

عنوان مقاله:

Significance of Perioperative Tests to Diagnose the Infection in Revision Total Shoulder Arthroplasty

محل انتشار:

مجله استخوان و جراحی عمومی، دوره 6، شماره 5 (سال: 1397)

تعداد صفحات اصل مقاله: 6

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خلاصه مقاله:

Background: The purpose of this study was to evaluate the value of perioperative tests for the diagnosis of infection in revision shoulder arthroplasty. **Methods:** A retrospective analysis was performed on 537 shoulder arthroplasties (429 patients) that underwent revision shoulder arthroplasty at our institution. Periprosthetic tissue cultures were positive in 169/537 surgeries. **Results:** White-blood cell count (WBC) was elevated in 3.8% revision arthroplasties. Erythrocyte sedimentation rate (ESR) was elevated in 23.1% revision arthroplasties. The C-reactive protein (CRP) was elevated in 20.8% revision arthroplasties. Bone scans (technetium, indium) were performed on 9.9% patients and it was positive for osteomyelitis in just one revision arthroplasty. Intra-operative pathology was read as consistent with acute inflammation in 11.9% revision arthroplasties. The positive and negative predictive values for intra-operative pathology were 56.7% and 71.6% respectively. **Conclusion:** All of the perioperative tests had a high specificity and negative predictive value, but low sensitivity and positive predictive value. **Level of evidence:** III

کلمات کلیدی:

Infection in Revisions Shoulder Arthroplasty, Perioperative Tests, shoulder, Shoulder Arthroplasty

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