

Abnormal Hb synthesis

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

Hemolytic

Autoimmune Hemoglobinopathy G6PD deficiency Spherocytosis Microangiopathy

NonHemolytic

Acute blood loss Splenic sequestration Chronic inflammation Chronic renal failure

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

DECREASED PRODUCTION

Congenital - TAR, Fanconi, Wiskott-Aldrich, May-Hegglin, Alport, Bernard Soulier, Trisomies 13 & 18, TORCH infxns, Inherited Metabolic Dz 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

THROMBOCYTOPENIA

Sequestration

Splenomegaly Cavernous hemangioma (Kassbach-Merrit syndrome)