

Supplementary Table 6. Full list of the systematic review

Author	Year	Surgical procedure	Country	Sample size	Stroke no.	Stroke incidence (%)
Abbas et al. ¹	2015	CABG	Pakistan	115	7	6.0
Aboyans et al. ²	2008	CABG	France	1,022	37	3.60
Abraham et al. ³	2002	Abdominal aortic aneurysm repair	United States	116	1	0.90
AbuRahma et al. ⁴	1996	CEA	United States	399	7	1.75
AbuRahma ⁵	2004	CEA	United States	357	10	2.80
AbuRahma et al. ⁶	2008	CAS	United States	100	2	2.0
AbuRahma et al. ⁷	2010	CEA	United States	200	2	1.0
AbuRahma et al. ⁸	2010	CEA and CAS	United States	192	3	1.56
AbuRahma et al. ⁹	2005	CEA	United States	187	3	1.50
AbuRahma et al. ¹⁰	2001	CEA	United States	144	6	4.16
AbuRahma et al. ¹¹	2007	CEA	United States	200	6	3.0
AbuRahma et al. ¹²	2002	CEA	United States	200	7	3.50
Ackerstaff et al. ¹³	1996	CEA	Netherlands	301	13	4.31
Ad et al. ¹⁴	2011	Cox-Maze procedure	United States	124	1	0.8
Ad et al. ¹⁵	2015	Mitral valve surgery	United States	387	3	0.76
Ad et al. ¹⁶	2013	Cox-Maze procedure	United States	232	4	1.70
Ad et al. ¹⁷	2017	Cox-Maze procedure	United States	709	4	0.56
Alcantara et al. ¹⁸	2014	CEA	United States	181	0	0
Alnasser et al. ¹⁹	2017	Transcatheter valve-in-valve implantation	Canada	162	2	1.23
Alonso-Coello et al. ²⁰	2017	Noncardiac surgeries	Multiple	8,346	60	0.72
Amato et al. ²¹	2015	CEA	Italy	202	3	1.49
Ambrosii et al. ²²	2016	Musculoskeletal system or abdominal cavity surgeries	Moldova	400	2	0.50
Ansel et al. ²³	2010	CAS	United States	257	5	1.90
Antunes et al. ²⁴	1999	CABG	Portugal	107	3	2.8
Anzola et al. ²⁵	2004	Patent foramen ovale transcatheter closure	Italy	140	0	0
Arnaoutoglou et al. ²⁶	2017	Endovascular repair of abdominal aortic aneurysm	Greece	153	3	1.96
Aronson ²⁷	2009	Cardiac surgery	United States	1,405	20	1.42
Ascher et al. ²⁸	2002	CEA	United States	226	3	1.30
Ascione et al. ²⁹	2004	CABG	United Kingdom	686	5	0.73
Ascione et al. ³⁰	2005	CABG	United Kingdom	470	6	1.27
Ascione et al. ³¹	2001	CABG	United Kingdom	253	14	5.53
Ascione et al. ³²	2002	CABG	United Kingdom	4,077	45	1.10
Asimakopoulos et al. ³³	2006	Off pump CABG	United Kingdom	251	2	0.80
Assadian et al. ³⁴	2008	CEA	Austria	338	2	0.60
Assadian et al. ³⁵	2007	Carotid eversion endarterectomy	Austria	363	5	1.38
Assadian et al. ³⁶	2005	CEA	Austria	1,210	30	2.48
Asteriou et al. ³⁷	2013	CABG	Greece	200	6	3.0
Avinee et al. ³⁸	2016	TAVI	France	368	14	3.80
Axisa et al. ³⁹	2002	Peripheral angioplasty	United Kingdom	1,377	6	0.44
Ayad ⁴⁰	2016	Percutaneous coronary intervention	Egypt	160	0	0
Baklanov et al. ⁴¹	2006	Coronary stenting	United States	197	0	0
Ballotta et al. ⁴²	2008	CEA	Italy	102	0	0
Ballotta et al. ⁴³	2005	Carotid coiling or kinking	Italy	129	0	0
Ballotta et al. ⁴⁴	2008	CEA	Italy	374	0	0

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Ballotta et al. ⁴⁵	2004	CEA	Italy	363	3	0.77
Ballotta et al. ⁴⁶	2003	CEA	Italy	624	4	0.64
Ballotta et al. ⁴⁷	1999	CEA	Italy	336	5	1.49
Ballotta et al. ⁴⁸	2001	CEA	Italy	547	5	0.91
Ballotta et al. ⁴⁹	2014	CEA	Italy	1,773	8	0.39
Banach et al. ⁵⁰	2008	Open heart surgery	Poland	260	5	1.92
Baracchini et al. ⁵¹	2012	eCEA	Italy	1,294	8	0.55
Bardia et al. ⁵²	2017	Isolated cardiac surgery	United States	763	23	3.01
Baribeau et al. ⁵³	2002	Open heart surgery	United States	228	16	7.01
Barnes et al. ⁵⁴	1981	Coronary or peripheral arterial revascularization	United States	314	1	0.32
Barnes et al. ⁵⁵	1981	Coronary or peripheral arterial revascularization	United States	449	5	1.11
Basic et al. ⁵⁶	2016	CEA	Austria	485	6	1.24
Bastounis et al. ⁵⁷	2001	CEA	Greece	337	0	0
Batchelder et al. ⁵⁸	2015	CEA	United Kingdom	100	1	1.0
Bechtel et al. ⁵⁹	2000	CEA and abdominal aortic surgery	Germany	201	1	0.50
Becquemin et al. ⁶⁰	2003	Carotid stenting and carotid surgery	France	455	9	1.98
Bellomo et al. ⁶¹	2002	All patients undergoing surgeries with a hospital stay more than 48 hr	Australia	1,125	16	1.20
Bellomo et al. ⁶²	2004	Various surgical procedures with a hospital stay more than 48 hr	Australia	2,183	23	1.05
Berens et al. ⁶³	1992	Cardiac surgery	United States	1,087	22	2.02
Bernhardt et al. ⁶⁴	2015	Orthotopic liver transplant	Germany	134	1	0.70
Bertolini et al. ⁶⁵	1997	Myocardial revascularization	Italy	100	3	3.0
Berwanger et al. ⁶⁶	2016	Patients undergoing noncardiac surgeries in patients >45 with an overnight hospital stay	Multiple	22,815	123	0.54
Bilecen et al. ⁶⁷	2013	Complex cardiac surgery	Netherlands	1,075	31	2.88
Bilfinger et al. ⁶⁸	2000	Complex cardiac surgery	United States	1,987	38	1.8
Binder et al. ⁶⁹	2015	TAVI	Switzerland	598	18	3.01
Birincioglu et al. ⁷⁰	1999	CABG	Turkey	722	13	1.80
Bishu et al. ⁷¹	2014	TAVR	United States	277	2	0.72
Boehm et al. ⁷²	2007	CABG	Germany	1,447	35	2.41
Börgermann et al. ⁷³	2013	Aortic valve replacement	Germany	808	9	1.11
Borst et al. ⁷⁴	2007	CEA	Netherlands	102	1	0.98
Borst et al. ⁷⁵	2001	CEA	Netherlands	599	20	3.34
Borstad et al. ⁷⁶	1992	Patients undergoing major gynecological surgery, laproto-my, vaginal repair, colposuspension. In procedures lasting more than a 30-min.	Norway	141	1	0.71
Boudriot et al. ⁷⁷	2011	CABG and sirolimus-eluting stenting	Germany	201	2	0.99
Bourke et al. ⁷⁸	2002	CEA	Australia	146	0	0
Braun et al. ⁷⁹	2002	Transcatheter closure of patent foramen ovale	Germany	276	0	0
Breuer et al. ⁸⁰	1983	CABG	United States	421	22	5.22
Brittenden et al. ⁸¹	2000	CEA	Scotland	226	6	2.65
Broască et al. ⁸²	2013	lower limb revascularization	Romania	231	0	0
Brosig et al. ⁸³	2008	CEA	Germany	164	12	7.31
Budera et al. ⁸⁴	2012	Valve and/or coronary surgery	Czech Republic	224	6	2.68

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Author	Year	Surgical procedure	Country	Sample size	Stroke no.	Stroke incidence (%)
Bull et al. ⁸⁵	1993	CABG	Canada	245	5	2.04
Camous et al. ⁸⁶	2014	Pulmonary endarterectomy	France	207	3	1.45
Canaud et al. ⁸⁷	2011	Thoracic endovascular aortic repair	France	186	0	0
Cao et al. ⁸⁸	1997	CEA	Italy	469	15	2.91
Cao et al. ⁸⁹	2000	CEA	Italy	1,353	28	2.07
Carrier et al. ⁹⁰	1997	CABG	Canada	224	3	1.34
Castriota et al. ⁹¹	2008	CAS with cardiopulmonary bypass	Italy	178	1	0.56
Chen et al. ⁹²	2009	Cardiac surgery with cardiopulmonary bypass	United States	122	6	4.92
Cieri et al. ⁹³	2008	CAS	Italy	223	7	3.14
Cimochowski et al. ⁹⁴	1997	CABG	United States	111	1	0.90
Cohen et al. ⁹⁵	1998	Valve and/or coronary surgery	Canada	115	2	1.74
Cooper et al. ⁹⁶	2013	Anaortic off-pump CABG	Australia	1,135	5	0.44
Coscas et al. ⁹⁷	2010	Open surgery for carotid stenosis	France	119	3	2.52
Crouch et al. ⁹⁸	2015	TAVI	Australia	114	3	2.63
Da Col et al. ⁹⁹	2008	Myocardial revascularization	Italy	257	1	0.39
Da Silva et al. ¹⁰⁰	1996	CEA	United Kingdom	108	4	3.70
Dake et al. ¹⁰¹	1998	Endovascular repair of descending aortic aneurysm	United States	103	7	6.80
D'Angelo et al. ¹⁰²	2001	CEA	Italy	100	1	1
Darling et al. ¹⁰³	1998	CEA	United States	470	5	1.06
Darwazah et al. ¹⁰⁴	2010	Myocardial revascularization	Israel	350	0	0
M.Davies et al. ¹⁰⁵	1993	CEA	Australia	389	10	2.57
J.Davies et al. ¹⁰⁶	2016	SAVR or TAVR	United States	573	11	1.92
De Santis et al. ¹⁰⁷	2016	Carotid surgery	Italy	285	4	1.28
Debing et al. ¹⁰⁸	2007	CEA	Belgium	742	16	2.16
Debing et al. ¹⁰⁹	2011	CEA	Belgium	1,351	18	1.33
Deiwick et al. ¹¹⁰	1997	Open heart surgery	Germany	101	14	13.86
Deng et al. ¹¹¹	2006	Coronary revascularization	China	179	1	0.60
Detter et al. ¹¹²	2002	CABG	Germany	340	0	0
Devereaux et al. ¹¹³	2011	Noncardiac surgeries in patients older than 45 yr	Multiple	432	1	0.23
Di Biase et al. ¹¹⁴	2014	Catheter ablation of atrial fibrillation with radiofrequency	Multiple	428	2	0.47
Didier et al. ¹¹⁵	2016	CEA	United States	25,626	86	0.34
Dinkel et al. ¹¹⁶	1992	Carotid surgery	Germany	125	0	0
Donaldson et al. ¹¹⁷	1993	CEA	United States	396	1	0.22
Dong et al. ¹¹⁸	2016	CAS	China	154	9	5.84
Dong et al. ¹¹⁹	2017	CAS	China	358	10	2.79
Dorigo et al. ¹²⁰	2009	CEA	Italy	3,324	19	0.47
Lam et al. ¹²¹	2007	CAS	United States	133	4	2.96
Larsen et al. ¹²²	1988	Noncardiac noncarotid surgeries	Denmark	2,463	6	0.20
Lee et al. ¹²³	2013	CABG	Multiple	541	18	3.33
Lennard et al. ¹²⁴	1999	CEA	United Kingdom	252	4	1.59
Liapis et al. ¹²⁵	2001	CEA	Greece	308	7	2.07
Likosky et al. ¹²⁶	2003	CABG	United States	11,825	177	0.99
Linden et al. ¹²⁷	2007	Coronary revascularization	United States	611	39	6.38
Loponen et al. ¹²⁸	2003	CABG	Finland	1,318	34	2.58

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Love et al. ¹²⁹	2000	CEA	Australia	443	8	1.80
Lübke et al. ¹³⁰	2015	CEA	Germany	1,880	28	1.49
MacDonald et al. ¹³¹	1998	CABG	Canada	100	6	6
Mandeville et al. ¹³²	2015	Bifurcation resection and interposition of a polytetrafluoroethylene graft and CEA	Belgium	153	4	2.61
Mattos et al. ¹³³	1992	CEA	United States	478	16	2.94
McCollum et al. ¹³⁴	1997	Carotid surgery	Multiple	709	15	2.11
McKhann et al. ¹³⁵	2002	CABG	United States	2,711	72	2.66
Mitchell et al. ¹³⁶	1999	Thoracic endovascular aortic repair	United States	103	7	6.80
Mukerji et al. ¹³⁷	2015	CEA	United Kingdom	728	17	2.33
Mullenix et al. ¹³⁸	2002	CEA	United States	267	6	2.24
Naylor et al. ¹³⁹	2000	CEA	United Kingdom	500	4	0.80
Newman et al. ¹⁴⁰	1996	CABG	United States	2,417	68	3.20
Nicholls et al. ¹⁴¹	1985	CEA	United States	134	2	1.49
Nordanstig et al. ¹⁴²	2017	CEA	Sweden	418	11	2.63
Ott et al. ¹⁴³	1980	CEA	United States	240	4	1.29
Pell et al. ¹⁴⁴	2004	CEA	Scotland	877	22	2.51
Radu et al. ¹⁴⁵	2013	CAS	Germany	279	6	2.15
Rafiq et al. ¹⁴⁶	2012	CABG	Denmark	194	10	3.09
Roach et al. ¹⁴⁷	1996	CABG	United States	2,108	63	2.99
Saini et al. ¹⁴⁸	2017	Minimally invasive surgical ablation for atrial fibrillation	United States	109	1	0.92
Salazar et al. ¹⁴⁹	2001	Cardiac surgery	United States	5,971	214	3.58
Salem et al. ¹⁵⁰	2011	CEA	United Kingdom	109	2	1.83
Samson et al. ¹⁵¹	1998	CEA	United States	654	11	1.68
Sandison et al. ¹⁵²	2000	CEA	United Kingdom	333	8	2.40
Santo et al. ¹⁵³	2008	Cardiac surgery	Italy	925	9	0.97
Schmitz et al. ¹⁵⁴	2003	Cardiac surgery	Germany	582	8	1.37
Schneider et al. ¹⁵⁵	1997	CEA	United States	186	7	3.48
Schoenefeld et al. ¹⁵⁶	2012	CEA	Germany	540	19	3.52
Schoof et al. ¹⁵⁷	2007	CABG and/or valve surgery	Germany	2,797	67	2.40
Senay et al. ¹⁵⁸	2011	CABG	Turkey	3,248	32	0.99
Shapira et al. ¹⁵⁹	2006	CABG	United States	2,450	28	1.14
Shaw et al. ¹⁶⁰	1985	CABG	United Kingdom	312	15	4.81
Spes et al. ¹⁶¹	2007	CAS	Germany	371	9	2.22
Stabile et al. ¹⁶²	2010	CAS	Italy	1,300	12	0.92
Subban et al. ¹⁶³	2016	TAVI	Australia	209	9	4.31
Suematsu et al. ¹⁶⁴	2000	CABG	Japan	179	6	3.35
Takach et al. ¹⁶⁵	1996	CEA	United States	248	2	0.75
Tatoulis et al. ¹⁶⁶	1999	Coronary revascularization	Australia	3,220	26	0.81
Trehan et al. ¹⁶⁷	1997	CABG	India	792	6	0.76
Trehan et al. ¹⁶⁸	2000	CABG	India	3,660	35	0.96
Verhoeven et al. ¹⁶⁹	2005	CEA	Netherlands	200	11	5.47
Veselka et al. ¹⁷⁰	2009	CAS	Czech Republic	176	2	0.93
Walker et al. ¹⁷¹	1995	CEA	Multiple	825	15	1.82
Walkes et al. ¹⁷²	2002	CABG	United States	1,069	31	2.90

Supplementary Table 6. Continued

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Weimar et al. ¹⁷³	2012	Cox-Maze procedure	United States	212	2	0.94
Weinstein ¹⁷⁴	2001	CABG	United States	2,217	51	2.30
Wenaweser et al. ¹⁷⁵	2011	TAVI	Switzerland	256	9	3.52
Burns et al. ¹⁷⁶	1991	CEA	Australia	223	14	5.86
Wöhrle et al. ¹⁷⁷	2016	TAVI	Germany	235	5	2.13
Woelfle et al. ¹⁷⁸	2002	CEA	Germany	111	3	2.70
Wolman et al. ¹⁷⁹	1999	Cardiac and coronary surgery	United States	273	21	7.69
Wong et al. ¹⁸⁰	1999	CEA	Canada	184	8	4.35
Yadeau et al. ¹⁸¹	2011	Ambulatory shoulder surgery	United States	1,169	0	0
Young et al. ¹⁸²	1996	CEA	United States	721	10	1.39
Zannetti et al. ¹⁸³	1999	CEA	Italy	1,305	13	1.00
Zarins et al. ¹⁸⁴	2009	CEA and CAS	United States	397	12	3.02
Zhang et al. ¹⁸⁵	2015	Aortic valve replacement	Germany	113	1	0.88
Ziemann et al. ¹⁸⁶	2017	Cardiac surgery	Germany	983	14	1.42
Zipfel et al. ¹⁸⁷	2008	Endovascular repair of abdominal aortic aneurysm	Germany	126	4	3.17

CABG, coronary artery bypass grafting; CEA, carotid endarterectomy; CAS, carotid artery stenting; eCEA, eversion carotid endarterectomy; TAVI, transcatheter aortic valve implantation; TAVR, transcatheter aortic valve replacement; SAVR, surgical aortic valve replacement.