

Non bone forming tumours: Malignant

EWING SARCOMA

ging Large destructive lesion that involves the metaphysis & diaphysis. Maybe purely lytic or have variable amounts of reactive new bone formation. Periosteal reaction 'onion skin' & Codman's Δ. MRI large soft tissue component

ation Knee, femoral diaphysis, pelvis & prox humerus

es Children > 5yrs

Pain & fever, ↑ ESR & WCC ∴ MIMICS infection

Ix + (11:22) chromosomal translocation EWS/FLI1 fusion gene

Bone marrow biopsy for staging. Involvement = poor prognosis

Tx Chemo & wide Margin excision, Euro Ewing trial

RTx maybe used for spine & pelvis where resection is morbid

VAC vincristine, doxorubicin & cyclophosphamide

Q Mets lung, bone & bone marrow

Prog 5yr survival $\frac{2}{3}$ Poor spine & pelvis, $> 100 \text{ cm}^3$, poor response to chemo (< 90% tumour cell necrosis)

↑ LDH & p53 mutn

Refer all cases to National Ewing's MDT

CHORDOMA

low signal T1, bright T2
Sacrum expanded

ging Not well visualised on AP pelvis due to overlying bowel & obliquity of sacrum. MRI lytic lesion with bony destruction & calcification

ation Arises from remnant notochord ∴ occurs at ends of vertebral column: 50% sacral, 35% clivus of skull, 10% VB

es Pain, GI symptoms & nerve compression

to Vacuolated appearance called physaliferous cells

Ix Wide margin surgical resection + RTx if narrow margin

High rate local recurrence

To spare bladder function spare bilateral S2 or unilateral S2, 3 & 4