

# Alterations in Oxygenation (Transport) Cheat Sheet by Dani (Dan\_Niel) via cheatography.com/131883/cs/26649/

# **Thalassemia**

**Autosomal recessive** genetic disorder of inadequate production of normal hemoglobin. found in meditteranean ethnic groups.

#### Clinical Manifestation

Asymptomatic | Major retardation | Life threatening

Splenomegaly, Heptomegaly

## **Pathophysiology**

Genetic defect, synthesis of one of a or b globin chains, production of abnormal Hgb and RBC, Hemolysis, Anemia

#### **Collaborative Care**

- No specific drug or diet are effective for treatment
- Minor (hetero-beta) : body adapts to low Hgb
- Major (Homo-beta): Blood transfusions with IV deferoxamine (used to remove excess iron from the body)

# **Polycythemia**

A net increase in the total number of Red blood cells. **Overproduction may be due to:** 

- myeloproliferative syndrome in bone marrow
- reaction to chronically low oxy lvls or malignancy

# **Pathophysiology**

Myeloproliferative due to hypoxia, the stem cell grow uncontrollably, BM becomes Hypercellular, Blood becomes thick to sluggish circulation, BM becomes fibrotic.

#### Complications

- Increased viscosity of blood
- Hemorrhage and thrombosis

#### **Treatment**

- Phlebotomy
- Myelosuppressive agents : Intron A, Agrylin, Aspirin

# Idiopathic Thrombocytopenia Purpura

Disorder of decreased platelets (below 150,000)

#### Causes

- ·Low production of platelets
- •Increased breakdown of platelets

# **Symptoms**

• Bruising, Nosebleeds, Petechiae

### **Immune Thrombocytopenic Purpura**

- Abnormal destruction of circulating platelets
- · Autoimmune disorder
- Destroyed in hosts' spleen by macrophages

# **Thrombotic Thrombocytopenic Purpura**

Increase agglutination of platelets, form microthrombi

# **Diagnostic Studies**

- Platelet count, Hgb/Hct, prothrombin time
   (PT)
- Activated partial thromboplastin time (aPTT)

# **Treatments**

- •Corticosteroids (Bethamethasone, prednisone, prelone)
- Plasmapheresis, Splenectomy, platelet transfusion



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