

## Physiopathology of Osteitis in the Diabetic Foot

**Authors :** Mohamed Amine Adaour, Mohamed Sadek Bachene, Mosaab Fortassi, Wafaa Siouda

**Abstract :** Foot infections are responsible for a significant number of hospitalizations and amputations in diabetic patients. The objective of our study is to analyze and evaluate the management of diabetic foot in a surgical setting. A retrospective study was conducted based on a selected case of suspected diabetic foot infections of osteitis treated at the Mohamed Boudiaf hospital in Medea. The case was reiterated as a therapeutic charge, consisting of treating first the infection of the soft tissues, then the osteitis: biopsy after at least 15 days of cessation of antibiotic therapy. Successful treatment of osteitis was defined at the end of a follow-up period of complete wound healing, lack of bone resection/amputation surgery at the initial bone site during follow-up. Instead, biopsies are prescribed in the treatment of soft tissue infection. The mean duration of treatment for soft tissue infection was 2-3 weeks, the duration of the antibiotic-free window of therapy prior to bone biopsy was 2-4 weeks. This patient received medical management without surgical resection. The success rate for treating osteitis at one year was 73%, and healing at one year was 88%. It is often limited to a sausage of the foot at the cost of repeated amputations. The best management remains prevention, which necessarily involves setting up a specialized and adapted centre.

**Keywords :** osteitis, antibiotic therapy, bone biopsy, diabetic foot

**Conference Title :** ICDM 2023 : International Conference on Diabetes and Metabolism

**Conference Location :** Barcelona, Spain

**Conference Dates :** June 19-20, 2023