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CLINICAL EVALUATION USE OF CALCIUM SULPHATE IMPREGNATED WITH VANCOMYCIN AND TOBRAMYCIN IN THE TREATMENT OF CHRONIC OSTEOMYELITIS IN CHILDREN

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Background: In the treatment of chronic osteomyelitis, the common methods in primary stage are debriding, draining and lavaging, but the clinical outcomes are not always satisfactory¹. Despite the variety of available treatment options of chronic osteomyelitis in children, including surgical procedures and antimicrobial therapy, bone infections are still a medical challenge as they are difficult to treat and cure. Aim of the work: The goals of this treatment protocol are to eradicate infection, heal the ulceration/abscess/wound, and reduce or eliminate the need for intravenous antibiotics in the treatment of osteomyelitis and complex infections of the skin and soft tissue structures.

Patients and methods: From March 2012 to October 2015 a series of 17 chronic osteomyelitis in children procedures were performed. All patients underwent surgical debridement followed by application of synthetic pure dissolvable calcium sulphate beads impregnated with antibiotics were employed.

Results and conclusion: The clinical outcome after six months amounted to successful treatment assessed as eradication of infection in 17 patients over the time of observation.