

Appendix

TABLE E-1 Characteristics of Included Studies*

Study	Year	Study Period	Origin of Study	Events†	No. of Patients	Patient Characteristics or Database	Mortality	
							30-Day	90-Day
Altintas ¹⁶	2008	Mar 2005-Mar 2006	Turkey	2	328	21 centers	NR	0.61%
Amin ¹⁷	2006	Jan 1995-Dec 1997	Scotland	1	320 (370 TKAs)	Consecutive series, single institution	NR	0.31%
Baser ¹⁸	2010	2005-2007	Michigan, U.S.A.	~354	118,086 TKAs	MEDPAR	0.3%	NR
Belmont ⁴	2014	2006-2010	Texas, U.S.A.	27	15,321	ACS NSQIP	0.18%	NR
Blum ¹⁹	2013	Jul 2001-Jul 2002	Pennsylvania, U.S.A.	46	17,385	Pennsylvania PHC4	0.26%	NR
Bottle ²⁰	2015	Apr 2008-Mar 2012	U.K.	647	230,282	HES, U.K.	NR	0.28%
Clayton ²¹	2009	Apr 1996-Mar 2006	Scotland	27	5,100	SAP	NR	0.53%
Cram ²²	2012	Jan 1-Dec 31, 2006	U.S.A.	185	64,712	2006 and 2007 MEDPAR	0.28%	NR
Cusick ²³	2009	2002-2007	Belfast, N. Ireland	8	2,050	Prospectively collected consecutive series, single surgeon	NR	0.39%
Duchman ²⁴	2014	2005-2011	Iowa, U.S.A.	44	27,745	ACS NSQIP	0.16%	NR
Easterlin ⁵	2013	2005-2009	California, U.S.A.	11	8,950 procedures including some partial knee replacements	ACS NSQIP	0.12%	NR
Hart ⁶	2014	Jan 1, 2011-Dec 31, 2011	Quebec, Canada	20	13,662 TKAs	ACS NSQIP	0.15%	NR
Haughom ⁷	2014	2005-2012	U.S.A.	37	24,529	ACS NSQIP	0.15%	NR
Huddleston ²⁵	2009	2002-2004	U.S.A.	7	2,033 TKAs	Subset of the HPMP record sample and Medicare Eligibility and National Claims History databases	0.3%	NR
Hunt ³	2014	2003-2011	U.K.	968	466,811 TKAs	National Joint Registry for England and Wales	0.21%	NR
Husted ²⁶	2006	2004	Denmark	11, 16	4,312	Danish National Patient Register	0.3%	0.4%
Jorgensen ²⁷	2015	2010-2012	Copenhagen, Denmark	4, 6	4,190	Lundbeck Foundation Centre Database	0.10%	0.21%
Kim ²⁸	2009	Mar 1994-Jan 2003	Korea	5	719	Consecutive series	NR	0.7%
Lee ²⁹	2016	Oct 2011-Sep 2014	Hong Kong	8, 16	6,588 TKAs	Clinical Data Analysis and Reporting System	0.12%	0.24%
Lie ³⁰	2010	1994-2005	Norway and	143	80,733	Norwegian and Australian	0.18%	NR

			Australia			registers: patients 5-80 years old with OA only		
Maempel ³¹	2015	Oct 1998-Feb 2012	Fife, Scotland	13	3,144	Unilateral TKA only, single institution	0.41%	NR
Memtsoudis ³²	2014	2006-2010	U.S.A.	250	191,570	TKAs from National Premier Perspective database	0.13%	NR
Miric ³³	2014	Jan 4, 2001-Dec 31, 2011	U.S.A.	128, 230	81,835	Kaiser Permanente arthroplasty registry of 8 geographic regions in the U.S.	0.16%	0.28%
Ogonda ³⁴	2016	Nov 1, 2002-Apr 30, 2014	Belfast, United Kingdom	22	5,028	All TKAs performed using aspirin for thromboprophylaxis	NR	0.44%
Parry ³⁵	2011	2000-2007	England, U.K.	10, 20	2,695, 2,527	Single-institution database	0.37%	0.79%
Paterson ³⁶	2009	Apr 1, 2000-Mar 31, 2004	Ontario, Canada	144	27,217	CIHI and physician billings from the Ontario Health Insurance Plan	NR	0.53%
Perioperative mortality in NZ fifth report ³⁷	2016	2009-2014	New Zealand	61	36,235	New Zealand Joint Registry and National Minimum Data set	0.17%	NR
Pugely ⁸	2013	2005-2010	Iowa	22	14,052	ACS NSQIP Participant Use Data Files where patients undergo Spinal or GA only	0.16%	NR
Seah ³⁸	2007	1998-2001	Singapore	6	2,219	Primary staged bilateral TKAs, simultaneous bilateral TKAs, and revision TKAs	0.27%	NR
Singh ³⁹	2011	Fiscal year 2002	Pennsylvania, U.S.A.	52	19,418	Pennsylvania PHC4 database	0.27%	NR
Singh ⁴⁰	2012	Jan 1, 1994-May 31, 2008	Mayo Clinic, Rochester, Minnesota, U.S.A.	28, 52 knees	12,484	Mayo Clinic Total Joint Registry	0.22%	0.42%
Smith ⁴¹	2015	Jan 1, 2005-Dec 31, 2011	Clydebank, Scotland	7	6,419	Scottish Arthroplasty Project	0.11%	NR
SooHoo ⁴⁵	2006	1991-2001	California, U.S.A.	1,091, 1,581	222,684	California OSHPD	0.49%	0.71%
Stundner ⁴²	2014	2006-2010	New York, U.S.A.	351	351,103	Premier Perspective billing and accounting database	0.10%	NR
Suleiman ⁹	2012	2005-2007	U.S.A.	3	1,147	ACS NSQIP	0.26%	NR
Vulcano ⁴³	2012	Jan 2005-Oct 2011	New York, U.S.A.	2	645	Single-surgeon series of patients receiving multimodal thromboprophylaxis	NR	0.31%

Wang ⁴⁴	2010	2005-2007	Michigan, U.S.A.	360	104,952	2005-2007 national Medicare claims	NR	0.37%
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*NR = not reported, TKA = total knee arthroplasty, MEDPAR = Medicare Provider Analysis and Review Files, ACS NSQIP = American College of Surgeons National Surgical Quality Improvement Project, PHC4 = Pennsylvania Health Care Cost Containment Council, HES = Hospital Episode Statistics, SAP = Scottish Arthroplasty Project, HPMP = Hospital Payment Monitoring Program, OA = osteoarthritis, CIHI = Canadian Institute for Health Information, GA = general anesthesia, and OSHPD = Office of Statewide Health Planning and Development. †When 2 values are given, they represent 30-day and 90-day mortality.