

TABLE E-1 Reported Outcomes of Total Joint Arthroplasties in HIV-Infected Patients*

Study	Publication Year	Study Period	No. of Patients (No. of Arthroplasties)	Mean Age in Years (range)	Mean Follow-up in Years (range)
Ragni et al. ²⁴	1995	NR	7 (THA)	NR	NR
Hicks et al. ²³	2001	1973-1988	(27 THA) (74 TKA)	39 (22 to 60)	5.7 (0.1 to 20.8)
Lehman et al. ⁴⁹	2001	1983-1995	(4 THA) (19 TKA)	33 (25 to 48)	5.2 (2 to 12.7)
Parvizi et al. ²¹	2003	1979-1998	15 (8 THA) (13 TKA)	38 (28 to 69)	10.2 (2 to 23)
Mahoney et al. ⁵⁰	2005	1995-2002	38 (54 THA)	44 (28 to 70)	2.3 (1 to 7)
Powell et al. ²²	2005	1975-2002	11 (16 THA)	33 (20 to 61)	6.9 (0.1 to 27) Median follow-up
Habermann et al. ⁴⁶	2008	1988-2000	15 (20 THA)	46 (34 to 68)	6.75 (2 to 14)
Brijlall ⁴⁸	2008	2000-2001	14 (THA)	42	5
Tornero et al. ⁴⁷	2012	2001-2010	(18 THA) (33 TKA)	44.5 ± 9†	3.3 ± 2.5†
Issa et al. (current study)	2013	2001-2008	34 (44 THA)	48 (34-80)	7 (4 to 11)

*HIV = human immunodeficiency virus, NR = not reported, THA = total hip arthroplasty, CD4 = median cluster of differentiation 4, TKA = total knee arthroplasty, AIDS = acquired immune deficiency syndrome, TLC = total lymphocyte count, and CD8 = median cluster of differentiation 8. †Data are expressed as mean and standard deviation.

TABLE E-1 (continued)

Failure Rate (%)	Infection Rate (%)	Cemented Versus Cementless	Notes
NR	14.2	NR	All patients were selected from hemophilia centers. All patients had CD4 count of <200 cells/mm ³
NR	18.7	NR	All patients had hemophilia
NR	NR	NR	15 patients had hemophilia
38	28.5	NR	10 patients had contracted HIV by blood transfusions for hemophilia treatment, 4 through sexual contact, and 1 through intravenous drug abuse. Failures and infection rates were reported for TKA and THA patients combined.
3	3	Stems were cemented in 42 cases and not cemented in 12 cases.	Median CD4 cell count = 274 (8 to 982) 62.5% of patients had AIDS
12.5	6.25	NR	All patients had hemophilia
30	20	Cemented implants Muller cup acetabular component by Implantcast (Buxtehude, Germany). Femoral stems were Euroform (DePuy, Warsaw, Indiana) in 12 and SP2 (Waldemar Link, Hamburg, Germany) in 8 cases.	30 patients were hemophiliacs, 4 were infected through sexual intercourse, and 7 were intravenous drug abusers
0	0	All were cementless	The pre-lymphocyte subset analysis was TLC-2.24, CD4 425, CD8 873, CD4/CD8-0.52
NR	1.7	NR	All HIV-infected patients had osteonecrosis
5	4	Accolade femoral prosthesis with a ceramic or cobalt-chromium femoral head and a Trident acetabular component (Stryker Orthopaedics, Mahwah, New Jersey)	None of the patients had hemophilia. All patients had osteonecrosis