



Pancytopenia

1) Marrow infiltration (smear: leukoerythroblastosis, tear drop cells)

Malignant

- Leukemia (smear: blasts)
- Lymphoma
- MDS
- Myelofibrosis
- Plasma cell dyscrasia
- Metastasis (adeno)

Non-malignant

- Sarcoidosis
- Intracellular pathogen
- Granulomatous infxn
- Gaucher disease

2) Marrow failure

Nutritional (smear: hyperseg PMNs)

- B12/folate def.
- Copper def.

Marrow suppression

- HIV/EBV/CMV
- Parvovirus
- Tick-borne illnesses
- Sepsis
- Medications
- Hypothyroidism
- Alcohol

Immune destruction

- Aplastic anemia/PNH
- SLE/RA
- HLH
- Cytotoxic medications

3) Peripheral process

- SLE/RA
- Tick-borne infections
(smear: morulae, organisms)
- CLL
- Splenomegaly (see separate schema)

