



PLEASE POST

New Protocol, Policy, and Drug Formulary

September 28, 2017

To All SLO County MICNs, EMS Providers and Training Institutions:

The addition of **Dextrose 10% in 250 mL bag** (D10) has been approved for the use in an unstable altered mental status patient with a blood glucose level of < 60mg/dL. The addition of D10 in a 250mL bag shall be phased in over the next few months, replacing Dextrose 50% (D50) as it is used or expires. D10 in a 250mL bag shall be the preferred concentration and ALS provider agencies will no longer be required to carry D50.

The following policies, protocols, and drug formulary changes shall become effective **November 15, 2017**.

This change came about upon a notification of a drug shortage of Dextrose 50% (D50) prompting a review of current literature, and best practices of other California EMS Agencies. The literature review noted pre-hospital administration of D10 demonstrated no significant difference in time of recovery to maximum consciousness, and provided for a more stable blood glucose level post administration. Current practice in EMS Agencies throughout California revealed D10 as the more commonly used concentration in the pre-hospital setting.

Research reference:

- Dextrose 10% or 50% in the Treatment of Hypoglycemia Out of Hospital? ,Emergency Medicine Journal 2005;22:512-515 : Moore and Woodlard
- Dextrose 10% in the Treatment of Out-of-Hospital Hypoglycemia. Prehospital and Disaster Medicine. Vol. 29 No. 2 (November 2013): Kiefer, Hern, Harrison, Alter and Barger It is the responsibility of ED Mangers and EMS Providers to ensure that all appropriate personnel receive this information.

If you have questions, please contact Kathy Collins at 805-788-2514 or kcollins@co.slo.ca.us.

Highlights of policy changes or additions are included here. The full text of each policy is posted on our website at www.sloemsa.org.

NEW TREATMENT GUIDELINES

Protocol #	Protocol #	Addition
612	Altered Mental Status Unstable with blood glucose < 60mg/dL	Adult: Dextrose 10% (250mL bag) <ul style="list-style-type: none"> • 150 mL IV rapid infusion • Recheck blood glucose level after 5min • If BG <60mg/dL - repeat 100 mL IV bolus Pediatric: Dextrose 10% (250 mL bag) – <ul style="list-style-type: none"> • 0.5 Gm/kg (5 mL/Kg) IV not to exceed 150 mL • A syringe may be utilized to administer small volumes < 50 mL • Recheck blood glucose level after 5min • If BG <60mg/dL - repeat 0.5 Gm/kg (5 mL/Kg) IV- not to exceed 100 mL

DRUG FORMULARY ADDITIONS

Drug	Summary
Dextrose 10% in 250 mL bag	Adult: 150 mL rapid IV Repeat blood glucose in 5 min If blood glucose < 60 mg/dL repeat 100 mL IV Pediatric (< 34 KG) 0.5 gm/kg (5 mL/kg) IV not to exceed 150 mL Repeat blood glucose in 5 min If blood glucose < 60 mg/dL repeat 0.5 gm/kg (5 mL/kg) IV not to exceed 100mL Notes: Dextrose 10% may be administered via IV drip tubing at an open (rapid) rate Administration with a syringe may be utilized for small volumes of less than 50 mL

OPERATIONAL POLICY UPDATES

Policy #	Policy	Revision
205	EMS Equipment and Supply List	Dextrose 10% in 250ml bag – quantity (2) for ALS transport provider and ALS First Responder (1) for Special Use Medic Dextrose 25% – removed Dextrose 50% – no longer required (left on the list until all units have transitioned)

Attachments:

- Policy # 205 A - EMS Equipment and Supply List
- Protocol # 612 - Altered Metal Status
- Drug Formulary – Dextrose 10%