

GMVEMSC JITSO for Dextrose 10% (D10)

1/11/2025

Due to a reported shortage in Dextrose 10% (D10), this JITSO will allow for the use of Dextrose 50% (D50) and Dextrose 25% (D25). Dextrose 50% and Dextrose 25% (D25) will only be found in GMVEMSC drug bags if the pharmacy cannot stock Dextrose 10%. Drug Bags with D50 or D25 will be clearly marked. When treating the hypoglycemic patient with D50/D25 on hand, the following will apply:

Treatment Algorithm		
<ul style="list-style-type: none"> • No changes at this level 	ENR	
<ul style="list-style-type: none"> • No changes at this level 		EMT
<ul style="list-style-type: none"> • <u>If Hypoglycemic:</u> <ul style="list-style-type: none"> A Administer Dextrose 10% (D10), 250 ml at wide open rate, (250 ml = 25 g of Dextrose) <ul style="list-style-type: none"> A If no D10, administer one 50 ml prefilled syringe of Dextrose 50% (D50) bolus to provide 25 grams of Dextrose. P Administer Dextrose 10% (D10) 5 ml/kg, maximum single dose of 250 ml. <ul style="list-style-type: none"> P If no D10, and patient greater than 25 kg, administer Dextrose 50% (D50) 1 ml/kg P If no D10, and patient at or less than 25 kg, administer Dextrose 25% (D25) 2 ml/kg P If no D25, and patient at or less than 25 kg, administer Dextrose 50% (D50) 1 ml/kg, diluted in equal volume of IV solution P For newborn, Dextrose 10% (D10) 2 ml/kg if BGL is less than 40 mg/dL. <ul style="list-style-type: none"> P If no D10, administer Dextrose 25% (D25) 2 ml/kg, diluted in equal volume of IV solution P Only administer if BGL is less than 40 mg/dL. • Dextrose 10% (D10) may be repeated in ten minutes if blood sugar remains less than 60 mg/dL. <ul style="list-style-type: none"> ○ If no D10, Dextrose 50% (D50) or Dextrose 25% (D25) may be repeated if blood sugar remains less than 60 mg/dL. 		AEMT
<ul style="list-style-type: none"> • No changes at this level 		Paramedic
END OF SECTION		

The 2025 GMVEMSC Protocol will add drug formularies for both Dextrose 50% and Dextrose 25% and on June 1, 2025 will replace this JITSO.



Subject: Dextrose 25% (D25) (JITSO)

Effective: Jan. 11, 2025

Last Modified: Jan. 11, 2025

EMR	EMT	AEMT	Paramedic
Packaging	<ul style="list-style-type: none"> 10 ml prefilled syringe of Dextrose 25%, contains 2.5 g Dextrose 1 in drug bag in the absence of Dextrose 10% 		
Indications	<ul style="list-style-type: none"> Diabetic with mental status changes Evidence of hypoglycemia in cardiac arrest Generalized hypothermia with or without arrest Altered level of consciousness of unknown cause Seizures with BGL of less than 60 mg/dl No blood sugar monitor is available or suspicion of hypoglycemia despite glucometer readings. 		
Adult Dosing	<ul style="list-style-type: none"> Not indicated in adult patients 		
Pediatric Dosing	<ul style="list-style-type: none"> For pediatric patients greater than 25 kg, see JITSO Dextrose 50% Pediatric patients at or less than 25 kg: P 2 ml/kg of Dextrose 25% (D25) Newborn patients: P 2 ml/kg of Dextrose 25% (D25) diluted in equal volume of saline solution P Only administer if BGL is less than 40 mg/dl ◆ If no Dextrose 25% (D25) found in the drug bag, contact Medical Control for advice 		
Therapeutic Action	<ul style="list-style-type: none"> Principal form of carbohydrate utilized by the body 		
Contraindications	<ul style="list-style-type: none"> Known or suspected CVA in the absence of hypoglycemia 		
Precautions And Side Effects	<ul style="list-style-type: none"> May precipitate severe neurologic symptoms in thiamine deficient patients <u>Side Effects:</u> <ul style="list-style-type: none"> ○ Warmth ○ Pain ○ Hyperglycemia ○ Burning from medication infusion ○ Thrombophlebitis 		
Medical Control	<ul style="list-style-type: none"> Adults: Not indicated in adult patients Pediatrics: No, unless no Dextrose 25% (D25) found in the drug bag 		
Protocols	<ul style="list-style-type: none"> Medical Protocol 4008 – Diabetic Emergencies - Hypoglycemia Pediatric Considerations 5002 – Newborn Care and Resuscitation 		
END OF SECTION			



Subject: Dextrose 50% (D50) (JITSO)

Effective: Jan. 11, 2025

Last Modified: Jan. 11, 2025

EMR	EMT	AEMT	Paramedic
Packaging	<ul style="list-style-type: none"> 50 ml prefilled syringe of Dextrose 50%, contains 25 g Dextrose 2 in drug bag in the absence of Dextrose 10% 		
Indications	<ul style="list-style-type: none"> Diabetic with mental status changes Evidence of hypoglycemia in cardiac arrest Generalized hypothermia with or without arrest Altered level of consciousness of unknown cause Seizures with BGL of less than 60 mg/dl No blood sugar monitor is available or suspicion of hypoglycemia despite glucometer readings. 		
Adult Dosing	<p>A One 50 ml (25 gm) IVP</p> <ul style="list-style-type: none"> May repeat in 10 minutes if patient fails to respond or BGL remains less than 60 mg/dl. 		
Pediatric Dosing	<ul style="list-style-type: none"> Pediatric patients greater than 25 kg: P 1 ml/kg of Dextrose 50% (D50) For pediatric patients at or less than 25 kg, see JITSO Dextrose 25% or P 1 ml/kg of Dextrose 50% (D50) diluted in equal volume of IV solution (if no D25 present) 		
Therapeutic Action	<ul style="list-style-type: none"> Principal form of carbohydrate utilized by the body 		
Contraindications	<ul style="list-style-type: none"> Known or suspected CVA in the absence of hypoglycemia 		
Precautions And Side Effects	<ul style="list-style-type: none"> May precipitate severe neurologic symptoms in thiamine deficient patients Side Effects: <ul style="list-style-type: none"> Warmth Pain Hyperglycemia Burning from medication infusion Thrombophlebitis 		
Medical Control	<ul style="list-style-type: none"> Adults: No Pediatrics: No 		
Protocols	<ul style="list-style-type: none"> Medical Protocol 4008 – Diabetic Emergencies - Hypoglycemia Pediatric Considerations 5002 – Newborn Care and Resuscitation 		
END OF SECTION			