Advantages of Biodegradable composite in management of Chronic Osteomyelitis

Author: Dr Avinash Kumar Co-Author: Dr Rajesh Pareek
Department of Orthopedics
Dr D Y PATIL MEDICAL COLLEGE

RESULT
Infection was eradicated in a single surgery procedure and the pellets started dissolving by 2 weeks and were completely resorbed by 8 weeks with new bone formation seen on Xray by 3 months.

MATERIAL AND METHOD
Osteomyelitis of the lower limb was thoroughly debrided and vancomycin coated calcium sulphate pellets were used to fill the dead space. Patient was followed up every 2 weeks for first 3 months and then every month for the next 6 months. A check x-ray was done at every follow up.

DISCUSSION
Use of local antibiotics in the treatment and prevention of osteomyelitis is safe and effective. It’s advantages over systemic therapy include tremendously higher concentrations of antibiotics at the desired sites. The majority of current treatment modalities require a second procedure for removal of the antibiotic delivery device. Biodegradable composite holds promise in their ability to customize antibiotic treatment with lesser morbidity compared to PMMA.

References