



ABSTRACT BOOK Short Free Papers

Date: 2018-10-11 Session: Trauma Free Papers (Lower Limb) Time: 08:00 - 10:00 Room: Room 517d

Abstract no.: 52698 KEY NOTE LECTURE: PERIPROSTHETIC FRACTURES AROUND THE KNEE

Conjeevaram B MAHESHWER , . (UNITED STATES)

Date: 2018-10-12 Session: Infections Free Papers (I) Time: 08:00 - 10:00 Room: Room 522a+b+c

Abstract no.: 52529 REVIEW OF STIMULAN USE IN BONE INFECTION AND ITS OUTCOME Newton AYLA¹, Ibrahim Ahmed Khalil IBRAHIM², Matthew SEAH¹, Stephen MCDONNELL¹ ¹Cambridge University Hospitals NHS Trust, Cambridge (UNITED KINGDOM), ²Cambridge University Hospitals NHS trust, Cambridge (UNITED KINGDOM)

Local release of antibiotic has advantages in the treatment of bone and joint infections. Adequacy of surgical debridement is still key to successful clearance of infection but addition of local antibiotics seems to afford greater success rates by targeting the residual organisms and delivering much higher local antibiotic concentrations than systemic antibiotics alone. Biodegradable ceramic carriers can be used to fill osseous defects, which reduces the dead space and provides the potential for subsequent repair of the osseous defect as they dissolve away. They also raise the possibility of single stage surgery with definitive closure and avoidance of subsequent surgery for spacer removal. There are only a few commercially available antibiotic carriers licensed for the treatment of osteomyelitis. Of these, Stimulan (Biocomposites, Keele, UK) does not contain antibiotics and is mixed with antibiotics at the time of implantation but this is currently considered offlabel usage. We described a series of 199 patients who had vancomycin-loaded Stimulan as part of their management. Indications included chronic osteomyelitis, prosthetic joint infections and open fractures. Hematological parameters, eradication of infection, rate of infection recurrence and reoperation rate were evaluated during the follow-up. The rate of wound drainage in this series was 4.5% and was generally in cases using higher bead volumes. Our data suggests that vancomycin-loaded Stimulan is an acceptable delivery tool for local antibiotic delivery in the treatment of bone infections. Further studies are needed to examine the potential of improving bone and joint infection outcomes with this particular local antibiotic delivery system.