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A rare case of staphylococcus caprae-caused periprosthetic joint infection following total hip arthroplasty: a literature review and antibiotic treatment algorithm suggestion**Philip Domashenko**

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In this study, we discuss a case of a 59-year-old male who developed a periprosthetic joint infection (PJI) three months after a total hip arthroplasty (THA). The patient complained of groin and buttock pain, swelling, and high temperature. A palpable fluid collection, discomfort, edema, and elevated local temperature were present in the clinical examination. Laboratory analysis revealed elevated white blood cells, erythrocyte sedimentation rate (ESR), and C-reactive protein (CRP). The preoperative joint aspiration came up positive for *Staphylococcus caprae* (*S. caprae*) infection. Diagnosis and pathogen identification were confirmed by histological examination of six tissue samples obtained during surgery. We initially performed early debridement, antibiotics, and

implant retention (DAIR) followed by antibiotic therapy suggested by an infectious disease specialist. DAIR failed two months later, and we proceeded to a two-stage revision. Following surgery, the patient was treated with intravenous antibiotic combination therapy for three weeks and thereafter with oral antibiotics for three months. Four months down the line, the patient is free of symptoms, and the inflammatory markers are normal. Finally, we will proceed with the second stage of revision. This study highlights a very rare case of PJI infection by *S. caprae*, reviews the limited literature, and provides the available evidence for surgical and antibiotic management.

Biography

Philip Domashenko working at Medical School, Aristotle University Of Thessaloniki, Thessaloniki, Switzerland.

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