

Treatment of Total Shoulder Arthroplasty with Septic Glenoid Bone Loss with Graftys® HBS Bone Void Filler

Patient: 75 years old male



Case Presentation

Y - patient undergoes left humeral head replacement for posttraumatic necrosis
 Y + 2 years -Revision for painful glenoid arthritis: glenoid component implantation
 Good clinical results for thirteen years
 Y + 15 years - patient develops a septic glenoid loosening

Treatment

February:

- Removal of glenoid polyethylene component and humeral prosthesis
- Reconstruction of the glenoid defect with tricortical iliac crest bone graft
- Anticipation of large volume of cavitory bone loss behind glenoid component
- Fixation of iliac crest graft with 2 resorbable screws after filling through screw holes with Graftys®HBS

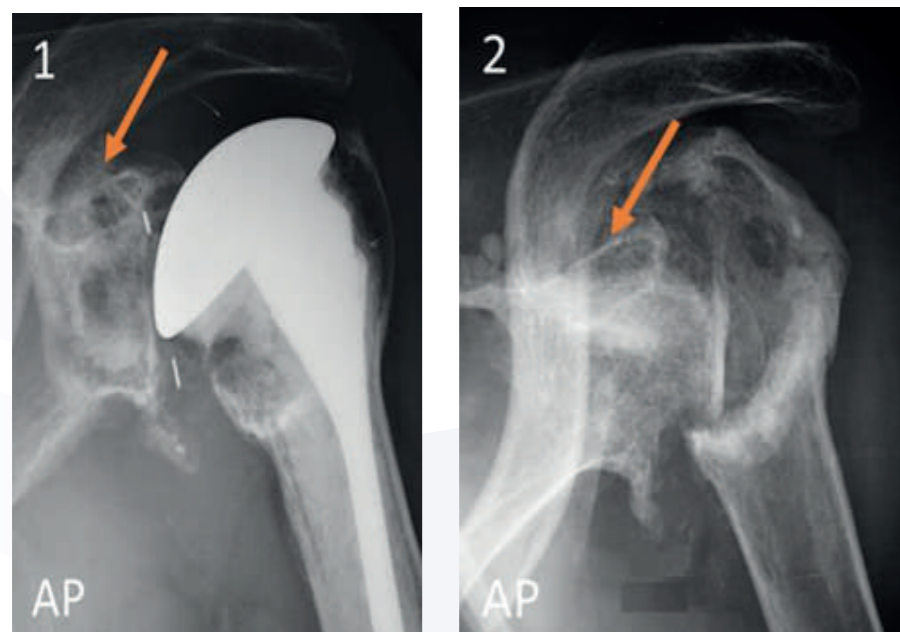
September: 7 months after

- Revision with total shoulder arthroplasty

Outcome

- 7 months after prosthesis removal, before reimplantation, x-rays demonstrate a continuous bony interface between bone and Graftys® HBS; No pain with active forward flexion to 80° at 7 months postoperatively;
- 20 months after reimplantation, the patient has a Constant score of 12 + 14 + 26 + 6.

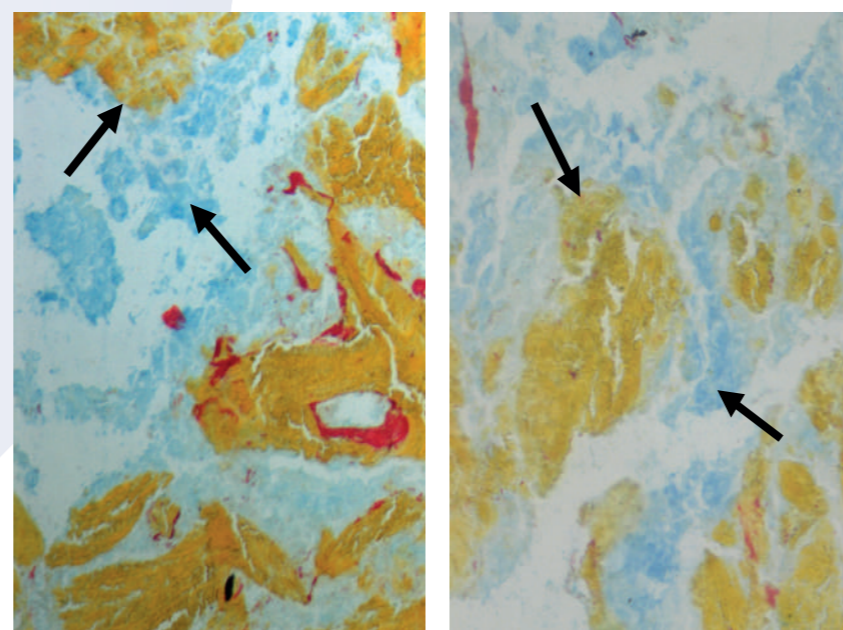
Before implementation



Pre-operative x-rays

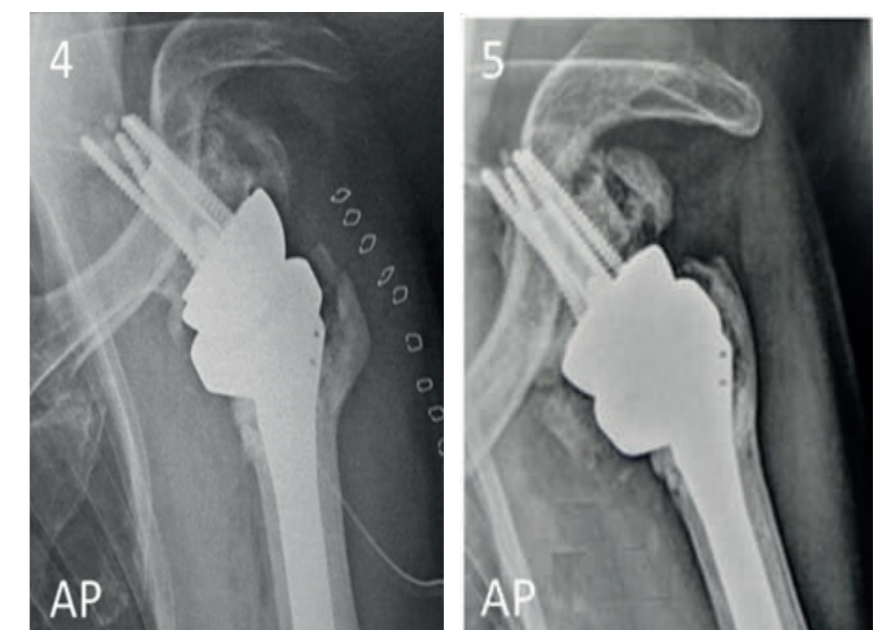
7 months post-op x-ray x-rays

Biopsy during implementation



Biopsy and histological analysis

After implementation



7 months post-op x-ray x-rays

20 months post-op x-ray x-rays