

# Solano County Health & Social Services Department

Mental Health Services  
Public Health Services  
Substance Abuse Services  
Older & Disabled Adult Services



Eligibility Services  
Employment Services  
Children's Services  
Administrative Services

Gerald Huber, Director

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## EMERGENCY MEDICAL SERVICES AGENCY

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EMS Agency Medical Director

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Ted Selby  
EMS Agency Administrator

Date: February 16, 2016

To: Advanced Life Support (ALS) Providers

From: Aaron Bair, MD, MS, EMS Agency Medical Director

Subject: Epinephrine 1:10,000 Concentration

The Solano County Emergency Medical Services (EMS) Agency is aware of the national and local shortage of Epinephrine 1:10,000 concentration. The EMS Agency and Physician's Forum has developed a short term solution to this issue: dilution of Epinephrine 1:1000 concentration. Once the Epinephrine is diluted it can be used in the same protocols as Epinephrine 1:10,000.

In order to dilute Epinephrine 1:1000 it must be preservative free. In general the ampules are preservative free. Multi-dose vials of Epinephrine are not preservative free and should not be used for the dilution procedure.

The procedure for dilution of Epinephrine 1:1000 is described below.

1. Ensure the Epinephrine 1:1000 is preservative free;
2. Draw 1ml of Epinephrine 1:1000 into a 10 ml syringe;
3. Using the same 10 ml syringe, draw 9 ml of preservative free normal saline and agitate the solution;
4. The solution in the 10 ml syringe contains 1 mg of Epinephrine 1:10,000.

Sincerely,

  
Aaron Bair, MD, MS  
EMS Agency Medical Director