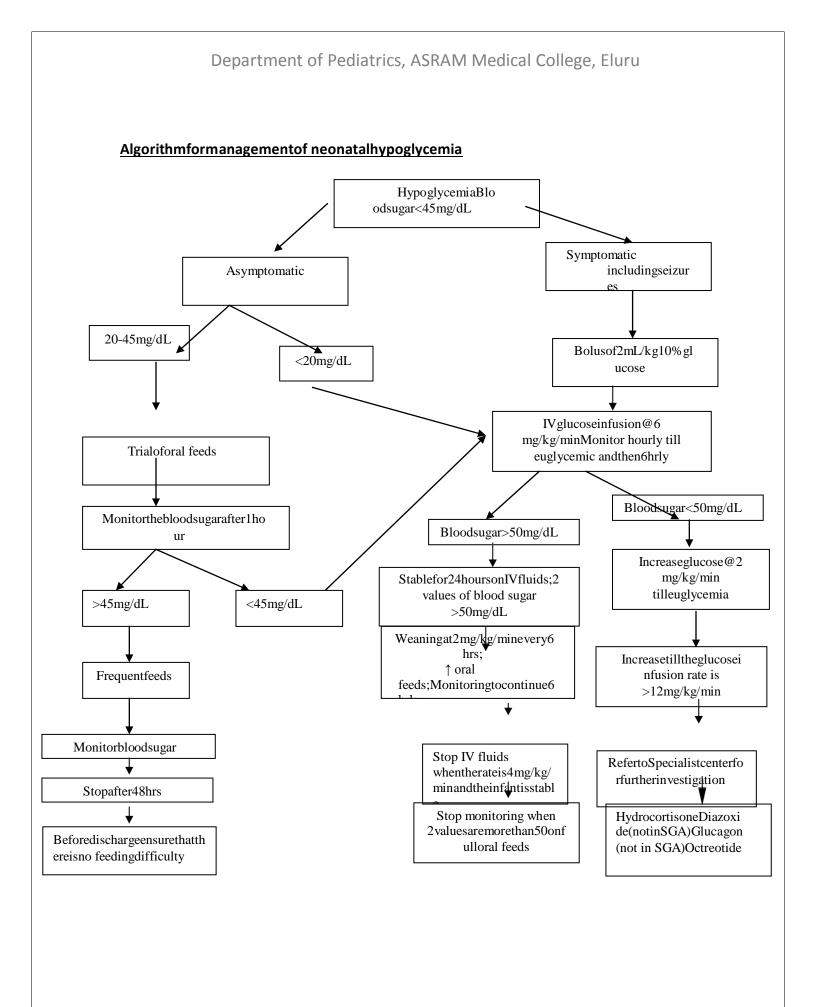
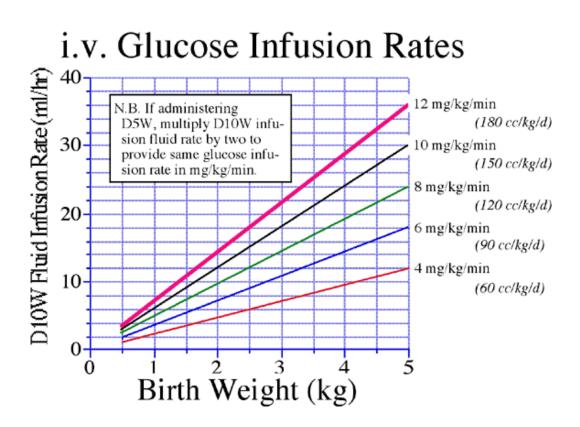
HYPOGLYCEMIA

- WHO defines hypoglycemia as BGL of less than 45 mg/dL (2.2 mmol/L).
- Asymptomatic hypoglycemia is diagnosed if BGL is less than 40 mg/ dL (to be confirmed by laboratory estimation) and the infant does not manifest any clinical features
- Symptomatic hypoglycemia should be diagnosed in hypoglycemia (BGL is less than 40 mg/ dL) with clinical symptoms. Therefore, careful evaluation should be done to look for all possible causes of signs and symptoms.
- Signs of hypoglycemia :stupor , jitteriness , tremors , apathy, episodes of of cyanosis , convulsions , intermittent apneic spells or tachypnea , weak and high pitched cry , limpness and lethargy , difficulty in feeding and eye rolling .

(Episodes of sweatings, sudden pallor , hypothermia and cardiac arrest have also been reported)

| Drug | Dose | Route | Mode of action | Side effects |
|----------------|------------|----------|----------------------------|---------------------------|
| Hydrocortisone | 5mg/KG/day | PO/IV | Reduces peripheral | Hyperglycemia, |
| | BD | | glucose utilization | Hypertension |
| | | | Increases | |
| | | | gluconeogenisis | |
| | | | Increases glucagon | |
| | | | effect | |
| Diazoxide | 5-15 | PO | K channel agonists | Fluid retention , |
| | mg//kg/day | | | hypertrichosis |
| | | | | Cardiac failure |
| Octreotide | 5-34 | SC | Somatostatin analogue | Cholelithiasis, transient |
| | mcg/kg/day | | inhibits insulin secretion | growth |
| | TDS/QID | | | impairement,tachyphylaxis |
| Glucagon | 0.2 mg/kg | SC or IM | Glycogenolysis, increased | Nausea,, vomiting , skin |
| | | | gluconeogenesis | ,rash,rebound |
| | | | | hypoglycemia. |





This graph may be used in your management of neonates as an aid for determining:

- 1. The i.v. rate needed to achieve a desired glucose infusion rate, i.e., in mg/kg/minas is needed for writing orders; or
- 2. determining the glucose infusion rate of an existing i.v. to determine an infant's caloric intake.
- As an example, a 2.5 kg infant whom you would like to have receive 6 mg/kg/min of glucoseshould be receiving 9.5 cc/hr of D10W (equivalent to 90 cc/kg of i.v. fluid).