

Paget's Disease

Disorder with excessive Bone Remodeling

↳ Excessive Bone resorption & Growth

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Deformation and Fractures

Etiology - Unknown

1) Triggered by Infections (Eg. Measles Virus)

2) Linked with genetic mutation (Eg. GASTM1).

Pathophysiology

Phase 1 → Lytic Phase → ↑ Osteoclastic activity.

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Phase 2 → Mixed Phase → (↑ Osteoblasts & ↑ Osteoclasts).

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Phase 3 → Sclerotic phase → New Bone formation
exceeds resorption.

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Structurally Disorganized & weaker Bone.

Clinical Features

- Usually Symptomatic.

- Later Metaphase bones (Skull - Leontiasis
↳ lion like face)

- Impinge on nerve cause pain

i) Hearing loss → Not due to compression
by sclerosing of the auditory nerve.

ii) Vision loss.

iii) Spinal Cord compression

iv) Cranial nerve defects.

Other Bone Deformities $\rightarrow$ Osteosarcoma

- Kyphosis.
- Pelvic Ankylosis.
- Bow legs.
- $\rightarrow$ Arthritis and Joint Inflammation

Investigations

- RPT levels of Alkaline Phosphatase.
- $\rightarrow$ X-ray $\rightarrow$ lytic lesions, $\times$ Sclerosis.
 - $\hookrightarrow$ Alternating Translucency and Osteosclerosis
- Bone Biopsy $\rightarrow$ Exclude Malignancy.