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ISOLS 2019

20th General Meeting of International Society of Limb Salvage

Athens

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Delepine F¹, Delépine G, ¹ **Clinique du parc imperial 06000 Nice Fran Objectives**: Internal hemipelvectomy followed by acetabulum reconstruction is a very demanding procedure. In published series, 5-year life expectancy rarely exceeds 50%. So,

very few reports give long term results. We present long-term results with composite innominate prosthesis with total hip prosthesis in 23 patients.

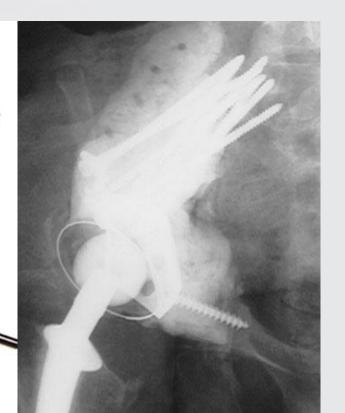
Very long-term follow-up of composite

prostheses after periacetabular resection

The hand on innominate prosthesis

described in 2003 (Sarcoma 2003 7,19-27) is made of a titanium cup, a set of long titanium screws and 2 or 3 packs of antibiotics loaded cement.





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Patients



Solitary metastase from kidney carc.



Patient aged 45 years solitary metastase from kidney. primary tumor resected. Metastase primarly treated with radiotherapie.progressive disease. Resection 18Y FU.
1 reoperation for polyethylene wear.

Between 1990-2007, 84 patients with peri acetabular bone sarcoma (40), or metastases (44) were treated by internal hemipelvectomy followed by this reconstructive procedure.
 Resections included 4 zone 2, 6 zone 2+3, 9 zones 2+1, 3 zones 2+1+4, and 1, zones 1+2+3.

Only 23 survivors (20/40 sarcomas, 3/44 metastases) could be followed more than 10 years. Histology : CS: 8, OS : 5, Ewing: 5, MFH: 1, anaplasic :1, renal cell carcinoma 2, thyroid 1.

Postoperative complications included 1 deep infection (before we used vancomycin loaded cement), 6 hip prosthesis dislocations (26%) (retentive cup is mandaratory), 2 neurologic palsies.

Thyroid Carcinoma.

Treatment of liac lesion with composite proshesis. 18 years after resection : No length discrepancy excellent acceptance,flexion 110° illimited walking without support .Little pain.



Grade 1 Chondrosarcoma



With a **Median FU 18,5 years** (133- 301 months)17 p (73 %) had to be re operated. Late complications were 2 deep infections, 8 polyethylene wears and 8 loosenings (5 iliac, 3 femoral).



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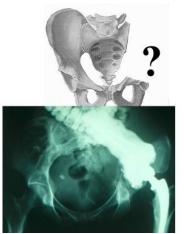
Results

The mean functional result, rated according modified Ennecking's grading system, was 80%. Result similar to those described in the literature for custom made innominate prosthesis and better than those of published alternative reconstructive procedures.

Conclusions. The **immediate weight bearing** and the **durability** of **such procedure plea for using it after acetabulum resection of zone 2 and 3 (**we did not observed any loosening of the iliac reconstruction).

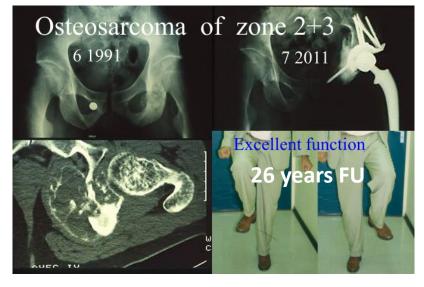
Such a procedure can also be used after total iliac wing resection even when including zone 4. But in this location loosening is frequent and pleas for reinforcing the reconstruction with the head and neck of femur when

there are free of tumor as advocated by Puget.











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