

***PRONOSTIC VALUE OF INITIAL
MANAGEMENT IN LOCALIZED
OSTEOSARCOMA.
A MONOCENTRIC RETROSPECTIVE
ANALYSIS.***

***Delepine F., Delepine G.,
Nicole Delepine***

www.nicoledelepine.fr

Service d'Oncologie d'Adolescents et d'Adultes Jeunes

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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 technique of biopsy and/or the initial management could be prognostic factor of long term survival.



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Patients

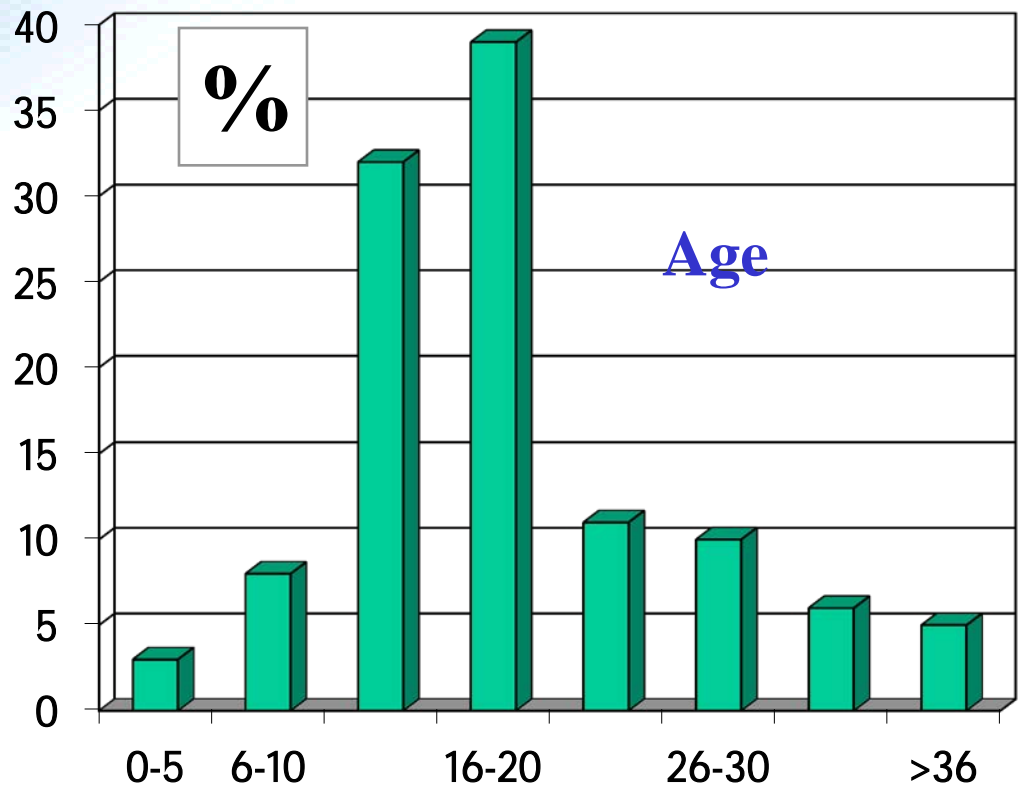
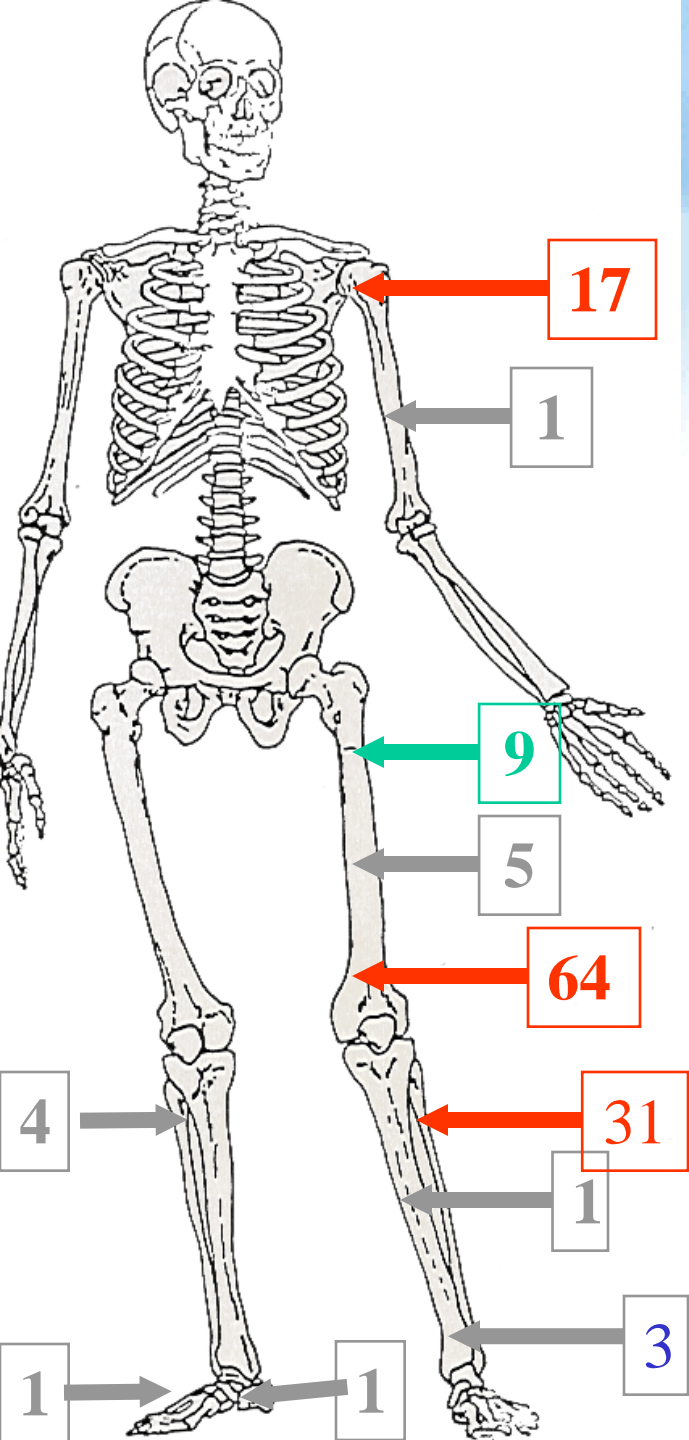
139 patients (88 males and 51 females aged 4-58 years) with localized osteosarcomas of the limbs were treated and/or followed up by our team between 1984 and 1998.



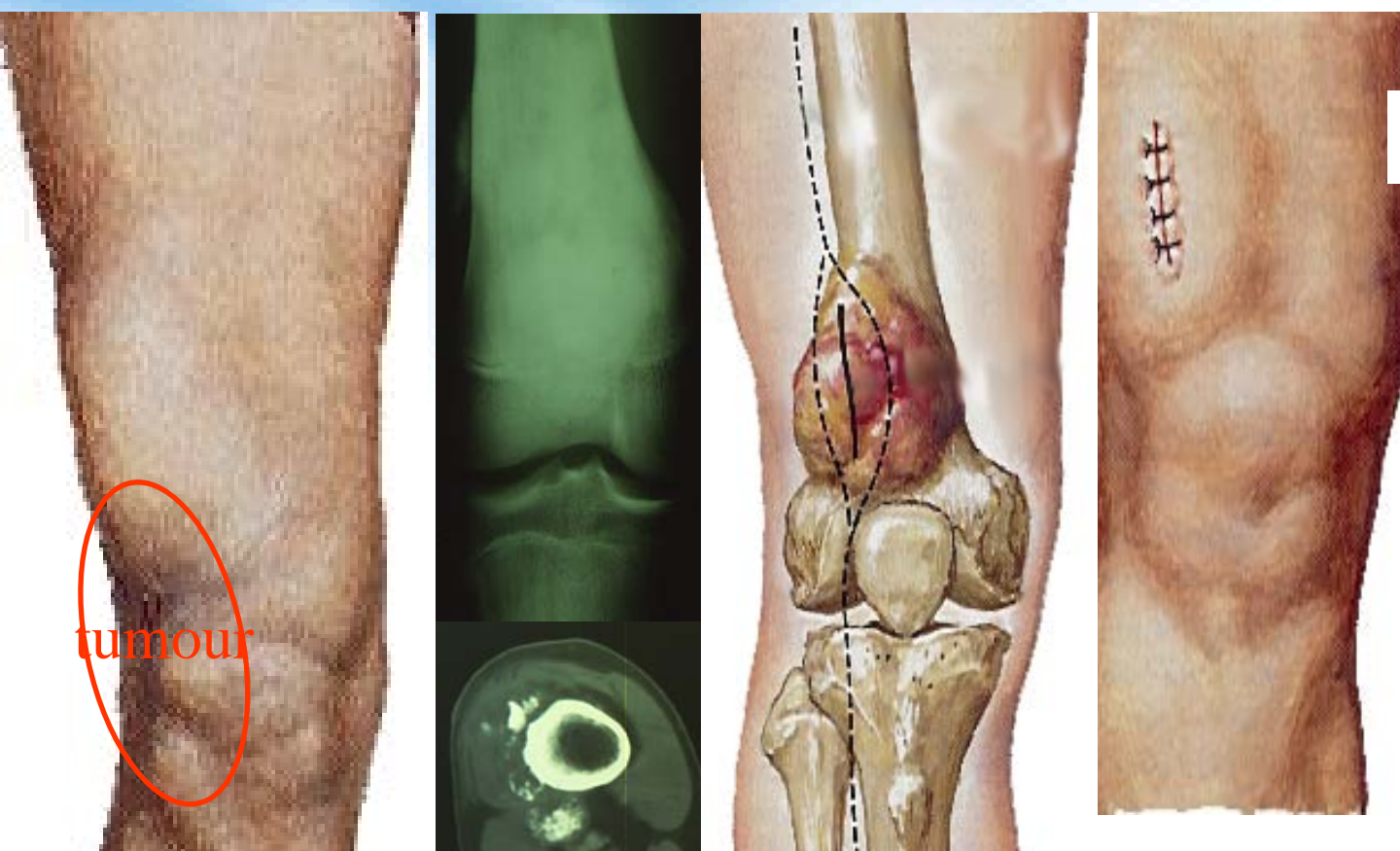
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Initial management of Patients 1

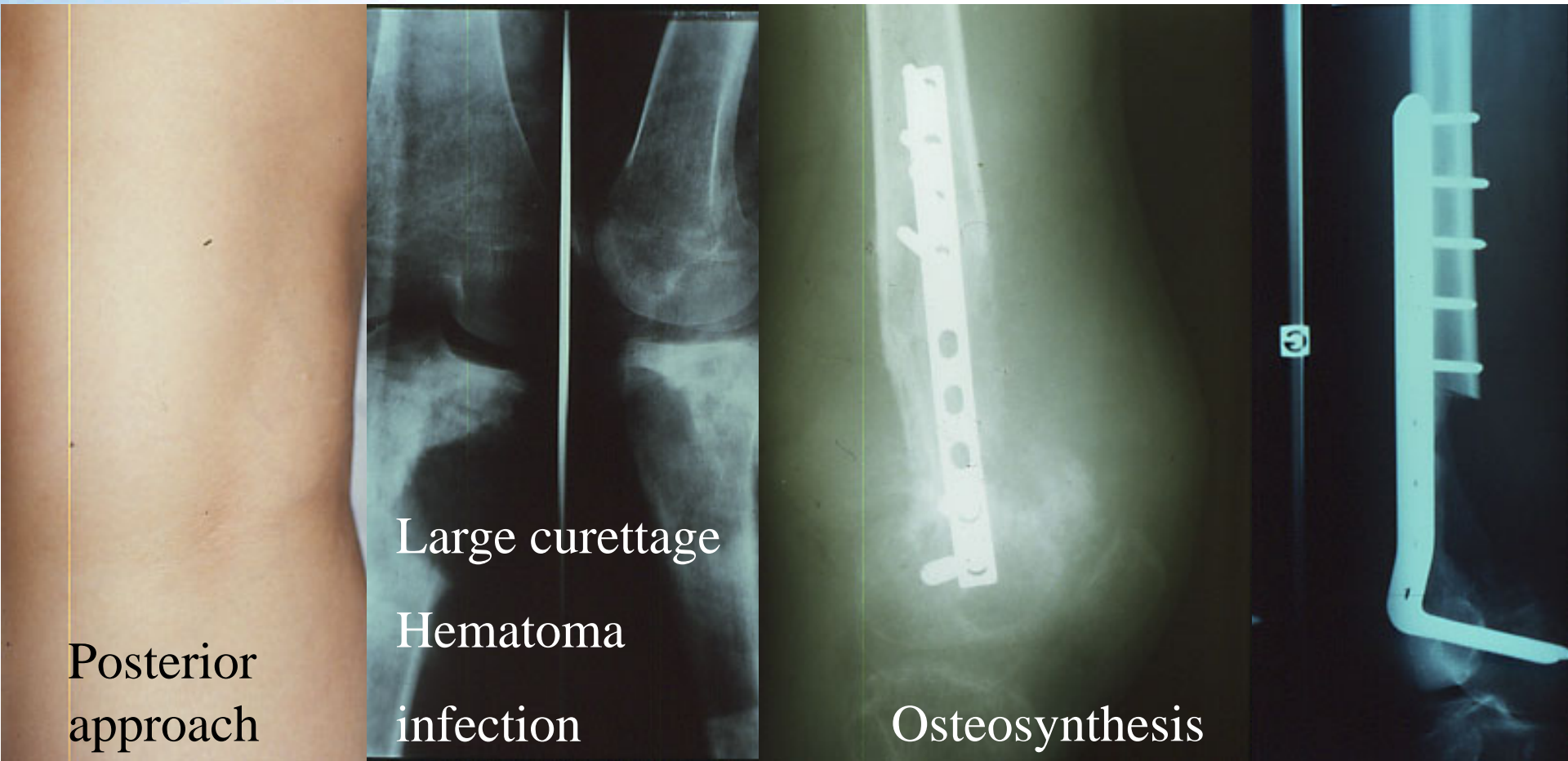


- 1) local screening
- 2) Planning the resection
- 3) Choose the biopsy approach
- 4) short straight incision

55 first hand patients had the biopsy performed by the surgeon of the team after local evaluation of the tumor and planning of future en bloc resection.

Initial management of Patients 2

The 84 other patients were referred to us after biopsy or/and induction therapy.



Initial prognostic factors

*No significant differences
in initial prognosis
factors were observed
between the two groups.*



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Method

All patients received preoperative and postoperative chemotherapy according to the current protocols at the time of their treatment.



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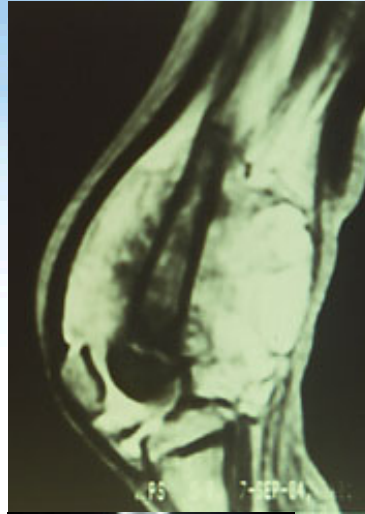
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3 patients were primarily amputated
All for initial inadapted biopsy

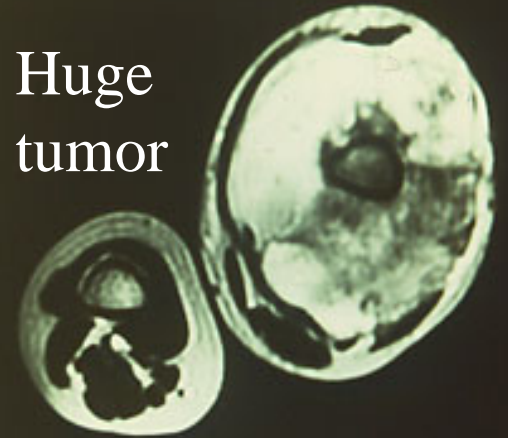


Local treatment

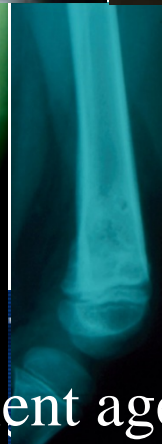
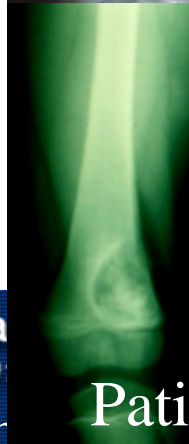
The 136 other patients were treated by limb salvage even for fractured or huge tumors and in very young patients.



Huge tumor



Fractured telangiectasic osteosarcoma



Patient aged 58 months



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Pronostic value of initial management

Follow up protocol

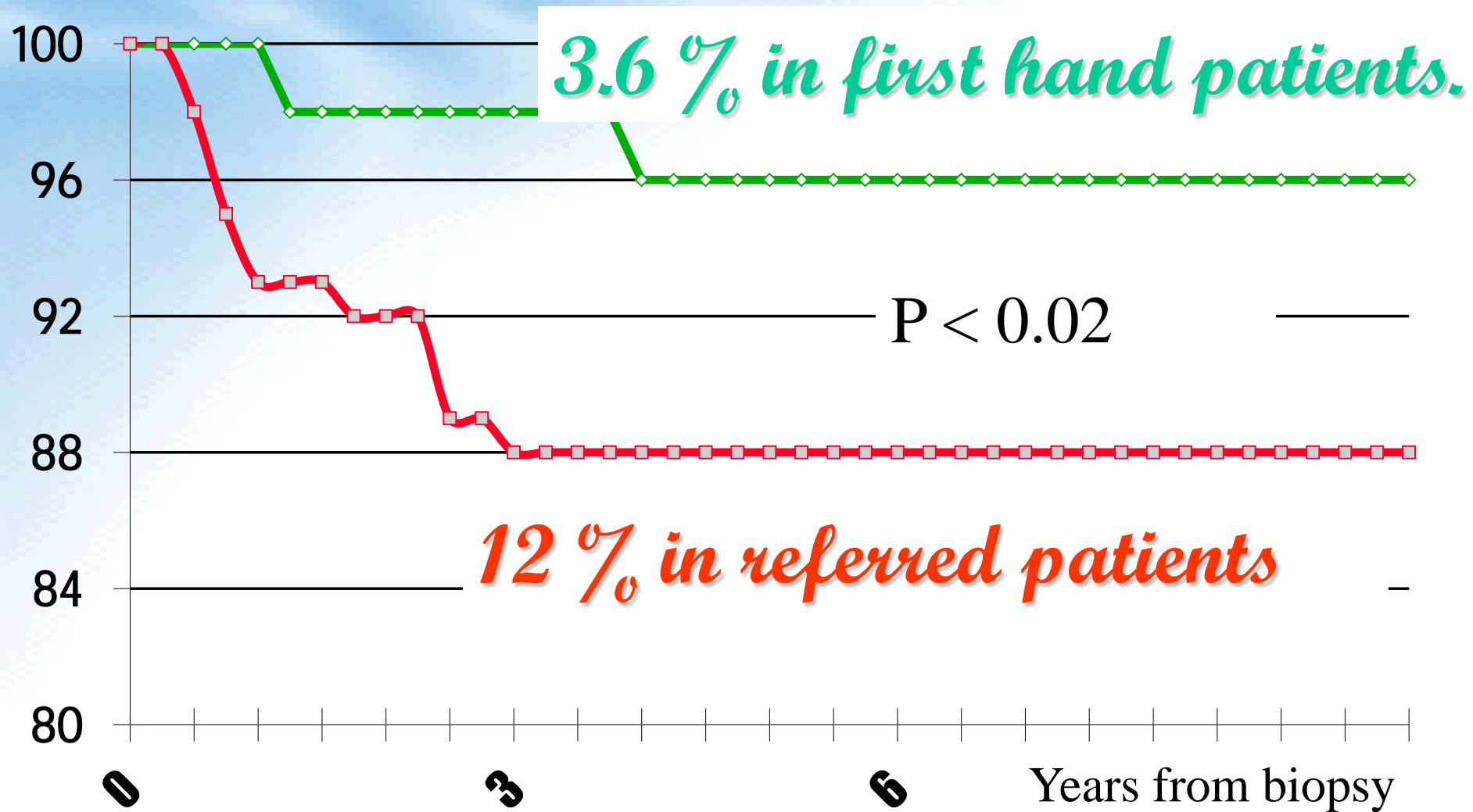
*All patients were follow up by their surgeon and their chemotherapist every 3 months during 2 years, then every 6 months for 2 other years and yearly thereafter.
median follow is 10 years
(maximal 16 – minimal 2)*



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Local recurrence risk



Disease free survival

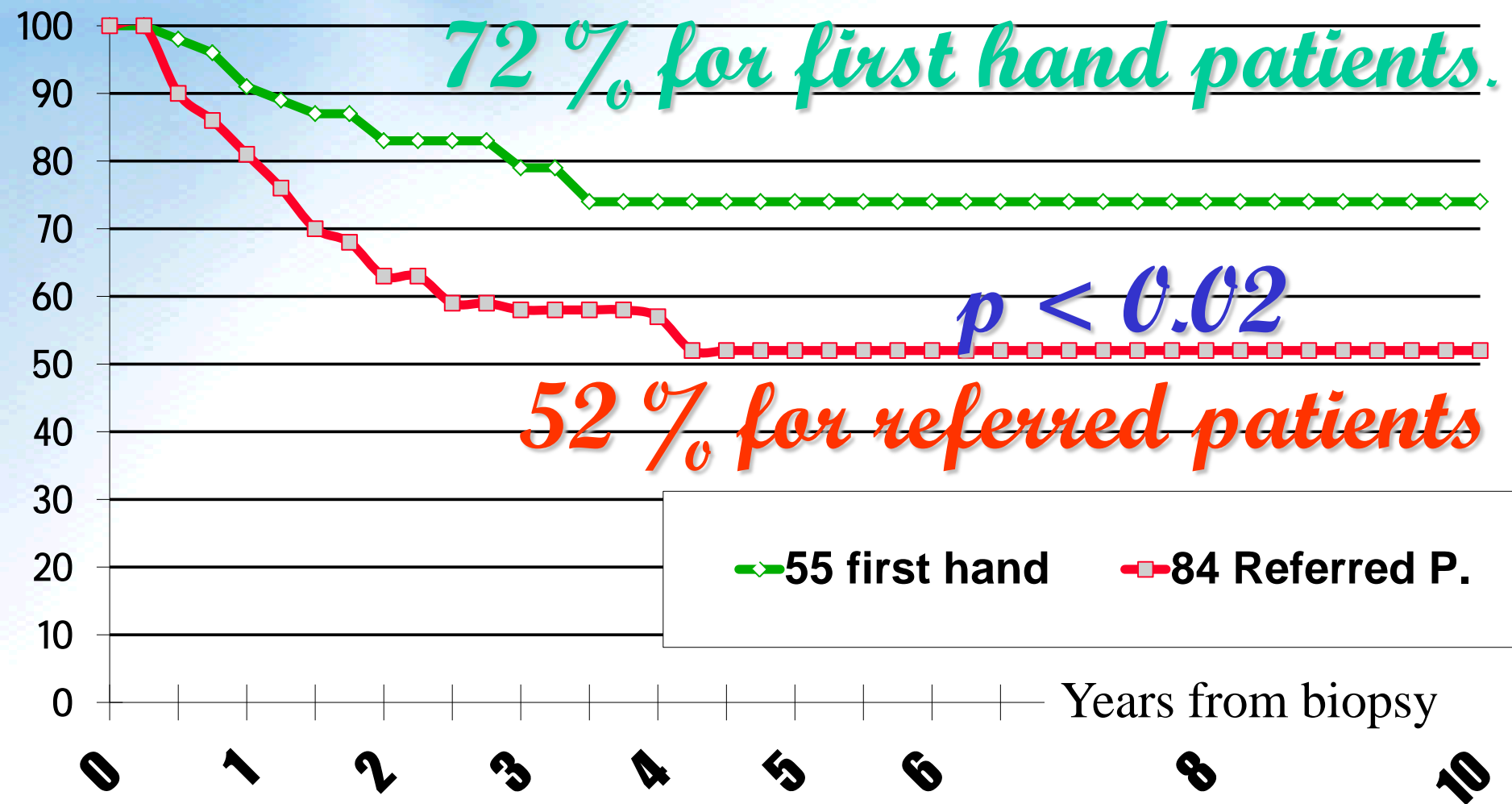
54 % (46/84) of referred patients are alive in remission compared to 73 % (40/55) of first hand patients (93 % for first hand patients treated by our protocols since 1/1986).



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Actuarial Disease free survival



Conclusion 1

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



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Conclusion 2

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



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The Hazards of the biopsy.

inadequate biopsies :17.8%

10.1% loss of disease free expectancy

3% patients had to be amputated has a consequence of inadapted biopsy.

No progress has been seen when comparing to the comparative study perform in 1982 ????