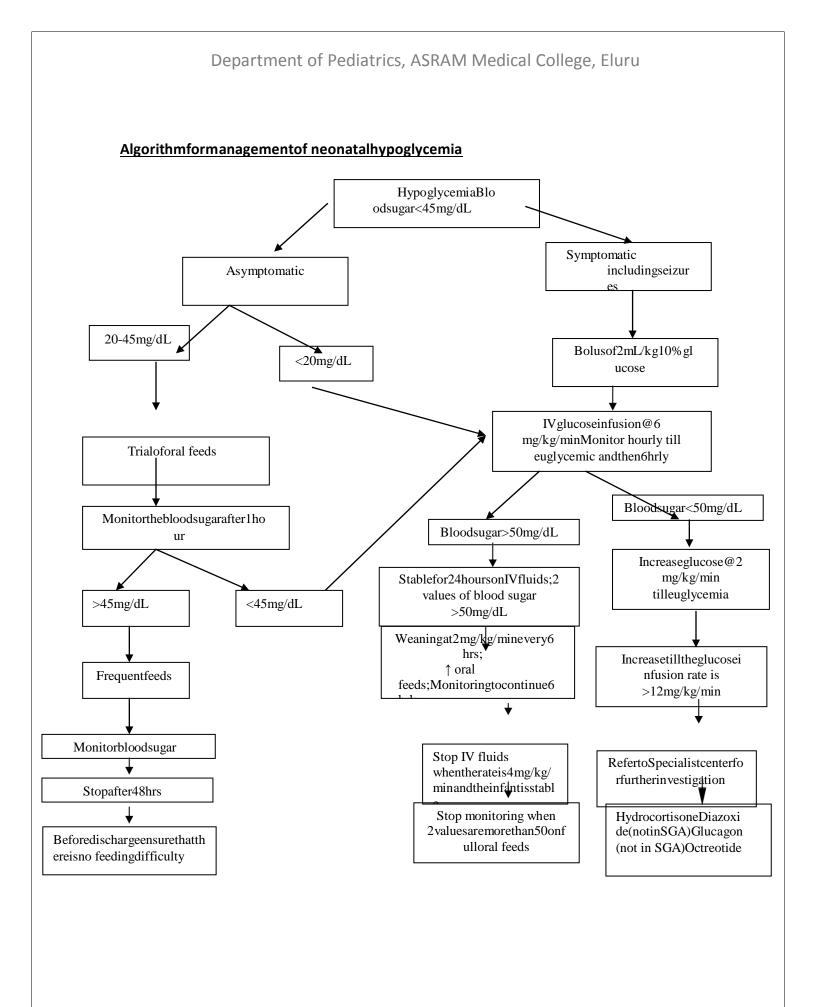
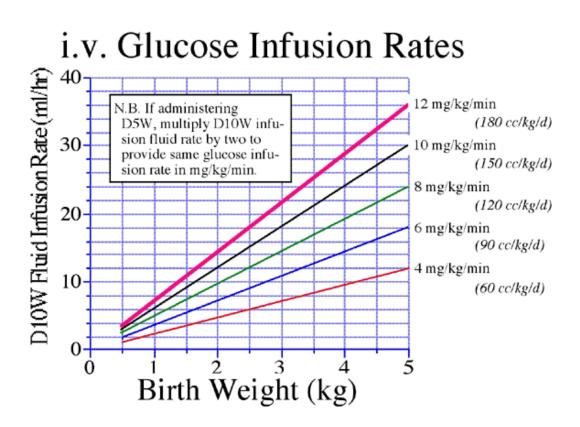
## HYPOGLYCEMIA

- 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).