Supplementary



Figure S1 PRISMA search strategy.

Table S1 Delphi quality assessment tool							
Criteria No.	Criterion definition						
1	Is the hypothesis/aim/objective of the study stated in the abstract, introduction, or methods section?						
2	Are the characteristics of the patients included in the study clearly described?						
3	Were the cases collected in more than one center?						
4	Are the eligibility criteria (inclusion and exclusion criteria) explicit and appropriate?						
5	Were patients recruited consecutively?						
6	Did patients enter the study at a similar point in the disease?						
7	Did the authors describe the intervention?						
8	In addition to intervention, did the patients receive any co-interventions?						
9	Was loss to follow-up reported?						
10	Are outcomes (primary, secondary) clearly defined in the introduction or methodology section?						
11	Did the authors use accurate (standard, valid, reliable) objective methods to measure the outcomes?						
12	Were outcomes assessed before and after intervention?						
13	Was the length of follow-up clearly described/reported?						
14	Were the statistical tests used to assess the primary outcomes appropriate?						
15	Does the study provide estimates of the random variability in the data for the primary outcomes (e.g., standard error, standard deviation, confidence intervals)?						
16	Was the analysis of outcomes based on intention to treat?						
17	Are adverse events that may be a consequence of the intervention reported?						
18	Are the conclusions of the study supported by results?						
19	Is there a competing interest statement about the type and source of support received for the study or about the relationship of the author(s) or other contributors with the manufacturer of the technology?						

Table S2 Study details and quality findings										
Author (year)	Cohort size (n)	Males (n)	Age (mean), years	Study quality (Delphi)	Country	Hospital	Years of patient enrollment	Graft type	Primary technical success (%)	30-day mortality
Schoder (2007)	24	23	57	Н	Austria	Medical University of Vienna	2000–2005	Talent	100%	10.7%
Sayer (2008)	38	26	62.5	Μ	United Kingdom	St. George's Hospital	2000–2007	Valiant, Talent, Zenith, Excluder	NR	2.6%
Szeto (2008)	35	22	58.6	Н	United States	Hospital of University of Pennsylvania	2004–2007	TAG, Zenith, Medtronic	97.1%	2.8%
Alves (2009)	73	56	56.4	М	Brazil	Hospital São Paulo– UNIFESP and Hospital do Coração da Associação do Sanatório Sírio	1997–2004	NR	99%	6.6%
Conrad (2009)	33	26	58	Н	United States	Massachusetts General Hospital	2005–2007	TAG	NR	12%
Feezor (2009)	33	25	61	L	United States	UF Health Shands Hospital	2005–2007	TAG	NR	21%
Guangqi (2009)	72	65	72	Н	China	The First Affiliated Hospital of Sun Yat- sen University	2001–2006	Talent, Zenith, Ankura, Aegis	88.9%	1.4%
Manning (2009)	45	35	66	Н	Sweden	Malmo University Hospital UMAS	2001–2008	Zenith, TAG, Endofit, Relay	NR	12%
Patel (2009)	69	54	57.3	Μ	United States	University of Michigan Hospital	1997–2008	NR	95.7%	17.4%
Chemelli- Steingruber (2010)	38	29	64	Μ	Austria	University Hospital Innsbruck	1996–2008	Talent, Excluder, TAG	NR	23.7%
Ehrlich (2010)	32	25	56	Μ	Austria	Hospital Rudofstiftung	2001–2010	Talent	87%	12%
Zeeshan (2010)	45	32	59.1	Μ	United States	University of Pennsylvania Medical Center	2002–2010	TAG, Talent, Zenith	NR	4%
Jing-Dong (2011)	30	23	64	Μ	China	TongJi Hospital	2007–2008	NR	100%	6.7%
Kim (2011)	41	31	67.6	Н	United States	Harbor UCLA Medical Center	2002–2009	Talent, Valiant	92.5%	4.9%
Sfyroeras (2011)	23	20	60.9	Н	United States	Arizona Heart Hospital	1998–2009	TAG, Talent, Endofit	91%	9%
Steuer (2011)	60	40	68	Н	Sweden	Uppsala University	1999–2009	TAG, Relay	NR	3%
Ehrlich (2013)	29	22	61	Н	Germany	University Hospital Vienna	1998–2004	Talent	100%	17%
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 Table S2 (continued)

Table S2 (continued)										
Author (year)	Cohort size (n)	Males (n)	Age (mean), years	Study quality (Delphi)	Country	Hospital	Years of patient enrollment	Graft type	Primary technical success (%)	30-day mortality
Eriksson (2013)	51	18	63.8	Н	Sweden	Uppsala University Hospital	1999–2009	TAG, Talent, Valiant, TAG/Relay composite	100%	NR
Liu (2013)	33	27	47	Μ	China	First and Second Affiliated Hospital of Harbin Medical University	2009–2011	NR	100%	0%
Qin (2013)	152	137	63.61	Н	United States	Mie University Hospital	1997–2017	NR	94.7%	2%
Wilkinson (2013)	49	28	70.1	Μ	United States	University of Michigan Cardiovascular Center	1995–2012	TAG, Talent, Valiant, Zenith	100%	12%
Xiong (2013)	26	3	52.8	Н	China	Chines PLA General Hospital	2004–2010	Talent, Valiant, Zenith, Endofit, Hercules, Ankura	100%	15%
Hanna (2014)	50	36	59	Μ	United States	Duke University Medical Venter	2005–2012	TAG, Zenith, Talent, Valiant	98%	NR
Afifi (2015)	37	25	61.3	L	United States	Memorial Hermann Hospital	2001–2014	NR	NR	7.6%
Bavaria (2015)	50	40	57.2	Н	United States	The Heart Hospital	2010–2012	Valiant	100%	8%
Conrad (2015)	31	23	55	Η	United States	Massachusetts General hospital	2005–2009	NR	NR	NR
He (2015)	113	92	43	Н	China	The Third Xiangya Hospital of Central South University	2010–2013	Zenith, Relay, Talent, Hercules, Sinus-XL	95.9%	4.1%
Kische (2015)	35	27	63	Μ	Germany	Rostock University Medical Center	NR	Zenith, Valiant, Talent	NR	2.8%
Arafat (2016)	67	45	59.5	Η	United States	Cleveland Clinic	2005–2013	Zenith, TAG, Talent	95.4%	4.4%
Du (2016)	264	201	58.3	Μ	China	General Hospital of Shenyang Military Region	2002–2013	Talent, Valiant, Zenith	NR	1%
Fanelli (2016)	32	21	68	Н	Italy	University College Hospital Galway	2009–2011	TAG, Talent, Valiant, Zenith, Relay	93.1%	13.7%
Sobocinski (2016)	45	35	58.6	Н	France	Lille University Hospital	2007–2013	Zenith	NR	5.5%
Leshnower (2017)	51	34	55	Н	United States	Emory Healthcare	2012–2015	Valiant, Zenith, TAG	NR	3.9%
Table S2 (cont	inued)									

Table S2 (continued)										
Author (year)	Cohort size (n)	Males (n)	Age (mean), years	Study quality (Delphi)	Country	Hospital	Years of patient enrollment	Graft type	Primary technical success (%)	30-day mortality
Piffaretti (2017)	22	15	67	Н	Italy	Circolo University Teaching Hospital	2001–2014	NR	91%	14%
Zhang (2017)	60	43	63.2	Н	China	General Hospital of People's Liberation Army	2011–2013	NR	100%	2.4%
Chou (2018)	26	20	61	Μ	Taiwan	National Taiwan University Hospital	2008–2014	TAG, Zenith, Talent, Valiant, Relay	100%	4%
Faure (2018)	41	34	61	Н	France	Georges Pompidou European Hospital	2011–2017	Zenith	NR	2%
Lou (2018)	80	51	63.8	Μ	United States	Emory University School of Medicine	2000–2016	NR	NR	5%
Sobocinski (2019)	41	32	60	Н	France	Skane University Hospital	2005–2015	Zenith, TAG	NR	17.1%
Stelzmueller (2019)	55	40	52	Μ	Austria	Medical University of Vienna	2001–2016	NR	91%	9%
Zha (2019)	63	52	59.1	Μ	China	The First Affiliated Hospital of Anhui Medical University	2012–2016	Captiva, Zenith, Ankura, Grink	100%	4.3%
Zhou (2019)	45	43	50	Μ	China	Qingdao Municipal Hospital	2012–2016	NR	100%	NR
Eleshra (2020)	64	49	64.8	Μ	Germany	University Hospital Hamburg-Eppendorf	2010–2017	Zenith	97%	NR
Lou (2020)	39	24	52.1	Н	United States	Emory University School of Medicine	2012–2018	Valiant, Medtronic, Zenith, TAG	90%	6%
Norton (2020)	182	139	55	Н	United States	Michigan Medicine	1996–2018	NR	NR	7.7%
Sobocinski (2020)	41	32	58.8	Н	France	Institut Coeur- Poumon, Chu Lille and Skane University Hospital	2005–2015	NR	NR	17.1%

Age w/ standard deviation was reported as age (mean) for readability. Where age was reported as age (range), this was converted according to the methods of Wan et al. H, high; M, medium; L, low; NR, not reported.



Figure S2 Post-operative survival in AC-BAD in endovascular repair (high-quality subgroup analysis).



Figure S3 Freedom from reintervention in AC-BAD (high-quality subgroup analysis).