

## Rapid Fire Papers 1

### [O40] RESULTS OF TREATMENT OF SEPTIC ARTHRITIS OF THE HIP WITH AN ANTIBIOTIC-LOADED CEMENT SPACER

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**Aim:** Septic arthritis of the hip is a rare entity among the adult population, but with a potential severe repercussion. The most accepted treatment is the hip debridement, even though a notorious proportion of the cases need further hip replacement owing to the cartilage destruction. The aim of this study is to analyse all our cases of septic arthritis of the hip treated with a 2-stage strategy using an antibiotic-loaded cement spacer.

**Method:** We present a retrospective review of all our cases of septic arthritis of the hip diagnosed between 2004 and 2016 that were treated with an antibiotic-loaded cement spacer. We analysed age, gender, comorbidities, aetiology, duration of symptoms, C-reactive protein values, erythrocyte sedimentation rate, initial treatment, cultures, definitive treatment and evolution.

**Results:** A total of 14 cases were included with a mean age of 47 years: 8 men and 6 women. The aetiology of the arthritis was: haematogenous in 8 cases, after osteosynthesis in 5 cases and after arthroscopy in 1 case. An initial debridement was performed in 6 cases whereas the spacer was directly implanted in 8 cases. The cultures were positive for: *Staphylococcus aureus* (4 cases), *Candida albicans* (2 cases), *Staphylococcus epidermidis* (1 case), *Pseudomonas aeruginosa* (1 case), *Enterococcus faecium* (1 case), *Serratia marcescens* (1 case), *Streptococcus dysgalactiae* (1 case), *Salmonella spp* (1 case) and negative in 2 cases. The evolution was: total hip arthroplasty in 10 cases, spacer preserved in 2 cases, pending of hip replacement in 1 case and exitus in 1 case. All cases presented negative cultures at the moment of implantation of the definitive prosthesis.

**Conclusions:** A 2-stage strategy using an antibiotic-loaded cement spacer prior to the definitive hip prosthesis is a good treatment for the septic arthritis of the hip in cases with important cartilage destruction.