

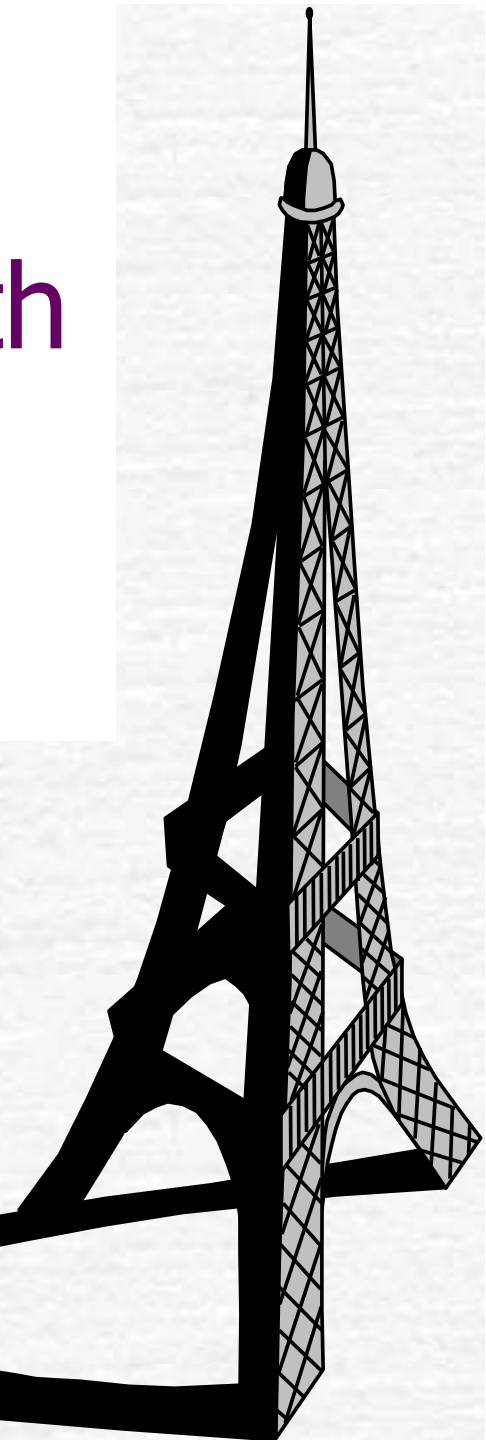
Ewing's sarcoma :Optimal length of preoperative chemotherapy

Delépine G., Cornille H., Alkallaf S , Tabbi A. Zahia L. DELEPINE N.

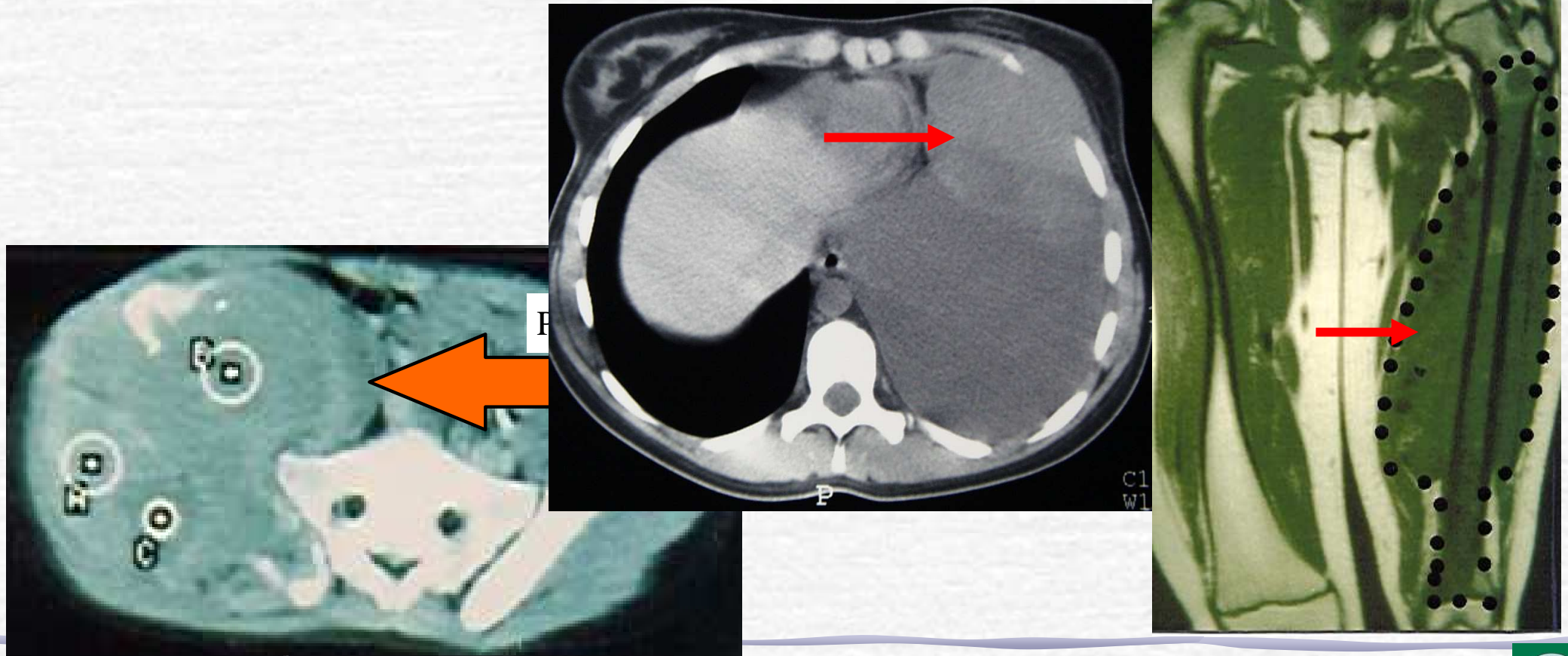
R Poincaré university hospital Garches ,France



9 th EFORT congress
2008 may 29-31 Nice



Before chemotherapy the soft tissue extension is hypervascularized and often huge



Patients

From november 1985 to january 2006, 150 patients were followed or treated by our team.

Among them 80 fulfilled the inclusion criteria:

localized Ewing's sarcoma

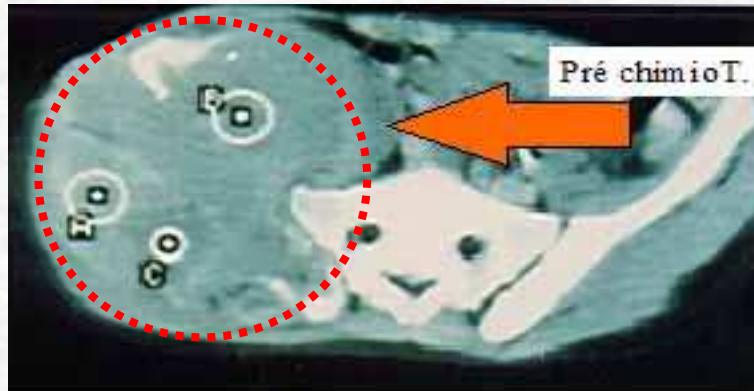
Previously untreated

Computed medical imaging before and after preop chemotherapy

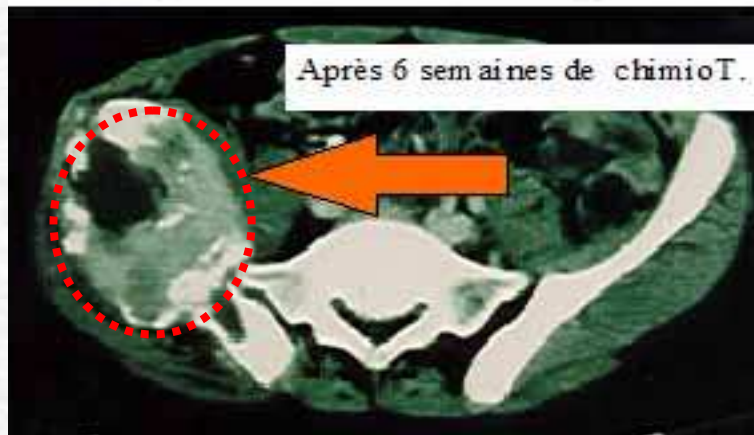
Local treatment by our team with histologic analysis

RESPONSE EVALUATION

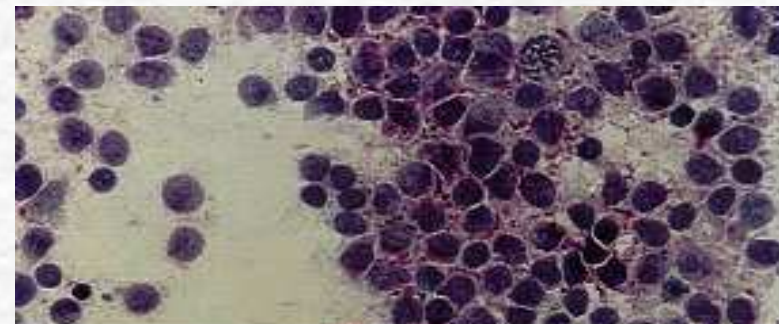
Evolution of tumoral volume (%)



spectaculaire diminution du volume tumoral grâce à la chimiothérapie

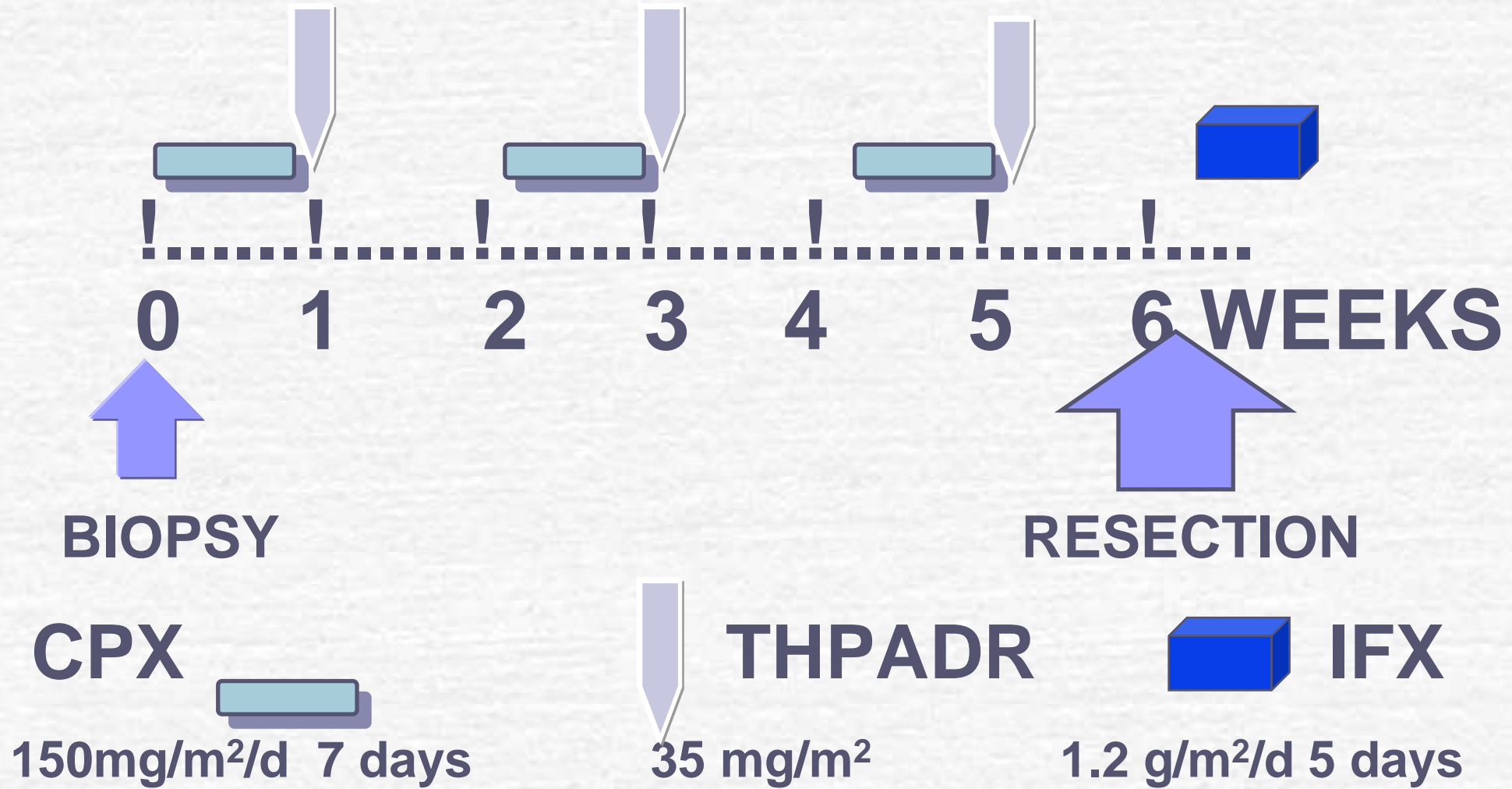


All primaries have been operated (78 by the same surgeon) histologic response was graded according to Picci's grading.
grade 3 : no tumoral cell left
grade 2 some scattered viable cells
grade 1 :residual tumoral foci

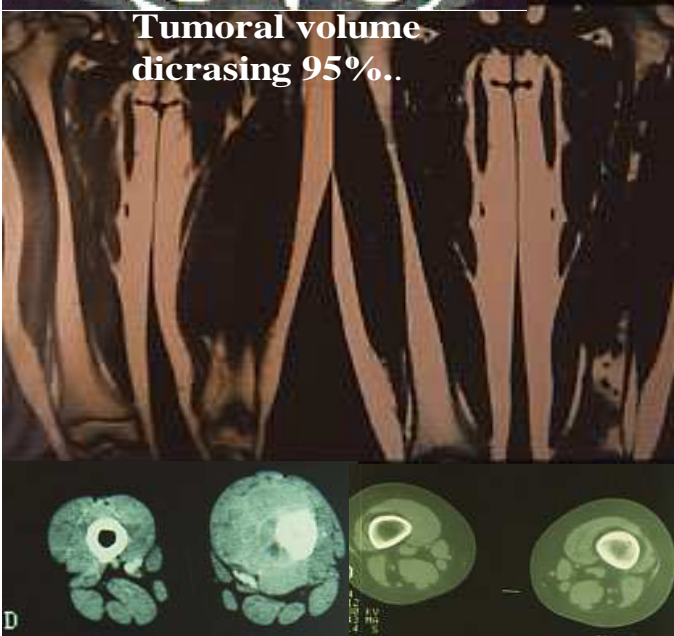
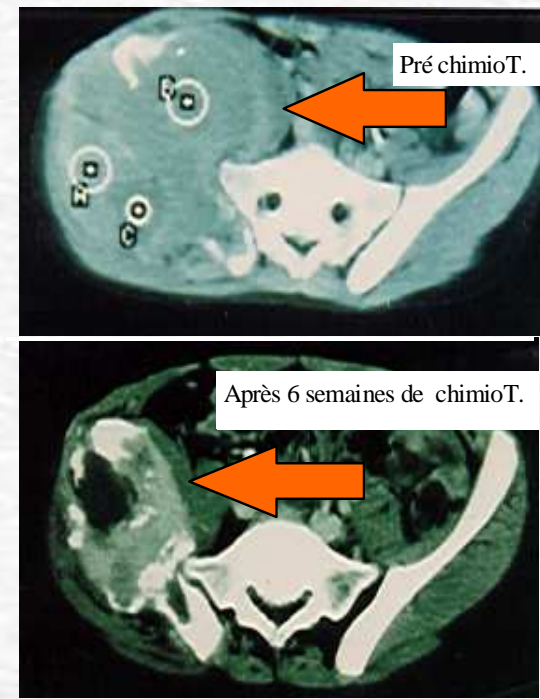
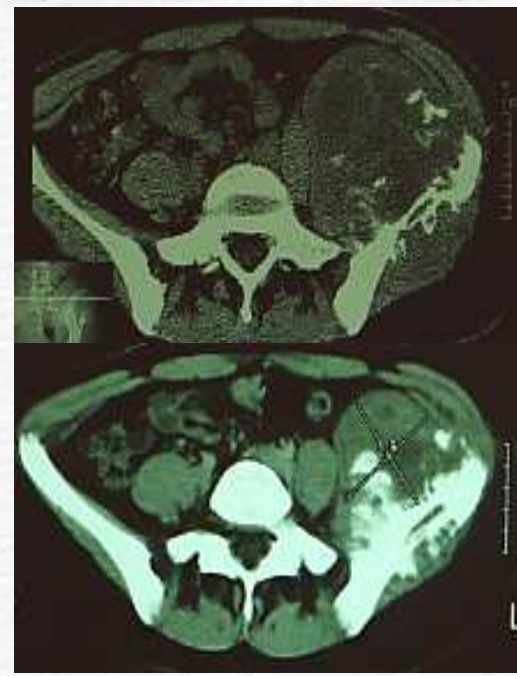
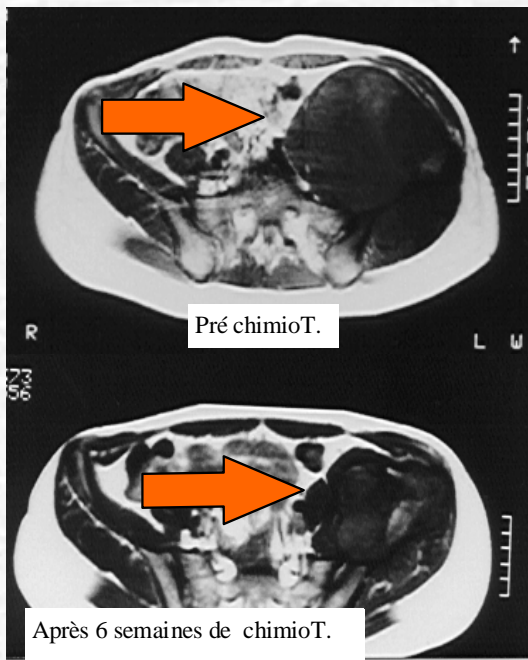


Grade 1

Among these 80 patients,
42 patients received a short induction

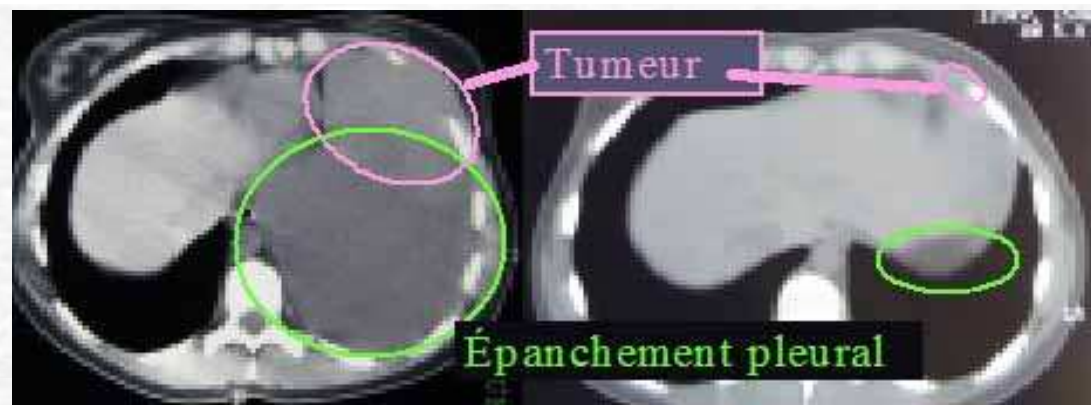


6 weeks are enough for surgeon !



18 y old girl with a huge pleural infusion leading to discovery of a rib tumor

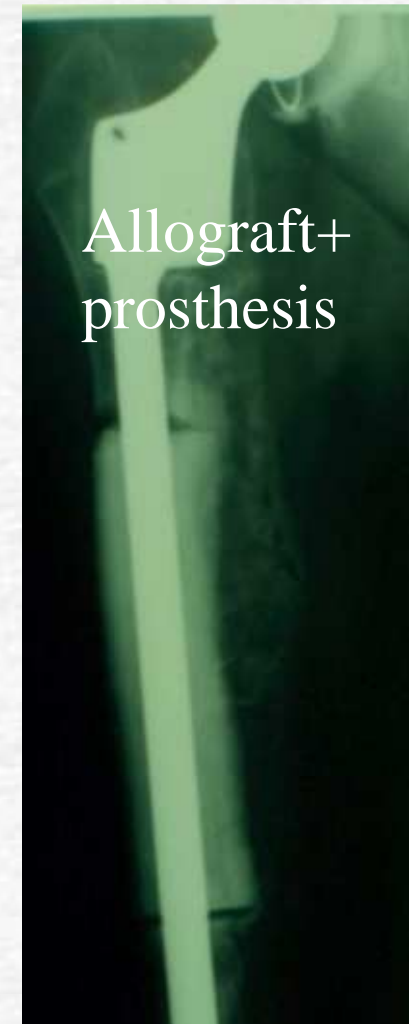
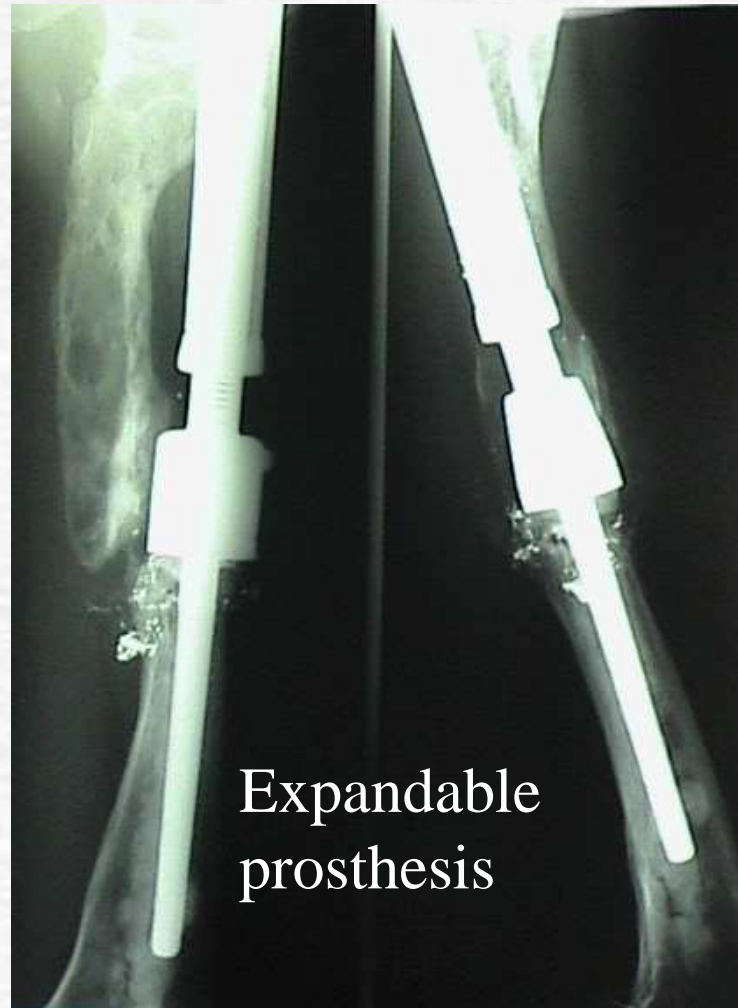
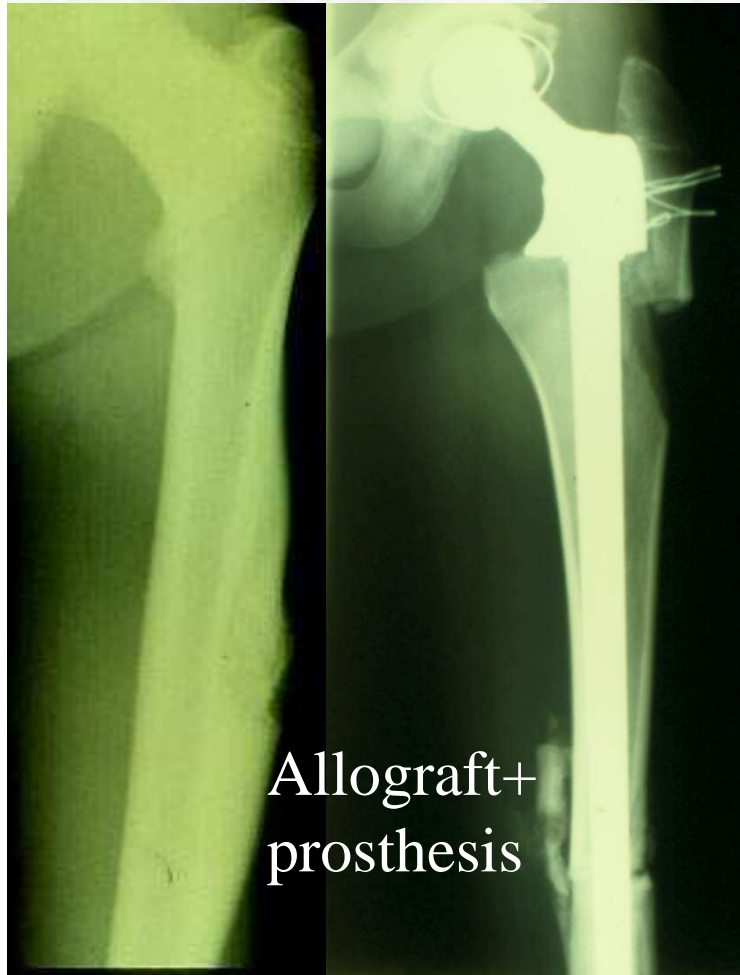
Tumoral volume response : 98%.



Standard treatment excluded radiotherapy

- ✓ In this protocol early extra tumoral en bloc resection without radiotherapy was the standard local treatment.
- ✓ It was performed in all cases without risk of neurological sequellae.
- ✓ 3 patients with contaminated margins received postoperative radiotherapy

All limb tumors were resected



Some cases of reconstructive procedures used
after resection of femoral Ewing

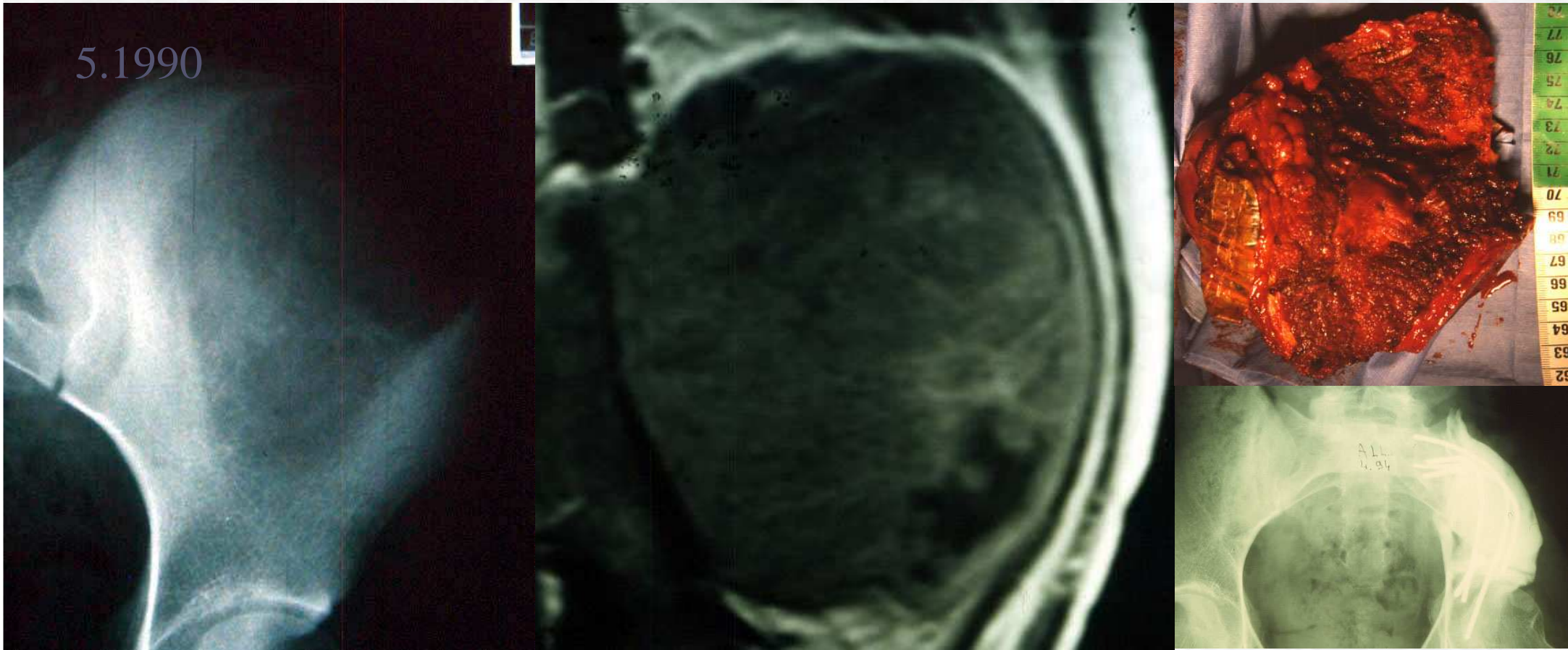
Optimal length of preop chemotherapy in Ewing's Delépine

9 th EFORT congress

2008 may 29-31 Nice

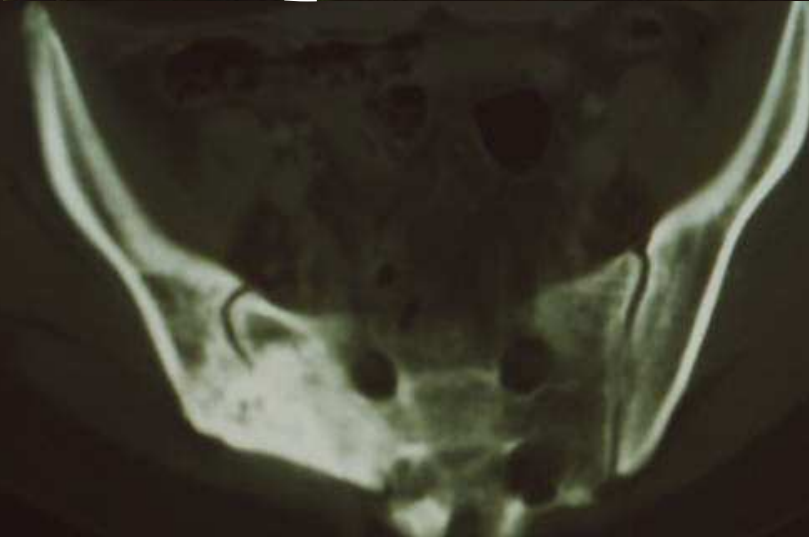
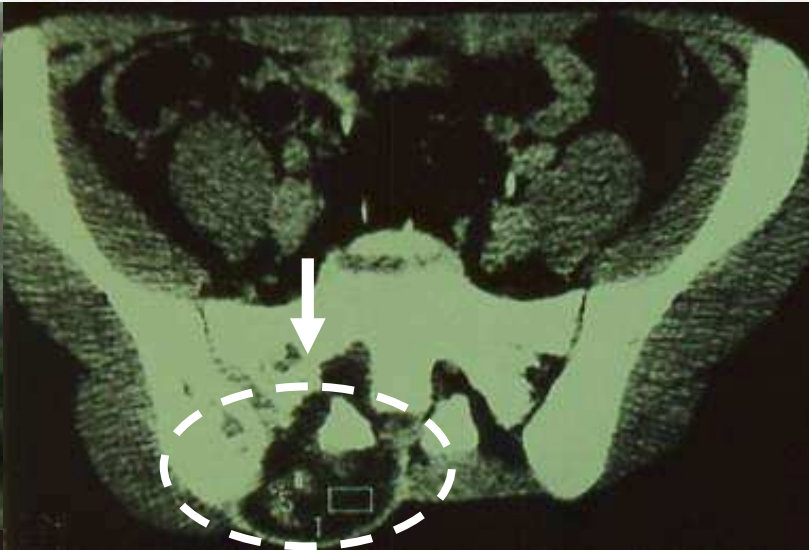


All pelvic tumors were resected



- 16 Y old girl with a huge IIB tumor of iliac wing.
- En bloc resection after 6 weeks chemotherapy.
- Skeletal reconstruction using cement. Excellent oncologic and fonctionnal results with 15 years follow up

Even sacroiliac tumors



17 years remission after en bloc resection

Optimal length of a prosthesis in Ewing's sarcoma and reconstruction with cement

9 th EFORT congress

2008 may 29-31 Nice



POSTOPERATIVE CHEMOTHERAPY

Postoperative chemotherapy alternated :

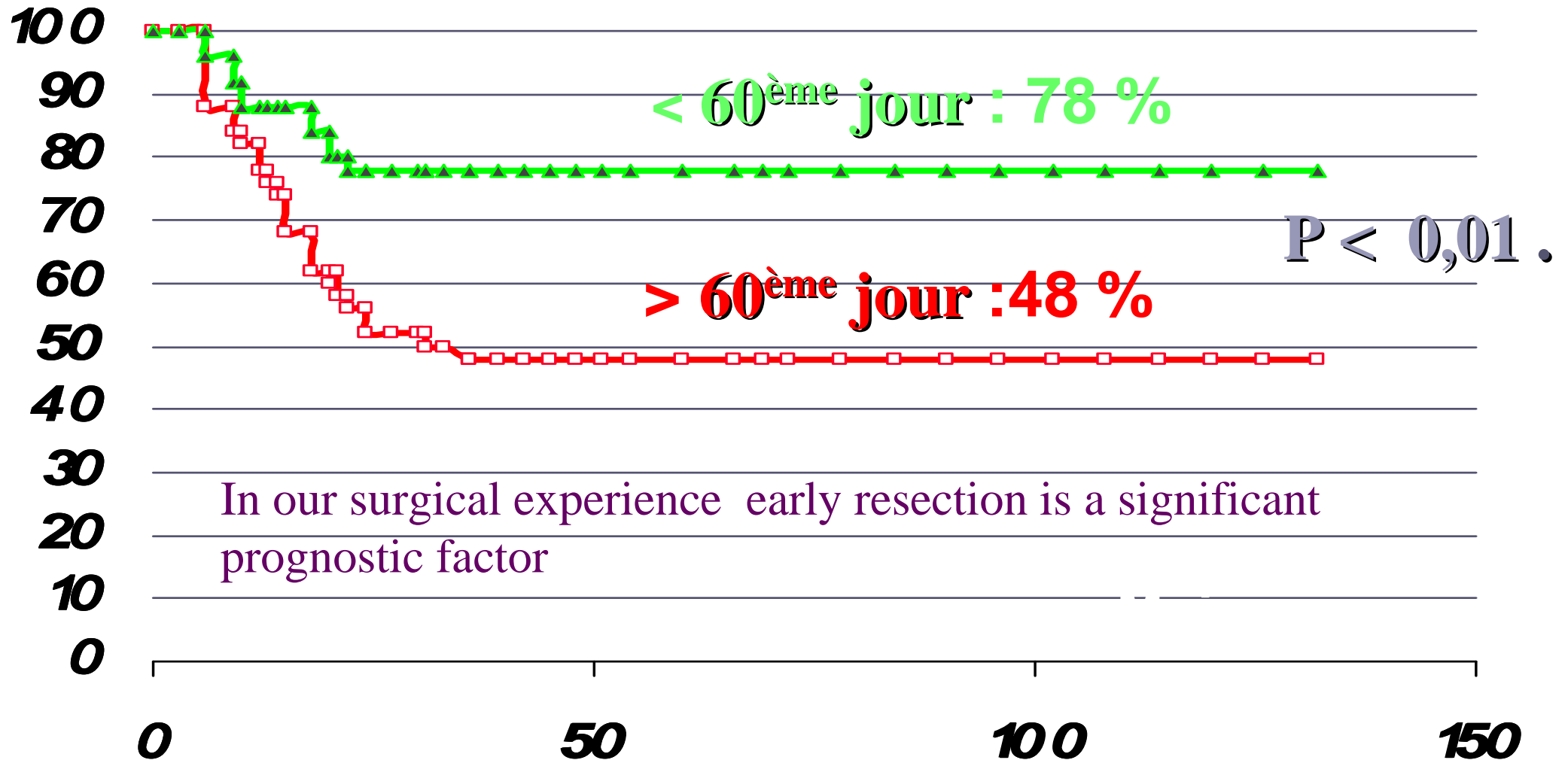
• 6 IPA (Ifosfamide 6 gr/sqm, Cisplatinum 125 mg/ m², Pirarubicine 35 mg/ m²)

• 3 Cyclophosphamide(150 mg/m² 7d)
+Pirarubicine (35 mg/m² d 8)

• 12 weeks of Vincristine (2 mg/ m² x 12),
Actinomycine D (2 mg/ m² x 6)

Valeur pronostique de la durée de la chimiothérapie préopératoire

%E.F.S.



CONCLUSION

- ✓ This serie shows the excellent long term prognosis of children with localized Ewing's sarcoma treated by this protocol, with short (6 weeks) bidrug induction.
- ✓ and systematic conservative surgery.
- ✓ followed by six drugs postoperative chemotherapy



CONCLUSION 2

- This serie confirms the results of Hayes
- on patients treated by surgery : 10/11 operated patients were DFS

**Therapy for localized ewing's sarcoma.
Hayes J.Clin.oncol. 1989, 7, 2, 208-213.**