



Advances in Prosthetic Joint Infection Care

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Message from the Guest Editor

Total joint arthroplasty (TJA) delivers highly valuable outcomes to patients with the end-stage joint diseases. Some PJIs originate from hematogenous bacterial invasion or “per continuitatem” from infections occurring around the implant at some point after the surgery. PJI is usually linked to the development of biofilm on prosthetic surfaces, inducing the anti-infective inflammatory host response and resulting in premature implant failure. TJA reoperations increase the morbidity and mortality at the side of patients and burden healthcare systems. Complex preventative measures, including anti-infective implants, could reduce the incidence of biofilm development on the implant surfaces. Implementing a concept targeting early stages of hematogenous/per continuitatem PJIs is more difficult. Advanced diagnostics enable early and more precise identification of patients suffering from PJI. This can lead to interventions and even save the original implant. Together, these advancements could increase the implant survivorship. In this Special Issue, we critically review advances in the field of PJI diagnosis and prevention, and discuss future research directions.





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