STIMULAN®

POWER TO TRANSFORM OUTCOMES

CASE STUDY

Courtesy of Mr Alan Norrish

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Clinical particulars

35-year-old male presented with recurrent periprosthetic infection after complex hinged total knee replacement (TKR), performed I year ago, to treat severe post-traumatic knee osteoarthritis. 6 months after the initial procedure he developed periprosthetic infection. Change of polyethylene, synovectomy, microorganism specific systemic antibiotics and repetitive arthroscopic lavage of the knee failed to control the infection.

Because of the knee stiffness and the compromised soft tissue condition, a revision TKR was not deemed appropriate so the decision was made to treat the infection with knee fusion.



In order to preserve the length of the leg, a two-stage approach with the induced-membrane-technique was implemented. First stage: the implants were removed, necrotic and infected bone was excised, and the knee was temporarily fused with a long Trigen nail. Normal length was preserved and the bone void filled with a PMMA spacer. Systemic antibiotics were administered. Second stage was conducted 3 months later, after clinical control of infection and normalization of CRP and ESR values. The nail was exchanged to an osteobridge nail and bone graft was harvested with Reamer-Irrigator-Aspirator from the contralateral femur. The bone graft and locc of STIMULAN beads were inserted to fill the bone void. Vancomycin and gentamicin were used to treat the infection.

Outcome

7 months' post-operatively, the infection remained controlled, the bone had consolidated, and the patient had returned to daily activities without significant restrictions or symptoms. 2 years' post-operatively, no recurrence of infection had occurred.



Presentation





First stage – Post-operative



Second stage -Post-operative



7 months

For indications, contraindications, warnings and precautions see Instructions for Use. The treating physician is responsible for deciding the type and quantity of antibiotic used. Concurrent use of locally administered antibiotics may affect setting time. The mixing of antibiotics with the STIMULAN Kit/ STIMULAN Rapid Cure device is considered off-label usage of the medicinal product. To do so is at the professional risk of the surgeon / healthcare professional. This brochure may include the use of STIMULAN or techniques that go beyond the current clearance/approval granted by the relevant regulatory authority. Please contact your local representative for further information.

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