ANEMIA

Microcytic

Abnormal Hb synthesis
- Iron deficiency
- Thalassemias
- Sideroblastic anemia
- Chronic inflammation
- Drug-toxin related
- Lead poisoning

Normocytic

Hemolytic
- Autoimmune
- Hemoglobinopathy
- G6PD deficiency
- Spherocytosis
- Microangiopathy

NonHemolytic
- Acute blood loss
- Splenic
  - sequestration
- Chronic
  - inflammation
  - Chronic renal failure

Macrocytic

Megaloblastic
- Vit B12 / folate deficiency
- Nitrous oxide exposure
- Purine or pyrimidine deficiency
- Drug-toxin related

Nonmegaloblastic
- Aplastic anemia
- Altered production
- Diamond-Blackfan syndrome
- Liver disease
- Endocrine abnormalities

THROMBOCYTOPENIA

DECREASED PRODUCTION
- Acquired – Drug-toxin related, Viral infections (HIV, EBV, CMV), Renal failure
- Folate / B12 Deficiency
- Bone marrow infiltrate

Increased Destruction
- Immunologic – ITP, Alloimmune, Maternal ITP, Drug-toxin related, Infection
  - Nonimmunologic – Massive transfusion, Hypothermia, HUS/TTP, DIC, Nephritic syndrome, Neonatal (asphyxia/sepsis), Congenital heart disease, Pulm HTN, Heparin-induced, Microangiopathic

Sequestration
- Splenomegaly
- Cavernous hemangioma (Kassbach-Merrit syndrome)