

## Chelators

- Cyanide
1. Generate Methemoglobin by giving Nitrogen containing compounds
    - a. If methemoglobin gets >30% treat with Methylene Blue (take care b/c MB is toxic and as the CN-MHb → HB CN is released)
  2. Give sulfur containing drugs to accelerate detoxification
  3. Oxygen – unknown mechanism

Mercury organic > elemental >> -ic >>> -ous

1. Dimercaprol (BAL) – highly penetrable (High Vd) Toxic – N/V, HTN, Headache, tachycardia, metabolic acidosis, hyperglycemia
2. dimercaptosuccinic acid – similar to above but less penetrable (low Vd)
3. D-penicillamine (heme toxic)

Lead

1. Dimercaprol (BAL)
2. dimercaptosuccinic acid
3. EDTA (nephro toxic)

Arsenic

1. BAL
2. dimercaptosuccinic acid

Iron

1. Deferoxamine

Lead

Know treatment recommendations for different levels (page 13 of lecture)

Associated with iron deficiency anemia. Check iron levels.

Tx:

1. EDTA
2. BAL if blood levels >70%

Elderly

Know what increases and decreases with age. *Hint: For the most part everything decreases except body fat stores, which increase.*