



**sickle-cell**

**disease Anemia**

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- This is a severe hemophilic anemia resulting from homogenous inheritance of a gene which causes an amino-acid substitution in the hemoglobin molecule (6 Glu → Val)
  - So creating Hbs. It is common in black race.

# Classification

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- Homozygote (SS), has sickle cell anemia
- Heterozygote (AS), has sickle cell trait
- Heterozygote SC
- Heterozygote SD
- Homozygote CC
- Homozygote DD

# Diagnosis

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- **Sickling Test**
- **Electrophoresis**
- **Blood film**

# Clinical Features

- \*Anemia
- \*Jaundice
- \*Painful swelling of hands and feet:  
hand and foot syndrome
- \*Enlarged spleen
- \*Priapism

# Complications

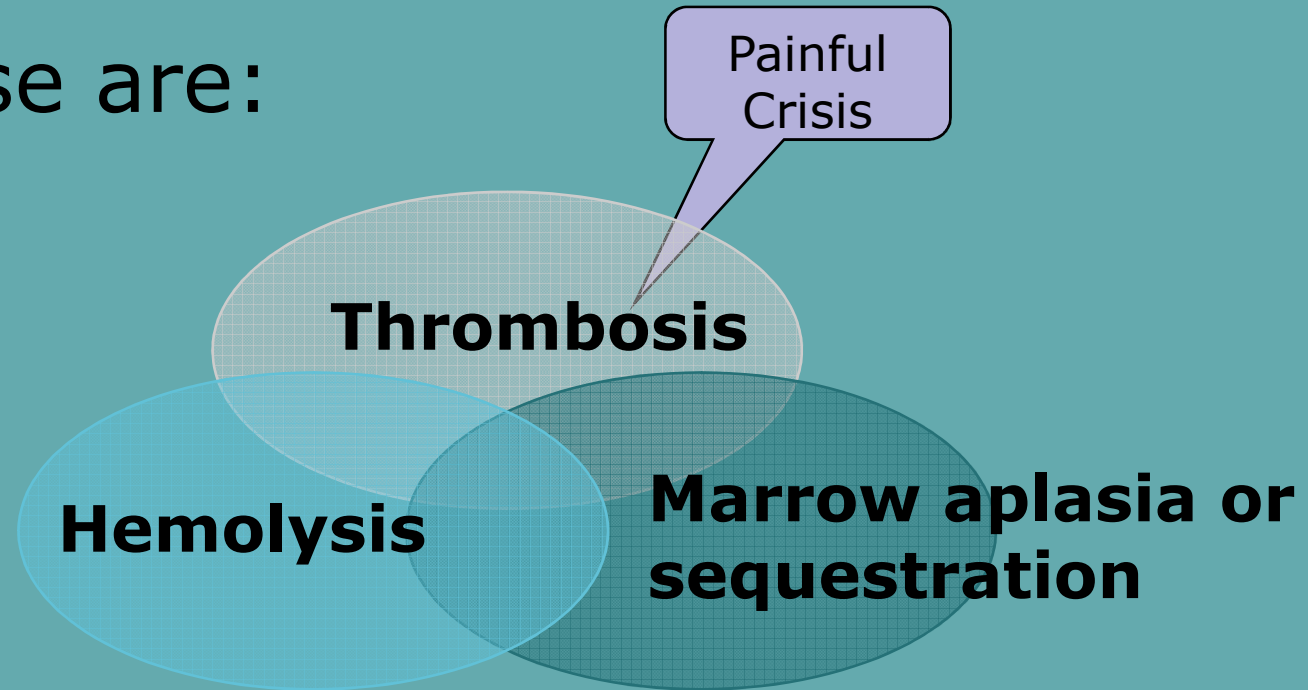
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- Renal Failure
- Bone necrosis
- Infections e.g. Salmonella Osteomyelitis.
- Leg Ulcers

# Sickle-cell Crisis

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- These are:



# Management

- Analgesic
- Cross match blood, FBC, blood culture, MSU, CXR
- Dehydration
- Antibiotics
- Anti-malaria
- +- Blood transfusion