

# Orthopaedic Infection: Diagnosis And Treatment

**Robert P Gruninger Ramon B Gustilo Dean T Tsukayama**

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Orthopedic hardware infections are much feared and costly complications that can occur when these devices are implemented both in traumatic cases as well as in joint replacement surgery. Because these infections can lead to great morbidity, it is important to understand their pathophysiology as well as the principles behind their diagnosis and initial treatment. Plastic surgeons are frequently consulted as part of a multidisciplinary team to provide stable soft tissue coverage of the associated defects that result from these infections. Orthopedic implants have revolutionized treatment of bone fractures and noninfectious joint arthritis. Today, the risk for orthopedic device-related infection (ODRI) is <1%–2%. However, the absolute number of patients with infection continuously increases as the number of patients requiring such implants grows. Treatment of ODRI most frequently includes long-term antimicrobial treatment and removal of the implant. Recent evidence from observational trials and 1 randomized clinical trial indicate that a subset of patients can be successfully treated with retention of the implant.

New developments in diagnosis and treatment of infection in orthopedic implants. Clin Infect Dis 2001;33(Suppl 2): Hebert CK, Williams RE, Levy RS, Barrack RL. Cost of treating an infected total knee replacement. Infection of orthopedic prostheses after Staphylococcus aureus bacteremia. Clin Infect Dis 2001;32: Trampuz A, Steckelberg JM, Osmon DR, Cockerill FR, Hanssen AD, Patel R. Advances in the laboratory diagnosis of prosthetic joint infection. Rev Med Microbiol 2003;14: McCarty DJ. Synovial fluid. In: Koopman WJ ed. 14. Philadelphia, PA: Lippincott Williams & Wilkins, 2001: Trampuz A, Hanssen AD, Osmon DR, Mandrekar J, Steckelberg JM, Patel R. Synovial fluid leukocyte count and differential for the diagnosis of prosthetic knee infection. Diagnosis and management of prosthetic joint infection: clinical practice guidelines by the Infectious Diseases Society of America. Clin Infect Dis. 2013;56(1):e1–e25. CrossRefPubMedGoogle Scholar. Oliva A, et al. Role of sonication in the microbiological diagnosis of implant-associated infections: beyond the orthopedic prosthesis. Adv Exp Med Biol. 2016;897:85–102. CrossRefPubMedGoogle Scholar. 29. Nguyen LL, et al. Detecting bacterial colonization of implanted orthopaedic devices by ultrasonication. Clin Orthop Relat Res. 2002;403:29–37. CrossRefGoogle Scholar.

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