

## HYPOPROLIFERATIVE ANEMIAS

Acquired or Constitutional Disorder with Chronic Bone Marrow Hypocellularity

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## TERMS

- Aplasia – (aplastic or hypoplastic) overall decrease in hematopoietic cellularity
- Pancytopenia – decrease in all cell lines
- If decrease in only one cell line then terms erythroid, myeloid, or megakaryocytic hypoplasia used

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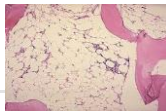
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## APLASTIC ANEMIA



- Criteria
  - Bone Cellularity <25% plus 2 of the following:
  - Granulocyte Count <0.5X10<sup>9</sup>/L
  - Platelet Count <20X10<sup>9</sup>/L
  - Anemia with corrected Retic Count <1%

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## AQUIRED FORMS

- Idiopathic
- Drugs
- Chemical Agents
- Ionizing Radiation
- Infectious Agents
- Metabolic
- Paroxysmal Nocturnal Hemoglobinuria
- Other

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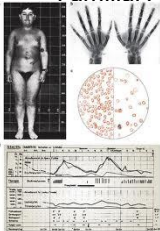
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## CONSTITUTIONAL

- Fanconi's Anemia
- Familial Aplastic Anemia



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## LABORATORY FINDINGS

- Peripheral Blood – normocytic, normochromic anemia, neutopenia, thrombocytopenia
- Bone Marrow – hypocellular
- Other Tests

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## PROGNOSIS AND THERAPY

- Bone Marrow Transplants
- Removal of Causative Agent
- Transfusions
- Stem Cell Transplants

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## OTHER PANCYTOPENIA

- Myelophthisic Anemia
- Myelodysplastic Syndromes
- Congenital Dyserythropoietic Anemia
- Hypersplenism
- Other

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## PURE RED CELL APLASIA

- Acquired Acute Pure Red Cell Aplasia
- Acquired Chronic Pure Red Cell Aplasia
- Diamond-Blackfan Syndrome



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## OTHER HYPOPROLIFERATIVE ANEMIAS

- Renal Disease
- Endocrine Abnormalities

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