

Multicentric osteosarcoma (27 years follow-up)



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background



- ⌘ in the international literature , multifocal osteosarcoma is usually considered as incurable and receives only palliative treatment
- ⌘ our case with a very long follow-up proves that curable attitude is mandatory

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- ⌘ A 11y old girl was seen in a cancer center for a huge lytic inferior femoral tumor
- ⌘ doctors consider her as condemned and propose a desarticulation
- ⌘ for 3 months parents give only alternative medicine to her daughter, refusing amputation
- ⌘ But increasing of the tumor with enormous limb and unacceptable pain led to consult in our institution

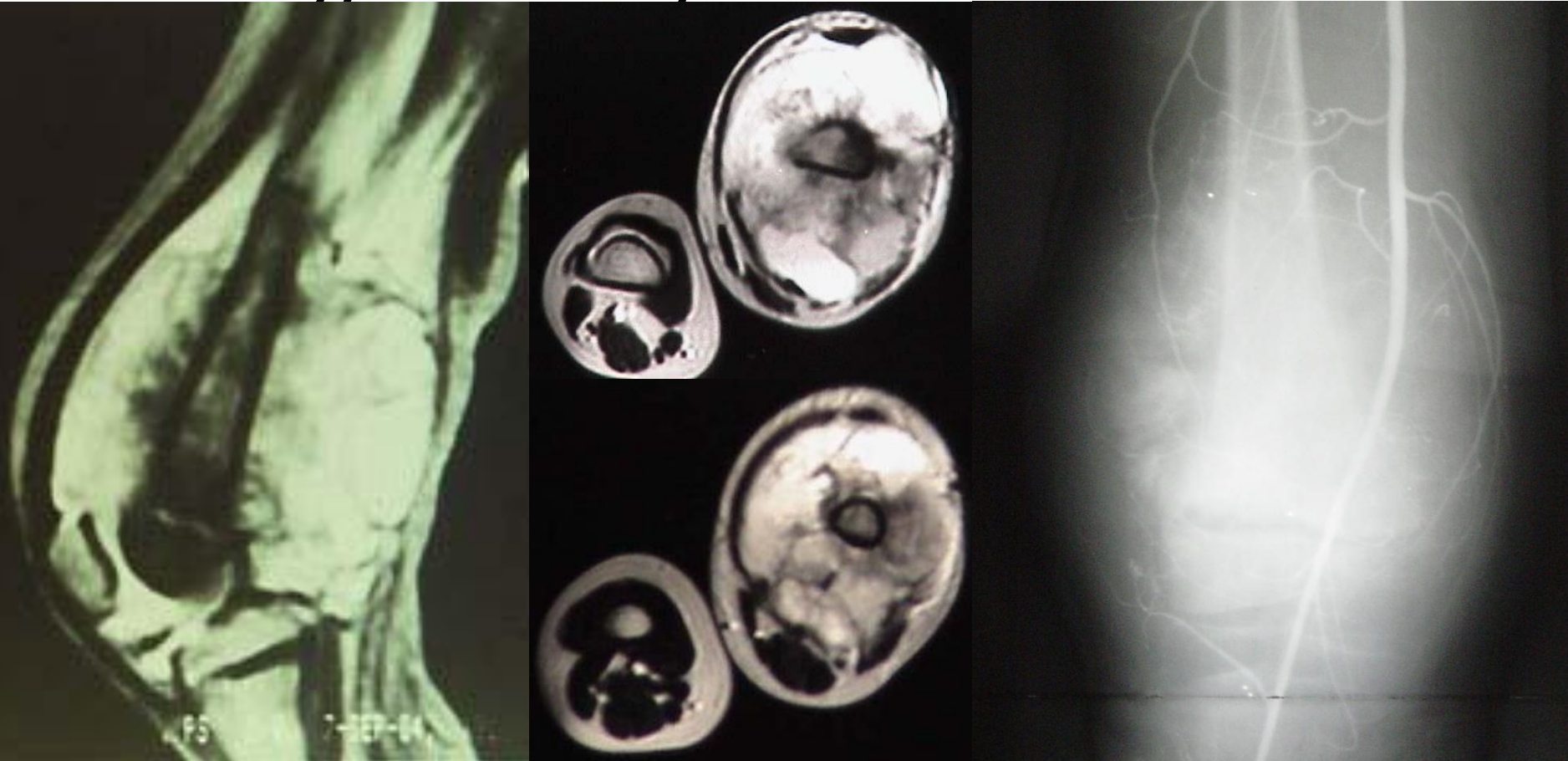
First clinical examination in our center , august 1984



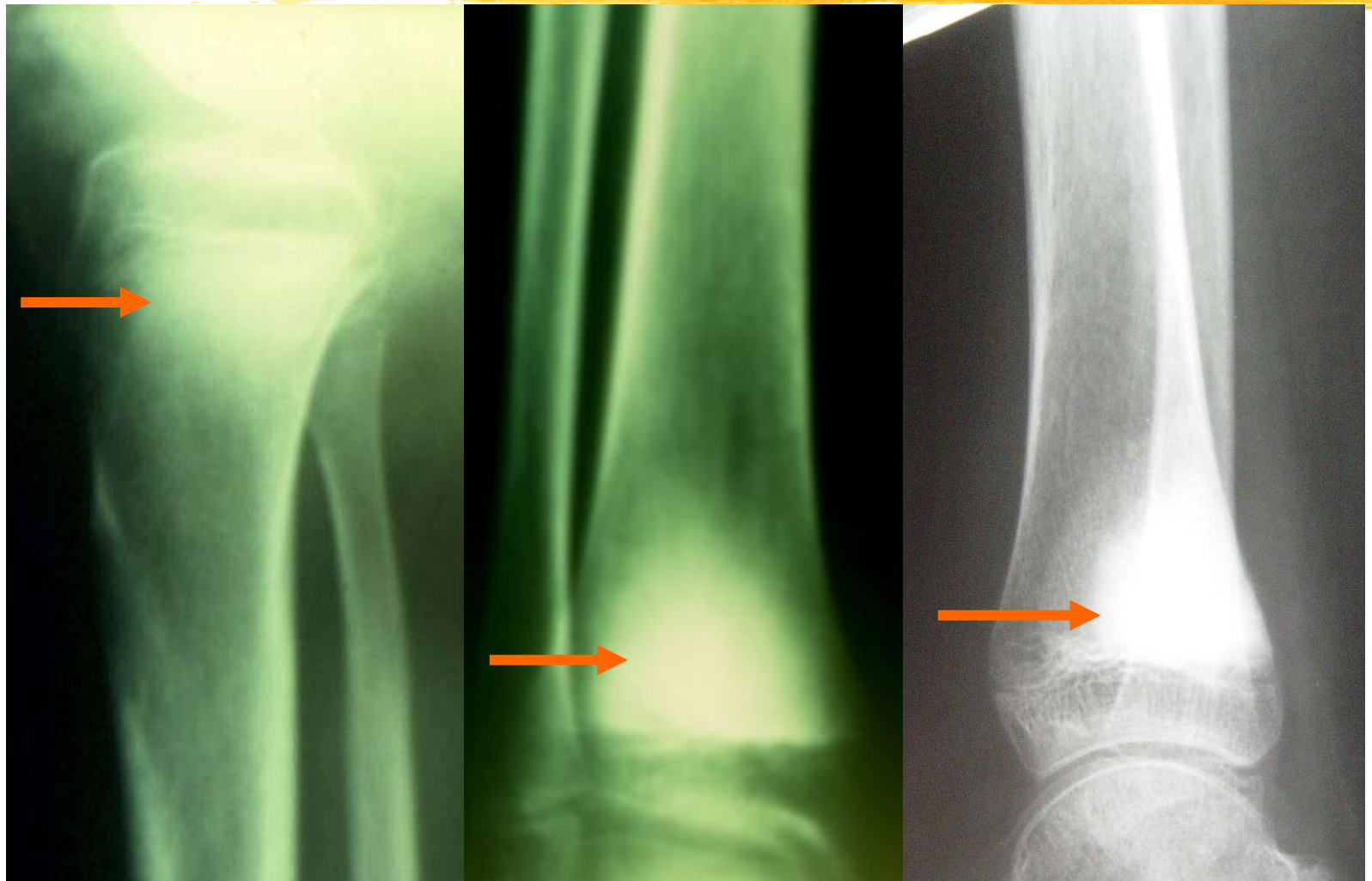
- ⌘ Huge ,warm, femoral tumor with invasion of all muscular components of the inferior thigh
- ⌘ femur seemed fractured

Huge tumor invading fast the totality of the thigh

⌘ histology : telangiectasic osteosarcoma



Examination of total body shows two locations on the tibia (same leg)



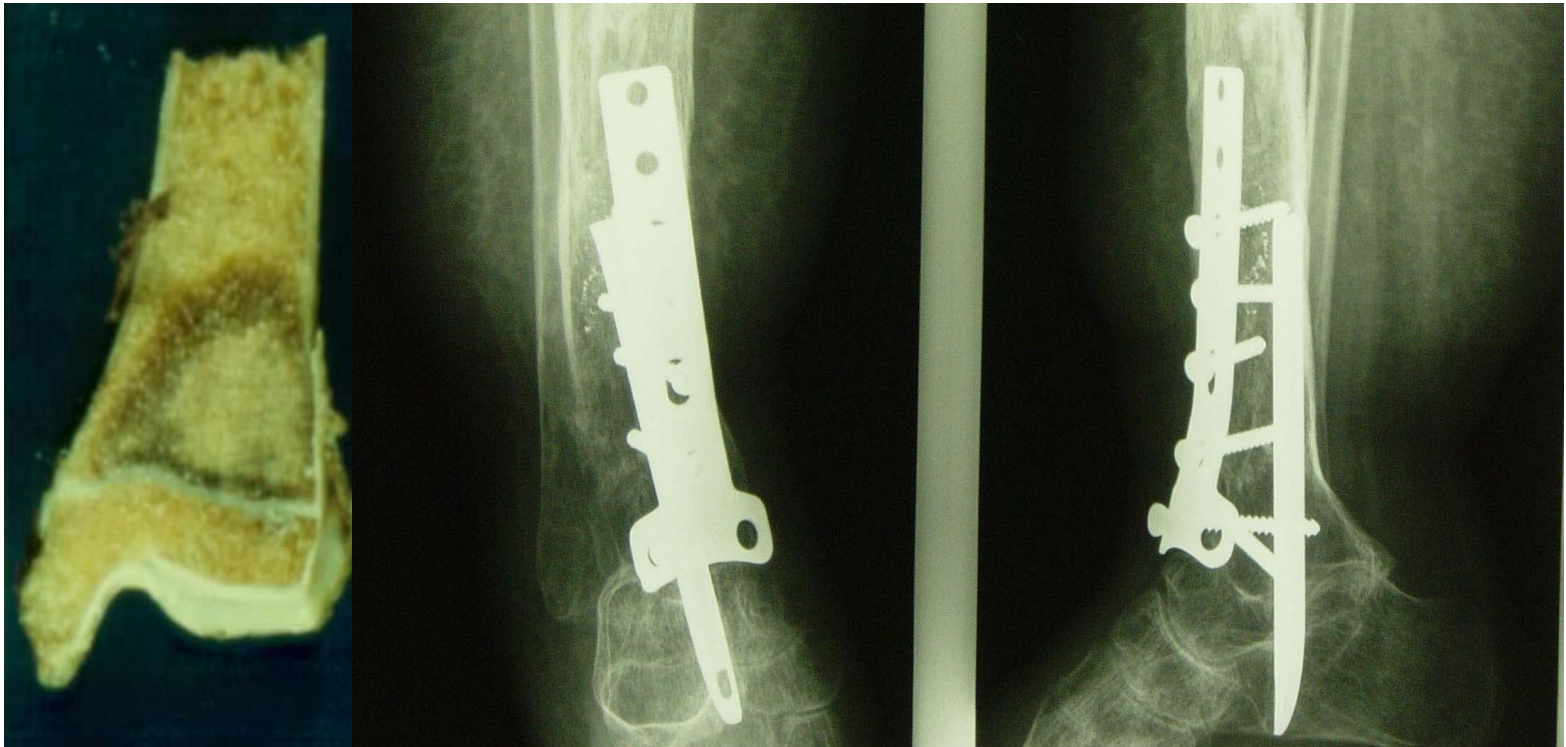
Induction by combined chemotherapy

- ⌘ high dose Methotrexate
 - ⌘ Cisplatin
 - ⌘ Adriamycine
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- ⌘ followed by en-bloc resection of femoral location and superior tibial one performed together



2 months later, following a sequence of chemotherapy

- ⌘ Inferior tibial metastasis was resected with reconstruction by bank allograft and arthrodesis of ankle



Evolution



- ⌘ Protocol of chemotherapy was completed
- ⌘ the patient is in first complete remission
- ⌘ numerous orthopedic procedures were needed for lengthening and equalising legs and for intercurrent orthopaedic complications

Results



- ⌘ Follow-up 27 years
- ⌘ this patient is free of disease
in first remission with her leg
- ⌘ she works an urgentist doctor

In the literature



- ⌘ A few other cases of multifocal cured osteosarcoma were found
- ⌘ the follow-up of our case is the longest

This case demonstrates:



- ⌘ multifocal osteosarcoma is curable with an effective chemotherapy protocol and systematic en-bloc resection of all bone locations
- ⌘ even in this situation amputation can be avoided
- ⌘ it confirms that multifocal osteosarcoma must receive the same curative protocols as monofocal