

HIET is indicated for calcium channel blocker poisoning and other cardiovascular toxins resistant to first-line therapy

HIET is an inotrope & can be used alone or in	<b>Only</b> administered in a critical care setting and in consultation with a Clinical Toxicologist.
combination with standard catecholamine	Preparation
inotropes	- 500 units short-acting insulin in 50 mL normal saline (10 units/mL)
- HIET is NOT a pressor or a chronotrope	- place in a 50mL syringe in a syringe driver
- Bradycardia or peripheral vasodilation with	NB: avoid using fluid bags for long insulin infusions due to absorption of insulin to the plastic
CVS compromise requires standard inotrope Rx	Dose and Administration
Indications	a. 50 mL of 50% glucose as slow IV bolus FOLLOWED BY an initial infusion of 100 mL 10% glucose / hour
Haemodynamic compromise in:	(in children: 2.5 mL/kg of 10% glucose as slow IV bolus FOLLOWED BY infusion 3-5 mL/kg/hour 10% glucose)
- Calcium channel blocker poisoning	- if blood glucose is > 15 mmol/L, a bolus is not required
- Beta Blocker poisoning resistant to fluid and	b. 1 unit/kg IV short-acting insulin bolus FOLLOWED BY 1 unit/kg/hour infusion
epinephrine	- Titrate to effect every 15 min up to 5 units/kg/hour over first hour
- Other poisonings causing refractory shock	- Can be titrated up to a maximum of 10 units / kg / hour as required
Contraindications:	c. Maintain glucose between 5.5 – 11.0 mmol/L (may need higher glucose concentrations via CVC)
- None	d. Maintain K+between 2.8 – 3.3 mmol/L
Adverse effects:	Check glucose and K+ every 15 minutes initially
- Hypoglycaemia	Therapeutic Endpoint:
- Hypokalaemia	Wean after cardiovascular toxicity resolves by 1 unit/kg/hour
- Mild vasodilation	- In the case of calcium channel blockers, this is often indicated by increasing dextrose requirements
	Dextrose and K+ infusions may still be required after insulin is reduced until insulin totally eliminated.
	Pregnancy: Insulin is safe in pregnancy

## AUSTIN CLINICAL TOXICOLOGY SERVICE GUIDELINE

POISONS INFORMATION CENTRE: 13 11 26