LACTATE

Type A

↓ Perfusion
- Diffuse
  - IBP
  - Normotensive cardiogenic shock
- Localized
  - Mesenteric ischemia
  - Compartment syndrome

Cellular hypoxia
- ↓PO2
- ↓Hgb
- Severe anemia
- CO
- MetHgb

↑ Metabolic demand
- Seizure
- Shivering

Type B

↓ Krebs cycle
- Toxin
  - EToH
  - Sepsis
  - Cyanide
- Meds
  - Metformin
  - Linezolid
  - Propofol
- Genetic
- ↓Thiamine

↓ Gluconeogenesis
- Liver disease

↑ Glycolysis
- Cancer via Warburg effect
- ↑ Andrenergic state

Most common causes:
1. ↓Perfusion
2. ETOH +/- ↓thiamine
3. ↑Adrenergic state

Exogenous
- Propylene glycol
- Lactated Ringers + cirrhosis