

TABLE E-1 Summary of Prior Studies Examining the Values of Serum and Synovial Diagnostic Thresholds for Predicting Periprosthetic Joint Infection

Authors	Year	No. of Infections	Hip or Knee	ESR Cutoff* (mm/hr)	CRP Cutoff* (mg/L)	Synovial Fluid WBC Count Cutoff* (WBC/ μ L)	Percentage of Polymorphonuclear Cells Cutoff (%)	Management of Patients with Inflammatory Conditions
Spangehl et al. ¹¹	1999	35	Hip	30	10	1100	80	Study population included twenty-three patients with connective tissue disorders; these were not analyzed independently from patients with noninflammatory conditions
Kersey et al. ¹²	2000	79	Knee	NA	NA	2000	50	Higher rate of false positives observed in patients with rheumatoid arthritis (40% for WBC, 50% for differential) compared with osteoarthritis (6.8% for WBC, 0% for differential) at the selected cutoffs
Mason et al. ¹³	2003	36	Knee	NA	NA	2500	60	Study population included four patients with rheumatoid arthritis; no conclusions could be drawn based on small sample size
Trampuz et al. ¹⁴	2004	34	Knee	NA	NA	1700	65	Excluded
Della Valle et al. ¹⁵	2007	41	Knee	30	10	3000	65	Excluded
Greidanus et al. ¹⁶	2007	45	Knee	22.5	13.5	NA	NA	Excluded
Ghanem et al. ¹⁷	2008	161	Knee	30	10	1100	64	Excluded
Schinsky et al. ¹⁸	2008	55	Hip	30	10	3000	80	Excluded

*NA = not applicable