

G. Delépine

Hôpital R Poincaré -Oncologic Pediatric unit

Garches

France

Material

From 1/1981 To 31 /12/2003

520 sarcomas of limb or girdle.

Average size 13.1 cms.

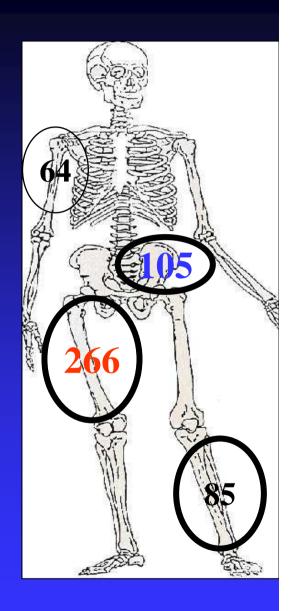
265 Osteosarcomas

135 chondrosarcomas

130 Ewing's sarcoma

Aims of the study

- Mesure the incidence of neurovascular involvment
- Evaluate the surgical consequences



Patients

Method

- All patients had Xrays and CT scan
- 350 NMR
- 45 vascular exploration
- Their results were compared to the operative constatations and to histologic findings

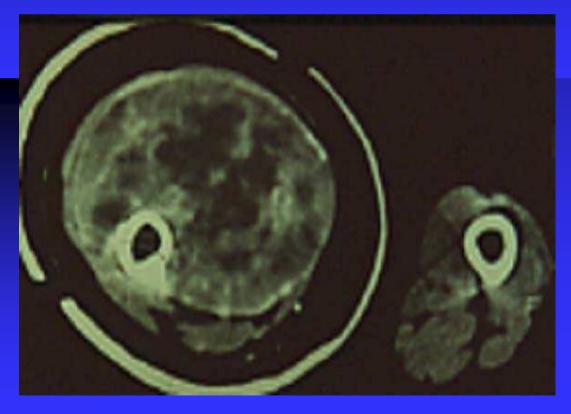


Results in osteosarcoma

In osteosarcoma neurovascular invasion is uncommon (19/256)

Most interest the radial and fibular nerves (11)

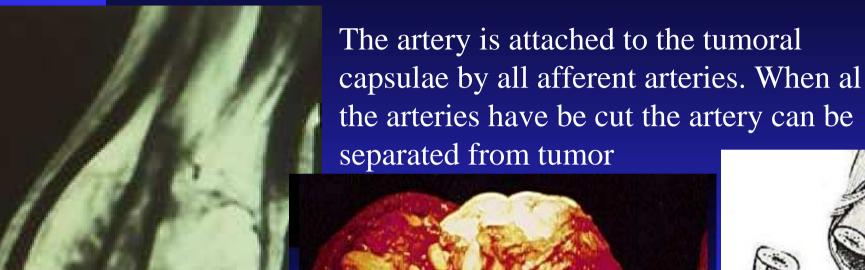
Artery were invaded in 2 The invasion of efferent veins by tumoral thrombus is not exceptionnal (6 cases) and justify vein angiography in cases of distal oedema.







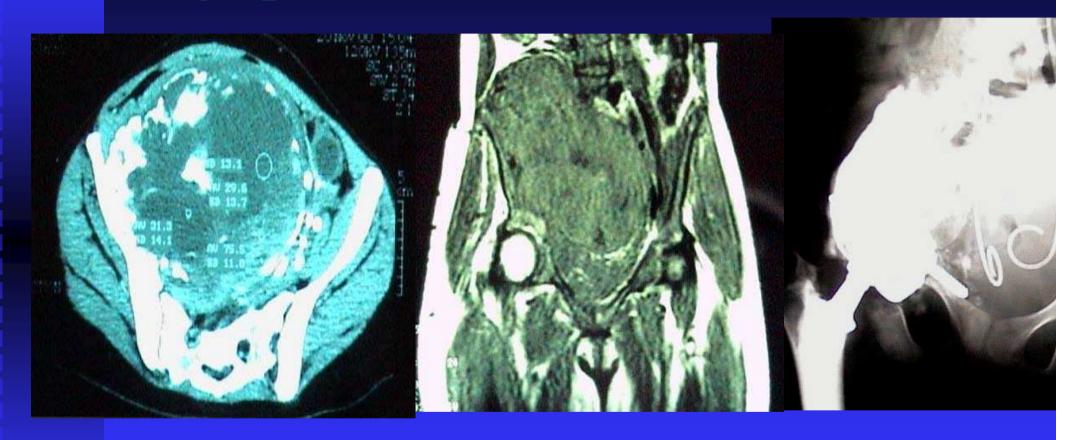
The artery was not involved







Huge pelvic osteosarcoma



Resection showed no NV invasion .10 years DFS



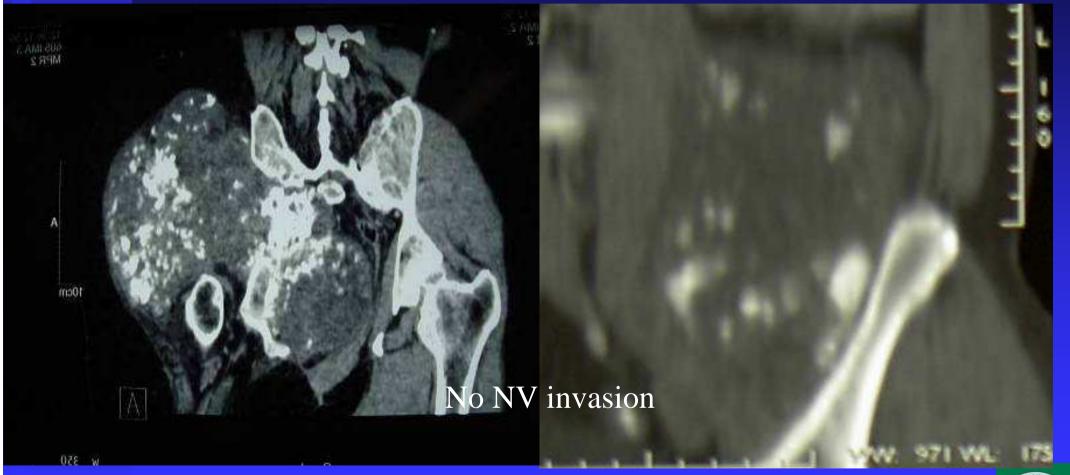
Others cases without NV invasion







In chondrosarcoma NV invasion is exceptional: 5%





Neurovascular invasion was not observed in Ewing

Even in very huge tumors

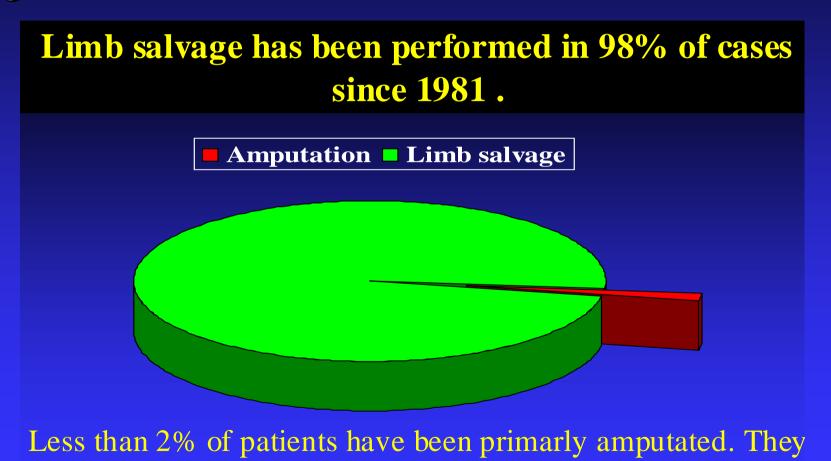






Conclusions

Neurovascular invasion is too rare to limit significantly limb salvage in bone sarcoma



were all patients seen after inadequate initial management.

