Airway (King) Size 3, 4, 5	1 each
Water-soluble lubricant	1
Nasopharyngeal Airway Assists	1 each (26-36 mm)
Oropharyngeal Airway Assists	1 each (90-110 mm)
Oxygen Powered Nebulizer	1 each
B. Vascular Access/Monitoring Devices	Minimum
Arm boards	1 each (long/short)
IV start Kits	2
IV Access Needles	2 each size (16-24)
Needles	2 21G
Normal Saline IV w/tubing	2000 ml
Syringes	1 each size (1ml, 5ml,10ml)
C. Replaceable Medications	Minimum
Albuterol	8 vials or 1 MDI
Atropine Sulfate	2 mg
Atrovent	2 vials
ASA	4 tablets (81mg)
Dextrose (50%)	1 Preload Syringe

Approved:


Administration


EMS Medical Director

SUBJECT: WILDLAND ALS KIT INVENTORY

Date: 7/01/09

Diphenhydramine (Benadryl)	50 mg
Epinephrine 1:10000	3 Preload syringes
Epinephrine 1:1000	6 mg
Glucagon	1 unit dose vial
Midazolam (Versed) 5 mg/ml	10 mg
Morphine Sulfate (IV/IM)	10 mg
Nitroglycerine Spray or tablets	1 Container
Nitropaste w/papers	1 tube/10 papers
Oral Glucose	3 tabs or 15G

D. Other essential equipment

AED/SAD with patient leads/pads	1
Agency AMA form	5
BP Cuff	1
Glucometer and lancets	
Goggles	2 pair
Gloves (non-latex)	8 pair
Mucosal Atomizer Device (MAD)	1
Penlight	1
Sharps container	
Stethoscope	1
Trauma Shears	1 pair
Laminated copies of:	
• Communication Failure Protocol (P-111)	
• ALS Adult Standing Orders (P-110)	

E. Optional equipment

Tourniquets

Approved:


Administration


EMS Medical Director

- I. **Authority:** Health and Safety Code, Division 2.5, Sections 1797.204, 1797.218, 1797.220 and 1798.
- II. **Purpose:** To approve Advanced Emergency Medical Technician (AEMT) service agencies in the San Diego County.
- III. **Definitions:**
 - A. An AEMT unit is defined as an AEMT emergency response vehicle utilized by a designated AEMT service provider which is staffed by at least one (1) A-EMT.
- IV. **Policy:**
 - A. AEMT units shall be equipped with standardized EMT service provider inventory as specified in the County of San Diego EMS policies. Units shall also be equipped with approved AEMT equipment and supplies.
 - B. The closest/most appropriate, available ALS transporting unit shall be dispatched simultaneously with the AEMT unit if the response meets established criteria for dispatch of an ALS unit.
 - C. If (AEMT) care is initiated and there is a delay in response of an ALS transporting unit, the AEMT shall proceed with transport of the patient to the hospital if it is medically in the best interest of the patient
 - D. Each AEMT unit will be assigned to a Base Hospital for medical control, by the local EMS agency.
 - E. Approved AEMT service provider agencies shall have a current service provider agreement with the County of San Diego EMS Branch.

Document revised 7/1/2010

Approved:



Administration



Medical Director

V. **Procedure:**

A. **Application/Approval Process:**

Application for use of AEMT unit(s) shall be submitted in writing to the Medical Director, County of San Diego Emergency Medical Services and shall include:

1. Identification, location, and average response times of the transporting ALS unit assigned to the geographical area.
2. Identification, location, and average response times of the proposed AEMT unit(s).
3. Description of the proposed AEMT unit staffing, to include level(s) of training.
4. A statement indicating what AEMT- specific equipment (if any) will be included in the inventory of the unit.

B. **Operational Requirements:**

When the AEMT unit arrives on scene prior to the transporting ALS unit, the AEMT shall:

1. Assess and treat the patient.
2. If the AEMT does not accompany the patient to the hospital, transfer of care and information to the paramedic assuming care of the patient shall occur at the earliest most appropriate time to facilitate continuity of care and prevent any delay in care.
3. AEMT's shall submit completed prehospital patient records in accordance with policy S-601.

Document revised 7/1/2010
Approved:



Administration

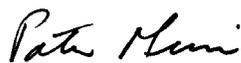


Medical Director

SUBJECT: EMERGENCY MEDICAL TECHNICIAN OR PUBLIC SAFETY AUTOMATED
EXTERNAL DEFIBRILLATOR SERVICE PROVIDER DESIGNATION Date: 07/01/05

- I. **Authority:** Health and Safety Code, Division 2.5, Sections 1797.170, 1797.201, 1797.204 and 1797.220.
- II. **Purpose:** To establish a standard mechanism for approval and designation as a Emergency Medical Technician (EMT) or Public Safety (PS) Automated External Defibrillator (AED) provider in San Diego County.
- III. **Policy:** San Diego County Emergency Medical Services (EMS) shall approve and designate EMT and PS AED Providers who meet established criteria.
- IV. **Procedure:**
 - A. Submit a written request for approval to the EMS Medical Director to include:
 1. Description of intended use and population served.
 2. For PS AED providers only, Agreement with a Base Hospital or Physician for medical control.
 3. Agreement to meet and provide the following:
 - a. Provide orientation of AED authorized personnel to the AED program in the agency, including County and agency policies and procedures.
 - b. Ensure initial training (PS only) and, thereafter, continued competency of AED authorized personnel.
 - c. Ensure maintenance of AED equipment.
 - d. Authorize personnel and maintain a current listing of all AED service provider

Approved:



Administration



Medical Director

**SUBJECT: EMERGENCY MEDICAL TECHNICIAN OR PUBLIC SAFETY AUTOMATED
EXTERNAL DEFIBRILLATOR SERVICE PROVIDER DESIGNATION**

Date: 07/01/05

authorized personnel and provide a listing to EMS.

- e. Collect and report to EMS required data as per Policy D-620.
- B. EMS shall review all information submitted. Agencies shall be notified in writing of approval or disapproval within thirty (30) days from receipt of request.
- C. Approved EMT and PS AED provider agencies shall enter into a Memorandum of Agreement with San Diego County for EMT or PS AED services.
- D. An EMT or PS AED service provider approval may be revoked or suspended for failure to maintain the requirements of applicable state and local regulations and policies.

Approved:

Patricia Menni

Administration

[Signature]

Medical Director

SUBJECT: PERILARYNGEAL AIRWAY ADJUNCTS SERVICE
PROVIDER DESIGNATION

Date: 7/01/2010

- I. **Authority:** Health and Safety Code, Division 2.5, Sections 1797.170, 1797.204 and 1797.22.
- II. **Purpose:** To establish a standard mechanism for approval and designation as a Perilaryngeal Airway Adjuncts (PAA) provider in San Diego County.
- III. **Policy:** The County of San Diego Emergency Medical Services (EMS) shall approve and designate PAA providers which meet established criteria.
- IV. **Definition:** For the purpose of this policy the term "Perilaryngeal Airway Adjuncts" includes both the Esophageal Tracheal Airway (ETAD) and King Airway devices
- V. **Procedure:**
 - A. Documentation of current PAA program approval from EMS.
 - B. Enter into a Memorandum of Agreement with EMS for PAA services within the particular area of jurisdiction.
 - C. Comply with the California Code of Regulations Title 22, Division 2, Chapter 2, Section 100064 (b).

Document revised 7/1/2010

Approved:



EMS Medical Director

SUBJECT: AMBULANCE PROVIDER'S PERMIT APPLICANT PROCESS

Date: 07/01/03

- I. **Authority:** California Vehicle Code, Section 2512(c); Health and Safety Code, Division 2.5, Section 1797.204.
- II. **Purpose:** To establish the process by which agencies desiring to provide ambulance service in San Diego County would obtain an Ambulance Provider's Permit.
- III. **Procedure:**
- A. **Application Process, Privately Owned Companies:**
1. Submit a completed application, which contains the following information:
 - a. Names and addresses of the applicant registered owner(s), partner(s), officer(s), director(s), and all shareholders that hold or control 10% or more of the stock of the applicants.
 - b. Applicant's training and experience in the transportation and care of patients.
 - c. Name(s) under which the applicant has engaged, does, or proposes to engage in ambulance service.
 - d. Description of each ambulance including: the make, model, year of manufacture, vehicle identification number, current state license number, the current odometer reading of the vehicle and the color scheme, insignia, name monogram and other distinguishing characteristics of the vehicle.
 - e. Statement that the applicant owns or has under his/her control, in good mechanical condition, required equipment to consistently provide quality ambulance service, and that the applicant owns or has access to suitable facilities for maintaining his/her equipment in a clean and sanitary condition.
 - f. Description of the company's program for maintenance of the vehicles.
 - g. Comprehensive list of on-board communication devices (e.g. radio frequencies and cellular phone numbers).
 - h. Description of all posting locations, noting hours of operation, from which ambulance services will be offered.
 - i. A list of all ambulance drivers and attendants which identifies each persons' EMT certification number and issuing county; CPR certifications, California Drivers License and Ambulance Drivers Certificate, with expiration dates of each.
 - j. Description of the company's orientation program for attendants, dispatchers and drivers.

Approved:



Administration



EMS Medical Director

SUBJECT: AMBULANCE PROVIDER'S PERMIT APPLICANT PROCESS

Date: 07/01/03

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- k. Statement of legal history of all the persons identified in A.1.a above.
 - l. Evidence of insurance for general and professional liability, and worker's compensation in amounts as specified in the San Diego County Ambulance Ordinance.
 - m. An affirmation that the applicant possesses and maintains currently valid California Highway Patrol Inspection certificates for each vehicle listed in the application, and a copy of the license issued by the Commissioner of the California Highway Patrol.
 - n. A completed set of fingerprint cards for each of the persons identified in A.1.a above.
- 2. Agency and inspection fees shall be submitted to the Permit Officer/EMS Chief at the time of application.
 - 3. Within thirty (30) days of receipt of an application, the Permit Officer/EMS Chief shall review all materials submitted and make a determination regarding the issuance of the applied for permit, pending required inspections.
- B. Application Process, Not for Profit/Volunteer
- 1. Submit a completed application as identified in Section A.1 above.
 - 2. Not for profit/volunteer agencies are exempted from the fee requirements identified in Section A.2 above.
- C. Application Process, Governmental Agencies
- Governmental agencies which operate an ambulance twenty-four (24) hours per day with full time paid employees are exempted from the application and fee requirements identified in this policy.
- D. Application Process, Renewal, Privately Owned Companies and Not for Profit/Volunteer
- 1. Submit a completed application, which verifies the information identified in Section A.1 (a-n).
 - 2. Submit appropriate, required fees.
 - 3. Upon approval of the renewal application, the Permit Officer/EMS Chief shall schedule an inspection of all agency service units.
- E. Denial/Revocation of Permit and Appeal Process
- 1. Any false or misleading statements made by the principals, in the application, reports or other documents filed with the Permit Officer/EMS Chief.
 - 2. The applicant is not the legal owner or operator of the service.

Approved:



Administration



EMS Medical Director

SUBJECT: AMBULANCE PROVIDER'S PERMIT APPLICANT PROCESS

Date: 07/01/03

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3. The applicant was previously the holder of a permit that has been suspended.
 4. The applicant acted in the capacity of a permitted person or firm under this Division without having a valid permit.
 5. The applicant pled guilty, or was found guilty of a felony or crime involving moral turpitude.
 6. The applicant violated any provisions of this ordinance.

Appeal Process

- a. The Permit Officer/EMS Chief shall notify the applicant in writing of the denial within 30 days of the receipt of the application.
- b. The denial shall be written and sent to the last known address of the applicant, or hand delivered to the applicant, and shall set forth the reasons for the denial or revocation.
- c. The applicant may request a hearing from the Permit Officer/EMS Chief by:
 - 1) The request will be in writing.
 - 2) The request must be filed with the Permit Officer/EMS Chief within ten (10) days of the hand delivery of the denial, or fifteen (15) days of mail delivery.
- d. The Permit Officer/EMS Chief must schedule the hearing no later than twenty (20) days after the receipt of the request from the agency.
- e. The decision of the Permit Officer/EMS Chief is final.

Approved:



Administration



EMS Medical Director

SUBJECT: PERMIT APPEAL PROCESS

Date: 6/1/93

- I. **Authority:** San Diego County Code of regulatory Ordinances, Division 10 chapter 4.
- II. **Purpose:** To establish the procedure for the resolution of appeals regarding either the denial of issuance of a permit, or the suspension/revocation of an existing Permit.
- III. **Procedure:**
- A. **Denial of Issuance of Permit:**
- Whenever the Permit Officer denies an application for a Permit, the applicant may request a hearing on the denial.
1. All requests for a hearing shall be submitted in writing to the Permit Officer within ten (10) days of personal delivery of notice of denial of application. If the notice of denial is mailed, applicant has an additional five (5) days to file a hearing request.
 2. A hearing shall be held not more than twenty (20) days from the date of receipt of the applicant's written request for a hearing.
 3. The applicant shall have the burden of proof during the hearing.
 4. The Permit Officer shall issue a decision on all appeals within two (2) working days of the hearing.
 5. The applicant shall be notified in writing of the decision.
 6. The applicant may appeal the denial after the hearing with the Permit Officer.
- B. **Suspension/Revocation of Permit:**
- Whenever the Permit Officer suspends or revokes a current permit, the permittee may request a hearing on the suspension or revocation.
1. All requests for an appeal hearing shall be submitted to the Clerk of the Board of Supervisors in writing within ten (10) days of notification of suspension or revocation.
 2. The Clerk of the board of Supervisors shall assign the appeal to a Hearing Officer selected by the Clerk of the Board of Supervisors on a rotating basis from a list of qualified Hearing Office approved by the Board of Supervisors.
 3. A Hearing Officer shall schedule a date for the hearing within ten (10) days after the date of assignment of the appeal by the Clerk of the Board of Supervisors.
 4. The hearing shall be held no more than thirty (30) days from the time of assignment by the Clerk of the board of Supervisors to the Hearing Officer

Approved:

Gail F Cooper

Administration

M. L. G. G. G.

Medical Director

SUBJECT: PERMIT APPEAL PROCESS

Date: 6/1/93

5. The hearing Officer is authorized to issue subpoenas, to administer oaths and to conduct the hearing on the appeal.
6. The Permit Officer and the appellant may present evidence relevant to the denial, suspension, revocation, or other decision of the Permit Officer.
7. The Hearing Officer shall receive evidence and shall rule on the admissibility of evidence and on questions of law.
8. At the hearing any person may present evidence in opposition to, or in support of appellant's case.
9. The Hearing Officer shall issue a decision on all appeals at the close of the hearing.
10. The Hearing Officer shall within five (5) days of the announcement of a decision file with the clerk of the Board of Supervisors written findings of fact and conclusion of law and the decision.
11. The decision of the Hearing Officer is final when filed with the Clerk of the Board of Supervisors.
12. The effect of a decision to suspend or revoke a permit shall be stayed while an appeal to the Board of Supervisors is pending or until the time for filing such appeal has expired.

C. Exception to Hearing Procedure:

When in the opinion of the Permit Officer, there is a clear and immediate threat to the Safety and protection of the public;
the Permit Officer may suspend a permit without a hearing.

1. The Permit Officer shall prepare a written notice of suspension.
2. The notice of suspension shall be either sent by certified mail or be personally delivered.
3. The Permittee may request a hearing from the Permit Officer within five (5) days of receipt of the notice.
4. The hearing shall be held not more than fifteen (15) days from the date of receipt of the request.
5. Following the hearing, the Permittee affected may appeal the decision in the manner indicated in Section III. B., (1-11) above.
6. The decision shall not be stayed during pendency of such hearing or appeal.

Approved:

Gail F Cooper

Administration

M. L. G. G. G. G.

Medical Director

SUBJECT: **GROUND AMBULANCE VEHICLE REQUIREMENTS**

Date: **07/01/03**

- I. Authority:** California Vehicle Code, Section 2512(c); Health and Safety Code, Division 2.5, Section 1797.204.
- II. Purpose:** To define the minimum requirements for ambulance vehicles in San Diego County in the areas of vehicle design, safety equipment, and emergency equipment and supplies.
- III. Policy:** Every ambulance intended for operation in San Diego County shall meet the following minimum requirements:
- A. All ambulances permitted for use in San Diego County shall conform to Federal Specification KKK-A-1822-C as promulgated by the U.S. General Services Administration with the following exceptions:
- Critical Care Units and Specialty Vehicles may be exempt from Section 3.4.11 Vehicle Physical Dimension Requirements and Section 3.5 Vehicle Weight Ratings and Payload and Section 3.10.8 Doors, provided that it can be demonstrated to the Permit Officer that such exemption does not compromise safety.
 - Emergency Lighting. Ambulances permitted for use in San Diego County are exempted from Section 3.8.2.1 Emergency Lighting Configuration and Section 3.8.2.3 Switching Arrangements. They will, however, comply with minimum requirements of the California Vehicle Code (CVC) and Regulations promulgated by the State of California and administered by the California Highway Patrol (CHP).
 - Color, Paint and Finish. Ambulances permitted to operate in San Diego County are exempt from Section 3.16.2 Color, Paint and Finish and Section 3.16.2.1 Color Standards and Tolerances, provided, however, they must comply with California law.
 - Emblems and Markings. Ambulances permitted to operate in San Diego County are exempt from Section 3.16.4 Emblems and Markings, provided, however, they comply with California law and regulations.
 - Standard Equipment. Ambulances permitted to operate in San Diego County are exempt from Section 3.15.2 Standard Mandatory Miscellaneous Equipment, Section 3.15.3 Optional Equipment, and Section 3.15.4 Medical Surgical, and Biomedical Equipment, provided they comply with California regulation and local policy.

Approved:



Administration



EMS Medical Director

SUBJECT: **GROUND AMBULANCE VEHICLE REQUIREMENTS**

Date: **07/01/03**

6. Exemptions. The Permit Officer is authorized to grant additional exemptions from Federal KKK-A-1822-C specifications in the following situations:

- a. Declared disaster and disaster recovery periods.
- b. Ambulances in service prior to the effective date of this policy will be granted an exemption for the service life of the ambulance upon submission of documentation that the manufacturer of the ambulance carries at least \$1,000,000 product liability insurance.
- c. Specialty Vehicles such as neonatal transfer units, multiple casualty units and special terrain vehicles may be exempted from specific Sections KKK-A-1822-C provided that the exemptions are shown to be in the interest of patient care and do not unnecessarily compromise safety. Such vehicles may not be placed in service until a permit is issued.

B. Required Documentation:

1. A current and valid San Diego County ambulance license (or facsimile) in the driver compartment.
2. A current and valid San Diego County ambulance license decal affixed to the lower portion right rear of the ambulance.
3. Proof of passage of the annual inspection performed by the CHP within the preceding twelve (12) months.
4. Vehicle registration and proof of insurance as required by law.

C. Emergency Care Equipment and Supplies: The following items shall be carried on all Ground ambulances as a minimum:

1. Essential equipment and supplies as required by the California Code of Regulations, Title 13, Section 1103.2(a) 1-19 (Attachment A).
2. Equipment necessary to comply with California Occupational Safety and Health Administration (CAL-OSHA) standards for exposure to blood borne pathogens.

3. Communication Items: Minimum

Agency Dispatch Device	1 each
Regional Communication System (RCS) 800 MHz programmed with appropriate EMS fleet map.	1 each

Approved:



Administration



EMS Medical Director

**SUBJECT: REQUIREMENTS FOR GROUND CRITICAL CARE
TRANSPORT SERVICES**

Date: 07/01/07

I. **Authority:** Health and Safety Code, Sections 1797.220, 1797.222, 1798.172, San Diego County Code of Regulatory Ordinances, Division 10, Chapter 6.

II. **Purpose:** To identify minimum staffing and equipment requirements for ground critical care transport (CCT) services in San Diego County.

III. **Definitions:**

A. CCT Service Provider: Any agency that routinely provides for hire the ambulance, personnel and/or equipment utilized to provide CCT services.

B. CCT Service: The provision of non 9-1-1 ambulance services utilizing personnel, equipment, medications that provide a higher level of care than that of an ambulance staffed by emergency medical technicians (EMT-B or EMT-P) alone.

C. Ground CCT vehicle – ground ambulance providing non 9-1-1 patient care and transport service that is staffed by a registered nurse or physician in addition to EMT-B's.

IV. **Procedure:**

A. Ground CCT ambulances shall comply with all requirements established for BLS ambulances.

B. Each CCT provider agency shall designate a medical director.

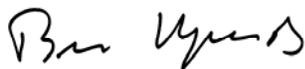
1. The medical director shall maintain a valid license as a physician in California.

2. The medical director shall be responsible for all medical protocols and procedures followed by the CCT provider agency's staff.

Approved:



Administrator



EMS Medical Director

**SUBJECT: REQUIREMENTS FOR GROUND CRITICAL CARE
TRANSPORT SERVICES**

Date: 07/01/07

3. The medical director for the CCT service shall ensure that a comprehensive, written quality assurance (QA)/quality improvement (QI) program is in place to evaluate the medical/nursing care provided to all patients. This QA/QI program shall integrate with the countywide prehospital QA/QI program. Any incidents that result in a negative patient outcome shall be reported to the San Diego County EMS Medical Director within 10 working days.
 4. The CCT provider agency medical director shall ensure that all nursing/medical staff on a CCT collectively possess the skills and knowledge to provide a level of care commensurate with the specific and anticipated needs of the patient. The CCT provider agency medical director shall be accountable for all medical procedures performed on board the CCT by agency staff.
- C. Staffing – CCT providers agencies shall adopt policies requiring the following:
1. All nursing/medical personnel shall maintain current appropriate licensure/certification.
 2. CCT provider agencies shall routinely staff all CCT vehicles with at least one (1) registered nurse or physician and two (2) certified or licensed patient care attendants. Two medical personnel shall remain with the patient during the transport.
 3. The nurse shall meet the following qualifications:
 - a. Possess a current California R.N. license.

Approved:



Administrator



EMS Medical Director

**SUBJECT: REQUIREMENTS FOR GROUND CRITICAL CARE
TRANSPORT SERVICES**

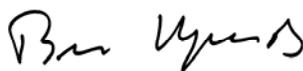
Date: 07/01/07

- b. Demonstrate clinical competence in resuscitation skills appropriate for age of transported patients (e.g. ACLS, PALS, PEPP, ENPC, NRP).
 - c. Possess two (2) years recent experience in critical care setting (ICU/CCU/ED/CCT).
 - d. Complete a formal orientation program to the CCT provider agency's policies, equipment, medical protocols.
4. A CCT provider agency shall provide service that is available 24 hours a day/7 days a week.
5. Nothing in this policy is intended to limit a CCT provider agency from utilizing or maintaining additional staff on board the CCT.
- D. Equipment/Medication
- 1. All CCT ambulances providing service shall carry, as a minimum, the equipment/medication items listed in S-836.
 - 2. Agencies which provide pediatric and/or neonatal transport shall carry the pediatric inventory listed in S-836 (denoted by italics).
 - 3. CCT providers shall ensure that transport personnel are thoroughly trained in the safe operation of all patient care equipment utilized on board the CCT.
 - 4. Nothing in this policy is intended to limit a CCT provider agency from utilizing or maintaining additional equipment or medications on board the CCT, as long as patient care personnel are fully trained on the safe and effective use of that equipment or medication.

Approved:



Administrator



EMS Medical Director

SUBJECT: CRITICAL CARE TRANSPORT UNIT INVENTORY

Date: 07/01/07

- I. **Authority:** Health and Safety Code, Division 2.5, Section 1797.220, 1797.222, 1798.172; San Diego County Code of Regulatory Ordinances, Title 6, Division 10, Chapter 7.
- II. **Purpose:** Identify a minimum standardized inventory on all Basic Life Support and Critical Care Transport Units.
- III. **Policy:** Essential equipment and supplies are required by California Code of Regulations, Title 13, Section 1103.2(a)1-20 and/or San Diego County Code of Regulatory Ordinances, Division 10, Chapter 8. Each Basic Life Support or Critical Care Transporting Unit in San Diego County shall carry as a minimum, the following as listed. Additional equipment, medications and supplies may be stocked as needed.

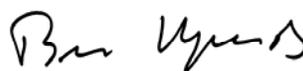
Basic Life Support Requirements:

	<u>Minimum</u>
Ambulance cot and collapsible stretcher	1 each
Straps to secure the patient to the cot or stretcher	1 set
Ankle and Wrist Restraints	1 set
Linens (Sheets, pillow, pillow case, blanket, towels)	2 sets
Oropharyngeal Airways	
Adult	2
<i>Pediatric</i>	2
<i>Infant</i>	1
<i>Newborn</i>	1
Pneumatic or rigid splints	4
Bag-valve-mask w/reservoir and clear resuscitation mask	
Adult	1
<i>Pediatric</i>	1
<i>Infant</i>	1
Oxygen Cylinder w/wall outlet (H or M)	1
Oxygen tubing	1
Oxygen Cylinder - portable (D or E)	2
Oxygen administration mask	
Adult	4
<i>Pediatric</i>	2
<i>Infant</i>	2
Nasal cannulas (clear plastic) Adult	4

Approved:



Administrator



Medical Director

SUBJECT: CRITICAL CARE TRANSPORT UNIT INVENTORY

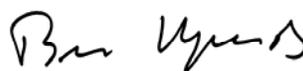
Date: 07/01/07

Nasal airways (assorted sizes)	1 set
Nebulizer for use w/sterile H ₂ O or saline	2
Glucose Paste/Tablets	1 tube or 10 tablets
Bandaging supplies	
4" sterile bandage compresses	12
3x3 gauze pads	4
2", 3", 4" or 6" roller bandages	6
1", 2" or 3" adhesive tape rolls	2
Bandage shears	1
10"x 30" or larger universal dressing	2
Emesis basin (or disposable bags)	1
Covered waste container	1
Portable suction equipment (30 L/min, 300 mmHg)	1
Suction device - fixed (30 L/min, 300 mmHg)	1
Suction Catheter - Tonsil tip	3
Suction Catheter (6, 8, 10, 12, 14, 18)	1 set
Head Immobilization device	2 each
Spinal Immobilization devices (1 min. 30", 1 min. 60") with straps**	1 each
Cervical collars - rigid	
Adult	3
<i>Pediatric</i>	2
<i>Infant</i>	2
Traction splint *	
Adult or equivalent	1
<i>Pediatric or equivalent</i>	1
Blood pressure manometer & cuff	
Adult	1
<i>Pediatric</i>	1
<i>Infant</i>	1
<i>Neonatal (Mandatory only for neonatal CCT)</i>	1
Obstetrical Supplies to include:	1 kit
gloves, umbilical tape or clamps, dressings, head coverings	
ID bands, towels, bulb syringe, clean plastic bags, sterile	
scissors or scalpel	
Warm pack, or warming device (not to exceed 110' F)	1
Potable water (1 gallon) or Saline (2 liters)	1
Bedpan	1
Urinal	1
Disposable gloves - non-sterile	1 box
Disposable gloves – sterile	4 pairs
Cold packs	2
Sharps container (OSHA approved)	1
Agency Radio	1
EMS Radio	1

Approved:



Administrator



Medical Director

SUBJECT: CRITICAL CARE TRANSPORT UNIT INVENTORY

Date: 07/01/07

Optional Item:

Positive Pressure Breathing Valve, Maximum flow 40 Liters/min. 1

Critical Care Transport Requirements:

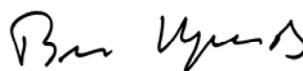
All supplies and equipment in Basic Life Support Requirements in addition to the following:

<u>A. Airway Adjuncts:</u>	<u>Minimum</u>
Aspiration based endotracheal tube placement verification devices	2
End Tidal CO ₂ Detection Devices (<15kg, ≥15kg)	2 each
Esophageal Tracheal Airway Device (Combitube):Reg, Sml Adult**	2 each
ET Adapter	1 setup
Feeding Tube - 8 French	1
Mask - Bag-valve-mask - Neonate size <i>(Mandatory only for neonate CCT)</i>	1
 <u>B. Vascular Access/Monitoring Equipment</u>	
Armboard: Long	1
Armboard: Short	1
Blood Glucose Monitoring Device**	1
Infusion pump & supplies	1
<i>Intraosseous kit</i>	1
IV Administration Sets: Macro drip	2
Micro drip	1
IV Tourniquets	2
Needles: IV Cannula - 14 Gauge	2
IV Cannula - 16 Gauge	2
IV Cannula - 18 Gauge	2
IV Cannula - 20 Gauge	2
<i>IV Cannula - 22 Gauge</i>	2
<i>IV Cannula - 24 Gauge</i>	2
IM - 21 Gauge X 1"	2
S.C. 25 Gauge X 3/8"	2
Syringes: 1 ml, 3 ml, 10 ml, 20 ml	2 each
 <u>C. Monitoring</u>	
Conductive Defibrillator pads	2 pkgs
Defibrillator/ Scope Combination	1
Defibrillator Paddles (4.5 cm, 8.0 cm) or hands-free defibrillator pads (adult and pediatric)	1 pair each
Electrodes	1 box
Electrode Wires	1 set
External pacing equipment and supplies	1 set
Oxygen Saturation Monitoring Device **	1
Adult probe	1
<i>Infant/Pediatric probe</i>	1

Approved:



Administrator



Medical Director

SUBJECT: CRITICAL CARE TRANSPORT UNIT INVENTORY

Date: 07/01/07

D. Packs

Drug Box 1
Personal Protective Equipment (masks, gloves, gowns, shields) 1 set

E. Other Equipment

Broselow Tape 1
(8 or 10 French feeding tube mandatory for neonatal CCT) 1
Thermometer - Oral, Rectal 1 each
Water Soluble Lubricant 1

Optional items:

Endotracheal Tubes: Sizes:
2.5, 3.0, 3.5, 4.0, 4.5, 5.0, 5.5 1 each
6, 6.5, 7, 7.5, 8, 8.5, 9 1 each
Laryngoscope - Handle 2
Laryngoscope - Blade: curved and straight sizes 0-2 1 each
curved and straight sizes 3-4 1 each
Magill Tonsil Forceps *small* and large 1 each
Stylet 6 and 14 French, Adult 1 each

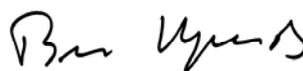
F. Replaceable Medications:

Adenosine 6 mg/2 ml vial 6 vials
Albuterol 2.5 mg/3 ml or 0.083% 6 vials
ASA, chewable 80 mg 6
Atropine Sulfate 1 mg/10 ml 3
Atropine Sulfate multidose vial 0.4 mg/ml 1
Atrovent 2.5 ml (1 unit dose vial) or 0.02% 2
Bacteriostatic water 30 ml 1
Calcium Chloride 1 GM/10 ml 1
Dextrose, 50% 25 GM/50 ml 2
Diphenhydramine HCL 50 mg/2 ml 2
Dopamine HCL 400 mg 1
Epinephrine 1:1,000 multidose vial 1
Epinephrine 1:1,000 (1 mg/1 ml vial) 3
Epinephrine 1:10,000 (1 mg/10 ml vial) 3
Furosemide 20 mg/40 mg/100 mg vial 100mg total
Glucagon 1 ml (1 unit) 1
Lidocaine HCL 100 mg/5 ml (2%) 3
Lidocaine (1GM or 2GM) 1
Magnesium Sulfate 5 GM 5 G
Naloxone HCL (Narcan) 2 mg/1 ml 2 each
Nitroglycerin 0.4 mg 1 container
Nitroglycerin topical 2% 1 tube
Normal Saline for injection 10ml vial 1

Approved:



Administrator



Medical Director

SUBJECT: CRITICAL CARE TRANSPORT UNIT INVENTORY

Date: 07/01/07

Oxytocin (Pitocin)	10 units/1 ml	2
Procainamide	1 GM	1
<i>Sodium Bicarbonate</i>	<i>10 mEq</i>	1
Sodium Bicarbonate	50 mEq/50 ml	2
Solumedrol	125mg vial	1
Verapamil HCL	5 mg	2
Anticonvulsant (e.g. Valium, Versed or Ativan)		QS
Anticonvulsant reversal agent		1
<u>IV Solutions:</u>		
Normal Saline	1000 ml bag	1
Normal Saline	250 ml bag	1
D5W	250 ml bag	1

Note: *Pediatric required supplies denoted by italics and are required inventory for units transporting pediatric and neonatal patients.*

* One splint may be used for both adult & pediatric e.g. Sager Splint

** Unit may remain in service until item replaced or repaired.

Approved:



Administrator



Medical Director

**SUBJECT: NON-EMERGENCY MEDICAL TRANSPORT WHEEL CHAIR/GURNEY VAN
PROVIDER'S PERMIT APPLICATION PROCESS**

Date: 07/01/03

- I. Authority:** San Diego County Code of Regulatory Ordinances, Division 10, Chapter 3.
- II. Purpose:** To establish the process by which agencies desiring to provide non-emergency medical transport wheel chair/gurney van services in San Diego County would obtain a Non-Emergency Medical Transport Service Provider's Permit.
- III. Policy:** Any agency desiring to provide non-emergency medical transport service in San Diego County shall obtain a San Diego County Non-Emergency Medical Transport Provider's Permit.
- A. Agencies who presently operate non-emergency medical transport services which are currently permitted by the Metropolitan Transit Development Board (MTDB), North County Transit District (NCTD), or any other municipality and are in compliance with the requirements of these agencies will be issued a San Diego County Non-Emergency Medical Transport Provider's Permit without further investigation or fee upon submission of a copy of a current certificate of compliance.
- B. Social service agencies who contract with any organization or entity that is permitted by entities defined in Section III A. shall be issued a San Diego County Non-Emergency Transport Provider's Permit without further investigation or fee.

IV. Procedure:

Application Process, Non-Exempted Agencies By Endorsement of the MTDB Permit

- A. Submit a completed application which contains the following information:
1. Copy of completed and approved MTDB paratransit application.
 2. Copy of approved MTDB vehicle inspection reports and vehicle medallion numbers.
 3. Names and addresses of the applicant, registered owner(s), partner(s), officer(s), director(s) and all shareholders who control 10% or more of the stock of the applicant.
 4. Name under which the applicant has, does or proposes to engage in non-emergency medical transport service.
 5. A resume specifying the education, training and experience of the applicant in the business of providing transportation services.

Approved:



Administration



EMS Medical Director

**SUBJECT: NON-EMERGENCY MEDICAL TRANSPORT WHEEL CHAIR/GURNEY VAN
PROVIDER'S PERMIT APPLICATION PROCESS**

Date: 07/01/03

6. A description of each gurney van and/or wheelchair van including the make, model, year of manufacture, vehicle identification number, the current odometer reading of the vehicle and the color scheme, insignia, name, monogram or other distinguishing characteristics of the vehicle.
 7. A description of the company's program for maintenance of the vehicles.
 8. Proof of ability to staff each vehicle with person(s) possessing at least a current American Red Cross Standard First Aid Certification, or equivalent.
 9. A Certificate of Consent to Self Insure issue by the California State Director of Industrial Relations, or a Certificate of Worker's Compensation Insurance as required.
 10. Proof of liability insurance as required.
 11. A statement of the legal history of the applicant, registered owner(s), partner(s), officer(s), director(s) and controlling shareholder, including criminal convictions and civil judgments.
- B. Permit by direct application to the County.
1. Completed County non-emergency vehicle permit application.
 2. Applicant's name and business address.
 3. (Refer to Section A. #3 through 10 above.)
- C. Submit appropriate required fee to the Permit Officer at the time of application.
- D. Within thirty (30) days of receipt of an application, the Permit Officer will:
1. Make a determination regarding the issuance of the applied for permit.
 2. Once application is accepted, schedule inspection and permitting of all service units.

Approved:



Administration



EMS Medical Director

**SUBJECT: NON-EMERGENCY MEDICAL TRANSPORT WHEEL CHAIR/GURNEY VAN SERVICE
REQUIREMENTS**

Date: 07/01/03

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- I. Authority:** San Diego County Code of Regulatory Ordinances, Division 10, and Section 610.702.
- II. Purpose:** To define the minimum requirements for non-emergency medical transport wheel chair/gurney van service in San Diego County in the areas of vehicle design, safety equipment and supplies.
- III. Policy:** Every non-emergency medical transport service vehicle intended for operation by an approved provider in San Diego County shall meet the following minimum requirements:
- A. All non-emergency medical transport service vehicles, shall at all times:
1. Comply with all applicable federal, state, and local licensing requirements.
 2. Be configured, licensed, and maintained pursuant to all federal and state laws, and local policies.
 3. Have an exterior color scheme and company name/logo sufficiently distinctive so as to not cause confusion with vehicles from other agencies or medical transport services, as determined by the Permit Officer.
- B. Required documentation:
1. A current and valid San Diego County Non-Emergency Medical Transportation Service license decal affixed to the lower portion right rear of the vehicle.
 2. Proof of passage of the mechanical inspection performed by the County specified contracted provider within the preceding six (6) months. Agencies currently permitted by regulatory entities identified in the San Diego County Code of Regulatory Ordinances, Division 10, Chapter 3, Section 610.301 (a.b.c.) shall present proof of passage of a mechanical inspection within the preceding twelve (12) months.
 3. Prove and maintain in full force and effect liability insurance including, but not limited to, comprehensive auto liability, each with a combined single limit of not less that \$1,000,000 per occurrence, and general liability with a limit of not less that \$1,000,000 per claim.
 4. Proof of Workers Compensation or a Certificate of Consent to Self-Insure issued by the California State Director of Industrial Relations, applicable to all employees. The Permittee must maintain in full force and effect such coverage during the term of the Permit.

Approved:



Administration



EMS Medical Director

**SUBJECT: NON-EMERGENCY MEDICAL TRANSPORT WHEEL CHAIR/GURNEY VAN SERVICE
REQUIREMENTS**

Date: 07/01/03

C. Personnel Standards:

1. Each driver shall possess at least a current American Red Cross Standard First Aid Certification or equivalent.
2. Each driver shall be at least eighteen (18) years old and possess a valid California Driver's License, designated class III/C or higher.
3. No person shall act in the capacity of a non-emergency medical transportation driver or Attendant if such person is required by law to register as a sex offender or has been convicted of any criminal offense involving force, duress, threat, or intimidation within the last five (5) years.
4. All drivers shall wear clean uniforms that identify the employer or sponsoring agency, and have visible identification of name.
5. Each driver shall wear, in a manner clearly visible on their person a driver identification card issued by the Metropolitan Transit Development Board (MTDB).

D. Required Equipment and Supplies:

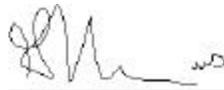
The following items shall be carried on all non-emergency transport service vehicles as a minimum:

1. A fire extinguisher of the dry chemical or carbon dioxide type with an aggregate rating of at least five (5) B/C units and a current inspection card affixed to it.
2. A minimum of at least three (3) red emergency reflectors.
3. A first-aid kit containing medical items to adequately attend to minor medical problems.
4. A map of the County of San Diego published within the past two (2) years, which shall be displayed to any passenger upon request.
5. Each vehicle shall be equipped with a rear view mirror affixed to the right side of the vehicle, as an addition to those rear view mirrors otherwise required by the California Vehicle Code.
6. Each vehicle shall be equipped with a rear view mirror affixed in such a way as to allow the driver to view the passengers in the passenger compartment.

Approved:



Administration



EMS Medical Director

**SUBJECT: NON-EMERGENCY MEDICAL TRANSPORT WHEEL CHAIR/GURNEY VAN SERVICE
REQUIREMENTS**

Date: 07/01/03

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7. Each vehicle identified in #6 above shall have at least one (1) oxygen tank floor mount-securely mounted, for each oxygen cylinder present on the vehicle.
 8. Each vehicle shall have a vehicle body number visible on the left front, right front and rear portion of the vehicle.
 9. Each vehicle shall have an operational 2-way agency communication device.
 10. Each vehicle shall carry wheel chair seat belts for each wheel chair position in the vehicle.
 11. Each vehicle shall have the appropriate number of approved wheel chair restraint mechanisms.
 12. Each vehicle shall have floor mounts for the wheel chair tie downs – securely mounted.
 13. Each vehicle shall have seat belts for all seats used by ambulatory clients.
 14. Each vehicle shall have a minimum of one (1) blanket on board.
 15. Each vehicle shall carry all equipment necessary to comply with California Occupational Safety and Health Administration (CAL OSHA) standards for exposure to blood borne and air borne pathogens.
 16. Each vehicle shall carry one (1) extra wheel chair.

Approved:



Administration



EMS Medical Director

SUBJECT: BASIC LIFE SUPPORT AMBULANCE
SERVICE PROVIDER REQUIREMENTS

Date: 11/01/2010

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- I. **Authority:** Health and Safety Code 1797.160, 1797.204 and 1797.220, 1797.214 California Vehicle Code, Article 2, Section 2512(c) San Diego County Code of Regulatory Ordinances, Division 10.
- II. **Purpose:** To assure minimum requirements for basic life support (BLS) ambulance services operating in San Diego County.
- III. **Policy:** To be eligible to provide BLS ambulance service in San Diego County, an agency (public or private) shall:
- A. Maintain appropriate licensure as required by the California Highway Patrol.
 - B. Maintain appropriate permit as required by the San Diego County Code of Regulatory Ordinances, Division 10, Chap. 2.
 - C. Staff each transporting unit responding to call for service with a minimum of two (2) Emergency Medical Technicians (EMT) currently certified in the State of California.
 - D. Be in accordance with the County of San Diego Emergency Medical Service (EMS) policies and procedures.
 - E. Must operate within the standards defined within the San Diego County Ambulance Ordinance, when applicable.
 - F. Cooperate with the EMT training agencies in providing field experiences.
 - G. Establish internal quality assurance mechanisms based on policies/procedures as cited by the County of San Diego EMS, including participation in Countywide monitoring activities (see policy S-004).
 - H. Submit completed prehospital reports in accordance with policy S-601.

Document revised 11/1/2010

Approved:



Administration



Medical Director

SUBJECT: BASIC LIFE SUPPORT AMBULANCE
SERVICE PROVIDER REQUIREMENTS

Date: 11/01/2010

- I. Meet all requirements as identified in California Code of Regulations, Article I, Section 1100.3, California Vehicle Code, Article 2, Section 2512 (b), (c) and (d), and San Diego County Code of Regulatory Ordinances, Division 10, Chapter 6.

Document revised 11/1/2010

Approved:



Administration



Medical Director

SUBJECT: PREHOSPITAL EMS AIRCRAFT CLASSIFICATION

Date: 11/01/2010

- I. **Authority:** Health and Safety Code Sections 1797.201 and 1797.206; California Code of Regulations, Title 22, Division 9, Chapter 8.
- II. **Purpose:** To establish criteria for classification of prehospital EMS aircraft service providers operating within the emergency medical services (EMS) system of the County of San Diego.
- III. **Policy:** All prehospital EMS aircraft operating within San Diego County shall be classified by the County of San Diego Emergency Medical Services (EMS) prior to operation. Reclassification shall occur if there is a transfer of ownership or a change in the aircraft's category. Classifications shall be as follows:
- A. Air ambulance - any aircraft specially constructed, modified or equipped, and used for primary purpose of responding to emergency calls and transporting critically ill or injured patients whose medical flight crew has a minimum of two (2) attendants certified or licensed in advanced life support (ALS), one of whom is an RN.
- B. Rescue aircraft - an aircraft whose usual function is not prehospital emergency patient transport, but which may be utilized for prehospital emergency patient transport when use of an air or ground ambulance is inappropriate or unavailable.
1. ALS rescue aircraft - a rescue aircraft whose medical flight crew has at a minimum one (1) attendant certified or licensed in ALS.
2. BLS rescue aircraft - a rescue aircraft whose medical flight crew has at a minimum one (1) attendant certified as an EMT with at least eight (8) hours of aeromedical patient transport training.

Document revised 11/1/2010

Approved:



Administration



Medical Director

SUBJECT: PREHOSPITAL EMS AIRCRAFT CLASSIFICATION

Date: 11/01/2010

3. Auxiliary Rescue Aircraft – a rescue aircraft which does not have a medical flight crew, or whose medical flight crew do not meet the minimum requirements listed for the BLS rescue aircraft.

Document revised 11/1/2010

Approved:



Administration



Medical Director

SUBJECT: AIR AMBULANCE DISPATCH CENTER DESIGNATION/DISPATCH OF AIR AMBULANCE

- I. **Authority:** Health and Safety Code, Sections 1797.204, 1797.206, and 1797.218.
- II. **Purpose:** To provide for the coordination of EMS aircraft response within San Diego County.

III. **Definitions:**

Air Ambulance: any rotor aircraft specially constructed, modified or equipped, and used for the primary purposes of responding to emergency calls and transporting critically ill or injured patients whose ambulance flight crew has at a minimum of two (2) attendants certified or licensed in advanced life support, one of whom is an RN.

Alert - condition wherein a requesting agency has requested that an air ambulance be placed on standby in anticipation of a response.

Estimated Time of Arrival (ETA) - the estimated sum of scramble, pre-flight, launch, and in-flight response time to a scene.

Launch - condition wherein a requesting agency has requested that an air ambulance respond to an incident.

Responding - condition wherein the air ambulance flight crew is leaving quarters, preparing the helicopter for flight and flying to the incident scene.

Response Time - the actual sum of scramble, preflight, launch, and in-flight response time to a scene.

- IV. **Policy:** All EMS air ambulance service providers operating within San Diego County shall be dispatched by a center designated by the Division of EMS. The County of San Diego, Division of EMS shall select a provider using the customary procurement process.

- A. To be designated as an air ambulance dispatch center, the dispatch agency shall:
1. Be staffed 24 hours a day, 7 days a week.
 2. Possess radio capabilities allowing for constant communication with aircraft.
 3. Maintain a toll free dedicated telephone line to allow access by all requesting agencies.

Approved:



Administration



Medical Director

SUBJECT: AIR AMBULANCE DISPATCH CENTER DESIGNATION/DISPATCH OF AIR AMBULANCE

4. Answer the phone " Air Ambulance Service".
 5. Provide, upon request, tapes needed for quality assurance purposes, within thirty (30) days of incident.
 6. Possess communication capabilities with all receiving hospitals.
 7. Maintain a flight log to include, at a minimum:
 - a. time of request
 - b. requesting agency
 - c. location of incident
 - d. time dispatched
 - e. crew on board
 - f. time of lift off
 - g. time arrived on scene
 - h. time of lift off from scene
 - i. time arrived at receiving hospital
 - j. reason for aborted flight.
 8. Comply with the Division of Emergency Medical Services in the quality assurance process.
- B. The County of San Diego may revoke or suspend authorization of an EMS aircraft designated dispatch center for failure to comply with applicable policies, procedures, protocols and regulations.

V. Procedure:

- A. Dispatch centers requesting air ambulance dispatch designation must submit a written request to the County of San Diego, Division of EMS with the following minimum information:
 1. Communication capabilities with all hospitals, all public safety agencies, BLS and ALS ground units, and air ambulance units.

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Medical Director

SUBJECT: AIR AMBULANCE DISPATCH CENTER DESIGNATION/DISPATCH OF AIR AMBULANCE

2. Documentation of compliance with applicable Federal and State Air Regulations.

B. County of San Diego, Division of EMS may revoke/suspend designation of dispatch center for failure to comply with applicable policies, procedures, protocols and regulations.

VI. Responsibilities of Agency:

A. The designated air ambulance dispatch agency provides the following services:

1. Establishes the identity of the caller, confirms the location of the incident, the contact person's name, ground contact, radio frequency and other pertinent information.
2. Determines the closest most appropriate available air ambulance.
3. Informs the requesting agency of the ETA of the air ambulance.
4. Requests launch or standby as appropriate from the closest most appropriate provider.
5. Maintains an updated list of all landing pads in the county.
6. Maintains a system status plan approved by the Division of EMS and adheres to the dispatch procedure established in Section V of this policy.
7. Provides the Division of EMS and participating air ambulance providers with system reports for each month.
8. These system reports shall illustrate the dispatch times, response times and other patient service times captured by the air ambulance dispatch center.

VII. Dispatch Procedure:

A. Air ambulance services request:

1. Requesting agencies contact the air ambulance dispatch center on the designated phone line to request an air ambulance launch or standby providing incident address, Thomas Bros. map page, or GPS coordinates and nature of incident, landing zone, ground contact unit, and coordination radio frequency.

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Medical Director

SUBJECT: AIR AMBULANCE DISPATCH CENTER DESIGNATION/DISPATCH OF AIR AMBULANCE

2. The air ambulance dispatch center selects the closest most appropriate unit and advises the requesting agency of the air ambulance agency, unit number, response location and pertinent hospital receiving information.
 3. The air ambulance dispatch center provides information to the selected air ambulance provider and obtains an ETA.
 4. The air ambulance dispatch center tracks helicopter status as (ALERTED) when a standby is requested and (RESPONDING) when a launch is initiated.
 5. The air ambulance dispatch center tracks disposition of the response as (CANCELLED) or (TRANSPORT) as advised by the air ambulance provider at the close of each response.
- B. Air ambulance unit selection for responses:
1. The air ambulance provider contacts the air ambulance dispatch center with each " on and off duty" status of helicopter units, providing unit numbers, hours and location.
 2. The air ambulance provider contacts the designated air ambulance dispatch provider with units "out of service" status or post-to-post moves within the County for various reasons including fueling, maintenance, special events, etc.
 3. The air ambulance dispatch center selects the closest, most appropriate air ambulance provider based on proximity to the incident. In the instance where multiple providers are at the same post, the air ambulance provider not having handled the last response will be selected.
- C. Other communications:
1. Pre-launch communication "requests for service" will be made to the air ambulance dispatch center, which then turns the request over to the dispatch center of the selected provider.

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Administration



Medical Director

SUBJECT: AIR AMBULANCE DISPATCH CENTER DESIGNATION/DISPATCH OF AIR AMBULANCE

2. Post-launch communications pertaining to a response in progress should be made directly between the responding air ambulance agency and the requesting agency.

D. Posting locations:

1. Air ambulance provider will contact the air ambulance dispatch center with each "on and off duty" status of helicopter units, providing unit numbers, hours and location.
2. "Move up" locations may also be used at the discretion of the provider for periods of six hours or less provided that they are at a licensed helipad or airport and that appropriate indoor rests and toilet facilities are provided for flight crews. Itinerant units will not be allowed.

E. Disputes:

1. Selection made by the air ambulance dispatch center at the time of service shall be final.
2. Air ambulance providers who believe that a dispatch error has occurred shall present their complaints in writing to the Division of EMS Ambulance Permit Officer or designee, within two weeks of the incident.
3. The Ambulance Permit Officer or designee shall investigate disputed calls within two weeks of receipt and may at his/her discretion compensate an appealing air ambulance provider agency with an "extra turn or turns" in rotation. No other compensation shall be made and the decision of the Permit Officer is final.

VIII. Fees:

A. Dispatch Fee:

1. A dispatch fee shall be assessed for each dispatch resulting in a transport. Air ambulance providers shall be billed monthly. The amount of the dispatch fee shall be determined by the Board of Supervisors and shall reasonably cover the cost of providing the dispatch service.

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Administration



Medical Director

SUBJECT: AIR AMBULANCE DISPATCH CENTER DESIGNATION/DISPATCH OF AIR AMBULANCE

2. Fees shall be due and payable to "Division of EMS" or its designee 30 days after the date of invoice.
3. Failure to remit fees within the 30 day period shall result in immediate suspension from the air ambulance dispatch program until fees have been paid.
4. Failure to remit fees within 60 days after the date of the invoice shall result in permanent termination from the air ambulance dispatch program.

Approved:



Administration



Medical Director

SUBJECT: AIR AMBULANCE SERVICE PROVIDER AUTHORIZATION

Date: 11/01/2010

- I. **Authority:** Health and Safety Code, Sections 1797.204, 1797.206 and 1797.218.
- II. **Purpose:** To define the process for authorization of air ambulance service provider agencies operation by the County of San Diego Emergency Medical Services (EMS).
- III. **Policy:** All air ambulance service provider agencies operating within the County of San Diego EMS system shall be authorized by EMS prior to operation, and must operate within the standards defined within the San Diego County Ambulance Ordinance.
- A. To be authorized to provide EMS air ambulance support the provider shall:
1. Provide services on a continuous twenty-four (24) hour basis, and
 2. Maintain medical flight crews as provided for by each aircraft classification, and
 3. Function under local medical control, and
 4. Comply with the Emergency Medical Services Quality Assurance/Quality Improvement process, and
 5. Submit prehospital reports as per County of San Diego Division of EMS Policy S-601, and
 6. Participate in community education programs and first responder orientation when requested, and
 7. Submit to EMS evidence of compliance with California Code of Regulations, Title 22, Division 9, Chapter 8, Section 100302 (Medical Flight Crew Personnel Training) and 100306 (Space and Equipment), and
 8. Enter into a written agreement with the County as an air ambulance service provider, and

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9. Submit to EMS verification of dispatch capability, 24 hours a day, 7 days a week, capable of maintaining constant communication with the aircraft, and
 10. Comply with all applicable Federal and State Air Regulations.
- B. The County of San Diego may revoke or suspend authorization of an air ambulance provider for failure to comply with applicable policies, procedures, protocols and regulations.

IV. Procedures:

- A. Agencies requesting authorization must submit a written request to the County of San Diego EMS to include, but not be limited to:
1. Number and type of aircraft to be authorized.
 2. Patient capacity of each aircraft.
 3. Level of patient care to be provided by each aircraft.
 4. Proposed staffing for each aircraft.
 5. Statement of demonstration need.
- B. Once authorized; the provider agency shall notify the local EMS Agency of
1. Any foreseen or unforeseen change in or disruption of service (i.e., decrease in number of aircraft available, staffing patterns or patient care capabilities).
 2. Documentation of satisfactory compliance with personnel requirements, equipment and supplies.

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Approved:



Administration



Medical Director