

# High value of initial management in localized osteosarcoma.

A monocentric retrospective analysis.

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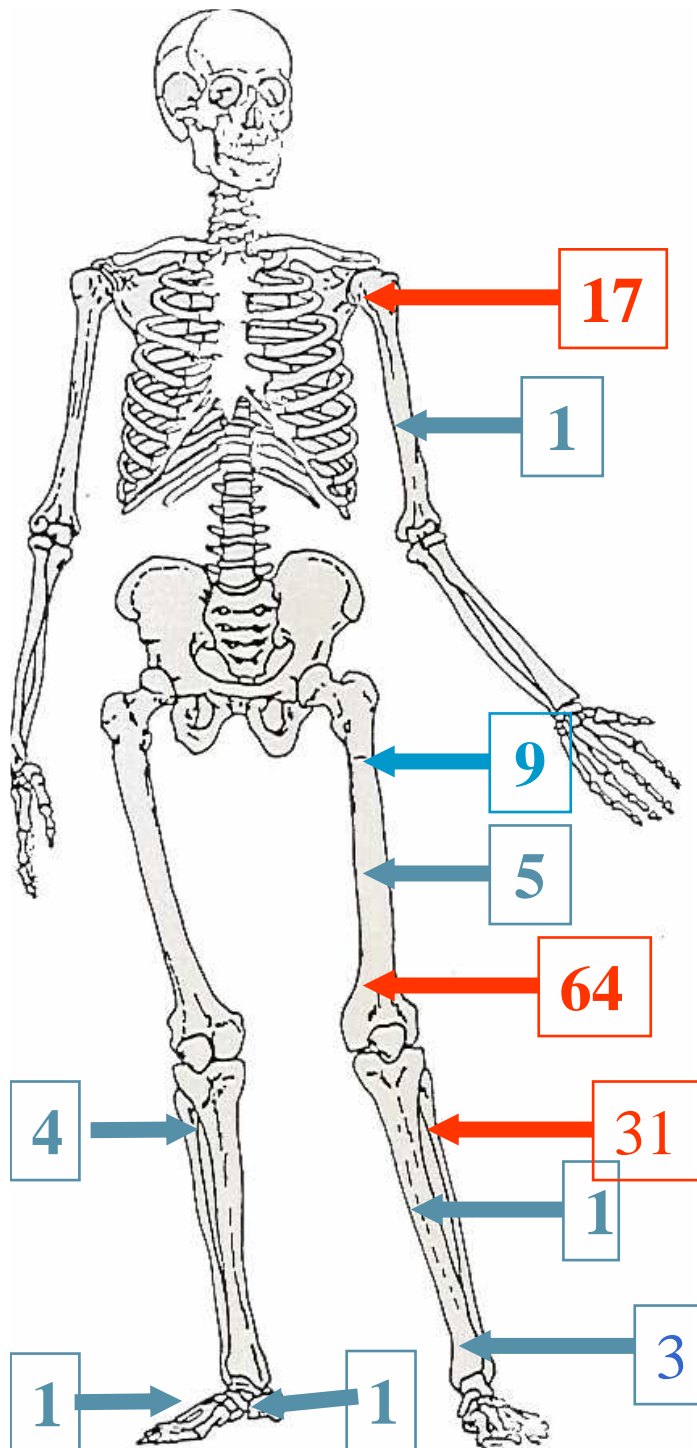
# Introduction

- Many reports attempt to identify the factors which may affect the prognosis in osteosarcoma.
- We wanted to determine whether the prognostic value technique of biopsy and/or the initial management could be a prognostic factor of long term survival and long term local recurrence risk

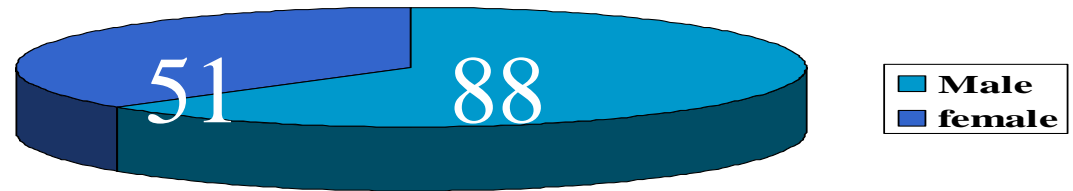
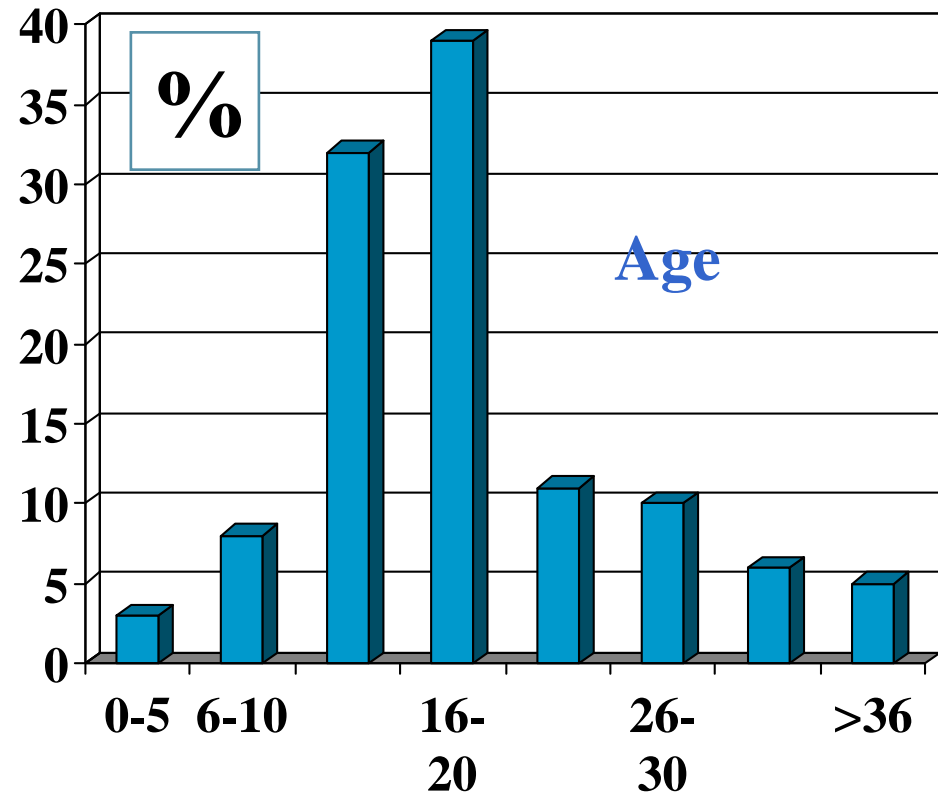


# Patients

- 139 patients (88 males and 51 females aged 4-58 years) with localized high grade osteosarcoma of the limbs were treated and/or followed up by our team between 1984 and 1998.



# Patients





# Initial management

- 55 patients had the biopsy performed by the surgeon of the team after local evaluation of the tumor and planning of future en bloc resection.
- 84 other patients were referred to us after biopsy or/and induction therapy. No significant differences in initial prognosis factors were observed between the two groups

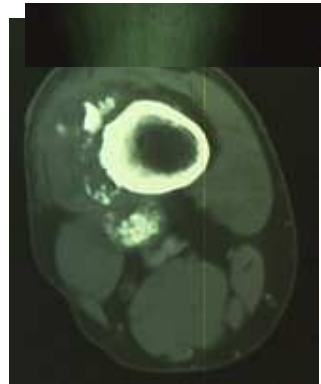
# 55 patients had the biopsy performed by the surgeon of the team



1) Tumor of distal femur



2) local screening

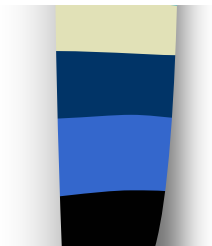


3) planning of resection



4) Short incision

- after local evaluation of the tumor and planning of future en bloc resection.



# 84 other patients were referred to us after biopsy



# 3 patients were primarily amputated

- all in referred patients
- among them 2 seen after inadapted biopsy



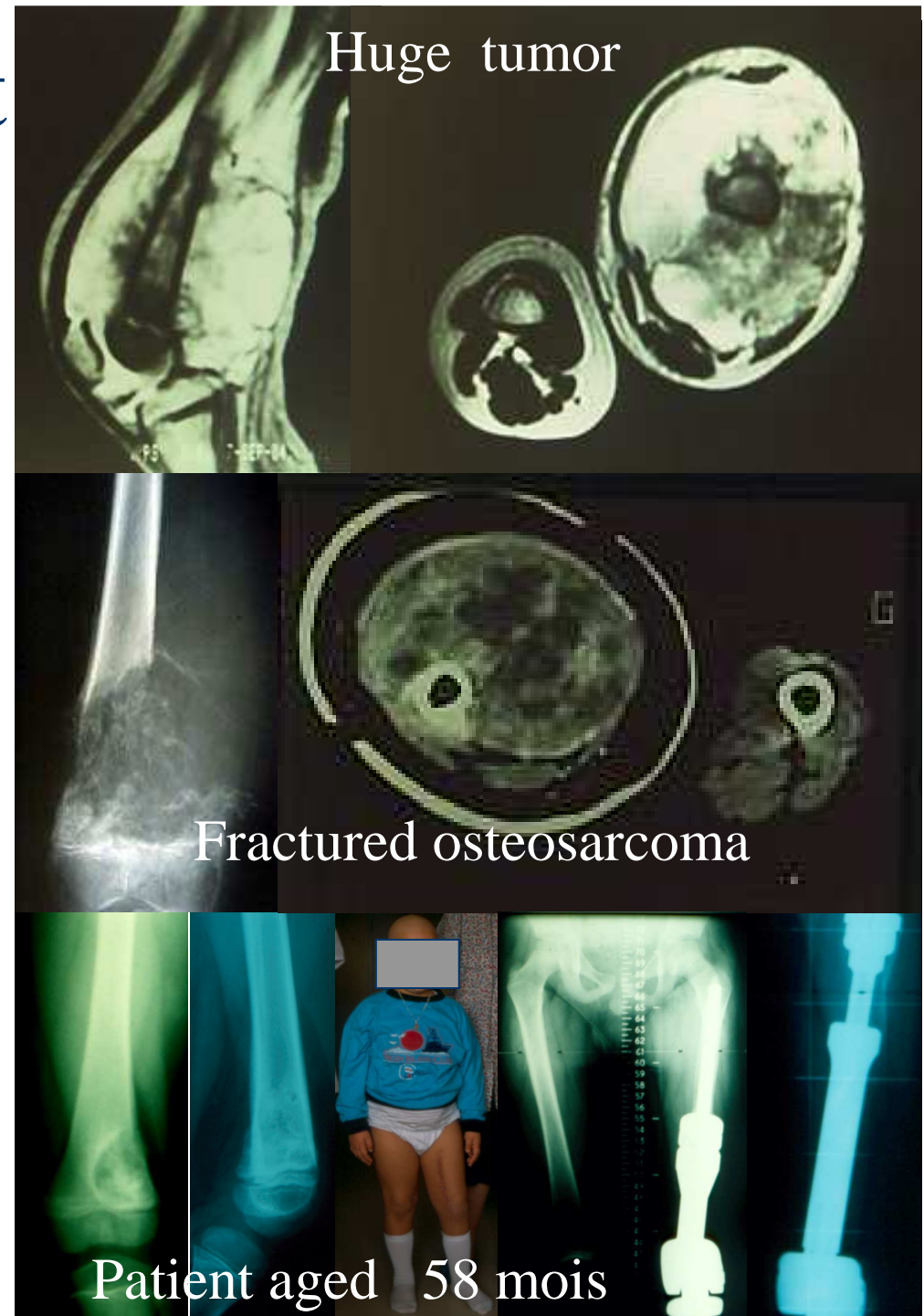
huge tumor with  
skin and vascular  
invasion





# Local treatment

- All the 136 others were treated by limb salvage even for
- fractured or
- huge tumors
- or in very young patients





# Method

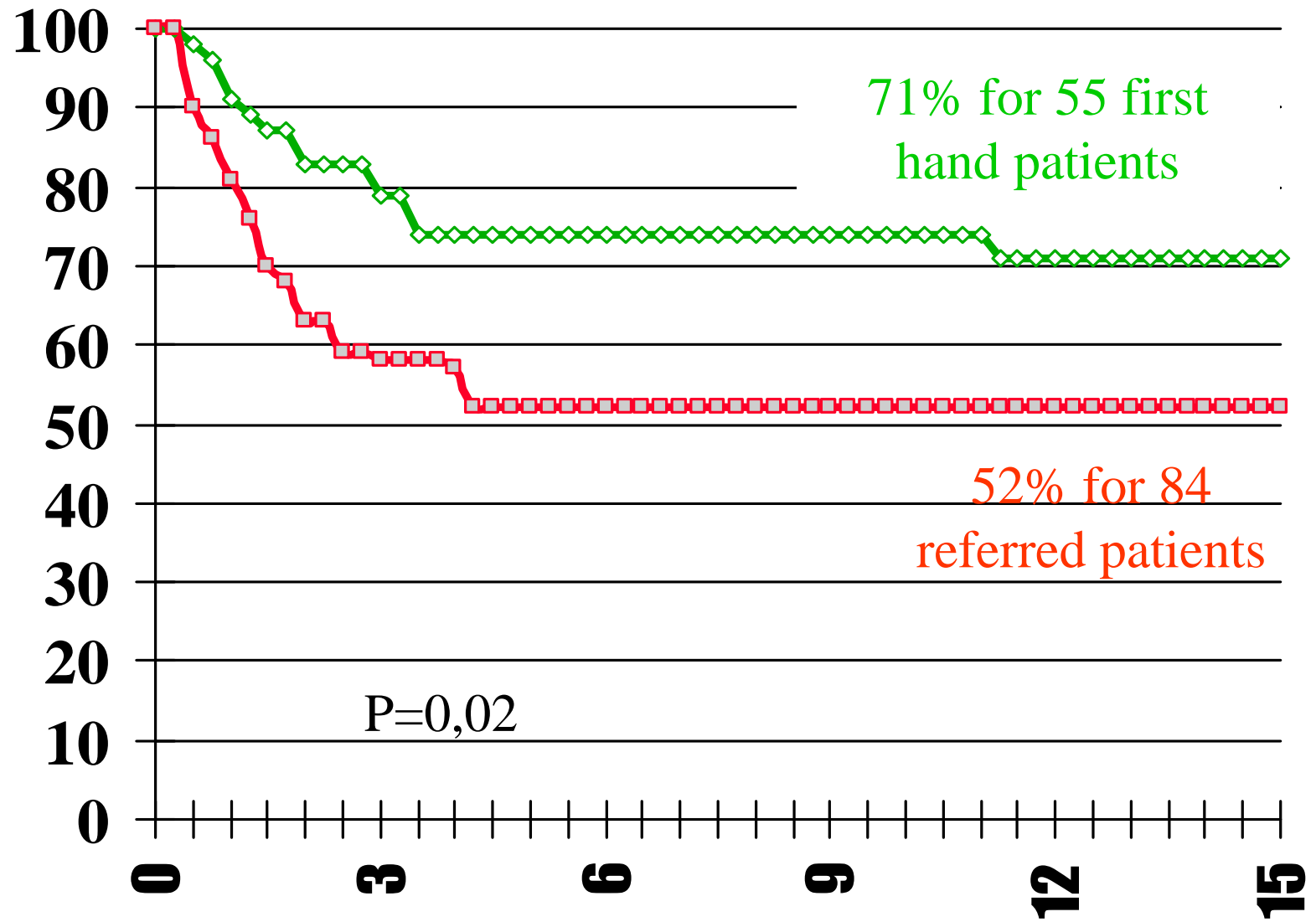
- All patients received preoperative and postoperative chemotherapy according to the current protocols at the time of their treatment.
- All patients were followed up by their surgeon and their chemotherapist every 3 months during 2 years, then every 6 months for 2 other years and yearly thereafter.



## Results : Local control

- With a median follow up of 15 years (maximal 23 – minimal 10)
  - 13 local recurrences were observed :  
11/84 (13 %) in referred patients and
  - 2/75 (2.6 %) in first hand patients.

# Survival





# Conclusion 1

- Initial management by an experienced team is of crucial importance in long term survival of patients with localized high grade osteosarcoma of the limb..



## Conclusion 2

- When the diagnosis of osteosarcoma can not be excluded on prebiopsy medical imaging of bone tumor, the patient should be referred, before biopsy, to team experimented in bone tumor oncology.