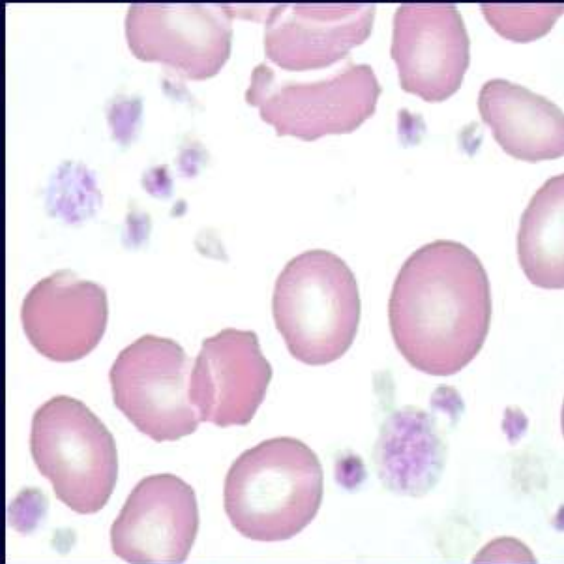


Platelet Variations



normal and abnormal platelets

- Platelets normally vary slightly in shape, size, and staining characteristics.
- Normal and abnormal platelets usually vary significantly in morphology.
- Morphologically abnormal platelets are usually associated with disease states.

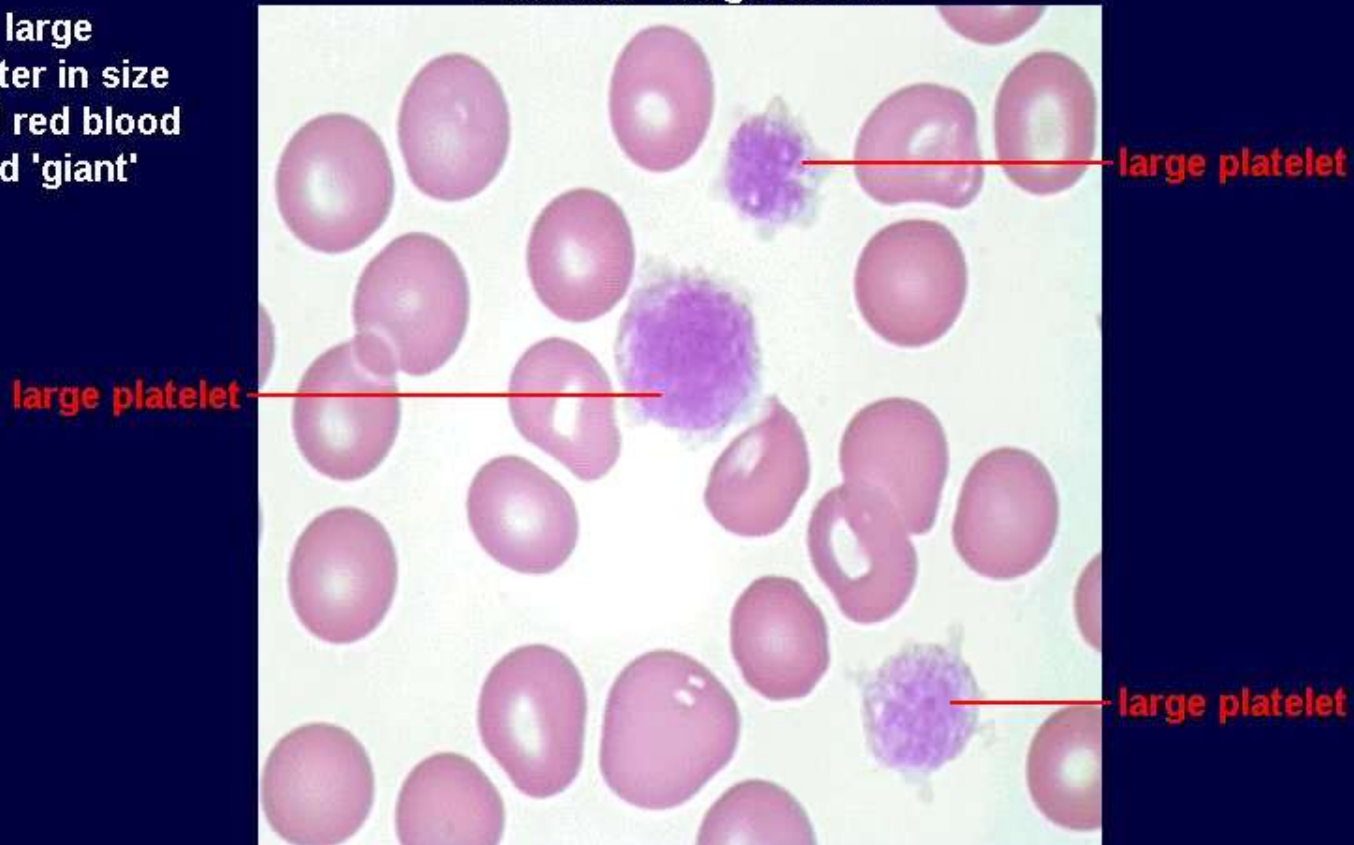
Platelets - Variations

Large forms

Hypogranular

Platelets - Large forms

Morphology: large platelets greater in size than a normal red blood cell are termed 'giant' platelets



Comment: Large platelets are associated with disease states having an increased rate of platelet production.

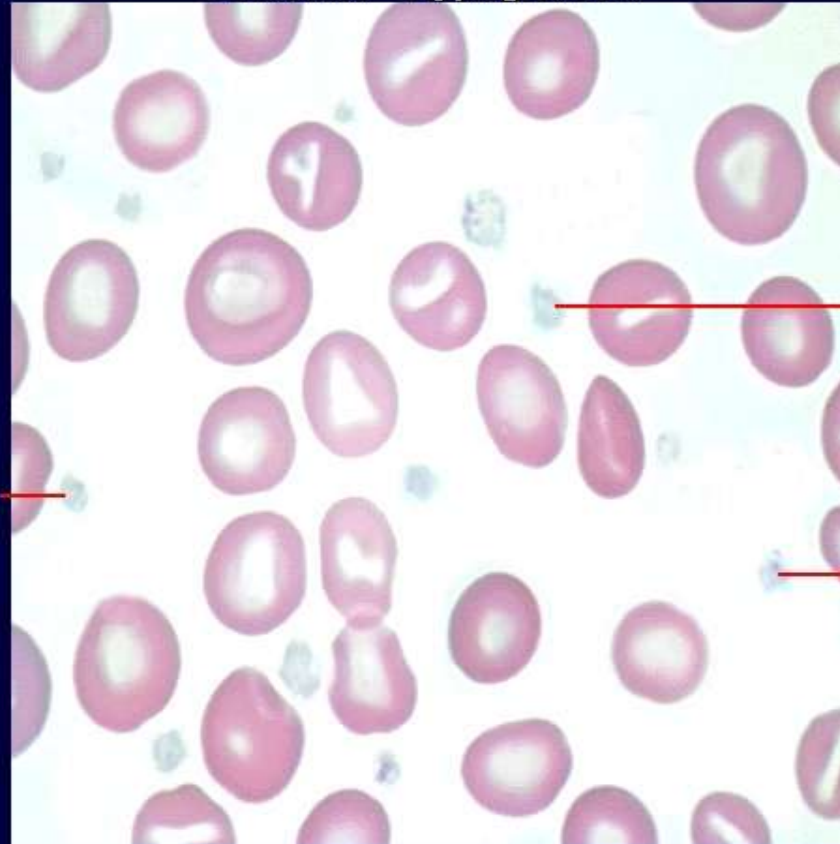
Platelets - Variations

Large forms

Hypogranular

Morphology: platelets with few or no granules

Platelets - Hypogranular



hypogranular platelet

hypogranular platelet

hypogranular platelet

Comment: Hypogranular platelets are seen in platelet storage pool defects such as the gray platelet syndrome and myelodysplastic syndromes.