

عنوان مقاله:

The Function of Sonication in the Diagnosis of Periprosthetic Joint Infection After Total Knee Arthroplasty

محل انتشار:

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نویسنده:

E. Carlos RODRIGUEZ-MERCHAN - *Department of Orthopaedic Surgery, La Paz University Hospital, Madrid, Spain*

خلاصه مقاله:

Periprosthetic joint infection (PJI) following total knee arthroplasty (TKA) is a serious adverse event. Culturing of samples of periprosthetic tissue is the standard technique utilized for the microbiological diagnosis of PJI. However, this technique is neither sensitive nor specific since in PJI the microorganisms are usually in a biofilm on the surface of the prosthesis. The objective of this paper is to know the role of sonication in the diagnosis of PJI after TKA. Sonication consists in taking samples of bacteria from biofilms adhered to the prosthetic surface. The reported sensitivity for the diagnosis of PJI of the periprosthetic tissue cultures and sonicate fluid cultures is ۵۴% and ۷۵%, apiece. The specificity is ۹۸% and ۸۷%, respectively. In conclusion, the sonication technique is a dependable test for the diagnosis of PJI after TKA with a greater sensitivity and specificity than the conventional periprosthetic tissue cultures. Sonication of polyethylene liners, rather than the whole prosthesis, has been reported to be sufficient for diagnosis of prosthetic joint infection. Level of evidence: III

کلمات کلیدی:

Periprosthetic joint infection, sonication, Total knee arthroplasty

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