

**Thoracic Endovascular Aortic Repair With Left Subclavian Artery Coverage Is Associated With a High 30-Day Stroke Incidence With or Without Concomitant Revascularization** Rens R.B. Varkevisser et al. *J Endovasc Ther.* 2020;27(5).

**Supplementary Table 1.** Primary or Concurrent CPT Codes Used to Identify TEVAR and LSA Revascularization Procedures.

CPT Code	TEVAR + LSA Coverage Cases	Description
33889	102	Open subclavian to carotid artery transposition performed in conjunction with endovascular repair of descending thoracic aorta, by neck incision, unilateral
33891	19	Bypass graft, with other than vein, transcervical retropharyngeal carotid-carotid, performed in conjunction with endovascular repair of descending thoracic aorta, by neck incision
35506	8	Bypass graft, with vein; common carotid-ipsilateral internal carotid carotid-subclavian or subclavian-carotid
35509	1	Bypass graft, with vein; carotid-contralateral carotid
35510	0	Bypass graft, with vein; carotid-brachial
35511	0	Bypass graft, with vein; subclavian-subclavian
35512	0	Bypass graft, with vein; subclavian-brachial
35515	0	Bypass graft, with vein; subclavian-vertebral
35516	0	Bypass graft, with vein; subclavian-axillary
35518	0	Bypass graft, with vein; axillary-axillary
35606	104	Bypass graft, with other than vein; carotid-subclavian
35612	0	Bypass graft, with other than vein; subclavian-subclavian
35616	0	Bypass graft, with other than vein; subclavian-axillary
35642	0	Bypass graft, with other than vein; carotid-vertebral
35650	0	Bypass graft, with other than vein; axillary-axillary
35691	6	Transposition and/or reimplantation; vertebral to carotid artery
35693	0	Transposition and/or reimplantation; vertebral to subclavian artery
35694	6	Transposition and/or reimplantation; subclavian to carotid artery
35695	1	Transposition and/or reimplantation; carotid to subclavian artery

Abbreviations: CPT, current procedural terminology; LSA, left subclavian artery; TEVAR, thoracic endovascular aortic repair.

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**Supplementary Table 2.** Included Primary Postoperative Diagnosis Codes for Isolated LSA Revascularizations.

ICD-9	ICD-10	Description
435.2	G45.8	Subclavian steal syndrome
435.3	G45.0	Vertebrobasilar artery syndrome
440.0	I70.0	Atherosclerosis of aorta
440.20	I70.209	Atherosclerosis of native arteries of the extremities unspecified
440.21	I70.219	Atherosclerosis of native arteries of the extremities with intermittent claudication
440.22	I70.229	Atherosclerosis of native arteries of the extremities with rest pain
440.23	I70.025	Atherosclerosis of native arteries of the extremities with ulceration
440.29	I70.299	Atherosclerosis, of native extremity arteries, not elsewhere classifiable
440.8	I70.8	Atherosclerosis of other specified arteries
447.1	I77.1	Stricture of artery

Abbreviations: ICD, International Classification of Diseases, 9th or 10<sup>th</sup> revision; LSA, left subclavian artery.

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**Supplementary Table 3.** Cases Excluded Based on Primary CPT Codes.

CPT Code	Description
33506	Repair of anomalous coronary artery from pulmonary artery origin; by translocation from pulmonary artery to aorta
33510	Coronary artery bypass, vein only; single coronary venous graft
33800	Aortic suspension (aortopexy) for tracheal decompression (eg, for tracheomalacia) (separate procedure)
33860	Ascending aorta graft, with cardiopulmonary bypass, includes valve suspension, when performed
33875	Descending thoracic aorta graft, with or without bypass
33877	Repair of thoracoabdominal aortic aneurysm with graft, with or without cardiopulmonary bypass
34800	Endovascular repair of infrarenal abdominal aortic aneurysm or dissection; using aorto-aortic tube prosthesis
34802	Endovascular repair of infrarenal abdominal aortic aneurysm or dissection; using modular bifurcated prosthesis (1 docking limb)
34803	Endovascular repair of infrarenal abdominal aortic aneurysm or dissection; using modular bifurcated prosthesis (2 docking limbs)
34804	Endovascular repair of infrarenal abdominal aortic aneurysm or dissection; using unibody bifurcated prosthesis
34900	Endovascular repair of iliac artery (eg, aneurysm, pseudoaneurysm, arteriovenous malformation, trauma) using ilio-iliac tube endoprosthesis
35081	Direct repair of aneurysm, pseudoaneurysm, or excision (partial or total) and graft insertion, with or without patch graft; for aneurysm, pseudoaneurysm, and associated occlusive disease, abdominal aorta
35091	Direct repair of aneurysm, pseudoaneurysm, or excision (partial or total) and graft insertion, with or without patch graft; for aneurysm, pseudoaneurysm, and associated occlusive disease, abdominal aorta involving visceral vessels (mesenteric, celiac, renal)
35141	Direct repair of aneurysm, pseudoaneurysm, or excision (partial or total) and graft insertion, with or without patch graft; for aneurysm, pseudoaneurysm, and associated occlusive disease, common femoral artery (profunda femoris, superficial femoral)
35571	Bypass graft, with vein; popliteal-tibial, -peroneal artery or other distal vessels
35626	Bypass graft, with other than vein; aortosubclavian, aortoinnominate, or aortocarotid
35631	Bypass graft, with other than vein; aortoceliac, aortomesenteric,

	aortorenal
35636	Bypass graft, with other than vein; splenorenal (splenic to renal arterial anastomosis)
35647	Bypass graft, with other than vein; aortofemoral
35656	Bypass graft, with other than vein; femoral-popliteal
35665	Bypass graft, with other than vein; iliofemoral
37205	Revascularization, endovascular, open or percutaneous, iliac artery, unilateral, initial vessel; with transluminal angioplasty
37220	Revascularization, endovascular, open or percutaneous, iliac artery, unilateral, initial vessel; with transluminal angioplasty
37221	Revascularization, endovascular, open or percutaneous, iliac artery, unilateral, initial vessel; with transluminal stent placement(s), includes angioplasty within the same vessel, when perform
37616	Ligation, major artery (eg, post-traumatic, rupture); chest
37799	Unlisted procedure, vascular surgery

Abbreviations: CPT, current procedural terminology.