

## Stimulant In Implant Related Infection; A Case Report

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### INTRODUCTION:

Implant-related infections can be a serious and challenging issue for orthopedic surgeons, as they have the potential to cause significant morbidity and mortality. Effective management requires careful planning and long-term follow-up to enhance outcomes and reduce the risk of complications.

### REPORT:

We reported a case of 65 years old gentleman with multiple comorbid. He presented one year after the surgery reporting of right hip pain following of surgical fixation of closed intertrochanteric right femur fracture. He denied any recent trauma, falls, or discharge from the wound. Upon examination, a well-healed scar was observed over the right hip. Radiological imaging showed loosening of the helical blade screw and nail. The patient was informed about the two-stage procedure and the need for long-term follow-up.

He underwent thorough surgical debridement, removal of proximal femoral nail, intramedullary reaming with stimulant insertion. Intraoperatively noted loosening of distal screw and nail. Hence, stimulant was inserted with mixed of 1g Vancomycin and 240mg Gentamicin. Complete wound closure was done.

Patient was started on antibiotics after tissue and deep bone culture result came out and turn out *Staphylococcus capitis*. He completed 2 weeks course of parenteral antibiotics followed by oral antibiotics for another one month.

During follow up at 2 months, patient was able to ambulate using walking frame, x-ray showed complete union over right hip.

Stimulan is an absorbable calcium sulfate used primarily for infection control and dead space management.

One of its key benefits is that it is fully absorbed by the body within six to eight weeks,



Figure 1: Preoperative Xray showed loosening of nail and screws



Figure 2: Postoperative Xray showed removal of nail and stimulant insertion



Figure 3: 2 months post operative showed complete union

### .CONCLUSION:

Stimulant is one of the option used in aiding localized treatment of infections.

### REFERENCES:

1. Mereddy, P., Nallamilli, S. R., Gowda, V. P., et al(2023). The use of Stimulan in bone and joint infections. *Bone & Joint Open*