

Table 1. Study Characteristics

Study	County	Design	Hematogenous Infection Interval to index procedure	Joint	Population, n	Age, year	Male	Follow-up, years
Soundarrajan et al. 2022	India	Retrospective	> 4 weeks	TKA	22	67.4 ± 9.85	10 (45%)	4.9 ± 2.4
Chen et al. 2021	USA	Prospective	> 3 months	78 TKA; 28 THA	106	67.2 ± 11.6	58 (55%)	4.9 (3.5-7)
Huotari et al. 2023	Finland	Retrospective	> 3 months	15 TKA; 11 THA	26	71.2 (38-86)	12 (46%)	4.5 (15d-9.3)
Rahardja et al. 2023	Australia & New Zealand	Prospective	> 3 months	TKA	129	70 (36-90)	75 (58%)	2
Karlsen et al. 2025	Norway	Prospective	> 4 weeks	4 TKA; 2 THA	6	63 ± 14	3 (50%)	4,2
Liukkonen et al. 2024	Finland	Retrospective	> 3 months	THA	25	NA	NA	1
Tarity et al. 2021	USA	Retrospective	> 6 weeks	84 TKA; 51 THA	135	66.1 ± 12.0	71 (53%)	0.3
Geurts et al. 2013	Netherlands	Retrospective	> 4 weeks	3 TKA; 3 THA	6	NA	NA	2.8 (1m–23)
Westberg et al. 2023	Norway	Retrospective	> 4 weeks	TKA, THA	25	75 (43-92)	26 (60%)	1
Segawa et al. 1999	USA	Retrospective	> 4 weeks	TKA	7	NA	NA	3.3 (0.3-5.5)
Bryan et al. 2017	USA	Retrospective	> 4 weeks	THA, HA	24	NA	NA	6 (2-15)
Chiu et al. 2007	China	Prospective	> 4 weeks	TKA	10	73.9	4 (40%)	6.6 (3-12)
Cook et al. 2007	Canada	Retrospective	NA	TKA	10	67	NA	10
Crockarell et al. 1998	USA	Retrospective	> 4 weeks	THA	4	59	2 (50%)	6.3 (0.14-22)
Tsukayama et al. 1996	USA	Retrospective	> 4 weeks	THA	6	NA	NA	2.6 (0.5-4.0)
Estes et al. 2010	USA	Retrospective	NA	TKA, THA	18	67 (28-91)	NA	3.5 (1.2-7.5)
Fink et al. 2016	Germany	Retrospective	NA	20 TKA; 8 THA 8	28	NA	NA	3.5 (2-11)
Flierl et al. 2016	USA	Retrospective	NA	TKA, THA	18	62 (32-88)	NA	1.1 (0.25-2.5)
Hernandez et al. 2019	USA	Retrospective	NA	UKA	4	NA	NA	At least 2y
Uriarte et al. 2019	Spain	Retrospective	NA	THA	10	NA	NA	4 (1-12)

Engen et al. 2024	USA	Retrospective	> 4 weeks	TKA	34	NA	NA	2
Kim et al. 2011	Korea	Retrospective	> 4 weeks	TKA	7	65 ± 9.4	NA	At least 2y
Koh et al. 2015	Korea	Retrospective	> 4 weeks	TKA	20	67.6 (44-80)	NA	At least 2y
Konigsberg et al. 2014	USA	Retrospective	> 6 Months	20 TKA; 20 THA	40	60 (25-86)	22 (55%)	At least 2y
Koyonos et al. 2011	USA	Retrospective	> 4 weeks	34 TKA; 16 THA	50	63.5 (60.6-66.3)	28 (56%)	4.5 (1-9.6)
Son et al. 2017	Korea	Retrospective	> 4 weeks	TKA	15	70.8 (35-86)	NA	2.5(2-2.9)
Kuo et al. 2019	USA	Retrospective	> 3 months	42 TKA; 7 THA	49	NA	26 (53%)	At least 1y
Lora-Tamayo et al. 2013	Spain	Retrospective	NA	38 TKA; 13 THA	52	74 (65-79)	21 (40%)	2
Salmons et al. 2023	USA	Retrospective	> 4 weeks	11 TKA; 14 THA	25	71 (41-90)	NA	7 (2-15)
Renz et al. 2021	Germany	Retrospective	> 4 weeks	TKA, THA	50	74 (36-92)	NA	1.7 (0.2m-7.5)
Lora-Tamayo et al. 2017	Spain	Retrospective	> 3 months	TKA, THA	242	72 (65-78)	111 (46%)	2.2 (1.4–3.7)
Shao et al. 2022	China	Retrospective	> 3 months	TKA, THA	24	62.5 (54-75)	NA	3.2 (2-7.6)
Chaiyakit et al. 2021	Thailand	Retrospective	> 4 weeks	TKA	12	65.9 (48.0-82.0)	3 (25%)	7.8 (4.7-11.1)
Iza et al. 2019	Spain	Retrospective	> 3 months	TKA	12	73 (57-83)	NA	3.4 (1-12)
Pérez-Prieto et al. 2023	Spain	Prospective	> 3 & < 12 months	TKA	10	72.6	2 (20%)	8.5 ± 2.4
Chang et al. 2022	Korea	Retrospective	> 3 months	TKA	67	74 ± 9.2	12 (18%)	2
Toh et al. 2021	Singapore	Retrospective	> 3 months	TKA	73	64.6 ± 9.74	NA	1.9 (0.5-7.8)
Sendi et al. 2017	Switzerland	Retrospective	> 3 months	THA	14	73.2 (44.6-87.7)	NA	4.0 (1.4-10)
Shohat et al. 2019	USA	Retrospective	> 3 months	43 TKA; 9 THA	52	68.7 ± 11.6	27 (52%)	1
Swenson et al. 2017	USA	Retrospective	> 4 weeks	TKA, THA	19	NA	NA	2.89 (0.5-6.3)
Vilchez et al. 2011	Spain	Retrospective	> 3 months	10 TKA; 2 THA	12	74 (8.9)	6 (50%)	1.4 ± 1.2
Waldman et al. 2000	USA	Prospective	> 6 Months	TKA	12	71.3	5 (42%)	4.2
Wouthuyzen-Bakker et al. 2019	International multicenter	Retrospective	> 3 months	247 TKA; 93 THA	340	NA	175 (51%)	2.8 (1.3-4.6)

Zhu et al. 2020	New Zealand	Retrospective	> 4 weeks	TKA	102	NA	NA	6.9 ± 3.69
			> 3 months		123			
Nurmohamed et al. 2021	Netherlands	Prospective	NA	10 TKA; 6 THA	16	NA	NA	At least 1y

TKA, Total Knee Arthroplasty; THA Total Hip Arthroplasty; HA, Hemi arthroplasty; UKA, Unicompartmental Knee Arthroplasty; NA, not available; n, number