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First Case of Calcaneal Brodie's Abscess Caused by *Fusobacterium Nucleatum* in an Immunocompetent Adult

Subacute calcaneal osteomyelitis is a challenging condition with a high relapse rate. This case report presents the first documented instance of subacute osteomyelitis of the calcaneus caused by *Fusobacterium nucleatum*, manifesting as post-traumatic heel pain in a 24-year-old male. The patient presented with heel pain following a fall, with no history of penetrating injury or immunosuppression. Imaging (Radiograph/CT/MRI) revealed a growing lytic lesion with surrounding bone marrow edema in the calcaneum. Surgical drainage and debridement were performed, and intraoperative cultures identified *Fusobacterium nucleatum*. The patient was treated with parenteral tazocin and oral metronidazole, followed by six weeks of oral doxycycline and metronidazole. Inflammatory markers normalized over three weeks, and the patient showed satisfactory recovery with follow-up radiographs and clinical reviews. This case highlights the importance of considering *Fusobacterium nucleatum* in subacute calcaneal osteomyelitis and demonstrates the effectiveness of combined surgical and antibiotic treatment.

Biography

Dr. Zain Al Abdeen Al Zuabi is a junior doctor based in the United Kingdom. He is currently working in a Medicine rotation at The Queen Elizabeth Hospital, King's Lynn. He has a strong background in Trauma and Orthopaedics and a keen interest in surgery, audit, and medical education. Dr. Al Zuabi is passionate about improving patient care through evidence-based practice and quality improvement.