



NUMBERED NOTICE

Number: **19-02**

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From: Dr. M Riccardo Colella, Medical Director

Section: EMS Division

To: All EMS Providers

Subject: Supply shortage for epinephrine 1mg/10ml (0.1 mg/ml) formerly known as EPI 1:10,000

Purpose: Directive to provide guidance for epinephrine administration for sudden cardiac arrest during supply shortages

The epinephrine 10 ml (0.1 mg/ml) Luer-Jet Prefilled Syringe supply is in severe shortage and we must prepare for alternatives. Please follow these evidence-based step-wise guidelines:

1. Adjust dosing frequency to administer epinephrine every 5 minutes instead of every 3 to 5 minutes for sudden cardiac arrest.
2. Use expired epinephrine as outlined by the FDA based on lot numbers of existing supply if available; your designated EMS officer will provide communication and supply of expired epinephrine available for use.
3. Dilution of epinephrine 1mg/ml (either ampule or multi-use vial) to yield a final concentration of 0.1mg/ml (formerly known as EPI 1:10,000) per options below:
 - a. From a 1 ml glass ampule of 1mg/ml epinephrine:
 - i. Draw 1 ml of the epinephrine into an empty 10 ml syringe using a filtered needle.
 - ii. Next draw 9 ml NS into the above 10 ml syringe.
 - iii. Gently shake to mix.
 - iv. Administer 10 ml (1 mg) for adult dose or the appropriate volume for weight-based pediatric dose.
 - b. From a multi-dose vial of 1mg/ml of epinephrine:
 - i. Draw 1 ml of the epinephrine into an empty 10 ml syringe using a filtered needle.
 - ii. Next draw 9 ml NS into the above 10 ml syringe.
 - iii. Gently shake to mix.
 - iv. Administer 10 ml (1 mg) for adult dose or the appropriate volume for weight-based pediatric dose.

Dilution of epinephrine is for POINT OF CARE USE ONLY. Do not pre-mix as part of stock for daily readiness. Mixing should only occur at time of use and any remaining drug should be disposed.

As always, the use of the medication cross check will help mitigate error per operational policy.