



County of San Diego

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EPINEPHRINE 1:10,000 1 MG/10 ML (0.1 MG/ML) PRE-FILLED SYRINGE SHORTAGE – ADDITIONAL GUIDANCE FOR EMS PERSONNEL

The San Diego County EMS Office is aware that epinephrine 1:10,000 1 mg/10 mL (0.1 mg/mL) pre-filled syringes are in limited supply and may be difficult to obtain. This epinephrine shortage appears to be escalating.

After consultation with medical advisors, the San Diego County EMS Medical Director authorizes a change in the methods to prepare epinephrine for hypotensive patient treatment. This update removes a prior restriction as outlined in the [February 28](#) and [March 29, 2022](#) memos regarding push-dose epinephrine dilution.

The following additional modifications to current policy and practice are authorized. These changes are effective immediately and remain in place until July 31, 2022, with the possibility for extension, as needed:

- Dilution of epinephrine 1:1,000 1 mg/1 mL to create epinephrine 1:100,000 push-dose epinephrine for hypotensive patients **is authorized**
- Paramedic personnel creating a push-dose epinephrine 1:100,000 solution shall:
 - Draw up one 1 mg/1 mL of epinephrine from an epinephrine 1:1,000 1 mg/1 mL vial into a 1 mL (or 3 mL) syringe
 - Inject 1 mL of epinephrine to an unspiked 100 mL normal saline bag
 - Immediately label or mark the bag as epinephrine
 - Withdraw 10 mL of the resulting 100 mL solution into a syringe
 - Administer the solution as listed in protocol:
 - Push-dose epinephrine 1:100,000 (0.01 mg/mL) 1 mL IV/IO BHO, MR q3 min, titrate to SBP ≥90 mmHg BHO

Thank you for your assistance in continuing to provide outstanding care to our patients.

Sincerely,

Kristi L. Koenig, MD, FACEP, FIFEM, FAEMS, Medical Director
San Diego County Emergency Medical Services Office
San Diego County Fire

cc: Andrew Parr, EMS Administrator