Supplementary

Table S1 Studies included in the meta–analysis

First Author	Title	Year Published	Journal	Study Date	Type of Study	Number of Patients	Total NOS score
Bennetts	Left ventricular reconstruction by modified linear technique with absorbable suture.	2007	Heart, lung & circulation	1999–2004	Prospective	52	6
Goh	Surgical ventricular restoration procedure: single-center comparison of Surgical Treatment of Ischemic Heart Failure (STICH) versus non-STICH patients.	2013	The Annals of thoracic surgery	2002–2006	Prospective	21	6
Raman	Failure modes of left ventricular reconstruction or the Dor procedure: a multi-institutional perspective.	2006	European journal of cardio-thoracic surgery	1997–2005	Retrospective	284	5
Bove	Short-term systolic and diastolic ventricular performance after surgical ventricular restoration for dilated ischemic cardiomyopathy.	2009	European journal of cardio-thoracic surgery	2005–2008	Retrospective	23	7
Silveira	A bovine pericardium rigid prosthesis for left ventricle restoration: 12 years of follow-up.	2011	Revista brasileira de cirurgia cardiovascular	1999–2007	Retrospective	72	6
Contreras	Left Ventricular Reconstruction Surgery in Candidates for Heart Transplantation.	2019	Brazilian journal of cardiovascular surgery	2010–2016	Retrospective	34	6
Prates	Late results of endoventricular patch plasty repair in akinetic and dyskinetic areas after acute myocardial infarction.	2002	Arquivos brasileiros de cardiologia	1991–2000	Retrospective	52	6
Gomes	The renewed concept of the Batista operation for ischemic cardiomyopathy: maximum ventricular reduction.	2011	Revista brasileira de cirurgia cardiovascular	2002–2008	Prospective	76	6
Campagnucci	Left ventricular aneurysmectomy with continuous beating heart: Early results	2006	Brazilian Journal of Cardiovascular Surgery	1997–2005	Retrospective	34	5
Mickleborough	Left ventricular reconstruction: Early and late results.	2004	The Journal of thoracic and cardiovascular surgery	1983–2002	Prospective	285	7
Wei	Left Ventricular Aneurysm Repair: Off-pump Linear Plication versus On-pump Patch Plasty.	2019	Brazilian journal of cardiovascular surgery	2006–2016	Retrospective	90	8
Cui	The Pacopexy procedure for left ventricular aneurysm: a 10-year clinical experience.	2020	Surgery today	1998–2015	Retrospective	92	6
Song	Results of Left Ventricular Reconstruction With and Without Mitral Valve Surgery.	2020	The Annals of thoracic surgery	1999–2017	Retrospective	523	7
Liu	Role of surgical ventricular restoration in the treatment of ischemic cardiomyopathy.	2013	The Annals of thoracic surgery	1998–2008	Case control	94	8
Yan	Impact of surgical ventricular restoration on early and long-term outcomes of patients with left ventricular aneurysm: A single-center experience.	2018	Medicine	2005–2015	Retrospective	102	5
Zheng	Single-centre experience with perioperative use of hypothermic fibrillatory arrest without aortic occlusion in left ventricular aneurysm resection concomitant with on-pump coronary artery bypass grafting	2017	Surgical Practice	2005–2012	Retrospective	12	5
Wang	Early results after surgical treatment of left ventricular aneurysm.	2012	Journal of cardiothoracic surgery	2000–2009	Retrospective	61	7
Lange	Absent long-term benefit of patch versus linear reconstruction in left ventricular aneurysm surgery.	2005	The Annals of thoracic surgery	1974–2000	Retrospective	305	7
Coskun	Surgical treatment of left ventricular aneurysm.	2009	Asian cardiovascular & thoracic annals	1993–2002	Retrospective	269	6
Doss	Long term follow up of left ventricular function after repair of left ventricular aneurysm. A comparison of linear closure versus patch plasty.	2001	European journal of cardio-thoracic surgery	1989–1996	Retrospective	52	7
Dill	Pre- and postoperative assessment of left ventricular function by magnetic resonance imaging and 2-D-echocardiography in patients undergoing left ventricular aneurysmectomy.	2004	The Thoracic and cardiovascular surgeon	1998–2001	Retrospective	31	4
Bechtel	The extent of akinesis is predictive of the in-hospital mortality from endoaneurysmorrhaphy	2005	Zeitschrift fur Kardiologie	1993–1999	Retrospective	147	5
Huther	Cardiac magnetic resonance imaging for the assessment of ventricular function, geometry, and viability before and after surgical ventricular reconstruction.	2011	The Journal of thoracic and cardiovascular surgery	2002–2008	Retrospective	24	5
Dardas	Left atrial function and work after surgical ventricular restoration in postmyocardial infarction heart failure.	2008	Journal of the American Society of Echocardiography	–	Prospective	15	4
Hartyanszky	Personalized surgical repair of left ventricular aneurysm with computer-assisted ventricular engineering.	2014	Interactive cardiovascular and thoracic surgery	1999–2013	Prospective	41	6

Table S1 (*continued*)

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Table S1 (*continued*)

First Author	Title	Year Published	Journal	Study Date	Type of Study	Number of Patients	Total NOS score
Rajakumar	Role of surgical ventricular restoration post surgical treatment of heart failure (STICH) trial	2019	Indian Journal of Thoracic and Cardiovascular Surgery	2009–2016	Retrospective	49	9
Jain	Beneficial effects of endoventricular circular patch plasty in patients with left ventricular systolic dysfunction and left ventricular dyskinetic or akinetic apical segment	2007	Indian Journal of Thoracic and Cardiovascular Surgery	–	Prospective	39	4
Haranal	Post infarction left ventricular aneurysm—our experience	2018	Indian Journal of Thoracic and Cardiovascular Surgery	2009–2013	Retrospective	25	6
Adhyapak	Stroke volume paradox in heart failure: mathematical validation.	2014	Asian cardiovascular & thoracic annals	2003–2006	Prospective	101	4
Dmello	Postmyocardial infarction left ventricular dysfunction - assessment and follow up of patients undergoing surgical ventricular restoration by the endoventricular patchplasty.	2013	Indian heart journal	2007–2008	Retrospective	52	5
Mandegar	Long-term effect of papillary muscle approximation combined with ventriculoplasty on left ventricle function in patients with ischemic cardiomyopathy and functional mitral regurgitation.	2011	European journal of cardio-thoracic surgery	2004–2005	Retrospective	30	4
Pocar	Predictors of adverse events after surgical ventricular restoration for advanced ischaemic cardiomyopathy.	2010	European journal of cardio-thoracic surgery	2000–2007	Retrospective	31	7
Castelvecchio	Longitudinal profile of NT-proBNP levels in ischemic heart failure patients undergoing surgical ventricular reconstruction: The Biomarker Plus study.	2018	International Journal of Cardiology	2012–2014	Prospective	143	7
Garatti	Surgical ventricular restoration: is there any difference in outcome between anterior and posterior remodeling?.	2015	The Annals of thoracic surgery	2001–2011	Retrospective	501	7
Menicanti	Ischemic mitral regurgitation: intraventricular papillary muscle imbrication without mitral ring during left ventricular restoration.	2002	The Journal of thoracic and cardiovascular surgery	1998–2000	Retrospective	46	4
Ferrazzi	Surgical ventricular restoration by means of a new technique to preserve left ventricular compliance: the horseshoe repair.	2008	The Journal of thoracic and cardiovascular surgery	2005–2006	Retrospective	15	5
Cirillo	Determinants of postinfarction remodeling affect outcome and left ventricular geometry after surgical treatment of ischemic cardiomyopathy.	2004	The Journal of thoracic and cardiovascular surgery	1997–2002	Prospective	45	7
Cirillo	Time series analysis of physiologic left ventricular reconstruction in ischemic cardiomyopathy.	2016	The Journal of thoracic and cardiovascular surgery	2006–2013	Prospective	29	6
Nardi	Long-term outcomes after surgical ventricular restoration and coronary artery bypass grafting in patients with postinfarction left ventricular anterior aneurysm.	2010	Journal of cardiovascular medicine	1994–2004	Retrospective	104	7
Cotrufo	Acute hemodynamic and functional effects of surgical ventricular restoration and heart transplantation in patients with ischemic dilated cardiomyopathy.	2008	The Journal of thoracic and cardiovascular surgery	2004–2006	Prospective	35	6
Cotrufo	Treatment of extensive ischemic cardiomyopathy: quality of life following two different surgical strategies.	2005	European journal of cardio-thoracic surgery	1996–2003	Retrospective	42	6
Calafiore	Left ventricular surgical restoration for anteroseptal scars: volume versus shape.	2010	The Journal of thoracic and cardiovascular surgery	1988–2008	Retrospective	308	7
Tanoue	Ventricular energetics in endoventricular circular patch plasty for dyskinetic anterior left ventricular aneurysm.	2003	The Annals of thoracic surgery	1994–2002	Retrospective	8	5
Fujii	Radionuclide study of mid-term left ventricular function after endoventricular circular patch plasty.	2004	European journal of cardio-thoracic surgery	–	Prospective	14	6
Ishikawa	Early results and operative considerations of endoventricular circular patch plasty for ischemic cardiomyopathy.	2002	Japanese heart journal	1998–2000	Retrospective	7	4
Yoshida	Prediction of long-term survival in patients with end-stage heart failure secondary to ischemic heart disease: Surgical correction and volumetric analysis	2015	Annals of Thoracic and Cardiovascular Surgery	2000–2012	Retrospective	74	6

Table S1 (*continued*)

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Table S1 (*continued*)

First Author	Title	Year Published	Journal	Study Date	Type of Study	Number of Patients	Total NOS score
Wakasa	Surgical strategy for ischemic mitral regurgitation adopting subvalvular and ventricular procedures.	2015	Annals of thoracic and cardiovascular surgery	1999–2013	Retrospective	34	7
Ueno	Mid-term changes of left ventricular geometry and function after Dor, SAVE, and Overlapping procedures.	2007	European journal of cardio-thoracic surgery	2000–2005	Retrospective	43	6
Kokaji	Changes in left ventricular volume and predictors of cardiac events after endoventricular circular patch plasty.	2004	The Japanese journal of thoracic and cardiovascular surgery	1996–2003	Prospective	30	7
Shimamoto	Clinical impact of diastolic function after surgical ventricular restoration.	2014	Asian cardiovascular & thoracic annals	1999–2012	Retrospective	71	6
Yamazaki	Impact of right ventricular volume and function evaluated using cardiovascular magnetic resonance imaging on outcomes after surgical ventricular reconstruction.	2018	European journal of cardio-thoracic surgery	2004–2016	Retrospective	53	6
Furukawa	Significance of preoperative right ventricular function on mid-term outcomes after surgical ventricular restoration for ischemic cardiomyopathy.	2019	General thoracic and cardiovascular surgery	2010–2016	Retrospective	19	6
Yamaguchi	Left ventricular reconstruction benefits patients with dilated ischemic cardiomyopathy.	2005	The Annals of thoracic surgery	1990–2004	Retrospective	20	7
Takeda	Long-term results of left ventricular reconstructive surgery in patients with ischemic dilated cardiomyopathy: a multicenter study.	2008	Circulation journal : official journal of the Japanese Circulation Society	1999–2007	Retrospective	72	6
Yamaguchi	Reduction of mitral valve leaflet tethering by procedures targeting the subvalvular apparatus in addition to mitral annuloplasty.	2013	Circulation journal: official journal of the Japanese Circulation Society	2007–2012	Retrospective	8	4
Kato	Surgical treatment of functional mitral regurgitation involving the subvalvular apparatus.	2015	Journal of cardiac surgery	2004–2012	Retrospective	15	5
Suma	Nontransplant cardiac surgery for end-stage cardiomyopathy.	2000	The Journal of thoracic and cardiovascular surgery	1996–1999	Prospective	33	7
Nakamura	Efficacy of modified endoventricular circular patch plasty in ischemic cardiomyopathy--innovative delimitation technique using integrated myocardial management.	2003	Journal of cardiac surgery	1998–2001	Prospective	14	6
Cho	Long-term results and mid-term features of left ventricular reconstruction procedures on left ventricular volume, geometry, function and mitral regurgitation.	2012	European journal of cardio-thoracic surgery	2002–2010	Prospective	60	7
Sawazaki	Endoventricular left ventriculoplasty: Overlap technique for akinetic scar	2000	Asian Cardiovascular and Thoracic Annals	1998–1998	Case Series	4	5
Butkuviene	The impact of surgical ventricular restoration on ischemic mitral regurgitation.	2011	Medicina	1999–2006	Retrospective	139	6
Di Donato	Effects of the Dor procedure on left ventricular dimension and shape and geometric correlates of mitral regurgitation one year after surgery.	2001	The Journal of thoracic and cardiovascular surgery	1997–1998	Retrospective	44	4
Di Donato	Intermediate survival and predictors of death after surgical ventricular restoration.	2001	Seminars in thoracic and cardiovascular surgery	1991–1996	Retrospective	207	7
Dor	Favorable effects of left ventricular reconstruction in patients excluded from the Surgical Treatments for Ischemic Heart Failure (STICH) trial.	2011	The Journal of thoracic and cardiovascular surgery	2002–2008	Prospective	117	7
Couperus	Right ventricular dysfunction after surgical left ventricular restoration: prevalence, risk factors and clinical implications.	2017	European journal of cardio-thoracic surgery	2006–2014	Prospective	86	6
Grandjean	Endoventriculoplasty using autologous endocardium for anterior left ventricular aneurysms	2005	Thoracic and Cardiovascular Surgeon	1990–2013	Retrospective	49	5
Lundblad	Surgery for left ventricular aneurysm: early and late survival after simple linear repair and endoventricular patch plasty.	2004	The Journal of thoracic and cardiovascular surgery	1989–2003	Retrospective	159	6
Bockeria	Left ventricular geometry reconstruction in ischemic cardiomyopathy patients with predominantly hypokinetic left ventricle.	2006	European journal of cardio-thoracic surgery	–	Prospective	14	5
Marchenko	Results of coronary artery bypass grafting alone and combined with surgical ventricular reconstruction for ischemic heart failure.	2011	Interactive cardiovascular and thoracic surgery	2005–2008	Retrospective	116	7
Marchenko	Left ventricular dimension and shape after postinfarction aneurysm repair.	2005	European journal of cardio-thoracic surgery	1997–2003	Retrospective	158	7

Table S1 (*continued*)

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Table S1 (*continued*)

First Author	Title	Year Published	Journal	Study Date	Type of Study	Number of Patients	Total NOS score
Babokin	Surgical ventricular reconstruction with endocardectomy along radiofrequency ablation-induced markings.	2013	The Journal of thoracic and cardiovascular surgery	2005–2011	Retrospective	168	5
Shipulin	Causes of repeated remodeling of left ventricle after Dor procedure.	2007	Interactive cardiovascular and thoracic surgery	1991–2007	Retrospective	36	7
Zhong	Improved aorto-ventricular matching in ischemic dilated cardiomyopathy patients after surgical ventricular restoration.	2011	Medical engineering & physics	–	Retrospective	4	5
Hwang	Surgical anterior ventricular endocardial restoration performed with total arterial revascularization: serial 5-year follow-up.	2014	The Journal of thoracic and cardiovascular surgery	1999–2005	Prospective	63	6
Lee	Changes in left ventricular function and dimension after surgical ventricular restoration with or without concomitant mitral valve procedure.	2007	Circulation journal : official journal of the Japanese Circulation Society	2001–2006	Prospective	49	6
Sartipy	The Dor procedure for left ventricular reconstruction. Ten-year clinical experience.	2005	European journal of cardio-thoracic surgery	1994–2004	Prospective	101	7
Yu	Why is the surgical ventricular restoration operation effective for ischemic cardiomyopathy? Geometric analysis with magnetic resonance imaging of changes in regional ventricular function after surgical ventricular restoration.	2009	The Journal of thoracic and cardiovascular surgery	–	Prospective	10	5
Chen	Left ventricular aneurysm repair: a comparison of linear versus patch remodeling.	2009	Journal of the Chinese Medical Association: JCMA	1996–2006	Retrospective	49	6
Kaya	Application of Circular Patch Plasty (Dor Procedure) or Linear Repair Techniques in the Treatment of Left Ventricular Aneurysms.	2018	Brazilian journal of cardiovascular surgery	1996–2016	Retrospective	89	8
Tekumit	Left ventricular aneurysm using the Dor technique: mid-term results.	2010	Journal of cardiac surgery	2001–2009	Retrospective	67	7
Kosar	Effects of coronary revascularization and concomitant aneurysmectomy on QT interval duration and dispersion.	2006	Journal of electrocardiology	2001–2004	Prospective	43	7
Toker	Posterobasal left ventricular aneurysms: surgical treatment and long-term outcomes.	2013	Texas Heart Institute journal	1993–2009	Retrospective	18	5
Kalkat	Left ventricular aneurysmectomy: tailored scar excision and linear closure.	2006	Asian cardiovascular & thoracic annals	1992–2003	Retrospective	102	6
Oneill	The impact of left ventricular reconstruction on survival in patients with ischemic cardiomyopathy.	2006	European journal of cardio-thoracic surgery	1997–2003	Retrospective	220	6
Skelley	The impact of volume reduction on early and long-term outcomes in surgical ventricular restoration for severe heart failure.	2011	The Annals of thoracic surgery	2002–2008	Retrospective	87	6
Hobbs	Long-Term Survival and Echocardiographic Findings After Surgical Ventricular Restoration.	2019	The Annals of thoracic surgery	1992–2017	Retrospective	109	7
Adams	Does preoperative ejection fraction predict operative mortality with left ventricular restoration?.	2006	The Annals of thoracic surgery	1996–2005	Retrospective	89	6
Aliyev	Left Ventricular Aneurysm Repair with Endoaneurysmorrhaphy Technique: An Assessment of Two Different Ventriculotomy Closure Methods.	2016	The heart surgery forum	1997–2009	Retrospective	73	5
Castiglioni	Surgical restoration of the left ventricle for postinfarction aneurysm.	2002	Italian heart journal	1997–2001	Retrospective	94	6
Roscitano	Left ventricular aneurysm repair: early survival.	2005	Italian heart journal	1993–2003	Retrospective	51	6
Soloman	Surgical repair of left ventricular aneurysms: a comparative evaluation of linear versus Dor's repair.	2001	Indian Heart Journal	1988–2001	Retrospective	95	5
Stefaneli	Cell therapy and left ventricular restoration for ischemic cardiomyopathy: long-term results of a perspective, randomized study	2019	Minerva Cardioangiologica	2007–2013	Prospective	14	7

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Table S2 Newcastle–Ottawa Scale Bias Assessment

Study title	Representative of the exposed cohort	Selection of the nonexposed cohort	Ascertainment of exposure	Outcome of interest was not present at start of study	Comparability of cohorts on the bases of the design or analysis	Assessment of outcome	Was follow-up long enough for outcome to occur	Adequacy of followup	Total
Left ventricular reconstruction by modified linear technique with absorbable suture.	1	0	1	1	0	1	1	1	6
Surgical ventricular restoration procedure: single-center comparison of Surgical Treatment of Ischemic Heart Failure (STICH) versus non-STICH patients.	1	0	1	1	0	1	1	1	6
Failure modes of left ventricular reconstruction or the Dor procedure: a multi-institutional perspective.	1	0	1	1	0	1	1	0	5
Short-term systolic and diastolic ventricular performance after surgical ventricular restoration for dilated ischemic cardiomyopathy.	1	1	1	1	0	1	1	1	7
A bovine pericardium rigid prosthesis for left ventricle restoration: 12 years of follow-up.	1	0	1	1	0	1	1	1	6
Left Ventricular Reconstruction Surgery in Candidates for Heart Transplantation.	1	0	1	1	0	1	1	1	6
Late results of endoventricular patch plasty repair in akinetic and dyskinetic areas after acute myocardial infarction.	1	0	1	1	0	1	1	1	6
The renewed concept of the Batista operation for ischemic cardiomyopathy: maximum ventricular reduction.	1	0	1	1	0	1	1	1	6
Left ventricular aneurysmectomy with continuous beating heart: Early results	1	0	1	1	0	1	0	1	5
Left ventricular reconstruction: Early and late results.	1	0	1	1	1	1	1	1	7
Left Ventricular Aneurysm Repair: Off-pump Linear Plication versus On-pump Patch Plasty.	1	0	1	1	2	1	1	1	8
The Pacopexy procedure for left ventricular aneurysm: a 10-year clinical experience.	1	0	1	1	0	1	1	1	6
Results of Left Ventricular Reconstruction With and Without Mitral Valve Surgery.	1	0	1	1	1	1	1	1	7
Role of surgical ventricular restoration in the treatment of ischemic cardiomyopathy.	1	1	1	1	1	1	1	1	8
Impact of surgical ventricular restoration on early and long-term outcomes of patients with left ventricular aneurysm: A single-center experience.	1	0	1	1	0	1	1	0	5
Single-centre experience with perioperative use of hypothermic fibrillatory arrest without aortic occlusion in left ventricular aneurysm resection concomitant with on-pump coronary artery bypass grafting	0	0	1	1	0	1	1	1	5
Early results after surgical treatment of left ventricular aneurysm.	1	0	1	1	1	1	1	1	7
Absent long-term benefit of patch versus linear reconstruction in left ventricular aneurysm surgery.	1	0	1	1	1	1	1	1	7
Surgical treatment of left ventricular aneurysm.	1	0	1	1	0	1	1	1	6
Long term follow up of left ventricular function after repair of left ventricular aneurysm. A comparison of linear closure versus patch plasty.	1	0	1	1	2	1	1	0	7

Table S2 (*continued*)

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Table S2 (*continued*)

Study title	Representative of the exposed cohort	Selection of the nonexposed cohort	Ascertainment of exposure	Outcome of interest was not present at start of study	Comparability of cohorts on the bases of the design or analysis	Assessment of outcome	Was follow-up long enough for outcome to occur	Adequacy of followup	Total
Pre- and postoperative assessment of left ventricular function by magnetic resonance imaging and 2-D-echocardiography in patients undergoing left ventricular aneurysmectomy.	0	0	1	1	0	1	0	1	4
The extent of akinesis is predictive of the in-hospital mortality from endoaneurysmorrhaphy	1	0	1	1	1	1	0	1	5
Cardiac magnetic resonance imaging for the assessment of ventricular function, geometry, and viability before and after surgical ventricular reconstruction.	0	0	1	1	0	1	1	1	5
Left atrial function and work after surgical ventricular restoration in postmyocardial infarction heart failure.	0	0	1	1	0	1	0	1	4
Personalized surgical repair of left ventricular aneurysm with computer-assisted ventricular engineering.	1	0	1	1	0	1	1	1	6
Role of surgical ventricular restoration post surgical treatment of heart failure (STICH) trial	1	1	1	1	2	1	1	1	9
Beneficial effects of endoventricular circular patch plasty in patients with left ventricular systolic dysfunction and left ventricular dyskinetic or akinetic apical segment	1	0	1	1	0	1	0	0	4
Post infarction left ventricular aneurysm—our experience	1	0	1	1	0	1	1	1	6
Stroke volume paradox in heart failure: mathematical validation.	1	0	1	1	0	1	0	0	4
Postmyocardial infarction left ventricular dysfunction - assessment and follow up of patients undergoing surgical ventricular restoration by the endoventricular patchplasty.	1	0	1	1	0	1	0	1	5
Long-term effect of papillary muscle approximation combined with ventriculoplasty on left ventricle function in patients with ischemic cardiomyopathy and functional mitral regurgitation.	0	0	1	1	0	1	1	0	4
Predictors of adverse events after surgical ventricular restoration for advanced ischaemic cardiomyopathy.	0	0	1	1	2	1	1	1	7
Longitudinal profile of NT-proBNP levels in ischemic heart failure patients undergoing surgical ventricular reconstruction: The Biomarker Plus study.	1	0	1	1	1	1	1	1	7
Surgical ventricular restoration: is there any difference in outcome between anterior and posterior remodeling?.	1	0	1	1	1	1	1	1	7
Ischemic mitral regurgitation: intraventricular papillary muscle imbrication without mitral ring during left ventricular restoration.	0	0	1	1	1	1	0	0	4
Surgical ventricular restoration by means of a new technique to preserve left ventricular compliance: the horseshoe repair.	0	0	1	1	1	1	0	1	5
Determinants of postinfarction remodeling affect outcome and left ventricular geometry after surgical treatment of ischemic cardiomyopathy.	1	0	1	1	1	1	1	1	7
Time series analysis of physiologic left ventricular reconstruction in ischemic cardiomyopathy.	1	0	1	0	1	1	1	1	6

Table S2 (*continued*)

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Table S2 (*continued*)

Study title	Representative of the exposed cohort	Selection of the nonexposed cohort	Ascertainment of exposure	Outcome of interest was not present at start of study	Comparability of cohorts on the bases of the design or analysis	Assessment of outcome	Was follow-up long enough for outcome to occur	Adequacy of followup	Total
Long-term outcomes after surgical ventricular restoration and coronary artery bypass grafting in patients with postinfarction left ventricular anterior aneurysm.	1	0	1	1	1	1	1	1	7
Acute hemodynamic and functional effects of surgical ventricular restoration and heart transplantation in patients with ischemic dilated cardiomyopathy.	1	0	1	1	1	1	0	1	6
Treatment of extensive ischemic cardiomyopathy: quality of life following two different surgical strategies.	1	0	1	1	1	0	1	1	6
Left ventricular surgical restoration for anteroseptal scars: volume versus shape.	1	1	1	1	1	1	1	0	7
Ventricular energetics in endoventricular circular patch plasty for dyskinetic anterior left ventricular aneurysm.	0	0	1	1	1	1	0	1	5
Radionuclide study of mid-term left ventricular function after endoventricular circular patch plasty.	0	0	1	1	1	1	1	1	6
Early results and operative considerations of endoventricular circular patch plasty for ischemic cardiomyopathy.	0	0	1	1	0	1	0	1	4
Prediction of long-term survival in patients with end-stage heart failure secondary to ischemic heart disease: Surgical correction and volumetric analysis	1	0	1	1	1	1	1	0	6
Surgical strategy for ischemic mitral regurgitation adopting subvalvular and ventricular procedures.	1	0	1	1	1	1	1	1	7
Mid-term changes of left ventricular geometry and function after Dor, SAVE, and Overlapping procedures.	1	0	1	1	1	1	0	1	6
Changes in left ventricular volume and predictors of cardiac events after endoventricular circular patch plasty.	1	0	1	1	1	1	1	1	7
Clinical impact of diastolic function after surgical ventricular restoration.	0	0	1	1	1	1	1	1	6
Impact of right ventricular volume and function evaluated using cardiovascular magnetic resonance imaging on outcomes after surgical ventricular reconstruction.	1	0	1	1	1	1	1	0	6
Significance of preoperative right ventricular function on mid-term outcomes after surgical ventricular restoration for ischemic cardiomyopathy.	0	0	1	1	1	1	1	1	6
Left ventricular reconstruction benefits patients with dilated ischemic cardiomyopathy.	1	0	1	1	1	1	1	1	7
Long-term results of left ventricular reconstructive surgery in patients with ischemic dilated cardiomyopathy: a multicenter study.	1	0	1	1	1	1	1	0	6
Reduction of mitral valve leaflet tethering by procedures targeting the subvalvular apparatus in addition to mitral annuloplasty.	0	0	1	0	1	1	0	1	4
Surgical treatment of functional mitral regurgitation involving the subvalvular apparatus.	0	0	1	1	1	1	1	0	5
Nontransplant cardiac surgery for end-stage cardiomyopathy.	1	0	1	1	1	1	1	1	7

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Study title	Representative of the exposed cohort	Selection of the nonexposed cohort	Ascertainment of exposure	Outcome of interest was not present at start of study	Comparability of cohorts on the bases of the design or analysis	Assessment of outcome	Was follow-up long enough for outcome to occur	Adequacy of followup	Total
Efficacy of modified endoventricular circular patch plasty in ischemic cardiomyopathy--innovative delimitation technique using integrated myocardial management.	1	0	1	1	1	1	0	1	6
Long-term results and mid-term features of left ventricular reconstruction procedures on left ventricular volume, geometry, function and mitral regurgitation.	1	0	1	1	1	1	1	1	7
Endoventricular left ventriculoplasty: Overlap technique for akinetic scar	0	0	1	1	1	1	0	1	5
The impact of surgical ventricular restoration on ischemic mitral regurgitation.	1	0	1	1	1	1	1	0	6
Effects of the Dor procedure on left ventricular dimension and shape and geometric correlates of mitral regurgitation one year after surgery.	1	0	1	0	1	1	0	0	4
Intermediate survival and predictors of death after surgical ventricular restoration.	1	0	1	1	1	1	1	1	7
Favorable effects of left ventricular reconstruction in patients excluded from the Surgical Treatments for Ischemic Heart Failure (STICH) trial.	1	0	1	1	1	1	1	1	7
Right ventricular dysfunction after surgical left ventricular restoration: prevalence, risk factors and clinical implications.	0	0	1	1	1	1	1	1	6
Endoventriculoplasty using autologous endocardium for anterior left ventricular aneurysms	1	0	1	1	0	1	0	1	5
Surgery for left ventricular aneurysm: early and late survival after simple linear repair and endoventricular patch plasty.	0	0	1	1	1	1	1	1	6
Left ventricular geometry reconstruction in ischemic cardiomyopathy patients with predominantly hypokinetic left ventricle.	0	0	1	1	1	1	0	1	5
Results of coronary artery bypass grafting alone and combined with surgical ventricular reconstruction for ischemic heart failure.	1	0	1	1	1	1	1	1	7
Left ventricular dimension and shape after postinfarction aneurysm repair.	1	1	1	1	1	1	1	0	7
Surgical ventricular reconstruction with endocardectomy along radiofrequency ablation-induced markings.	1	0	1	1	1	1	0	0	5
Causes of repeated remodeling of left ventricle after Dor procedure.	1	1	1	1	1	1	0	1	7
Improved aorto-ventricular matching in ischemic dilated cardiomyopathy patients after surgical ventricular restoration.	0	0	1	1	1	1	0	1	5
Surgical anterior ventricular endocardial restoration performed with total arterial revascularization: serial 5-year follow-up.	1	0	1	1	1	1	1	0	6
Changes in left ventricular function and dimension after surgical ventricular restoration with or without concomitant mitral valve procedure.	0	0	1	1	1	1	1	1	6
The Dor procedure for left ventricular reconstruction. Ten-year clinical experience.	1	0	1	1	1	1	1	1	7

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Table S2 (*continued*)

Study title	Representative of the exposed cohort	Selection of the nonexposed cohort	Ascertainment of exposure	Outcome of interest was not present at start of study	Comparability of cohorts on the bases of the design or analysis	Assessment of outcome	Was follow-up long enough for outcome to occur	Adequacy of followup	Total
Why is the surgical ventricular restoration operation effective for ischemic cardiomyopathy? Geometric analysis with magnetic resonance imaging of changes in regional ventricular function after surgical ventricular restoration.	1	0	1	1	0	1	0	1	5
Left ventricular aneurysm repair: a comparison of linear versus patch remodeling.	1	0	1	0	1	1	1	1	6
Application of Circular Patch Plasty (Dor Procedure) or Linear Repair Techniques in the Treatment of Left Ventricular Aneurysms.	1	1	1	1	1	1	1	1	8
Left ventricular aneurysm using the Dor technique: mid-term results.	1	0	1	1	1	1	1	1	7
Effects of coronary revascularization and concomitant aneurysmectomy on QT interval duration and dispersion.	1	0	1	1	1	1	1	1	7
Posterobasal left ventricular aneurysms: surgical treatment and long-term outcomes.	0	0	1	1	0	1	1	1	5
Left ventricular aneurysmectomy: tailored scar excision and linear closure.	1	0	1	1	0	1	1	1	6
The impact of left ventricular reconstruction on survival in patients with ischemic cardiomyopathy.	1	0	1	1	0	1	1	1	6
The impact of volume reduction on early and long-term outcomes in surgical ventricular restoration for severe heart failure.	1	0	1	1	0	1	1	1	6
Long-Term Survival and Echocardiographic Findings After Surgical Ventricular Restoration.	1	0	1	1	1	1	1	1	7
Does preoperative ejection fraction predict operative mortality with left ventricular restoration?.	1	0	1	1	1	1	1	0	6
Left Ventricular Aneurysm Repair with Endoaneurysmorrhaphy Technique: An Assessment of Two Different Ventriculotomy Closure Methods.	0	0	1	1	1	1	1	0	5
Surgical restoration of the left ventricle for postinfarction aneurysm.	1	0	1	1	0	1	1	1	6
Left ventricular aneurysm repair: early survival.	1	0	1	1	0	1	1	1	6
Surgical repair of left ventricular aneurysms: a comparative evaluation of linear versus Dor's repair.	1	0	1	1	0	1	1	0	5
Cell therapy and left ventricular restoration for ischemic cardiomyopathy: long-term results of a perspective, randomized study	1	0	1	1	1	1	1	1	7

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