App		MEDICATION SUBSTITUTION	App
Last Modified:		Academy of Medicine of Cincinnati	2025
2021		Prehospital Care Clinical Practice Guidelines	2025
MEDIC		 For any protocols under the Academy of Medicine protocols that use the following medical equivalent dosages can be substituted as noted below: A. Dextrose 50% (50 ml)Dextrose 10% in 250ml (give 250ml wide open) B. Dextrose 50% (50ml) Dextrose 25% (100ml) C. Epinephrine 0.1 mg/ml (10 ml) Epinephrine 1mg/1ml (take 1 ml and dilute in 9 ml and then give IV push). D. Fentanyl 25-100 micrograms Morphine 2.5-10 mg E. Midazolam 2mg Lorazepam 1 mg IV F. Midazolam 2mg (short acting) Diazepam 8mg (long acting) IV G. Ondansetron 4mg IV/IM - Phenergan 25mg IM (should not be used IV) H. Ondansetron 4mg IV/IM - Ondansetron 4mg ODT PO (Melts under tongue) I. Normal Saline (NS) IV - Lactated Ringer's (LR) IV* See Note B 	
		J. Calcium Gluconate 3g – Calcium Chloride 1g	
	Not	K. Refer to the Hamilton County Fire Chief's website for any emergency substitutions. TES:	
		A. Certain drugs cannot be pushed with certain fluids. If you are using an alternative fluid saline, check compatibility.	d to Normal
		B. Lactated ringers should be used with great care (if at all) in patients with hyperkalemia renal failure, and in conditions in which potassium retention is present. LR should be u great care in patients with metabolic or respiratory alkalosis.	