LONG-TERM RESULTS FROM THE USE OF A PRE-FABRICATED ARTICULATING ANTIBIOTIC-LOADED CEMENT SPACER IN TWO-STAGE REVISIONS FOR INFECTED TOTAL HIP REPLACEMENTS.

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INTRODUCTION

- Hip arthroplasty is amongst one of the most common procedures carried out in the NHS.
- Approximately 1 in 100 patients undergoing hip or knee replacement surgery will develop a prosthetic joint infection.
- This carries a considerable burden of morbidity and mortality on the NHS.
- Pre-fabricated articulating antibiotic-loaded cement spacers can be used in the treatment of infected total hip replacements, but there remains little long-term data to support their use.
- We carried out a retrospective study to analyse long term results of the use of the 'Spacer G' antibiotic loaded implant in two-stage revision surgery at our unit.

METHODS

- 29 patients with infected hips (28 primary THRs, 1 revision THR) underwent a two-stage revision for prosthetic joint infection between June 2011 and October 2020.
- All patients had the Spacer G
 articulating pre-fabricated cement
 spacer (loaded with gentamicin and
 vancomycin) utilised in the first of a
 two-stage revision for infection.
- We analysed the patient data, the infection status, and our primary endpoint was to assess how many patients developed recurrence in our follow up data.

Xray prior to 1st stage



1st stage revision with Spacer G implant



2nd stage revision

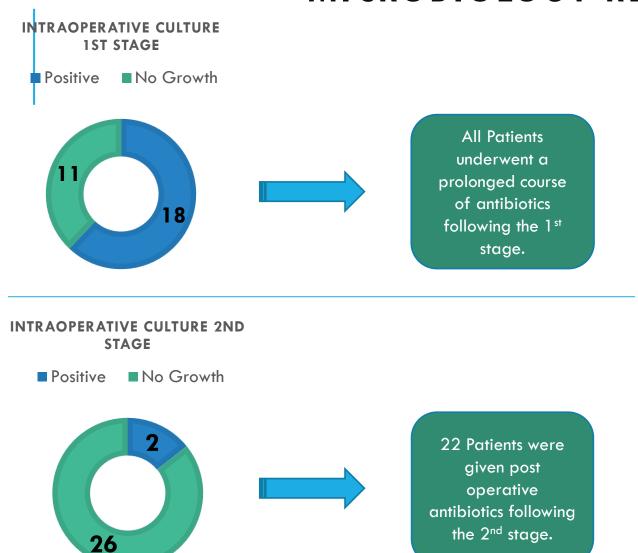


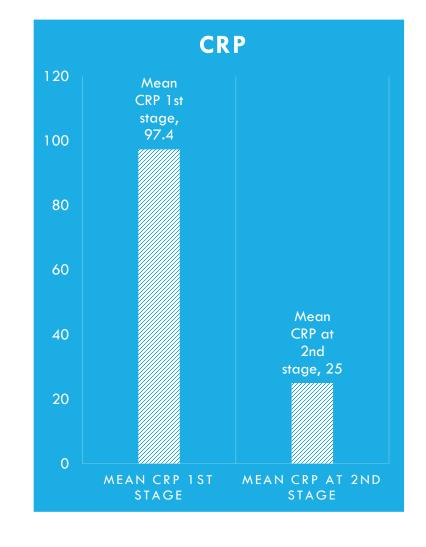
2 year follow up.



RESULTS INFECTED PROSTHESIS ■ Primary THR Revision THR Median age at first stage surgery was *7*1. 66% Mean time between the 1st and 2nd stage was 24 weeks With a range of 4-82 weeks Follow Up period Range (months) Mean 50.5 112 28 patients had 8 patients passed completion to 2nd 21 patients alive away a mean of 60.3 29 Patients identified stage. 1 patient died months after the first today prior to 2nd stage. stage.

MICROBIOLOGY RESULTS





Patient Outcome

- There was only 1 Complication-Patient sustained a dislocation of the Spacer G implant and required an open reduction.
- For the Duration of follow up. 27
 from the 28 patients who completed
 the 2-stage revision procedure
 remained infection free.

Conclusion

- Pre- Fabricated antibiotic-loaded articulating cement spacers can be useful when managing infected total hip replacements.
- Our long term follow up data demonstrates that there is a low complication rate and that the procedure can facilitate long-term infection control.
- Thankyou.