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# ABSTRACT BOOK

## Posters

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**SAFETY OF PRESCRIBING ANTIBIOTICS DELIVERED LOCALLY VIA ANTIBIOTIC CARRIER IN BONE AND JOINT INFECTIONS**

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Local release of antibiotic has advantages in the treatment of chronic osteomyelitis, infected metalwork and open fractures. They aim to target the residual organisms present after debridement and wash out by delivering much higher local antibiotic concentrations compared with systemic antibiotics alone. There are currently few commercially available antibiotic carriers licensed for the treatment of osteomyelitis. Stimulan (Biocomposites, Keele, UK) does not contain antibiotics and is mixed with antibiotics at the time of implantation. The addition of antibiotics to Stimulan is considered off-label usage in Europe. We describe a consecutive series of 199 patients who had Stimulan as part of their management of bone and joint infections. We assessed how safely the added antibiotic was prescribed by looking at percentages of notes that included the type and dose of antibiotic. Of 199 patients 143 (72%) had the antibiotic type included in the operation note, with a smaller percentage actually having the dose of each antibiotic included. None of the patients had the local antibiotics prescribed on the drug chart. In one patient there was documentation of teicoplanin allergy where it was given locally intra-operatively. Our study suggests that there is vast room for improvement in the safety of local Stimulan prescribing intra-operatively. We suggest that all antibiotics given locally intra-operatively should be documented in the operation note & also on the drug chart. Further studies are needed to examine which antibiotics would be the most effective option to be delivered locally depending on the common causative organisms and sensitivities.