

Jackson County Medical Control Authority
MICU Protocols
INSULIN

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Insulin

Indications Hyperglycemia, ketoacidosis

Contra-indications: Hypersensitivity to particular insulin formulation.

Adverse Effects: Hypoglycemia

Administration: As per physician orders; typically initial bolus of 0.1 units/kg bolus IV push (6 – 10 units) followed by infusion of 0.05 – 0.1 units/kg/hr (2-10 units/hr).

MICU Directives:

1. Follow generalized protocol for MICU transports.
2. Check glucose every 15 – 30 minutes.
3. As blood glucose level moves below 250 mg/dl, change IV fluid to D5 0.9 NS at 5 ml per kg per hour not to exceed 200 ml per hour.
4. If blood glucose level moves below 150 mg/dl, despite the treatment in # 3, decrease the insulin drip to one half of the previous rate.
5. If developing signs of hypoglycemia (glucose < 60 mg/dl), administer Dextrose 50%, 25 g (50 ml) IV and recheck glucose in 5 minutes.
6. Discontinue insulin drip if unable to maintain glucose > 60 mg/dl or if patient develops signs of hypersensitivity.
7. Initiate a second IV line when using an insulin drip due to its incompatibility with many drugs.