



Managing a sick child with metabolic disorder in the ICU

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Problem list

- Drowsiness, poor feeding, vomiting, hypotonia
- Jaundice
- History of previous neonatal death
- Leukopenia
- Wide gap metabolic acidosis
- CSF gram stain: gram negative diplococci



Differential diagnosis

- **Infection: neonatal sepsis, meningitis, encephalitis**
- **Inborn errors of metabolism**
- **Intracranial cause: hemorrhage, brain anomalies**
- **Electrolyte imbalance**

Clinical presentations suggest inborn errors of metabolism

Neonatal – 6 months

lethargy, coma

hypotonia

convulsion

dyspnea & tachypnea

poor feeding

persistent vomiting

failure to thrive

hepatomegaly

unusual odor of body

excretion, urine

***Hx of previous
neonatal death or
stillbirth***

Hx of consanguinity



Acute management

Fluid, electrolyte and nutrition

- **NPO**
- **Adequate hydration**
- **Correct electrolyte & metabolic imbalance & appropriate follow up**
- **Correct hypoglycemia (if present)**