

Getting to Know Public Health Services Data Workshop

Database Information

SANDAG Demographic Data

Beth Jarosz
SANDAG

Community Health Statistics Unit
County of San Diego, Health and Human Services Agency, Public Health Services

SANDAG Data: Why

- Provide population size and demographics to predict health service needs
- Used to calculate rates which are necessary to compare health issues over time and to track population trends

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SANDAG Data: Who & What

- Who is included in the database
 - Entire San Diego region population
 - Households and housing units
 - Jobs
- What information is in database
 - Demographics: age, race/ethnicity, gender
 - SES Characteristics: occupation, education, housing characteristics, income and poverty, family structure, household characteristics

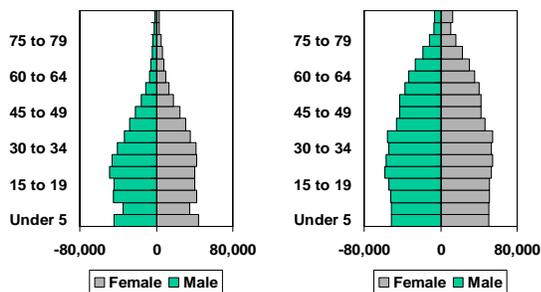
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SANDAG Data: Where & When

- All of San Diego County, by
 - Census tract
 - Zip code
 - Subregional Area (SRA)
 - County
- Census – every 10 years
 - American Community Survey, more data on an annual basis beginning September 2006
- Estimates – yearly
- Forecasts – 5 year increments to 2030

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SANDAG Data: Hispanic Population by Age & Gender 2005 & 2030



SANDAG Data: Current/Future Uses

- Online
 - Data: <http://datawarehouse.sandag.org/>
 - Reports: <http://profilewarehouse.sandag.org/>
- Planning & development
 - Expanding amount of data available at parcel level
- Other
 - Special tabulations and custom requests available through SANDAG's Service Bureau

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Database Information:**

Database Name(s):	Census, Current Estimates, Regionwide Forecast
Branch:	SANDAG
Type of Data:	Population, Housing, Economy, Special Services, Survey, Other
Who is included:	Census: random sample of San Diego County residents Estimates/Forecasts: Residents of San Diego County
Confidentiality/Sensitivity Issues:	N/A
When: lag time	Estimates data updated annually, and reflect January 1 estimate of that year.
When: years available	2000-2006 Predictions: 2010, 2020, 2030
Limitations:	Data between 10 year censuses is estimated. Some detail data only available through decennial census.
Types of Variables:	Demographics: age, race/ethnicity, gender Geography: county, SRA, zip code, census tract Topic specific variables: occupation, education, housing, income, family, household
Reports available online?	Data: http://datawarehouse.sandag.org/default.asp Reports: http://profilewarehouse.sandag.org/
Index Headings: (primary and secondary)	1: Other - population
Notes:	It is important to work with a SANDAG analyst, PHS epidemiologist or biostatistician when using this data to avoid misinterpretation.

Automated Regional Justice Information System (ARJIS) Data

Beth Jarosz
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ARJIS Data: Why

- Centralized regional database for law enforcement to:
 - Solve crimes
 - Identify offenders
 - Notify officers of alerts
 - Standardize crime statistics
- Promotes data sharing between agencies
- Cleansed data is used for the public web-based crime mapping & statistics

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ARJIS Data: Who & What

- Regional crime report database (law enforcement only)
 - Arrest reports, crime cases, traffic accidents, pawn slips, moving citations
 - Submitted by region's 10 police/sheriff agencies
 - Accessed by 11,000 users at 70 local, state and federal agencies
 - 100,000 transactions / month average

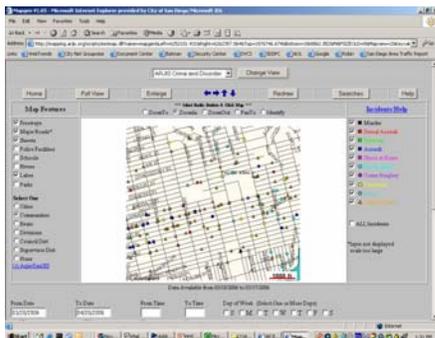
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ARJIS Mapping Data: Where & When

- All of San Diego County, by
 - Address (approximated on map)
 - Zip code, City, County, Neighborhood, Police Beat, Supervisor & Council Districts
 - Date, time and day of week
- 90 days data available
- 20,000 hits/ month average

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ARJIS Data: Crime Map



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ARJIS Data: Current/Future Uses

- Public website: www.arjis.org
 - Customized crime maps
 - Crime statistics/reports
- eWATCH – register for daily email update of crimes near an address (City of SD only at www.sandiego.gov)
- Domestic Violence Communication System (not available to public)
 - Promotes information sharing in the DV community (shelters, batterer's treatment providers, law enforcement agencies)

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Database Information:**

Database Name(s):	Automated Regional Justice Information System (ARJIS)
Branch:	ARJIS
Type of Data:	Other- Law Enforcement
Who is included:	arrests, crime cases, traffic accidents, citations
Confidentiality/Sensitivity Issues:	Confidential/sensitive information used by law enforcement is not released to public
When: lag time	Depends on data and reporting agency, usually within few days
When: years available	Maps: since January 2005 Tables: maximum of 91 days worth in last 12 months
Limitations:	All other (non-online) data requests must be approved
Types of Variables:	<p>Demographics: N/A</p> <p>Geography: Address (approximated on map), Zip code, City, County, Neighborhood, Police Beat, Supervisor & Council Districts</p> <p>Topic specific variables: Arrests & citations, crime & disorder, vehicle & traffic incidents</p>
Reports available online?	Mapping: www.arjis.org
Index Headings: (primary and secondary)	<p>1: - Crime data</p> <p>2: - Intentional injury, Traffic injury, Substance abuse</p>
Notes:	

State-wide Integrated Traffic Records System (SWITRS) Data

Alan Smith, Ph.D., M.P.H.
Emergency Medical Services

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SWITRS Data: Why

- Great for getting an idea of the number of people injured or killed in motor vehicle crashes
- Prevent motor vehicle, motorcycle, pedalcycle and pedestrian injuries
- Promote and encourage healthy and safe driving behaviors

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SWITRS Data: Who & What

- Anyone involved in motor vehicle related injury on a public roadway in San Diego County
- Demographics
- Event location
- Environment (road, weather conditions), circumstances (drunk driving, distracted driving), seat belt use
- Victim, party, and crash levels

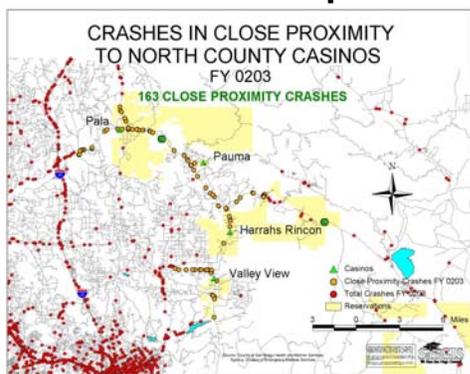
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SWITRS Data: Where & When

- Exact event location available through July 2003
 - Intersection & offset (mid block)
 - Grouped to zip code
- 6 month lag; quarterly data transfer from California Highway Patrol

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SWITRS Map



SWITRS Data: Current & Future Uses

- Annual report online:
 - <http://www2.sdcountry.ca.gov/hhsa/ServiceDetails.asp?ServiceID=571>
- Prevention & control programs
- Grants

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Database Information:**

Database Name(s):	State-wide Integrated Traffic Records System (SWITRS)
Branch:	Emergency Medical Services (EMS)
Type of Data:	Other – law enforcement records
Who is included:	Any motor vehicle related injury on a public roadway in San Diego County
Confidentiality/Sensitivity Issues:	No individual identifiers; can't identify multiple incidents for individual. Individuals may possibly be identified by combination of variables.
When: lag time	6 months
When: years available	1995- September 2005
Limitations:	<ul style="list-style-type: none"> - Does not include injuries on private property (i.e. driveways, parking lots). - Limited detail on injuries; 5 outcome levels: non injured, complaint of pain, other visible injury, severely injured, killed. - Make, year of car available, but not model.
Types of Variables:	<p>Party & Victim Demographics: Age, race/ethnicity, gender</p> <p>Geography: exact location</p> <p>Topic specific variables: environment (road, weather conditions), circumstances (drunk driving, distracted driving), seat belt use</p>
Sample sentence of Interpretation:	"Among those injured in motor vehicle related incident on public roadways in San Diego County, ..."
Reports available online?	<p>http://www2.sdcounty.ca.gov/hhsa/ServiceDetails.asp?ServiceID=571</p> <p>State level reports available from CHP: http://www.chp.ca.gov/html/publications.html</p>
Index Headings: (primary and secondary)	1: Traffic injury
Notes:	Topic-specific reports in collaboration with community-based injury prevention organizations such as Walk San Diego or Safe Kids.

Birth Data, Fetal Death Data, Infant Death Data

Sutida (Nid) Jariangprasert, M.P.H.
Maternal, Child and Family Health Services

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Birth, Fetal & Infant Death Data: Why

- Identify trends & disparities, develop interventions
- Ensure women are healthy and have access to health care and other resources
- Ensure babies are born healthy
- Prevent fetal & infant mortality

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Birth Data: Who & What

- **Live births:** to county residents (including occurrence outside the county) and births that occurred in the county
- **Demographics:** mother's age, race/ethnicity, education level, marital status; father's demographics; infant's gender
- **Topic specific:** fertility rate, prenatal care, preterm, low birth weight, method of delivery

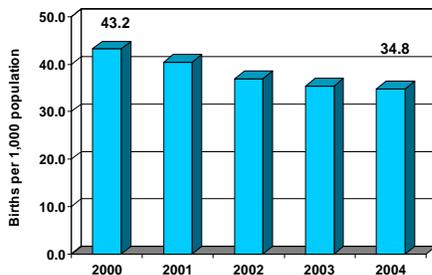
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Birth Data: Where & When

- All of San Diego County, by
 - Zip code
 - City
 - HHSA Region
- Calendar years 1990 through 2004
- Lag time is about 6 months after the end of the year

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Births Rate Among Girls Aged 15-19 San Diego County Residents



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Birth, Fetal & Infant Death Data: Current & Future Uses

- Identify areas of need and develop intervention strategies
 - CDC's Perinatal Periods of Risk
 - Target outreach to
 - zip codes with high number of births to African-Americans
 - communities with high rates of late start of prenatal care
 - Estimate size of target population for planned or potential interventions

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Database Information:**

Database Name(s):	Birth Statistical Master File
Branch:	Maternal, Child and Family Health Services
Type of Data:	Vital Records
Who is included:	Live births to San Diego County residents (including occurrence outside the county) and births that occurred in the county.
Confidentiality/Sensitivity Issues:	Information with personal identifiers is not released. Cells in a statistics table with fewer than five births are censored.
When: lag time	Variable; data for a calendar year may be available about 6 months after the end of that year.
When: years available	1990-2005
Limitations:	Some variables have a lot of missing information. Statistics on very unreliably reported variables are not released (e.g. congenital malformations). Reported and self-reported data are not necessarily verified.
Types of Variables:	<p>Demographics: Mother’s age, race/ethnicity, education level, marital status; father’s age, race/ethnicity, education level; child’s gender.</p> <p>Geography: Zip code, city, HHS Region</p> <p>Topic specific variables: Fertility rate, teen births, prenatal care, preterm births, low birth weight, method of delivery, plurality.</p>
Sample sentence of Interpretation:	“Among San Diego County residents, aged 15 to 19 in 2004, there were 35 births for every 1,000 girls.”
Reports available online?	www.sdhealthstatistics.com
Index Headings: (primary and secondary)	1: Vital records – births
Notes:	Database contains live birth data from birth certificates. “Live births” is NOT synonymous with “pregnancies”; the latter can result in miscarriages, fetal deaths (stillbirths), induced abortions and/or live births.

Birth Data, Fetal Death Data, Infant Death Data

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Birth, Fetal & Infant Death Data: Why

- Identify trends & disparities, develop interventions
- Ensure women are healthy and have access to health care and other resources
- Ensure babies are born healthy
- Prevent fetal & infant mortality

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Fetal Death Data: Who & What

- Deaths prior to birth, or stillbirths of 20 weeks gestation or more
- Reporting is NOT complete
- **Demographic:** mother's age, race/ethnicity, education level; father's demographics; fetus' gender
- **Topic specific:** fetal mortality, prenatal care, length of gestation, cause of death

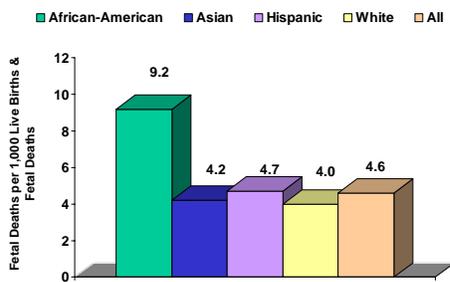
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Fetal Death Data: Where & When

- All of San Diego County, by
 - Zip code
 - HHS Region
- Calendar years 1989 through 2003
- Lag time is about 9 months after the end of the year

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Fetal Death Rate by Race/Ethnicity San Diego County Residents, 2003



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Birth, Fetal & Infant Death Data: Current & Future Uses

- Identify areas of need and develop intervention strategies
 - CDC's Perinatal Periods of Risk
 - Target outreach to
 - zip codes with high number of births to African-Americans
 - communities with high rates of late start of prenatal care
 - Estimate size of target population for planned or potential interventions

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Database Information:**

Database Name(s):	Fetal Death Statistical Master File
Branch:	Maternal, Child and Family Health Services
Type of Data:	Vital Records
Who is included:	Fetal deaths are deaths prior to birth, or stillbirths. Reporting is required (but NOT complete) for fetuses advanced to or beyond the 20 th week of gestation. This includes fetal deaths that occurred in the county and those among county residents but occurring outside the county.
Confidentiality/Sensitivity Issues:	Information with personal identifiers is not released. Cells in a statistics table with fewer than five deaths are censored.
When: lag time	Variable; data for a calendar year may be available about 9 months after the end of that year.
When: years available	1989-2005
Limitations:	<ul style="list-style-type: none"> - Registration is not complete – under reported. - Some variables are incomplete and not necessarily verified. - Only the underlying cause of death is available, not additional contributing causes. - Ability to look at trends is limited by a major change in coding causes of death in 1999.
Types of Variables:	<p>Demographics: Mother’s age, race/ethnicity, education level; father’s age, race/ethnicity, education level; fetus’ gender.</p> <p>Geography: Zip code, HHS Region</p> <p>Topic specific variables: Fetal mortality, prenatal care, method of delivery, length of gestation, birthweight, cause of death.</p>
Sample sentence of Interpretation:	“In San Diego County there were 4.6 fetal deaths for every 1,000 live births and fetal deaths in 2003.”
Reports available online?	www.sdhealthstatistics.com
Index Headings: (primary and secondary)	1: Vital records – birth, death
Notes:	Database excludes induced abortions, which are not required to be reported in California.

Birth Data, Fetal Death Data, Infant Death Data

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Birth, Fetal & Infant Death Data: Why

- Identify trends & disparities, develop interventions
- Ensure women are healthy and have access to health care and other resources
- Ensure babies are born healthy
- Prevent fetal & infant mortality

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Infant Death Data: Who & What

- Deaths among county residents (including occurrence outside the county) and deaths that occurred in the county
- **Demographics:** infant's race/ethnicity, gender, age
- **Topic Specific:** infant mortality (including neonatal, postneonatal), cause of death

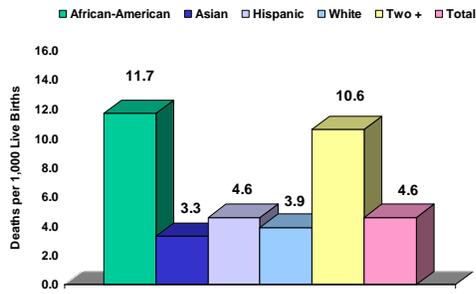
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Infant Death: Where & When

- All of San Diego County, by
 - Zip code
 - City
 - HHS Region
- Calendar years 1990 through 2004
- Lag time is about 9 to 12 months after the end of the year

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Infant Mortality Rate by Race/Ethnicity San Diego County Residents, 2003



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Birth, Fetal & Infant Death Data: Current & Future Uses

- Identify areas of need and develop intervention strategies
 - CDC's Perinatal Periods of Risk
 - Target outreach to
 - zip codes with high number of births to African-Americans
 - communities with high rates of late start of prenatal care
 - Estimate size of target population for planned or potential interventions

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**Getting to Know Public Health Data Workshop
Database Information:**

Database Name(s):	Death Statistical Master File – Infant Mortality
Branch:	Maternal, Child and Family Health Services
Type of Data:	Vital Records
Who is included:	Deaths among county residents (including occurrence outside the county) and deaths that occurred in the county, focus on infant mortality.
Confidentiality/Sensitivity Issues:	Information with personal identifiers is not released. Cells in a statistics table with fewer than five deaths are censored.
When: lag time	Variable; data for a calendar year may be available about 9 to 12 months after the end of that year.
When: years available	1990-2004
Limitations:	Only the underlying cause of death is available, not additional contributing causes. Ability to look at trends is limited by a major change in coding causes of death in 1999. Misreporting of race/ethnicity may occur for some groups; information can be provided by next-of-kin or friend. Reported data are not necessarily verified; under-registration of infant deaths may occur.
Types of Variables:	Demographics: Infant's race/ethnicity, gender, age Geography: Zip code, city, HHS Region Topic specific variables: Infant mortality (including neonatal, postneonatal mortality), cause of death.
Sample sentence of Interpretation:	"There were 4.6 infant deaths for every 1,000 live births in 2003 in San Diego County."
Reports available online?	www.sdhealthstatistics.com
Index Headings: (primary and secondary)	1: Vital records – birth, death
Notes:	Infant deaths include only infants who were born alive but died before reaching 1 year of age.

**See Maternal, Child and Family Health Services Databases
pages 7, 9, 11**

**Getting to Know Public Health Data Workshop
Database Information:**

Database Name(s):	Birth Cohort Statistical Master File
Branch:	Maternal, Child and Family Health Services
Type of Data:	Vital Records
Who is included:	Live births (and fetal deaths) and infant deaths. Includes live births & fetal deaths that occurred in the county and among county residents but occurring outside the county.
Confidentiality/Sensitivity Issues:	Information with personal identifiers is not released. Small numbers are not reported.
When: lag time	Variable; data for a calendar year may be available about 3 to 4 years after the end of that year. This is because infant mortality outcomes are collected and linked to live birth data.
When: years available	1999-2003
Limitations:	Some variables are incomplete and not necessarily verified; under-registration of fetal deaths may occur. Only the underlying cause of death is available, not additional contributing causes. Ability to look at trends is limited by a major change in coding causes of death in 1999.
Types of Variables:	<p>Demographics: Mother's age, race/ethnicity, education level, marital status; father's age, race/ethnicity, education level; infant's gender, age.</p> <p>Geography: Zip code, HHS Region</p> <p>Topic specific variables: Infant mortality as related to prenatal care, preterm birth, low birthweight, mother's age, and education. Fetal mortality statistics: fetal mortality, prenatal care, method of delivery, length of gestation.</p>
Sample sentence of Interpretation:	"In San Diego County, nearly two-thirds (64.6%) of infants that died among the 2001 birth cohort had low birthweight."
Reports available online?	www.sdhealthstatistics.com
Index Headings: (primary and secondary)	1: Vital records – birth, death
Notes:	Because live births and infant deaths are linked in the file, it provides 1) a direct measure of infant mortality, 2) pregnancy and birth related information for infant deaths and 3) more accurate race/ethnicity infant mortality rates than rates calculated using the separate death and birth datasets.

Death Certificate Data

Jennifer Nelson, M.P.H.
Community Epidemiology

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Death Data: Why

- Track deaths attributable to specific causes (including diseases, conditions, accidents, etc.)
- Determine leading causes of death county-wide and for specific regions and population groups
- Assess trends in mortality
- Measure health disparities
- Assess the health of the community and measure health outcomes

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Death Data: Who & What

- Recorded deaths of
 - San Diego County residents
 - Residents of other locales whose death occurred in San Diego County
- Demographics: age, race/ethnicity, gender, marital status, education
- Geography: zip code, city, state of residence
- Underlying cause of death, date of death, place of death

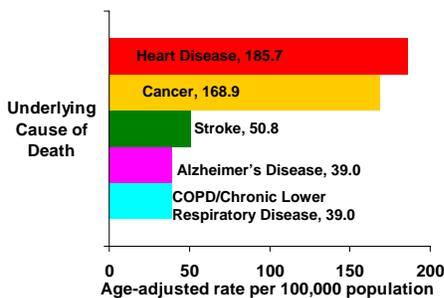
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Death Data: Where & When

- Deaths occurring in San Diego County and deaths of San Diego County residents in other locales
- Location of residence by zip code, city, state
- Ongoing data collection
- Reports available online, annually in spring for deaths occurring 2 years prior (e.g., reports on deaths occurring in 2004 are available online in spring of 2006)

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Age-adjusted Rates of the Leading Causes of Death Among San Diego County Residents, 2004



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Death Data: Current & Future Uses

- Annual tables online:
 - www.sdepi.org
 - (select Epidemiology – Statistics and Reports)
- Prevention & control programs
 - Planning
 - Evaluation

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Database Information:**

Database Name(s):	Death Records
Branch:	Community Epidemiology
Type of Data:	Population
Who is included:	Any recorded death occurring in San Diego County as well as San Diego County resident deaths regardless of location
Confidentiality/Sensitivity Issues:	Information with personal identifiers is not released.
When: lag time	Variable. Approximately 12 months from the end of the calendar year in which the death occurred.
When: years available	1989-2004
Limitations:	Due to the lag time, cannot provide “real time” information. Only the underlying cause of death is available, not additional contributing causes. Information about exposures or risk factors is not available. Ability to look at trends is limited by a major change in coding causes of death in 1999.
Types of Variables:	Demographics: age, race/ethnicity, gender, marital status, education Geography: zip code, city, state of residence Topic specific variables: underlying cause of death, date of death, place of death
Sample sentence of Interpretation:	Among San Diego County residents in 2004, the leading cause of death was heart disease, with 5,186 reported deaths and an age-adjusted rate of 185.7 deaths per 100,000 population.
Reports available online?	http://www2.sdcounty.ca.gov/hhsa/ServiceDetails.asp?ServiceID=147
Index Headings: (primary and secondary)	1: Other-Vital records 2: External causes, infectious diseases, chronic disease
Notes:	

PreHospital Database

Barbara Stepanski, M.P.H.
Emergency Medical Services

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County of San Diego, Health and Human Services Agency, Public Health Services

PreHospital Data: Why

- The County of San Diego Prehospital database is a great resource that allows for county-wide surveillance and analysis of injuries and illnesses. This provides data for:
 - System oversight
 - Response to disasters
 - Community based organizations
 - Research
 - Grant writing

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PreHospital Data: Who & What

- The Prehospital database is population based; it includes patients responded to by Emergency Medical Technicians (EMTs) and/or Paramedics via the 911 system in San Diego County.
- Some information in this database includes:
 - date and time of incident
 - chief complaint
 - treatments provided
 - acuity
 - prehospital outcome
 - restraint use
 - category of incident location
 - injury type

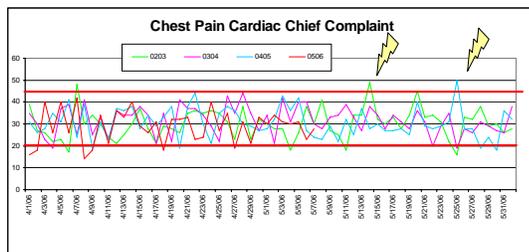
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PreHospital Data: Where & When

- All of County of San Diego by zip code*
- Ongoing (real-time) data collection
- Historical reports available online
- Specific reports available by request

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PreHospital Data:



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PreHospital Data: Current & Future Uses

- Annual report online:
 - <http://www2.sdcounty.ca.gov/hhsa/ServiceDetails.asp?ServiceID=544>
- Various system reports and surveillance
- Research/Projects
- Prevention & control programs

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Database Information:**

Database Name(s):	Prehospital Database
Branch:	Emergency Medical Services (EMS)
Type of Data:	Population
Who is included:	Patients responded to by Emergency Medical Technicians (EMTs) and/or Paramedics via the 911 system in County of San Diego
Confidentiality/Sensitivity Issues:	Yes, certain variables are confidential
When: lag time	Detailed data has a lag time of 1-2 years; less detailed data is updated weekly
When: years available	Detailed data 1995-2003 Less detailed data 1995-current
Limitations:	Prehospital data does not provide long term outcome or follow up of patient's condition.
Types of Variables:	<p>Available variables will vary depending on the file (detailed or less detailed) data comes from.</p> <p>Demographics: Age, race/ethnicity, gender:</p> <p>Geography: incident zip code</p> <p>Topic specific variables: date, time, chief complaint, injury, acuity, treatments provided, restraint use, category of incident location, prehospital outcome</p>
Sample sentence of Interpretation:	Among children (0-4 years old) who are transported by paramedics/EMTs in San Diego County, 2-3% have suffered fire/burn injuries. Less than 10-15% of these injuries are due to flame/fire burns; most are due to scalds/hot object burns.
Reports available online?	http://www2.sdcounty.ca.gov/hhsa/ServiceDetails.asp?ServiceID=544
Index Headings: (primary and secondary)	<p>1: Pre-hospital</p> <p>2: External Causes, Influenza, Asthma & Other Respiratory, Heart Disease & Stroke, Behavioral Health Issues</p>
Notes:	

Emergency Department Discharge Data

Holly Shipp, M.P.H.
Emergency Medical Services (EMS)

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Emergency Department (ED) Data: Why

- Great for describing:
 - the demographics of ED discharge patients
 - what diseases, conditions, or injuries patients are treated for & discharged from the ED
 - possible information on the use of ED for non-emergent or primary care treatable medical conditions
 - health & service areas that may need additional urgent & primary care services

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ED Data: Who & What

- All patients treated and discharged from civilian EDs in San Diego County
 - Patients admitted to hospital from the ED are not included (i.e. most severe cases)
- Demographic variables: age, race/ethnicity, gender, zip code of residence
- Service date, patient disposition, expected source of payment
- Principal & other diagnosis, principal & other E-code (mechanism of injury)

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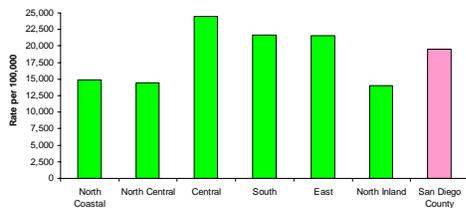
ED Data: Where & When

- Zip code level
- Currently: >97% of San Diego County ED discharge patients
- Future Goal: 100% of San Diego & Imperial Counties

- Data: Quarterly reporting, 3 month lag
- Reports: Quarterly

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Rate of ED Discharge by Region of Residence



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ED Data: Current & Future Uses

- Quarterly reports online:
 - www.sdchip.org
 - <http://www2.sdcounty.ca.gov/hhsa/ServiceDetails.asp?ServiceID=571>
- ED use algorithm – identify ED utilization for non-emergent or primary care treatable medical conditions
- Trends to determine regional priorities

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Getting to Know Public Health Data Workshop
Database Information:

Database Name(s):	Emergency Department Data Surveillance Project ED Discharge Data
Branch:	Emergency Medical Services (EMS)
Type of Data:	Population
Who is included:	Patients who were treated and discharged from civilian emergency departments in San Diego County
Confidentiality/Sensitivity Issues:	No unique identifiers Patient level data not available
When: lag time	Quarterly Data. Reported 3-4 months after end of each quarter.
When: years available	July 2005-2006 (new database)
Limitations:	- does not include patients who were admitted to hospital (i.e. most severe patients) - can not identify individuals, nor multiple visits by same person
Types of Variables:	Demographics: Age, sex, race, ethnicity Geography: zip code (patient residence) Topic specific variables: service date, expected source of payment, patient disposition, principal & other diagnosis, principal & other E-code (mechanism of injury)
Sample sentence of Interpretation:	“Among patients treated and discharged from civilian Emergency Departments in San Diego County, ...”
Reports available online?	Quarterly Aggregate Reports: www.sdchip.org http://www2.sdcounty.ca.gov/hhsa/ServiceDetails.asp?ServiceID=571
Index Headings: (primary and secondary)	1: Emergency Department Data 2: External Causes of injury, infectious disease, chronic disease, behavioral health issues, risk factors: obesity & high blood pressure,
Notes:	This is new database. San Diego is the only county in state, if not nation with population based Emergency Department data; over 97% of Emergency Department patient discharges are reported.

Trauma Registry

Alan Smith, Ph.D., M.P.H.
Emergency Medical Services

Community Health Statistics Unit
County of San Diego, Health and Human Services Agency, Public Health Services

Trauma Data: Why

- Great for getting an idea of who has been hospitalized as a result of severe injuries
- Prevent injuries
- Protect against environmental hazards
- Promote and encourage safe and healthy behaviors
- Assure the quality and accessibility of health services

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Trauma Data: Who & What

- Patients seen at San Diego County Trauma Centers
- Demographics
- Zip code of residence
- Event date/time, possible prehospital information, diagnosis, injury E-code, treatment/surgery, survival outcome

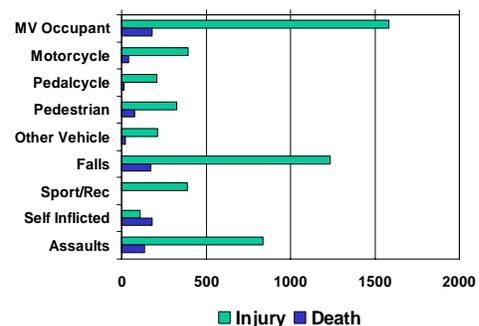
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Trauma Data: Where & When

- Zip code of residence
- Zip code of occurrence (limited)
- Ongoing data collection
- Annual reports available online, 1 year lag

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Trauma System Injuries and Deaths by Mechanism



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Trauma Data: Current & Future Uses

- Annual report online:
– <http://www2.sdcountry.ca.gov/hhsa/ServiceDetails.asp?ServiceID=527>
- Prevention & control programs
- Trauma System quality improvement

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**Getting to Know Public Health Data Workshop
Database Information:**

Database Name(s):	Trauma Registry
Branch:	Emergency Medical Services (EMS)
Type of Data:	Population
Who is included:	Patients seen at San Diego County Trauma Centers (i.e. most severely injured patients)
Confidentiality/Sensitivity Issues:	Very sensitive. No data requests unless included in published reports. Data requests must be approved by the Medical Audit Committee and hospital institutional review boards.
When: lag time	Data reported monthly, approximately 3 months after discharged. 1 year for reports
When: years available	1985-2005
Limitations:	<ul style="list-style-type: none"> - Confidentially limits data availability and usability. - Limited event information, variations in reporting details. - Limited to injuries caused by blunt or penetrating traumatic force, and evaluated by trauma surgeons. This excludes certain types of injuries such as burns, strangulation, poisoning, and isolated fractures.
Types of Variables:	<p>Demographics: age, race/ethnicity, gender</p> <p>Geography: residence zip code</p> <p>Topic specific variables: event date/time, possible prehospital information, diagnosis, injury E-code, treatment/surgery</p>
Sample sentence of Interpretation:	"Among patients seen at San Diego County Trauma Centers, ..."
Reports available online?	Annual Fiscal year Report: http://www2.sdcounty.ca.gov/hhsa/ServiceDetails.asp?ServiceID=527
Index Headings: (primary and secondary)	<p>1: External Causes: traffic injury, accidents, intentional injury</p> <p>2: Hospital Discharge</p>
Notes:	No data requests (due to confidentiality)

Hospital Patient Discharge Data

Lacey Hicks, M.P.H.
Community Epidemiology

Community Health Statistics Unit
County of San Diego, Health and Human Services Agency, Public Health Services

Hospital Discharge Data: Why

- Track hospitalizations attributable to specific causes (including diseases, conditions, accidents, etc.)
- Determine leading causes of hospitalization – countywide and for specific regions and population groups
- Assess trends in hospitalizations
- Measure health disparities
- Assess the health of the community and measure health outcomes
- Estimate disease/condition burden on community through total charges and length of stay of hospitalizations

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Hospital Discharge Data: Who & What

- Each inpatient discharged from a California licensed acute care hospital in San Diego County
 - 2003 dataset includes over 300,000 records
- Demographics: age, race/ethnicity, gender, zip code
- Clinical information: diagnosis (ICD-9-CM), injury (E-Codes), length of stay, disposition of patient, total charges, expected source of payment

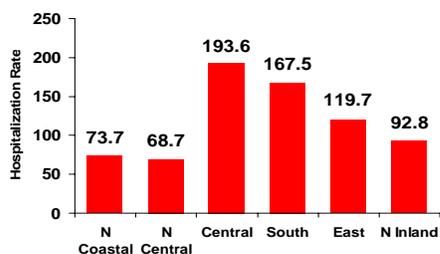
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Hospital Discharge Data: Where & When

- San Diego County by patient zip code
- Ongoing data collection by the California Office of Statewide Health Planning and Development (OSHPD)
- Dataset available annually, approximately 12 months after the calendar year has ended

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Diabetes Hospitalizations Among San Diego County Residents, by HHS Region, 2003



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Hospital Discharge Data: Current & Future Uses

- Reports online:
 - Local
<http://www2.sdcounty.ca.gov/hhsa/ServiceDetails.asp?ServiceID=147>
 - California State
<http://www.oshpd.ca.gov/>
- Prevention & control programs

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**Getting to Know Public Health Data Workshop
Database Information:**

Database Name(s):	California Patient Discharge Data Hospital Patient Discharge Data
Branch:	Community Epidemiology
Type of Data:	Population
Who is included:	Each inpatient discharged from a California licensed acute care hospital. This includes: General Acute Care Hospitals, Acute Psychiatric Hospitals, Chemical Dependency Recovery Hospitals, and Psychiatric Health Facilities.
Confidentiality/Sensitivity Issues:	Patient-level data include: patient zip code, demographic variables, and clinical information.
When: lag time	OSHPD releases the dataset once a year after data have been screened and corrected by individual hospitals –approximately 12 months after the end of the calendar year.
When: years available	1997 to 2005
Limitations:	-1 year lag time -zip code is the only geographic variable available and may be omitted to protect patient confidentiality
Types of Variables:	Demographics: Age, race/ethnicity, gender Geography: patient zip code Topic specific variables: quarter admitted, source and type of admission, condition resent at admission, length of stay, disposition of patient, expected payment source, total charges, diagnosis and external injury codes (ICD-9-CM), (E-codes), Major Diagnostic Category (MDC), Diagnosis Related Group (DRG)
Sample sentence of Interpretation:	Diabetes hospitalizations among San Diego County residents in 2003 were 95.1 per 100,000 women compared to 134.5 per 100,000 men.
Reports available online?	State of California Office of Statewide Health Planning and Development (OSHPD) at http://www.oshpd.ca.gov/
Index Headings: (primary and secondary)	1: Hospital discharges 2: External causes, infectious diseases, chronic disease
Notes:	

Medical Examiner (ME) Data

Alan Smith, Ph.D., M.P.H.
Emergency Medical Services

Community Health Statistics Unit
County of San Diego, Health and Human Services Agency, Public Health Services

ME Data: Why

- Great for getting an idea of non-natural causes of death
- Prevent injuries
- Promote and encourage healthy behaviors and good mental health
- Assure the quality and accessibility of health services

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ME Data: Who & What

- Non natural deaths
- Sudden deaths
- Deaths not certified by physician
- Demographics
- Zip code of residence
- Event location
- Cause of death, investigative report, autopsy, toxicology, pathology, medical/surgical history

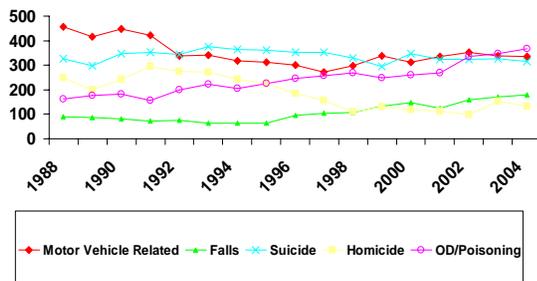
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ME Data: Where & When

- All of San Diego County by zip code of residence
- Ongoing data collection, ~6 months to close case
- Monthly data transfer from ME to EMS
- Annual reports available online as a component of other topic-specific reports (e.g., trauma, suicide)

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ME Data: Cause of Death by Year, 1988 - 2004



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ME Data: Current & Future Uses

- Annual reports online, Trauma & Suicide:
 - <http://www2.sdcounty.ca.gov/hhsa/ServiceDetails.asp?ServiceID=571>
- Prevention & control programs
- Grants

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**Getting to Know Public Health Data Workshop
Database Information:**

Database Name(s):	Medical Examiner Data ME Data
Branch:	Emergency Medical Services (EMS)
Type of Data:	Population
Who is included:	All non-natural and sudden deaths in San Diego County, not certified by physician
Confidentiality/Sensitivity Issues:	Public record, but EMS doesn't release individual information Individual data available through ME office
When: lag time	Monthly reporting of closed cases (up to 6 months to close)
When: years available	1988-2005
Limitations:	Not all deaths included; some cases sealed and not available.
Types of Variables:	Demographics: Age, race/ethnicity, gender, occupation Geography: residence zip code, event location Topic specific variables: cause of death, manner of death, type of examination, toxicology, medical/surgical history.
Sample sentence of Interpretation:	"Among non-natural or sudden deaths investigated by the San Diego County Medical Examiner, ..."
Reports available online?	See Trauma Reports, Suicide Reports http://www2.sdcounty.ca.gov/hhsa/ServiceDetails.asp?ServiceID=571
Index Headings: (primary and secondary)	1: External Causes 2: Chronic disease & disability, substance abuse
Notes:	Data used for other reports (trauma, suicide)

California Outcome Measurement System (CalOMS)

Scott Belfield
Alcohol and Drug Services (ADS)

Community Health Statistics Unit
County of San Diego, Health and Human Services Agency, Public Health Services

CalOMS Data: Why

- Great for getting an idea of
 - Who is using alcohol & drug treatment services
 - Background of drug & alcohol users
- Promote and encourage healthy behaviors and good mental health
- Assure the quality and accessibility of health services

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CalOMS Data: Who & What

- All persons who seek services at San Diego County alcohol and drug treatment facilities
 - public facilities only
- Demographics, zip code of residence,
- Drugs used, age at first use, number of treatments, pregnancy, minors

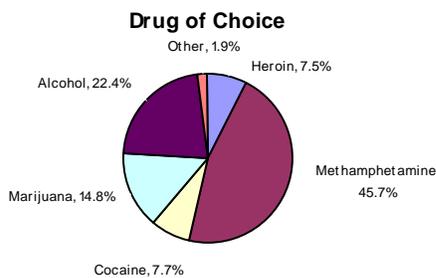
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CalOMS Data: Where & When

- All of San Diego County, by zip code of residence
- Annual reporting, 1 year lag

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CalOMS Data: Client Admissions in 1st 6 months of FY 2005-06 (n=6,533)



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CalOMS Data: Current & Future Uses

- Website:
 - www2.sdcounty.ca.gov/hhsa/ServiceCategoryDetails.asp?ServiceAreaID=15
- Prevention & control programs
- Trends to determine regional priorities

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**Getting to Know Public Health Data Workshop
Database Information:**

Database Name(s):	California Outcome Measurement System (CalOMS)
Branch:	Alcohol and Drug Services (ADS)
Type of Data:	Population, Special Services, Survey, Other
Who is included:	Those admitted into County funded treatment system
Confidentiality/Sensitivity Issues:	
When: lag time	Monthly/annual reporting, approximately 45 days.
When: years available	1995- July 2006
Limitations:	Does not include information from private providers
Types of Variables:	<p>Demographics: Age, race/ethnicity, gender</p> <p>Geography: zip code</p> <p>Topic specific variables: drugs used, age at first use, number of treatments, pregnancy, minors</p>
Sample sentence of Interpretation:	“Among Alcohol and Drug Services Clients admitted during the 1 st six months of FY 2005-06, 45.7% had Methamphetamine as Primary Drug of Choice. (n=6,533) ”
Reports available online?	
Index Headings: (primary and secondary)	1: Substance abuse
Notes:	

**Getting to Know Public Health Data Workshop
Database Information:**

Database Name(s):	County Mental Health Services Data
Branch:	Mental Health Services, QI/OP Unit
Type of Data:	Special Services
Who is included:	Those admitted into County funded treatment system
Confidentiality/Sensitivity Issues:	Yes
When: lag time	Monthly reporting
When: years available	2006
Limitations:	Does not include information from private providers
Types of Variables:	<p>Demographics: Age, race/ethnicity, gender, housing</p> <p>Geography: zip code, homeless</p> <p>Topic specific variables: diagnosis, medication, treatment, functional status</p>
Sample sentence of Interpretation:	“Among County of San Diego, Mental Health Services Clients in 2006, X% had dual diagnosis (Mental Illness and Co-occurring Substance Use Disorders).”
Reports available online?	no
Index Headings: (primary and secondary)	1: Mental Health
Notes:	

HIV Counseling and Testing Data

Lorri Freitas, M.P.H.

HIV/AIDS Epidemiology/ Community Epidemiology

Community Health Statistics Unit

County of San Diego, Health and Human Services Agency, Public Health Services

HIV Counseling and Testing Data: Why?

- To examine the HIV infection rate of high-risk populations in San Diego County
- Track trends over time (1990-2005)
- Look for changes in populations most affected
- Look for changes in mode of transmission
- Examine behaviors of groups with higher infection rates
- In-house use: plan outreach, hours of operation, location of sites for HIV testing
- Used along with other sources of data for HIV prevention and planning activities

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HIV Testing Data: Who & What

- Anyone seeking HIV testing at County or County-contracted test sites
- Demographic: age, gender, race/ethnicity
- Behavioral: sexual orientation, number of sexual partners, gender of partners, sexual behaviors
- Testing: reason for testing, number of prior HIV tests, test type, test result

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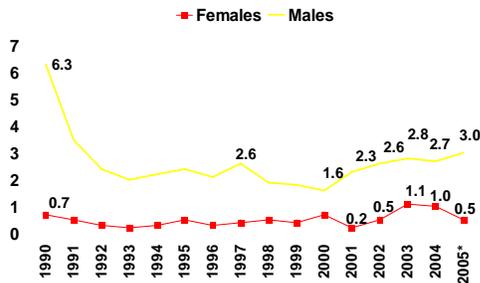
HIV Testing Data: Where & When

- All of San Diego County
- Health Service Regions
- Zip code possible
 - Not reported if less than 5 tests or other confidentiality concerns
- Data lag time ~4-6 months, generally reported annually
- Ongoing data collection
- Reports available online, annually in summer

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HIV Anonymous Testing Rate per 100 Testing HIV Positive by Gender San Diego County, 1990-2005*



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HIV Testing Data: Current & Future Uses

- Annual report online:
 - www.sdhivaids.org
- Prevention & control programs
- Grant applications

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**Getting to Know Public Health Data Workshop
Database Information:**

Database Name(s):	HIV Counseling and Testing Database
Branch:	HIV/AIDS, STDs, Hepatitis Branch
Type of Data:	Self-selected Population, Special Services, Survey, Other
Who is included:	Individuals age 12 and over seeking free HIV testing at County of San Diego test sites
Confidentiality/Sensitivity Issues:	See limitations
When: lag time	Yearly reporting, generally available 4-6 months after the end of the year.
When: years available	1990- 2005
Limitations:	<ul style="list-style-type: none"> • Not representative of the overall San Diego County population getting tested: self-selected population, with sites and outreach that target high-risk populations • Repeat testers in any time period: no identifying information is entered into the database, so each test is not necessarily unique to an individual • Confidentiality may limit data availability and geographic areas available
Types of Variables:	<p>Demographics: age, gender, race/ethnicity, sexual orientation</p> <p>Geography: County, Region, zip code (see limitations)</p> <p>Topic specific variables: test result, test type, number of prior HIV tests, reason for testing, number of sexual partners, gender of sexual partners, sexual behaviors, substance use, STD/Hepatitis history, other risk factors</p>
Sample sentence of Interpretation:	“Among those testing anonymously at County sites, males have higher HIV infection rates than females.”
Reports available online?	www.sdhiv aids.org
Index Headings: (primary and secondary)	1: HIV/AIDS
Notes:	

HIV/AIDS Reporting System Data

Samantha Tweeten, Ph.D., M.P.H.
 HIV/AIDS Epidemiology/ Community Epidemiology

Community Health Statistics Unit
 County of San Diego, Health and Human Services Agency, Public Health Services

HIV/AIDS Data: Why

- Provide information for planning/decision making
 - Direct care, prevention programs, other assistance programs
 - Increases in some groups may help target prevention efforts
- Provide data to the State Office of AIDS
 - Impacts federal funding
 - Data (anonymized) sent to CDC

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HIV/AIDS Data: Who & What

- Any San Diego County resident diagnosed in San Diego County. San Diego County residents diagnosed elsewhere may be included
 - All HIV cases reported after 4/17/06
 - All AIDS cases reported after 1981
- Demographic
- Risk group/Patient history
- Laboratory data
- Opportunistic infection data

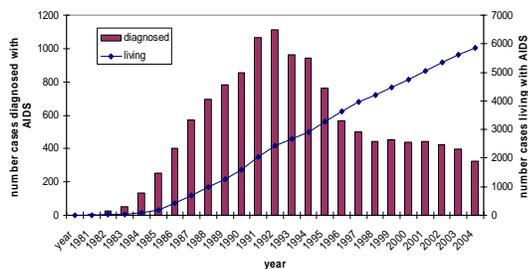
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HIV/AIDS Data: Where & When

- County, Region, possibly zip code
- Ongoing data collection
- Reports available online
 - Annual Report
 - Subpopulation Reports (i.e. women, Blacks etc)

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HIV/AIDS Data: Example Living and Diagnosed AIDS Cases



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HIV/AIDS Data: Current & Future Uses

- Annual report online:
 - www.sdhivaid.org
- Prevention & control programs
- Grant applications

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**Getting to Know Public Health Data Workshop
Database Information:**

Database Name(s):	HIV/AIDS Reporting System Database (HARS)
Branch:	Community Epidemiology
Type of Data:	Registry, disease specific
Who is included:	All HIV and AIDS cases diagnosed and reported in San Diego County
Confidentiality/Sensitivity Issues:	See limitations
When: lag time	Monthly and yearly reporting
When: years available	1981 to present, AIDS cases April 2006 to present, HIV cases
Limitations:	Confidentiality may limit data availability and geographic areas available. Changes in HIV reporting may result in substantial delay in data availability.
Types of Variables:	Demographics: Age, race/ethnicity, gender, country of origin Geography: County, Region, zip code (see limitations) Topic specific variables: Transmission risk, reported opportunistic infections, diagnostic basis, laboratory data
Sample sentence of Interpretation:	“Among AIDS cases, injecting drug users are more likely to be diagnosed in a correctional facility than non-IDU, even when controlling for race.”
Reports available online?	Annual report, subpopulation (specific demographic groups) reports at: www.sdhiv aids.org
Index Headings: (primary and secondary)	1: HIV/AIDS
Notes:	

Sexually Transmitted Diseases

Marjorie Lee, M.P.H.
HIV/STD/Hepatitis Branch

Community Health Statistics Unit
County of San Diego, Health and Human Services Agency, Public Health Services

Sexually Transmitted Disease (STD) Data: Why

- Determine the incidence and distribution of reportable STDs in San Diego County
- Examine STD incidence by area, gender, age, and race/ethnicity
- Detect outbreaks and clusters
- Direct intervention efforts
- Plan for STD health services
- Promote and encourage safe and healthy behaviors
- Assure the quality and accessibility of health services

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STD Data: Who & What

- All reported cases of syphilis, gonorrhea and chlamydia from providers and laboratories in San Diego County
- Number of cases
- Demographics: Age, Gender, Race/Ethnicity

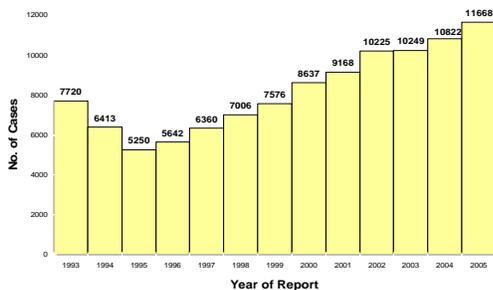
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STD Data: Where & When

- Zip code specific data
 - 30% of cases missing zip code
- Ongoing data collection
- Reports available online, annually in spring

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Chlamydia Total Cases by Year of Report, San Diego County 1993-2005



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STD Data: Current & Future Uses

- Annual Fact Sheet online:
 - <http://www2.sdcounty.ca.gov/hhsa/ServiceCategoryDetails.asp?ServiceAreaID=105>
- Prevention & control programs
 - Focus interventions based on data
 - Example: Location of STD clinics
- Other
 - Sampling to get more information on Gonorrhea
 - Improve reporting

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**Getting to Know Public Health Data Workshop
Database Information:**

Database Name(s):	STDs: Syphilis, Gonorrhea, Chlamydia
Branch:	HIV, STD, Hepatitis
Type of Data:	Population
Who is included:	Mandatory reported patients with syphilis, gonorrhea, chlamydia, diagnosed in San Diego County from providers and laboratories.
Confidentiality/Sensitivity Issues:	Reported by name, but not released to public.
When: lag time	Data collection ongoing, annual reports online in spring
When: years available	1986 – 2005 chlamydia, gonorrhea 1992 – 2005 syphilis
Limitations:	Incomplete zip code and race/ethnicity for gonorrhea and chlamydia
Types of Variables:	Demographics: age, race/ethnicity, gender Geography: zip code Topic specific variables: number of cases
Sample sentence of Interpretation:	“Among reported cases of STDs in San Diego County, the incidence of syphilis, gonorrhea, and chlamydia has increased during each of the last 3 years, especially among men who have sex with men.”
Reports available online?	STDs: http://www2.sdcounty.ca.gov/hhsa/ServiceCategoryDetails.asp?ServiceAreaID=10
Index Headings: (primary and secondary)	1: Infectious Diseases- STDs
Notes:	for Hepatitis, see Hepatitis Database. for HIV/AIDS, see HIV/AIDS Reporting System or HIV Confidential Testing databases.

Reportable Infectious Disease Data

Deirdre Browner, M.P.H.
Community Epidemiology

Community Health Statistics Unit
County of San Diego, Health and Human Services Agency, Public Health Services

Reportable Disease Data: Why

- Prevent or limit communicable disease outbreaks with early event notification
- Calculate the incidence and prevalence of communicable diseases for San Diego County
- Advise the public on general measures to prevent communicable disease

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Reportable Disease Data: Who & What

- Any individual who has been diagnosed with a reportable infectious disease in San Diego County and whose healthcare provider submitted a Confidential Morbidity Report (CMR) to Public Health
- Name, Age, Gender, Race/Ethnicity, Disease, Date of Diagnosis, Lab test results

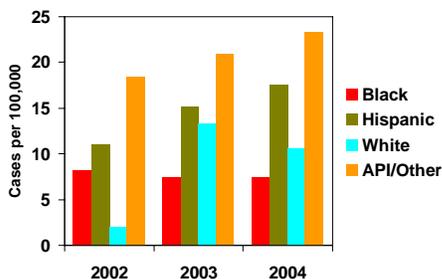
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Reportable Disease Data: Where & When

- All of San Diego County, by
 - Zip code
- Data are submitted as the case is diagnosed
- Reports available online, annually in spring

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Reportable Disease Data: San Diego County Incidence of Salmonellosis per 100,000 Population, by Race/Ethnicity, 2002-04



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Reportable Disease Data: Current & Future Uses

- Annual tables and reports online:
 - www.sdepi.org
- Targeted education programs for institutions
- General education for the public
- Collaborate with state and federal officials on changes in existing regulations

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**Getting to Know Public Health Data Workshop
Database Information:**

Database Name(s):	Reportable Diseases
Branch:	Community Epidemiology
Type of Data:	Population based; Individual reports of disease occurrence
Who is included:	Anyone diagnosed in San Diego County with any legally reportable disease whose healthcare provider (or testing laboratory) submits a Confidential Morbidity Report to Public Health.
Confidentiality/Sensitivity Issues:	Highly confidential, contains names, addresses etc. Reports provide aggregate data.
When: lag time	- Reporting time required varies by disease (i.e. immediate to within 7 calendar days of diagnosis) -Time from event report to data availability is less than one day (other than on weekends and holidays).
When: years available	Limited data are available from 1987 to 1992. Full dataset available from 1993 to present.
Limitations:	The true incidence of the selected communicable diseases is much greater than the number of reports received by Public Health would suggest. Individuals must be sick enough to visit a healthcare provider and that provider must then submit a report for the data to be included in the database.
Types of Variables:	Demographics: Age, race/ethnicity, gender Geography: Census tract when address is available Topic specific variables: Disease, date of onset, date of diagnosis, lab test results.
Sample sentence of Interpretation:	The incidence of diagnosed and reported cases of Hepatitis A in Latinos in San Diego County has fallen from 2000 to 2005.
Reports available online?	http://www2.sdcounty.ca.gov/hhsa/ServiceDetails.asp?ServiceID=147
Index Headings: (primary and secondary)	1: Infectious diseases, Poisoning (i.e. marine toxins, foodborne toxins)
Notes:	Data are kept annually by date of report to the state Surveillance and Statistics Section in the Infectious Diseases Branch. Noninfectious reportable diseases and conditions are reported on CMR, but not maintained by HHS in this dataset.

Tuberculosis Case Database

Marisa Moore, M.D., M.P.H.
Tuberculosis Control

Community Health Statistics Unit
County of San Diego, Health and Human Services Agency, Public Health Services

Tuberculosis (TB) Data: Why

- Describe the annual incidence of TB
- Monitor success of prevention and control efforts
- Identify risk groups for targeting prevention efforts

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TB Data: Who & What

- New confirmed cases of TB in San Diego County
- Basic demographics
- Clinical presentation and drug resistance
- Risk factors (e.g., drug use, homelessness)
- Treatment outcome

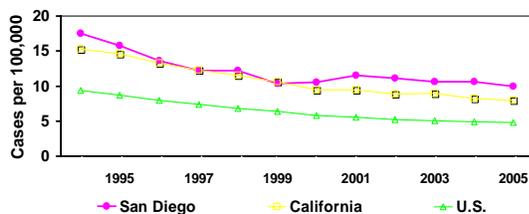
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TB Data: Where & When

- San Diego County
 - City
 - Zip code
- 1993 - present
- Fact Sheet, trend tables, and annual report online, available spring following year

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TB Case Rates* in San Diego County, California, and the U.S., 1994-2005



*Cases per 100,000.
2005 state and national data: provisional.

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TB Data: Current & Future Uses

- Fact sheet, trend tables, annual report online:
 - www.sandiegotbcontrol.org
- Evaluate success of control efforts
- Target and evaluate prevention efforts

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**Getting to Know Public Health Data Workshop
Database Information:**

Database Name(s):	TB Case Database
Branch:	Tuberculosis (TB)
Type of Data:	Population
Who is included:	All new confirmed cases of active TB in San Diego County (may include residents or nonresidents).
Confidentiality/Sensitivity Issues:	Confidential individual case reports
When: lag time	Data collection ongoing, annual and recent trend statistics published online in spring following each calendar year
When: years available	1993-2006
Limitations:	<ul style="list-style-type: none"> - Interpreting incidence at levels smaller than the county limited by small numbers and the mobility of population - Doesn't include all cases of TB (i.e. suspected, undiagnosed or unreported are not included)
Types of Variables:	<p>Demographics: age, race/ethnicity, gender, country of origin</p> <p>Geography: city, zip code</p> <p>Topic specific variables: clinical presentation and drug resistance, risk factors (e.g., HIV status, drug use, homelessness), treatment outcome</p>
Sample sentence of Interpretation:	"Among persons reported with TB in San Diego County in 2005, more than half were Hispanic."
Reports available online?	<p>Website: www.sandiegotbcontrol.org</p> <p>Reports: http://www2.sdcounty.ca.gov/hhsa/ServiceDetails.asp?ServiceID=76</p>
Index Headings: (primary and secondary)	1: Infectious diseases - TB
Notes:	

Childhood Lead Poisoning Prevention Program (CLPPP) Lead Data

Lacey Hicks, M.P.H.
Community Epidemiology

Community Health Statistics Unit
County of San Diego, Health and Human Services Agency, Public Health Services

Lead Data: Why

- Great for getting an idea of how many San Diego County children are tested for lead and of these, how many are lead poisoned
- Find out which healthcare providers are ordering lead tests
- Explore possible sources of lead poisoning

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Lead Data: Who & What

- San Diego County children under 21 years of age who have been tested for blood lead levels
- Child demographics, blood lead levels, sample types, healthcare provider, possible sources of exposure (for managed cases)

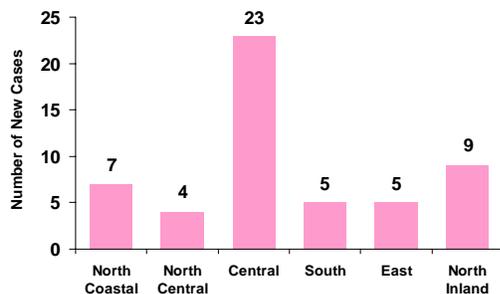
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Lead Data: Where & When

- San Diego County, by
 - Patient address
 - Zip code
- Reports available on request
- Ongoing data collection by CLPPP
 - By California law, all laboratories are required to submit lead results to the State Childhood Lead Poisoning Prevention Branch, who distributes the data to local lead programs

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Number of New San Diego County Lead Cases (BLL 14.5 ug/dL and Above), by HHS Region, 2005



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Lead Data: Current & Future Uses

- Online:
 - <http://www2.sdcountry.ca.gov/hhsa/ServiceDetails.asp?ServiceID=147>
- Biannual report to State
- Prevention & control programs

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**Getting to Know Public Health Data Workshop
Database Information:**

Database Name(s):	Childhood Lead Poisoning Prevention Program (CLPPP) Lead Data
Branch:	Community Epidemiology
Type of Data:	Special Services
Who is included:	Any child under the age of 21 years tested for lead in San Diego County
Confidentiality/Sensitivity Issues:	identifying information is not released
When: lag time	3 - 6 months
When: years available	1992 – current
Limitations:	All children in San Diego County are not routinely tested for lead.
Types of Variables:	<p>Demographics: Age, race/ethnicity, gender</p> <p>Geography: zip code</p> <p>Topic specific variables: Blood lead levels, lead exposures</p>
Sample sentence of Interpretation:	In 2005, among children under 21 years of age in San Diego County who were tested for lead, 88.5% showed results within normal limits (0 – 4.4 ug/dL).
Reports available online?	http://www.dhs.ca.gov/childlead/ California Childhood Lead Poisoning Prevention Branch (CLPPB)
Index Headings: (primary and secondary)	1: Poisoning, Chronic disease & disability– lead
Notes:	

Immunization Data

Wendy Wang, M.P.H.
Immunization

Community Health Statistics Unit
County of San Diego, Health and Human Services Agency, Public Health Services

Immunization Data: Why

- Great for getting an idea of who has vaccine preventable diseases (e.g. pertussis) and immunization coverage rates across life span
- Prevent epidemics and the spread of disease
- Promote and encourage vaccinations among both providers and communities
- Assure the quality and accessibility of health services
- Reinforce the California school entrance law

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Immunization Data: Who & What

- Who depends upon dataset and may include:
 - Cases (reportable, vaccine preventable diseases)
 - Sample of San Diego residents
 - Clients received immunization services at PHCs, CHCs and private practices cross County
 - Sample of Kindergarteners
- Demographics
- Disease histories
- Vaccine histories
- Vaccine attitudes

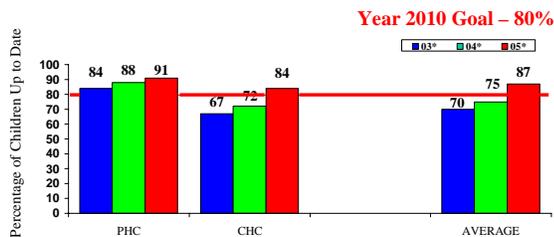
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Immunization Data: Where & When

- Most data available at county level
- Ethnicities data available
- Annual reports, depending on survey schedule

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San Diego County Public Clinic Coverage 4DTP, 3Polio, 1MMR, 3HIB, 3HBV and 1VAR (4:3:1:3:3:1) at 24 Months



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Immunization Data: Current & Future Uses

- Online:
 - <http://www.immunization-sd.org/eng/data-statistics.html>
- Collaborate with Regional HHSA staff to explore regional specific information

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**Getting to know Public Health Data Workshop
Database Information:**

Database Name(s):	Public and Private Practices Immunization Rates
Branch:	Immunizations
Type of Data:	Assessment, Special Services Data
Who is included:	Children 2-3 years old who have immunizations at public clinics or private offices
Confidentiality/Sensitivity Issues:	Yes
When: lag time	Depends upon assessment schedule
When: years available	1993-2006 for Public providers 1996-2006 for Private providers
Limitations:	County level
Types of Variables:	Demographics: age Geography: county, limited regional Topic specific variables: vaccines
Sample sentence of Interpretation:	“Among clients who received services at San Diego County Public Clinics, over 86% received recommended childhood vaccines”
Reports available online?	No
Index Headings: (primary and secondary)	1: Prevention
Notes:	

**See Immunization Databases
page 43**

**Getting to know Public Health Data Workshop
Database Information:**

Database Name(s):	Random Digit Dialing Telephone Surveys
Branch:	Immunizations
Type of Data:	Survey
Who is included:	Infant, child, adolescent, adult, senior, health care workers
Confidentiality/Sensitivity Issues:	Yes
When: lag time	Depends upon survey schedule
When: years available	1995-2006 Varied depending on the age cohorts
Limitations:	County level Ethnicity is limited
Types of Variables:	Demographics: age, race/ethnicity, gender, zip code, education levels Geography: county, limited regional Topic specific variables: vaccines
Sample sentence of Interpretation:	“Among San Diego seniors ages 65 and over who were surveyed, only 76% received flu vaccines”
Reports available online?	http://www.immunization-sd.org/eng/data-statistics.html
Index Headings: (primary and secondary)	1: Prevention
Notes:	

**See Immunization Databases
page 43**

**Getting to know Public Health Data Workshop
Database Information:**

Database Name(s):	Kindergarten Retrospective Study
Branch:	Immunizations
Type of Data:	Assessment, Special Services and school Data
Who is included:	Kindergartners
Confidentiality/Sensitivity Issues:	Yes
When: lag time	Released in Fall
When: years available	1996-2006
Limitations:	County level Ethnicities limited to White, Hispanic, Black and Other
Types of Variables:	Demographics: age, ethnicity, zip code Geography: county, limited regional Topic specific variables: vaccines
Sample sentence of Interpretation:	“Among San Diego kindergartners, over 80% received recommended childhood vaccines at the age of two.”
Reports available online?	No
Index Headings: (primary and secondary)	1: Prevention
Notes:	

**See Immunization Databases
page 43**

**Getting to know Public Health Data Workshop
Database Information:**

Database Name(s):	Vaccine Preventable Disease Case Report
Branch:	Immunizations
Type of Data:	Case Report of reported vaccine preventable diseases
Who is included:	Cases of reported vaccine preventable diseases
Confidentiality/Sensitivity Issues:	Yes
When: lag time	Release in the following Spring
When: years available	1990-2006
Limitations:	County level Ethnicities limited
Types of Variables:	Demographics: age, ethnicity, zip code, gender Geography: county, limited regional Topic specific variables: vaccines
Sample sentence of Interpretation:	"In 2005, there were total of 371 pertussis cases reported in San Diego County."
Reports available online?	http://www.immunization-sd.org/eng/data-statistics.html
Index Headings: (primary and secondary)	1: Infectious Disease
Notes:	

California Health Interview Survey (CHIS) Data

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Community Epidemiology

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County of San Diego, Health and Human Services Agency, Public Health Services

CHIS Data: Why

- Useful for determining what population groups have chronic diseases/conditions, health behaviors, health care access/use
- Promote and encourage healthy lifestyles and behaviors
- Assist community organizations in designing targeted interventions for high-risk populations

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CHIS Data: Who & What

- The survey estimates percentages of the population affected for the entire County
- Demographics, housing, employment
- Behaviors: diet, exercise, access/use of health care, health screenings
- Status: height, weight, chronic disease, general health

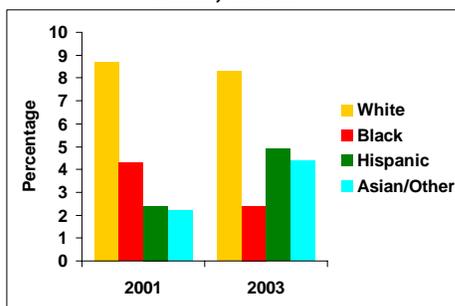
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CHIS Data: Where & When

- County level data for 2001 and 2003
- HHSA Region level data starting in 2005
- Biannual survey
- Some reports available online at CHIS website

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Percentage Of Adults Who Were *Ever* Diagnosed With Heart Disease 2001 And 2003, CHIS



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CHIS Data: Current & Future Uses

- Annual report online:
 - <http://www.healthpolicy.ucla.edu/pubs/pubList.asp>
- Programs targeting high risk populations
- An oversample of San Diego County in 2005 will provide HHSA regional level data

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**Getting to Know Public Health Data Workshop
Database Information:**

Database Name(s):	California Health Interview Survey (CHIS)
Branch:	Community Epidemiology
Type of Data:	Targeted Sample Survey
Who is included:	All county residents (data is also available for California and other local jurisdictions)
Confidentiality/Sensitivity Issues:	-Confidential survey -Public data available online
When: lag time	Biannual survey, data 1 year lag Reports, 18 month lag
When: years available	2001-2005
Limitations:	-Estimates for very small subgroups (i.e. Guamanian females) cannot be calculated because statistical formulas are not valid with very small numbers. -Estimates for regional level data may not be available because statistical formulas are not valid for small numbers.
Types of Variables:	Demographics: Age, race/ethnicity, gender Geography: County level, 2005 survey has some regional level data (HSA health regions) Topic specific variables: health status, diseases, health-related behavior
Sample sentence of Interpretation:	Among African-American women in San Diego County eligible for mammograms, the number who received mammograms within the prior two years rose between 2001 and 2003.
Reports available online?	http://www.healthpolicy.ucla.edu/pubs/pubList.asp
Index Headings: (primary and secondary)	1: Chronic Disease (diabetes, heart disease, cancer); Screening tests 2: Risk factors, Health Insurance, Health-Related Behaviors
Notes:	

Youth Risk Behavior Survey (YRBS) Data

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Community Epidemiology

Community Health Statistics Unit
County of San Diego, Health and Human Services Agency, Public Health Services

YRBS Data: Why

The YRBS questionnaire was developed to:

- Determine the prevalence of behaviors that put teens at risk for disease, injury and death
- Assess whether health risk behaviors change over time
- Examine the co-occurrence of health risk behaviors
- Provide comparable data among subpopulations of youth
- Provide comparable national, state, and local data
- Monitor progress toward achieving the Healthy People 2010 objectives and other program objectives

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YRBS Local Data: Who & What

- Sample of 9th through 12th grade students
- Voluntary & anonymous
- Parental permission required
- i.e. 2005: 1,695 students in 33 public high schools in San Diego Unified School District
- Behaviors:
 - Resulting in intentional and unintentional injuries
 - Alcohol and other drug use
 - Tobacco use
 - Sexual behaviors that result in HIV infection, other sexually transmitted diseases, and unintended pregnancies
 - Dietary behaviors
 - Physical activity

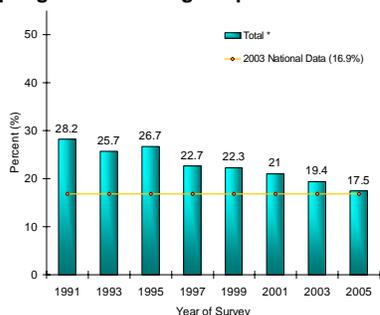
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YRBS Data: Where & When

- San Diego City Schools
- No geographic identifiers (i.e. no school name)
- The surveys are conducted every 2 years, usually during the spring time, since 1991
- Local data are usually available during fall
- Local reports are usually available during winter

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Suicide Ideation and Attempts
San Diego Youth Risk Behavior Survey, 1991-2005
Percentage of students who seriously considered attempting suicide during the past 12 months, by year



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YRBS Data: Current & Future Uses

- Based on the data, the school district determines program direction, needed policy and student intervention
- Local YRBS data provides a self-reported health report card for high school students
- The district is able to track the effectiveness of current interventions
- The district is able to view trends from year-to-year and address issues of concern
- Reports can be obtained by contacting San Diego City Schools Physical Education Health and Athletics Department, (619) 725-7126, or online at <http://www.sandi.net>

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**Getting to Know Public Health Data Workshop
Database Information:**

Database Name(s):	Youth Risk Behavior Survey (YRBS)
Branch:	Community Epidemiology
Type of Data:	Survey
Who is included:	9 th through 12 th grade students in public schools, San Diego Unified School District
Confidentiality/Sensitivity Issues:	Participation is anonymous and voluntary
When: lag time	6 to 9 months Surveys are usually conducted during the spring time Summary results are often available during fall Summary reports are often available during winter
When: years available	Surveys are conducted every 2 years SD City Schools have participated in the YRBS since 1991 The survey was last administered in 2005
Limitations:	
Types of Variables:	Demographics: Age, race/ethnicity, gender Geography: Schools are not identified by location Topic-specific Variables: alcohol, tobacco, and other drug use; nutrition; intentional and unintentional injuries; physical exercise, and sexual behavior.
Sample sentence of Interpretation:	Among respondents, 40.5% of San Diego City public school students attended physical education (PE) class daily in an average week when they were in school.
Reports available online	http://www.sandi.net
Index Headings: (primary and secondary)	1: Risk Factors: obesity, smoking, physical activity
Notes:	

Database Index by Topic Category

Primary data sources in **bold**

1. External Causes – 16, 18, 20, 22, 24, 26
 - a. Accidents (burns, falls) – 18, 20, 22
 - b. Intentional (self harming, suicide, assault, homicide) – 4, 20-26
 - c. Poisoning – 20-26, 40, 42
 - d. Traffic injury – 4, **6**, 18-26

2. Infectious Disease– 16, 20, 24, 36, 38, 42, 44, 46, 48, 50
 - a. HIV/AIDS – **32, 34**
 - b. Tuberculosis (TB) – **38**
 - c. Sexually Transmitted Diseases – **36**
 - d. Hepatitis – **42**

3. Chronic Disease & Disability – 16, 18, 20, 22, 24, 26, 40, 52
 - a. Diabetes – 16, 18, 20, 24, 52
 - b. Asthma – 16, 18, 20, 24, 52
 - c. Cancer – 16, 24, 52
 - d. Heart Disease & Stroke – 16, 18, 20, 24, 52
 - e. Lead – **40**

4. Risk Factors – 20, **52, 54**
 - a. Obesity – 20, 52, 54
 - b. High blood pressure – 20, 52
 - c. Smoking – 52, 54
 - d. Physical activity – 52, 54
 - e. SES factors (income, education) – **2**, 52

5. Behavioral Health Issues – 6, 18, 20, 28, 30, 52, 54
 - a. Mental Health – 20, **30**
 - b. Substance Abuse – 4, 20, 26, **28**

6. Medical Care – 8, 18, 20, 22, 24, 44, 46, 48, 50
 - a. Screening – **52**
 - b. Prevention – 44, 46, 48, 50
 - c. Ambulance & Pre-hospital – **18**
 - d. Emergency Department – **20**
 - e. Hospitalization – **22, 24**

7. Vital Records – 8, 10, 12, 14, 16
 - a. Birth – **8**, 14
 - b. Death – 10, 12, 14, **16**

8. Population demographics – **2**

Database Index, Alphabetical by Topic

Primary data sources in **bold**

Accidents (burns, falls) – 18, 20, 22
Ambulance & Pre-hospital – **18**
Asthma – 16, 18, 20, 24, 52
Behavioral Health Issues – 6, 18, 20, 28, 30, 52, 54
Birth – **8**, 14
Cancer – 16, 24, 52
Chronic Disease & Disability – 16, 18, 20, 22, 24, 26, 40, 52
Death – 10, 12, 14, **16**
Diabetes – 16, 18, 20, 24, 52
Emergency Department – **20**
External Causes – 16, 18, 20, 22, 24, 26
Heart Disease & Stroke – 16, 18, 20, 24, 52
Hepatitis – **42**
High blood pressure – 20, 52
HIV/AIDS – **32, 34**
Hospitalization – **22, 24**
Infectious Disease– 16, 20, 24, 36, 38, 42, 44, 46, 48, 50
Intentional (self harming, suicide, assault, homicide) – 4, 20-26
Lead – **40**
Medical Care – 8, 18, 20, 22, 24, 44, 46, 48, 50
Mental Health – 20, **30**
Obesity – 20, 52, 54
Physical activity – 52, 54
Poisoning – 20-26, 40, 42
Population demographics – **2**
Prevention – 44, 46, 48, 50
Risk Factors – 20, **52, 54**
Screening – **52**
SES factors (income, education) – **2**, 52
Sexually Transmitted Diseases – **36**
Smoking – 52, 54
Substance Abuse – 4, 20, 26, **28**
Traffic injury – 4, **6**, 18-26
Tuberculosis (TB) – **38**
Vital Records – 8, 10, 12, 14, 16