

Malignant bone forming tumours (spindle cell neoplasms that produce osteoid)

CLASSIC OSTEOSARCOMA (High grade intramedullary)

Mixed sclerotic/lytic (destructive) lesions in metaphysis of long bones
Codman's Δ

~50% knee (distal femur/prox tibia) 10% prox humerus

Bimodal <30yrs & >60yrs (Paget's & Rnd Sarcoma)

Lacy like osteoid matrix, atypical spindle cells

Tx Neoadj-vent chemo **Doxorubicin**, **Cisplatin**, **Methotrexate**

Limb salvage surgery, adj-vent chemo 65% 5yr survival

A/w TSG p53 (Li-Fraumeni) & Rb (retinoblastoma)

IB 10-20% present with lung mets ∴ IB Re stage with MRI after chemo

PAROSTEAL

Ossified lobulated mass, arising from surface of bone

Characteristically posterior distal femur (tibia & prox hum)

<45yrs painful mass

Tx Wide margin resection Chemo NOT required

PERIOSTEAL

Sunburst **sucerized** surface lesion 'hair on end'

Diaphysis of femur & tibia

<30yrs

Tx Chemo & Limb salvage surgery