

Image Guided Therapy

Diagnostic and Interventional Procedures

2019 Coding and Medicare national payment guide

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ICD-10 coding

ICD-10-CM diagnosis

Due to the varying coding options available, specific ICD-10 diagnosis codes are not listed in this guide. Refer to ICD-10-CM 2019: The Complete Official Codebook for complete coding options.

ICD-10 procedure

Possible ICD-10 procedure code options are listed in Appendices A-E of this guide. See the table of contents on the following page for appendix corresponding to indication of interest. This is not an all-inclusive list of coding options. Refer to ICD-10-PCS 2019: The Complete Official Codebook for complete coding options and guidelines.

Questions

Contact Philips Reimbursement Resource Center Phone: (916) 281-2840 Email: IGTDReimbursement@philips.com

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Coronary

Hospital inpatient - Diagnosis Related Groups (DRG)

MS-DRG	Description	Medicare 2019 payment ³
231	Coronary bypass with PTCA with MCC ⁴	\$51,279
232	Coronary bypass with PTCA without MCC	\$37,612
246	Percutaneous cardiovascular proc with drug-eluting stent with MCC or 4+ vessels/stents	\$19,774
247	Percutaneous cardiovascular proc with drug eluting stent without MCC	\$12,682
248	Percutaneous cardiovascular proc w non-drug-eluting stent with MCC or 4+ vessels/stents	\$19,370
249	Percutaneous cardiovascular proc w non-drug-eluting stent without MCC	\$12,151
250	Percutaneous cardiovascular procedures without coronary artery stent with MCC	\$15,794
251	Percutaneous cardiovascular procedures without coronary artery stent without MCC	\$10,244
286	Circulatory disorders except AMI, with card cath with MCC	\$13,315
287	Circulatory disorders except AMI, with card cath without MCC	\$6,954

Hospital outpatient, ASC, physician

		Medicare 2019 payment ^{5,6}							
				Physicia		ASC	Hospital outpatient APC		
			Facility (hospit	y ⁷ tal/ASC)	Non facility ⁸ (OBL)				
CPT code ⁹	CPT description	Work RVU ¹⁰	Total RVU ¹⁰	Payment ¹¹	Total RVU ¹⁰	Payment ¹¹	Payment	Group/status payment ¹²	
Cardiac	catheterization								
93454	Catheter placement in coronary artery(s) for coronary angiography, inc intraprocedural injection(s) for coronary angiography, imaging S&I	4.54	7.01	\$253	24.85	\$896	\$1,359	5191/ J1 \$2,810	
93455	; with catheter placement(s) in bypass graft(s), inc intra procedural injection(s) for bypass graft angiography	5.29	8.17	\$294	28.64	\$1,032	\$1,359	5191 / J1 \$2,810	
93456	; with right heart catheterization	5.90	9.11	\$328	31.47	\$1,134	\$1,359	5191 / J1 \$2,810	
93457	; with catheter placement(s) in bypass graft(s) (inc intra-procedural injection(s) for bypass graft angiography and right heart cath	6.64	10.24	\$369	35.18	\$1,268	\$1,359	5191 / J1 \$2,810	
93458	; with left heart cath including intraprocedural inj for left ventriculography, if performed	5.60	8.65	\$312	29.5	\$1,063	\$1,359	5191 / J1 \$2,810	

				Ме	dicare 20	019 paymen	t ^{5,6}	
			Facility	Physicia / ⁷	n Non fa	cility ⁸	ASC	Hospital outpatient
				al/ASC)	(OBL)	-		APC
CPT code ⁹	CPT description	Work RVU ¹⁰	Total RVU ¹⁰	Payment ¹¹	Total RVU ¹⁰	Payment ¹¹	Payment	Group/status payment ¹²
93459	; with left heart cath Inc intra- procedural injection(s) for left ventriculography catheter placement(s) in bypass graft(s) with bypass graft angiography	6.35	9.79	\$353	32.4	\$1,168	\$1,359	5191 / J1 \$2,810
93460	; with right and left heart cath inc intraprocedural injection(s) for left ventriculography, when performed	7.10	10.95	\$395	35.39	\$1,275	\$1,359	5191 / J1 \$2,810
93461	; with right and left heart cath inc intraprocedural injection(s) for left ventriculography, when performed, catheter placement(s) in bypass graft(s) with bypass graft angiography	7.85	12.12	\$437	40.07	\$1,444	\$1,359	5191 / J1 \$2,810
+93563	Injection procedure during cardiac cath inc imaging S&I and report; for selective coronary angio during congenital heart cath (List separately in addition to code for primary procedure)	1.11	1.69	\$61	1.69	\$61	Pkgd	Pkgd
+93564	; for selective opacification of aorto- coronary venous or arterial bypass graft(s) to one or more coronary arteries and in situ arterial conduits, whether native or used for bypass to 1 or more coronary arteries during congenital heart cath(List separately in addition to code for primary procedure)	1.13	1.79	\$65	1.79	\$65	Pkgd	Pkgd
Coronary	intravascular ultrasound (IVUS)							
+92978	Endoluminal imaging of coronary vessel or graft using intra-vascular ultrasound (IVUS) or optical coherence tomography (OCT) during diagnostic eval and/or therapeutic intervention inc imaging supervision, interp and report: initial vessel (List separately in addition to code for primary procedure)	1.80	2.79	\$101	0.0	\$0	Pkgd	Pkgd
+92979	: each additional vessel (List separately in addition to code for primary procedure)	1.44	2.22	\$80	0.0	\$0	Pkgd	Pkgd

		Medicare 2019 payment ^{5,6}								
			Eacility	Physicia	1	cility 8	ASC	Hospital outpatient		
			Facility ⁷ (hospital/ASC)		Non facility ⁸ (OBL)			APC		
CPT code ⁹	CPT description	Work RVU ¹⁰	Total RVU ¹⁰	Payment ¹¹	Total RVU ¹⁰	Payment ¹¹	Payment	Group/status payment ¹²		
Fractiona	ll Flow Reserve (FFR) and instant wave	-Free Ra	tio (the	iFR modality	y)					
+93571	Intravascular Doppler velocity and/or pressure derived coronary flow reserve measurement (coronary vessel or graft) during coronary angiography including pharmacologically induced stress; initial vessel (List separately in addition to code for primary procedure)	1.38	2.24	\$81	0.0	\$0	Pkgd	Pkgd		
+93572	; each addl vessel (List separately in addition to code for primary procedure)	1.00	1.81	\$65	0.0	\$0	Pkgd	Pkgd		
Coronary	intervention									
92920	Percutaneous transluminal coronary angioplasty; single major coronary artery or branch	9.85	15.49	\$558	Not payable			5192 / J1 \$4,679		
+92921	; each additional branch of a major coronary artery (List separately in addition to code for primary procedure)	0	0	\$0		Not payab	le	Pkgd		
92924	Percutaneous transluminal coronary atherectomy, with coronary angioplasty when performed; single major coronary artery or branch	11.74	18.48	\$666		Not payab	le	5193 / J1 \$9,669		
+92925	; each addl branch of a major coronary artery (List separately in addition to code for primary procedure)	0	0	\$0	Not payable			Pkgd		
92928	Percutaneous transcatheter placement of intracoronary stent(s), with coronary angio-plasty when performed; single major coronary artery or branch	10.96	17.24	\$621	Not payable			5193 / J1 \$9,669		
+92929	; each addl branch of a major coronary artery (List separately in addition to code for primary procedure)	0	0	\$0		Not payab	le	Pkgd		

				Ме	dicare 2	019 paymen	t ^{5,6}	
			1	Physicia				Hospital
			Facility (hospit	/ ⁷ :al/ASC)	Non fa (OBL)	cility ⁸	ASC	outpatient APC
CPT code ⁹	CPT description	Work RVU ¹⁰	Total RVU ¹⁰	Payment ¹¹	Total RVU ¹⁰	Payment ¹¹	Payment	Group/status payment ¹²
92933	Percutaneous transluminal coronary atherectomy, with intracoronary stent, with coronary angioplasty when performed; single major coronary artery or branch	12.29	19.34	\$697		Not payab	5194 / J1 \$15,355	
+92934	; each addl branch of a major coronary artery (List separately in addtn to primary procedure)	0	0	\$0		Not payab	le	Pkgd
92937	Percutaneous transluminal revascularization of or through CABG, any combination of intra- coronary stent, atherectomy and angioplasty, inc distal protection when performed; single vessel	10.95	17.23	\$621	Not payable			5193 / J1 \$9,669
+92938	; each addl branch subtended by the bypass graft (List separately in addition to code for primary procedure)	0	0	\$0	Not payable			Pkgd
92941	Percutaneous transluminal revasc of acute total/subtotal occlusion during AMI, coronary artery or CABG, any comb of intracoronary stent, atherectomy and angioplasty, inc aspiration thrombectomy when performed, single vessel	12.31	19.39	\$699	Not payable			NA Inpatient only
92943	Percutaneous transluminal revascularization of chronic total occlusion, coronary artery, coronary artery branch, or CABG, any combination of intracoronary stent, atherectomy and angioplasty; single vessel	12.31	19.38	\$698	Not payable			5193 / J1 \$9,669
+92944	; each addl coronary artery, coronary artery branch, or bypass graft (List separately in addition to code for primary procedure)	0	0	\$0		Not payab	le	Pkgd
Drug-elut	ting stent (DES)							

				Ме	t ^{5,6}			
				Physicia	-	Hospital		
			Facility (hospit	/ ⁷ :al/ASC)	Non fa (OBL)	cility ⁸	ASC	outpatient APC
CPT code ⁹	CPT description	Work RVU ¹⁰	Total RVU ¹⁰	Payment ¹¹	Total RVU ¹⁰	Payment ¹¹	Payment	Group/status payment ¹²
+C9601	; each additional branch of a major coronary artery		Facil	ity-only (dev	vice) cod	e	Not payable	Pkgd
C9602	Percutaneous transluminal coronary atherectomy, with drug eluting intracoronary stent, with coronary angioplasty when performed; single major coronary artery or branch		Facil	ity-only (dev	Not payable	5194 / J1 \$15,355		
+C9603	; each addl branch of a major coronary artery (List separately in addition to code for primary procedure)		Facil	ity-only (dev	Not payable	Pkgd		
C9604	Percutaneous transluminal revascularization of or through CABG, any combination of drug-eluting intracoronary stent, atherectomy and angioplasty, including distal protection when performed; single vessel	Facility-only (device) code					Not payable	5193 / J1 \$9,669
+C9605	; each additional branch subtended by the bypass graft (List separately in addition to primary procedure)		Facility-only (device) code					Pkgd
C9606	Percutaneous transluminal revascularization of acute total/ subtotal occlusion during acute myocardial infarction, coronary artery or CABG, any combination of drug-eluting intracoronary stent, atherectomy and angio, inc aspiration thrombectomy when performed, single vessel		Facility-only (device) code				Not payable	Inpatient only procedure
C9607	Percutaneous transluminal revascularization of chronic total occlusion, coronary artery, coronary artery branch, or coronary artery bypass graft, any combination of drug-eluting intracoronary stent, atherectomy and angioplasty; single vessel		Facility-only (device) code				Not payable	5194 / J1 \$15,355
+C9608	; each addl coronary artery, coronary artery branch, or bypass graft (List separately in addition to code for primary procedure)		Facil	ity-only (dev	vice) cod	e	Not payable	Pkgd

HCPCS supply codes

In the outpatient setting, when devices are used in combination with device-related procedures, hospitals report C codes. While the supply codes are not paid separately from the procedure, the assignment of charges and reporting these supply codes, identify device-related costs. This information is important for future rate-setting by Medicare. Private payers' policies vary regarding use of C codes

HCPCS	Description	Device name	APC/payment
C1725	Catheter, transluminal angioplasty, non-laser (may inc guidance, infusion/perfusion capability)	Angiosculpt PTCA	Pkgd
C1753	Catheter, intravascular ultrasound	Eagle Eye Platinum REFINITY Rotational IVUS Catheter	Pkgd
C1769	Guide wire	VerrataPlus	Pkgd
C1885	Catheter, transluminal angioplasty, Laser	ELCA	Pkgd

Peripheral arterial

Hospital inpatient - Diagnosis Related Groups (DRG)

MS-DRG	Description	Medicare 2019 payment ³
252	Other vascular procedures with MCC4	\$19,903
253	Other vascular procedures with CC	\$15,839
254	Other vascular procedures without CC/MCC	\$11,051

Hospital outpatient, ASC, physician

				Ме	dicare 2	019 paymen	t ^{5,6}	
				Physicia	n			Hospital
			Facility ⁷ (hospital/ASC)		Non facility ⁸ (OBL)		ASC	outpatient APC
CPT code ⁹	CPT description	Work RVU ¹⁰	Total RVU ¹⁰	Payment ¹¹	Total RVU ¹⁰	Payment ¹¹	Payment	Group/status payment ¹²
Selective	catheter placement			`				°
36245	Selective catheter placement, arterial system; each 1st order abd, pelvic, or lower extremity artery branch	4.65	6.89	\$248	37.43	\$1,349	Pkgd	Pkgd
36246	; initial second order	5.02	7.39	\$266	23.80	\$858	Pkgd	Pkgd
36247	; initial third order or more	6.04	8.78	\$316	42.60	\$1,535	Pkgd	Pkgd
+36248	; addl second order, third order, and beyond (List in add to code for init 2nd or 3rd order vessel)	1.01	1.42	\$51	4.11	\$148	Pkgd	Pkgd
Diagnost	ic angiography			1				1
75710	Angiography, extremity, unilateral, radiological supervision and interpretation	1.75	2.45	\$88	4.73	\$170	Pkgd	5183/ Q2 \$2,642
75716	Angiography, extremity, bilateral, radiological supervision and interpretation	1.97	2.73	\$98	5.04	\$182	Pkgd	5183/ Q2 \$2,642
+75774	Angiography, selective, each additional vessel studied after basic exam, radiological supervision and interpretation (List separately in addition to code for primary procedure)	0.36	0.49	\$18	2.33	\$84	Pkgd	Pkgd

continued from Peripheral arterial

		Medicare 2019 payment ^{5,6}							
				Physicia			ASC	Hospital outpatient	
			Facility ⁷ (hospital/ASC)		Non facility ⁸ (OBL)		ASC	APC	
CPT code ⁹	CPT description	Work RVU ¹⁰	Total RVU ¹⁰	Payment ¹¹	Total RVU ¹⁰	Payment ¹¹	Payment	Group/status payment ¹²	
Non-core	onary intravascular ultrasound (IVUS)								
+37252	Intravascular ultrasound (non- coronary vessel) during diagnostic evaluation and/or therapeutic intervention, inc radiological S&I initial non-coronary vessel (list separately in addition to code for primary procedure)	1.80	2.65	\$96	35.78	\$1,289	Pkgd	Pkgd	
+37253	; each additional non-coronary vessel (list separately in addition to code for primary procedure)	1.44	2.13	\$77	5.60	\$202	Pkgd	Pkgd	
Endovas	cular revascularization-iliac	1	1	1		1	1	1	
37220	Revascularization, endovascular, open or percutaneous, iliac artery, unilateral, initial vessel; with transluminal angioplasty	7.90	11.68	\$420.94	83.76	\$3,019	\$2,002	5192/ J1 \$4,679	
37221	; with transluminal stent placement(s), includes angioplasty within same vessel, when performed	9.75	14.43	\$520.04	118.87	\$4,284	\$5,834	5193/ J1 \$9,669	
+37222	Revascularization, endovascular, open or percutaneous, iliac artery, each additional ipsilateral iliac vessel; with transluminal angioplasty (List separately in addition to code for primary procedure	3.73	5.42	\$195.33	22.64	\$816	Pkgd	Pkgd	
+37223	; with transluminal stent placement(s), Inc angioplasty w/in same vessel, when performed (List separately in addition to primary procedure)	4.25	6.20	\$223	62.61	\$2,256	Pkgd	Pkgd	
Endovas	cular revascularization-femoral/poplite	eal							
37224	Revascularization, endovascular, open or percutaneous, femoral, popliteal artery(s), unilateral; w transluminal angioplasty	8.75	12.94	\$466	100.68	\$3,628	\$2,887	5192/ J1 \$4,679	
37225	; with transluminal angioplasty with atherectomy, including angioplasty within the same vessel	11.75	17.61	\$635	345.28	\$12,444	\$6,411	5193/ J1 \$9,669	

continued from Peripheral arterial

				Me	dicare 20	019 paymen	t ^{5,6}	
				Physicia	n			Hospital
			Facility (hospit	/ ⁷ :al/ASC)	Non fa (OBL)	cility ⁸	ASC	outpatient APC
CPT code ⁹	CPT description	Work RVU ¹⁰	Total RVU ¹⁰	Payment ¹¹	Total RVU ¹⁰	Payment ¹¹	Payment	Group/status payment ¹²
37226	; with transluminal angioplasty w transluminal stent placement(s), includes angioplasty within the same vessel when performed	10.24	15.18	\$547	299.48	\$10,793	\$6,223	5193/ J1 \$9,669
37227	; with transluminal stent placement(s) and atherectomy, inc angioplasty within the same vessel	14.25	21.17	\$763	444.89	\$16,033	\$10,354	5194/ J1 \$15,355
Endovas	cular revascularization-tibial/peroneal	•		1		1	1	1
37228	Revascularization, endovasc, open or perc, tibial, peroneal artery, unilateral, initial vessel; w transluminal angioplasty	10.75	15.81	\$570	145.94	\$5,260	\$5,484	5193/ J1 \$9,669
37229	; with atherectomy, includes angioplasty within the same vessel, when performed	13.80	20.56	\$741	345.48	\$12,451	\$9,787	5194/ J1 \$15,355
37230	; with transluminal stent placement(s), inc angioplasty within the same vessel	13.55	20.39	\$735	294.13	\$10,600	\$9,604	5194/ J1 \$15,355
37231	; with transluminal stent placement(s) and atherectomy, includes angioplasty within the same vessel when performed	14.75	22.16	\$799	422.60	\$15,230	\$9,851	5194/ J1 \$15,355
+37232	; with transluminal angio-plasty (List separately in add to primary procedure)	4.00	5.85	\$211	31.13	\$1,122	Pkgd	Pkgd
+37233	; with atherectomy, includes angioplasty w in the same vessel, when performed (List separately in addition to primary procedure)	6.50	9.53	\$343	37.93	\$1,367	Pkgd	Pkgd
+37234	; with transluminal stent placement(s), inc angioplasty w in the same vessel when performed (List separately in addition to code for primary)	5.50	8.32	\$300	109.75	\$3,955	Pkgd	Pkgd
+37235	each addl vessel; with stent placement and atherectomy, including angioplasty within the same vessel, when performed (List separately in add to primary procedure)	7.80	11.68	\$421	119.07	\$4,291	Pkgd	Pkgd

continued from Peripheral arterial

		_		t ^{5,6}				
				Physicia	n			Hospital
			Facility (hospit	y ⁷ tal/ASC)	Non fa (OBL)	cility ⁸	ASC	outpatient APC
CPT code ⁹	CPT description	Work RVU ¹⁰	Total RVU ¹⁰	Payment ¹¹	Total RVU ¹⁰	Payment ¹¹	Payment	Group/status payment ¹²
Seconda	ry thrombectomy/embolectomy							
+37186	Secondary perc transluminal thrombectomy (nonprimary mech, snare basket, suction technique), noncoronary, arterial or arterial bypass graft, inc fluoro and intra- procedural pharma thrombolytic inj, provided in w/ another perc intervention (List separately)	4.92	7.10	\$256	37.46	\$1,350	Pkgd	Pkgd

HCPCS supply codes

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HCPCS	Description	Device name	APC/payment
C1724	Catheter, transluminal atherectomy, rotational	Phoenix Atherectomy catheter	Pkgd
C1725	Catheter, transluminal angioplasty, non-laser (may include guidance, infusion/ perfusion capability)	AngioSculpt PTA scoring balloon catheter	Pkgd
C1753	Catheter, intravascular ultrasound	Visions PV intravascular ultrasound catheter	Pkgd
C1757	Catheter, thrombectomy/embolectomy	QuickCat Extraction catheter	Pkgd
C1773	Retrieval device, insertable	Quick-Cross Capture guidewire retriever	Pkgd
C1885	Catheter, transluminal angioplasty, laser	Turbo-Power laser atherectomy catheter Turbo-Elite laser atherectomy catheter	Pkgd
C1887	Catheter, guiding (may include infusion/ perfusion capability)	Pioneer Plus IVUS-guided re-entry catheter Quick-Cross Support Quick-Cross Extreme support Quick-Cross Select support catheters	Pkgd
C1894	Introducer/sheath, other than guiding, other than intracardiac electro-physiological, non-laser	Quick-Access needle holder	Pkgd
C2623	Catheter, transluminal angioplasty, drug- coated, non-laser	Stellarex drug-coated balloon	Pkgd

Peripheral venous

Hospital inpatient

MS-DRG	Description	Medicare 2019 payment ³
299	Peripheral vascular disorders with MCC ⁴	\$8,855
300	Peripheral vascular disorders with CC1 ³	\$6,250
301	Peripheral vascular disorders without CC/MCC	\$4,434

Hospital outpatient, ASC, physician

			t ^{5,6}					
				Physicia	n			Hospital
			Facility (hospit	/ ⁷ :al/ASC)	Non fa (OBL)	cility ⁸	ASC	outpatient APC
CPT code ⁹	CPT description	Work RVU ¹⁰	Total RVU ¹⁰	Payment ¹¹	Total RVU ¹⁰	Payment ¹¹	Payment	Group/status payment ¹²
Selective	catheter placement							,
36011	Selective catheter placement, venous system; first order branch (eg,renal vein, jugular vein)	3.14	4.54	164	24.02	\$866	Pkgd	Pkgd
36012	; 2nd order, or more selective, branch (eg, left adrenal vein, petrosal sinus)	3.51	5.03	181	24.50	\$883	Pkgd	Pkgd
Diagnost	ic venography							
36005	Injection procedure for extremity venography (including introduction of needle or intracatheter)	0.95	1.40	\$50	8.76	\$316	Pkgd	Pkgd
75820	Venography, extremity, unilateral, radiological supervision and interp	0.70	0.99	\$36	3.15	\$114	Pkgd	5181/ Q2 \$620
75822	Venography, extremity, bilateral, radiological supervision and interp	1.06	1.47	\$53	3.68	\$133	Pkgd	5182/ Q2 \$1,094
Non-core	onary intravascular ultrasound (IVUS)							
+37252	Intravascular ultrasound (non- coronary vessel) during diagnostic eval and/or therapeutic intervention, including radiological supervision and interpretation; initial non- coronary vessel (list separately in addn to code for primary procedure)	1.80	2.65	\$96	35.78	\$1,289	Pkgd	Pkgd
+37253	; each additional non-coronary vessel (list separately in addition to code for primary procedure)	1.44	2.13	\$77	5.60	\$202	Pkgd	Pkgd

continued from Peripheral venous

		Medicare 2019 payment ^{5,6}							
				Physicia		Hospital outpatient APC			
			-	Facility ⁷ (hospital/ASC)			Non facility ⁸ (OBL)		
CPT code ⁹	CPT description	Work RVU ¹⁰	Total RVU ¹⁰	Payment ¹¹	Total RVU ¹⁰	Payment ¹¹	Payment	Group/status payment ¹²	
Venous b	oalloon angioplasty								
37248	Transluminal balloon angioplasty (except dialysis circuit), open or perc, including all imaging and radiological supervision and interp necessary to perform the angioplasty within the same vein; initial vein	6.00	8.66	\$312	42.38	\$1,527	\$2,002	5192/ J1 \$4,679	
37249	; each additional vein (List separately in addition to code for primary procedure)	2.97	4.22	\$152	16.77	\$604	Pkgd	Pkgd	
Venous s	stent placement								
37238	Transcatheter placement of an intravascular stent(s), open or percutaneous, including radiological supervision and interp and inc angioplasty within the same vessel, when performed; initial vein	6.04	8.82	\$318	102.64	\$3,699	\$5,873	5193/ J1 \$9,669	
+37239	; each addl vein (List separately in addition to primary procedure)	2.97	4.42	\$159	48.97	\$1,765	Pkgd	Pkgd	

HCPCS supply code

In the outpatient setting, when devices are used in combination with device-related procedures, hospitals report C codes. While the supply codes are not paid separately from the procedure, the assignment of charges and reporting these supply codes, identify device-related costs. This information is important for future rate-setting by Medicare. Private payers' policies vary regarding use of C codes.

HCPCS	Description	Device name	APC/payment
C1753	Catheter, intravascular ultrasound	Visions PV Intravascular Ultrasound Catheter	Pkgd

AV fistula – dialysis circuit

Hospital inpatient - Diagnosis Related Groups (DRG)

MS-DRG	Description	Medicare 2019 payment ³
299	Peripheral vascular disorders with MCC ⁴	\$8,855
300	Peripheral vascular disorders with CC ¹³	\$6,250
301	Peripheral vascular disorders without CC/MCC	\$4,434

Hospital outpatient, ASC, physician

		Medicare 2019 payment ^{5,6}						
				Physicia	n			Hospital
			Facility (hospit	/ ⁷ :al/ASC)	Non fa (OBL)	cility ⁸	ASC	outpatient APC
CPT code ⁹	CPT description	Work RVU ¹⁰	Total RVU ¹⁰	Payment ¹¹	Total RVU ¹⁰	Payment ¹¹	Payment	Group/status payment ¹²
Non-coro	nary intravascular ultrasound (IVUS)			`		``````````````````````````````````````	`	
+37252	Intravascular ultrasound (non- coronary vessel) during diagnostic evaluation and/or therapeutic intervention, including radiological S&I initial non-coronary vessel (list separately in addn to code for primary procedure)	1.80	2.65	\$96	35.78	\$1,289	Pkgd	Pkgd
+37253	; each additional non-coronary vessel (list separately in addition to code for primary procedure)	1.44	2.13	\$77	5.60	\$202	Pkgd	Pkgd
Dialysis c	ircuit							
36901*	Introduction of needle(s) and/ or catheter(s), dialysis circuit, w diagnostic angiography of the dialysis circuit, inc all direct puncture(s), catheter place-ment(s), injcn(s) of contrast, all imaging from arterial anastomosis and adjacent artery thru entire venous outflow inc inferior or superior vena cava, fluoro, radiological S&I, image documentation and report	3.36	4.88	\$176	18.33	\$661	\$523	5182/ T \$1,094
36902**	; with transluminal balloon angioplasty, peripheral dialysis segment, inc all imaging and radiological S&I nec to perform angioplasty	4.83	6.98	\$252	36.09	\$1,301	\$2,002	5192/ J1 \$4,679

continued from AV fistula – dialysis circuit

		Medicare 2019 payment ^{5,6}						
				Physicia	n		_	Hospital
			Facility ⁷ (hospital/ASC)		Non facility ⁸ (OBL)		ASC	outpatient APC
CPT code ⁹	CPT description	Work RVU ¹⁰	Total RVU ¹⁰	Payment ¹¹	Total RVU ¹⁰	Payment ¹¹	Payment	Group/status payment ¹²
36903**	; with transcatheter placement of intravascular stent(s), peripheral dialysis segment, inc all imaging and radiological S&I, and angioplasty within the peripheral dialysis segment	6.39	9.23	\$333	152.20	\$5,485	\$6,002	5193/ J1 \$9,669
36904*	Percutaneous transluminal mechanical thrombectomy and/ or infusion for thrombolysis, dialysis circuit, any method, inc all imaging and radiological S&I, diagnostic angiography, fluoro, catheter placement, intraprocedural pharmathrombolytic injctn(s)	7.5	10.77	\$388	53.11	\$1,914	\$2,663	5192/ J1 \$4,679
36905**	; with transluminal balloon angioplasty, peripheral dialysis segment, inc all imaging and radiological S&I nec to perform angioplasty	9.00	12.91	\$465	66.8	\$2,407	\$4,056	5193/ J1 \$9,669
36906**	; with transcatheter placement of intravascular stent(s), peripheral dialysis segment, inc all imaging and radiological S&I necessary to perform the stenting, and angioplasty within the peripheral dialysis circuit	10.42	14.9	\$537	186.56	\$6,723	\$9,724	5194/ J1 \$15,355
+36907**	Transluminal balloon angio, central dialysis segment, performed through dialysis circuit, inc all imaging and radiological S&I required to perform angioplasty (List separately in addition to code for primary procedure)	3.00	4.26	\$154	20.43	\$736	Pkgd	Pkgd
+36908**	Transcatheter placement of intravascular stent(s), central dialysis segment, performed thru dialysis circuit, inc all imaging radiological S&I to perform the stenting, and all angioplasty in the central dialysis segment (List separately in addition to code for primary procedure)	4.25	6.03	\$217	68.02	\$2,451	Pkgd	Pkgd

continued from AV fistula - dialysis circuit

		Medicare 2019 payment ^{5,6}						
				Physicia	n			Hospital
			Facility (hospit	/ ⁷ :al/ASC)	Non fa (OBL)	cility ⁸	ASC	outpatient APC
CPT code ⁹	CPT description	Work RVU ¹⁰	Total RVU ¹⁰	Payment ¹¹	Total RVU ¹⁰	Payment ¹¹	Payment	Group/status payment ¹²
+36909*	Dialysis circuit permanent vascular embolization or occlusion (inc main circuit or any accessory veins), endovascular, including all imaging and radiological S&I necessary to complete the intervention (List separately in addition to code for primary procedure)	4.12	5.84	\$210	54.98	\$1,981	Pkgd	Pkgd

* Approved for use with Visions PV intravascular ultrasound catheter

HCPCS supply codes

In the outpatient setting, when devices are used in combination with device-related procedures, hospitals report C codes. While the supply codes are not paid separately from the procedure, the assignment of charges and reporting these supply codes, identify device-related costs. This information is important for future rate-setting by Medicare. Private payers' policies vary regarding use of C codes.

HCPCS	Description	Device name	APC/payment
C1725	Catheter, transluminal angioplasty, non-laser (may inc guidance, infusion/ perfusion capability)	AngioSculpt PTA Scoring Balloon Catheter	Pkgd
C1753	Catheter, intravascular ultrasound	Visions PV Intravascular Ultrasound Catheter	Pkgd

Lead extraction and cardiac rhythm management

Hospital inpatient - Diagnosis Related Groups (DRG)

MS-DRG	Description	Medicare 2019 payment ³
Lead extra	action	
260	Cardiac pacemaker revision except device replacement w/ MCC ⁴	\$22,099
261	Cardiac pacemaker revision except device replacement w/ CC13	\$12,161
262	Cardiac pacemaker revision except device replacement w/o CC/MCC	\$9,957
265	AICD lead procedures	\$19,029
Cardiac rh	ythm management	
222	Cardiac defib implant w/ cardiac cath w/ AMI/HF/shock w/ MCC	\$49,682
223	Cardiac defib implant w/ cardiac cath w/ AMI/HF/shock w/o MCC	\$38,808
224	Cardiac defib implant w/o cardiac cath w/ AMI/HF/shock w/ MCC	\$45,331
225	Cardiac defib implant w/o cardiac cath w/ AMI/HF/shock w/o MCC	\$34,920
226	Cardiac defib implant w/o cardiac cath w/ MCC	\$41,628
227	Cardiac defib implant w/o cardiac cath w/o MCC	\$32,461
242	Permanent cardiac pacemaker implant w/ MCC	\$22,816
243	Permanent cardiac pacemaker implant w/ CC	\$15,595
244	Permanent cardiac pacemaker implant w/o CC/MCC	\$12,887
258	Cardiac pacemaker device replacement w/ MCC	\$18,248
259	Cardiac pacemaker device replacement w/o MCC	\$12,803

Hospital outpatient, ASC, physician

		Medicare 2019 payment ^{5,6}						
				Physicia		Hospital		
			Facility (hospit	/ ⁷ :al/ASC)	Non fa (OBL)	cility ⁸	ASC	outpatient APC
CPT code ⁹	CPT description	Work RVU ¹⁰	Total RVU ¹⁰	Payment ¹¹	Total RVU ¹⁰	Payment ¹¹	Payment	Group/status payment ¹²
Lead ext	raction							
33234	Removal of transvenous pacemaker electrodes; single lead system, atrial or ventric	7.66	14.1	\$508	Not	payable	\$1,612	5221/ Q2 \$3,131
33235	Removal of transvenous pacemaker electrode(s), dual lead system	9.9	18.52	\$667	Not	payable	\$1,612	5221/ Q2 \$3,131

continued from Lead extraction and cardiac rhythm management

		Medicare 2019 payment ^{5,6}						
		Physician			455	Hospital outpatient		
			Facility (hospit	r' al/ASC)	Non fa (OBL)	cility ⁸	ASC	APC
CPT code ⁹	CPT description	Work RVU ¹⁰	Total RVU ¹⁰	Payment ¹¹	Total RVU ¹⁰	Payment ¹¹	Payment	Group/status payment ¹²
33244	Removal of single or dual chamber pacing cardioverter defibr electrode(s); by transvenous extraction	13.74	25.09	\$904		Not payab	le	5221/ Q2 \$3,131
33999	Unlisted procedure, cardiac surgery (there is no specific code for LV lead removal or removal of more than 2 leads)	Pay	ment de by Pay	termined /er		Not payab	le	5181/ T \$620
Cardiac I	rhythm management							
33207	Insertion of new or replacement of PPM with transvenous electrode(s); ventricular	7.80	13.97	\$503	Not	payable	\$7,920	5223/ J1 \$9,879
33208	Insertion of new or replacement of PPM with transvenous electrode(s); atrial and ventricular	8.52	15.15	\$546	Not	payable	\$8,065	5223/ J1 \$9,879
33216	Insertion of single transvenous electrode, PPM or cardioverter- defibrillator	5.62	10.76	\$388	Not	payable	\$5,326	5222/ J1 \$7,404
33217	Insertion of 2 transvenous electrodes, PPM or implantable defibrillator	5.59	10.60	\$382	Not	payable	\$5,898	5222/ J1 \$7,404
33218	Repair of single transvenous electrode for a single chamber, PPM or single chamber pacing cardioverter-defibrillator	5.82	11.25	\$405	Not	payable	\$1,612	5221/ T \$3,131
33220	Repair of 2 transvenous electrodes for permanent PM or implantable defibrillator	5.90	11.33	\$408	Not	payable	\$1,612	5221/ T \$3,131
33223	Relocation of skin pocket for cardioverter-defibrillator	6.30	11.87	\$428	Not	payable	\$798	5054/ T \$1,549
33224	Insertion of pacing electrode, cardiac venous system, for LV pacing, w attachment to previously placed PM or pacing cardioverter-defib pulse generator (inc revision of pocket, removal, insrtn and/or replacement of generator)	9.04	15.02	\$541	Not	payable	\$7,919	5223/ J1 \$9,879
+33225	Insertion of pacing electrode for LV pacing, at time of insertion of pacing cardio-defib or PM pulse generator (inc upgrade to dual chamber system and pocket revision)	8.33	13.67	\$493	Not	payable	Pkgd	Pkgd

continued from Lead extraction and cardiac rhythm management

		Medicare 2019 payment ^{5,6}						
		Physician						Hospital
			Facility ⁷ (hospital/ASC)		Non facility ⁸ (OBL)		ASC	outpatient APC
CPT code ⁹	CPT description	Work RVU ¹⁰	Total RVU ¹⁰	Payment ¹¹	Total RVU ¹⁰	Payment ¹¹	Payment	Group/status payment ¹²
33233	Removal of permanent PM pulse generator only	3.14	6.68	\$241	Not	payable	\$3,701	5222/ Q2 \$7,404
33241	Removal of pacing cardioverter- defibrillator pulse generator only	3.04	6.24	\$225	Not	payable	\$1,612	5221/ Q2 \$3,131
33249	Insertion or replacement of perm pacing cardio-defib system w transv lead(s), single or dual chamber	14.92	26.67	\$961	Not	payable	\$27,056	5232/ J1 \$30,656
37244	Vascular embolization or occlusion, inc of all radiological S&I, intraprocedural road mapping, & imaging guidance; for arterial or venous hemorrhage or lymph extravasation	13.75	19.31	\$696	\$196	\$7,052	Not payable	5193/ J1 \$9,669

HCPCS supply codes

In the outpatient setting, when devices are used in combination with device-related procedures, hospitals report C codes. While the supply codes are not paid separately from the procedure, the assignment of charges and reporting these supply codes, identify device-related costs. This information is important for future rate-setting by Medicare. Private payers' policies vary regarding use of C codes.

HCPCS	Description	Device name	Payment
C1773	Retrieval device, insertable	LLD (Lead Locking Device) TightRail SightRail dilator sheath set	Pkgd
C1893	Introducer/sheath, guiding, intracardiac electrophysiological, fixed-curve, other than peel-away	VisiSheath	Pkgd
C1769 and C1894	Guide wire Introducer/sheath, other than guiding, other than intracardiac electrophysiological, non-laser	Bridge prep kit	Pkgd
C2628	Catheter, occlusion	Bridge balloon occlusion catheter	Pkgd
C2629	Introducer/sheath, other than guiding, intra-cardiac electrophysiological, laser	GlideLight SLS II laser sheath	Pkgd
C2623	Catheter, transluminal angioplasty, drug-coated, non-laser	Stellarex drug-coated balloon	Pkgd

Appendices

Appendix A: Coronary ICD-10 procedure codes

ICD-10 procedure description

procedure"	
Coronary I	vus
B240ZZ3	Ultrasonography of single coronary artery, intravascular
B241ZZ3	Ultrasonography of multiple coronary arteries, intravascular
FFR/iFR	
4A033BC	Measurement of arterial pressure, coronary, percutaneous approach
Coronary i	nterventions
Angioplast	У
0270346	Dilation of Coronary Artery, One Site, Bifurcation, with Drug-eluting Intraluminal Device, Percutaneous Approach
027034Z	Dilation of Coronary Artery, One Site with Drug-eluting Intraluminal Device, Percutaneous Approach
02703D6	Dilation of Coronary Artery, One Site, Bifurcation, with Intraluminal Device, Perc Approach
02703DZ	Dilation of Coronary Artery, One Site with Intraluminal Device, Percutaneous Approach
02703Z6	Dilation of Coronary Artery, One Site, Bifurcation, Percutaneous Approach
02703ZZ	Dilation of Coronary Artery, One Site, Percutaneous Approach
0270446	Dilation of Coronary Artery, One Site, Bifurcation, with Drug-eluting Intraluminal Device, Percutaneous Endoscopic Approach
027044Z	Dilation of Coronary Artery, One Site with Drug-eluting Intraluminal Device, Percutaneous Endoscopic Approach
02704D6	Dilation of Coronary Artery, One Site, Bifurcation, with Intraluminal Device, Percutaneous Endoscopic Approach
02704DZ	Dilation of Coronary Artery, One Site with Intraluminal Device, Percutaneous Endoscopic Approach
02704Z6	Dilation of Coronary Artery, One Site, Bifurcation, Percutaneous Endoscopic Approach
02704ZZ	Dilation of Coronary Artery, One Site, Percutaneous Endoscopic Approach
0271346	Dilation of Coronary Artery, Two Sites, Bifurcation, with Drug-eluting Intraluminal Device, Percutaneous Approach
027134Z	Dilation of Coronary Artery, Two Sites with Drug-eluting Intraluminal Device, Percutaneous Approach
02713DZ	Dilation of Coronary Artery, Two Sites with Intraluminal Device, Percutaneous Approach
02713Z6	Dilation of Coronary Artery, Two Sites, Bifurcation, Percutaneous Approach
02713ZZ	Dilation of Coronary Artery, Two Sites, Percutaneous Approach
0271446	Dilation of Coronary Artery, Two Sites, Bifurcation, with Drug-eluting Intraluminal Device, Percutaneous Endoscopic Approach
027144Z	Dilation of Coronary Artery, Two Sites with Drug-eluting Intraluminal Device, Percutaneous Endoscopic Approach
02714D6	Dilation of Coronary Artery, Two Sites, Bifurcation, with Intraluminal Device, Percutaneous Endoscopic Approach
02714DZ	Dilation of Coronary Artery, Two Sites with Intraluminal Device, Perc Endoscopic Approach
02714Z6	Dilation of Coronary Artery, Two Sites, Bifurcation, Percutaneous Endoscopic Approach

ICD-10 procedure"	ICD-10 procedure description
02714ZZ	Dilation of Coronary Artery, Two Sites, Percutaneous Endoscopic Approach
0272346	Dilation of Coronary Artery, Three Sites, Bifurcation, with Drug-eluting Intraluminal De-vice, Percutaneous Approach
027234Z	Dilation of Coronary Artery, Three Sites with Drug-eluting Intraluminal Device, Percuta-neous Approach
02723D6	Dilation of Coronary Artery, Three Sites, Bifurcation, with Intraluminal Device, Percuta-neous Approach
02723DZ	Dilation of Coronary Artery, Three Sites with Intraluminal Device, Percutaneous Approach
02723Z6	Dilation of Coronary Artery, Three Sites, Bifurcation, Percutaneous Approach
02723ZZ	Dilation of Coronary Artery, Three Sites, Percutaneous Approach
0272446	Dilation of Coronary Artery, Three Sites, Bifurcation, with Drug-eluting Intraluminal De-vice, Percutaneous Endoscopic Approach
027244Z	Dilation of Coronary Artery, Three Sites with Drug-eluting Intraluminal Device, Percuta-neous Endoscopic Approach
02724D6	Dilation of Coronary Artery, Three Sites, Bifurcation, with Intraluminal Device, Percuta-neous Endoscopic Approach
02724DZ	Dilation of Coronary Artery, Three Sites with Intraluminal Device, Percutaneous Endo-scopic Approach
02724Z6	Dilation of Coronary Artery, Three Sites, Bifurcation, Percutaneous Endoscopic Approach
02724ZZ	Dilation of Coronary Artery, Three Sites, Percutaneous Endoscopic Approach
0273346	Dilation of Coronary Artery, Four or More Sites, Bifurcation, with Drug-eluting Intralu-minal Device, Percutaneous Approach
027334Z	Dilation of Coronary Artery, Four or More Sites with Drug-eluting Intraluminal Device, Percutaneous Approach
02733D6	Dilation of Coronary Artery, Four or More Sites, Bifurcation, with Intraluminal Device, Percutaneous Approach
02733DZ	Dilation of Coronary Artery, Four or More Sites with Intraluminal Device, Perc Approach
02733Z6	Dilation of Coronary Artery, Four or More Sites, Bifurcation, Percutaneous Approach
02733ZZ	Dilation of Coronary Artery, Four or More Sites, Percutaneous Approach
0273446	Dilation of Coronary Artery, Four or More Sites, Bifurcation, with Drug-eluting Intralu-minal Device, Percutaneous Endoscopic Approach
027344Z	Dilation of Coronary Artery, Four or More Sites with Drug-eluting Intraluminal Device, Percutaneous Endoscopic Approach
02734D6	Dilation of Coronary Artery, Four or More Sites, Bifurcation, with Intraluminal Device, Percutaneous Endoscopic Approach
02734DZ	Dilation of Coronary Artery, Four or More Sites with Intraluminal Device, Percutaneous Endoscopic Approach
02734Z6	Dilation of Coronary Artery, Four or More Sites, Bifurcation, Percutaneous Endoscopic Approach
02734ZZ	Dilation of Coronary Artery, Four or More Sites, Percutaneous Endoscopic Approach
0270346	Dilation of Coronary Artery, One Site, Bifurcation, with Drug-eluting Intraluminal Device, Percutaneous Approach
02703D6	Dilation of Coronary Artery, One Site, Bifurcation, with Intraluminal Device, Perc Ap-proach
02703Z6	Dilation of Coronary Artery, One Site, Bifurcation, Percutaneous approach

ICD-10 procedure ⁱⁱ	ICD-10 procedure description
0270446	Dilation of Coronary Artery, One Site, Bifurcation, with Drug-eluting Intraluminal Device, Percutaneous Endoscopic Approach
02704D6	Dilation of Coronary Artery, One Site, Bifurcation, with Intraluminal Device, Percutane-ous Endoscopic Approach
02704Z6	Dilation of Coronary Artery, One Site, Bifurcation, Percutaneous Endoscopic Approach
0271346	Dilation of Coronary Artery, Two Sites, Bifurcation, with Drug-eluting Intraluminal De-vice, Percutaneous Approach
02713D6	Dilation of Coronary Artery, Two Sites, Bifurcation, with Intraluminal Device, Perc Ap-proach
02713Z6	Dilation of Coronary Artery, Two Sites, Bifurcation, Percutaneous Approach
0271446	Dilation of Coronary Artery, Two Sites, Bifurcation, with Drug-eluting Intraluminal De-vice,
02714D6	Dilation of Coronary Artery, Two Sites, Bifurcation, with Intraluminal Device, Percutane-ous Endoscopic Approach
02714Z6	Dilation of Coronary Artery, Two Sites, Bifurcation, Percutaneous Endoscopic Approach
0272346	Dilation of Coronary Artery, Three Sites, Bifurcation, with Drug-eluting Intraluminal De-vice, Percutaneous Approach
02723D6	Dilation of Coronary Artery, Three Sites, Bifurcation, with Intraluminal Device, Percuta-neous Approach
02723Z6	Dilation of Coronary Artery, Three Sites, Bifurcation, Percutaneous Approach
0272446	Dilation of Coronary Artery, Three Sites, Bifurcation, with Drug-eluting Intraluminal De-vice, Percutaneous Endoscopic Approach
02724D6	Dilation of Coronary Artery, Three Sites, Bifurcation, with Intraluminal Device, Percuta-neous Endoscopic Approach
02724Z6	Dilation of Coronary Artery, Three Sites, Bifurcation, Percutaneous Endoscopic Approach
0273346	Dilation of Coronary Artery, Four or More Sites, Bifurcation, with Drug-eluting Intralu-minal Device, Percutaneous Approach
02733D6	Dilation of Coronary Artery, Four or More Sites, Bifurcation, with Intraluminal Device, Percutaneous Approach
02733Z6	Dilation of Coronary Artery, Four or More Sites, Bifurcation, Percutaneous Approach
0273446	Dilation of Coronary Artery, Four or More Sites, Bifurcation, with Drug-eluting Intralu-minal Device, Percutaneous Endoscopic Approach
02734D6	Dilation of Coronary Artery, Four or More Sites, Bifurcation, with Intraluminal Device, Percutaneous Endoscopic Approach
02734Z6	Dilation of Coronary Artery, Four or More Sites, Bifurcation, Percutaneous Endoscopic Approach
0270346	Dilation of Coronary Artery, One Site, Bifurcation, with Drug-eluting Intraluminal Device, Percutaneous Approach
027034Z	Dilation of Coronary Artery, One Site with Drug-eluting Intraluminal Device, Percutane-ous Approach
02703D6	Dilation of Coronary Artery, One Site, Bifurcation, with Intraluminal Device, Percutane-ous Approach
02703DZ	Dilation of Coronary Artery, One Site with Intraluminal Device, Percutaneous Approach
0270446	Dilation of Coronary Artery, One Site, Bifurcation, with Drug-eluting Intraluminal Device, Percutaneous Endoscopic Approach
027044Z	Dilation of Coronary Artery, One Site with Drug-eluting Intraluminal Device, Percutane-ous Endoscopic Approach

procedure	ICD-10 procedure description
02704D6 [Dilation of Coronary Artery, One Site, Bifurcation, with Intraluminal Device, Percutane-ous Endoscopic Approach
02704DZ	Dilation of Coronary Artery, One Site with Intraluminal Device, Perc Endoscopic Approach
07/13/26	Dilation of Coronary Artery, Two Sites, Bifurcation, with Drug-eluting Intraluminal De-vice, Percutaneous Approach
027134Z	Dilation of Coronary Artery, Two Sites with Drug-eluting Intraluminal Device, Percutane-ous Approach
02713D6 [Dilation of Coronary Artery, Two Sites, Bifurcation, with Intraluminal Device, Percutane-ous Approach
02713DZ	Dilation of Coronary Artery, Two Sites with Intraluminal Device, Percutaneous Approach
02/1446	Dilation of Coronary Artery, Two Sites, Bifurcation, with Drug-eluting Intraluminal De-vice, Percutaneous Endoscopic Approach
$())/(\Delta \Delta I)$	Dilation of Coronary Artery, Two Sites with Drug-eluting Intraluminal Device, Percutane-ous Endoscopic Approach
02714D6 [Dilation of Coronary Artery, Two Sites, Bifurcation, with Intraluminal Device, Percutane-ous Endoscopic Approach
0272346	Dilation of Coronary Artery, Three Sites, Bifurcation, w Drug-eluting Intraluminal Device, Percutaneous Approach
027234Z [Dilation of Coronary Artery, Three Sites with Drug-eluting Intraluminal Device, Percuta-neous Approach
02723D6 [Dilation of Coronary Artery, Three Sites, Bifurcation, with Intraluminal Device, Percuta-neous Approach
02723DZ	Dilation of Coronary Artery, Three Sites with Intraluminal Device, Percutaneous Approach
0777446	Dilation of Coronary Artery, Three Sites, Bifurcation, with Drug-eluting Intraluminal De-vice, Percutaneous Endoscopic Approach
	Dilation of Coronary Artery, Three Sites with Drug-eluting Intraluminal Device, Percuta-neous Endoscopic Approach
11//////106	Dilation of Coronary Artery, Three Sites, Bifurcation, with Intraluminal Device, Percuta-neous Endoscopic Approach
02724DZ	Dilation of Coronary Artery, Three Sites with Intraluminal Device, Percutaneous Endo-scopic Approach
02/3346	Dilation of Coronary Artery, Four or More Sites, Bifurcation, with Drug-eluting Intralu-minal Device, Percutaneous Approach
027334Z [Dilation of Coronary Artery, Four or More Sites with Drug-eluting Intraluminal Device, Percutaneous Approach
02733D6 [Dilation of Coronary Artery, Four or More Sites, Bifurcation, with Intraluminal Device, Percutaneous Approach
02733DZ	Dilation of Coronary Artery, Four or More Sites with Intraluminal Device, Perc Approach
0773446	Dilation of Coronary Artery, Four or More Sites, Bifurcation, with Drug-eluting Intralu-minal Device, Percutaneous Endoscopic Approach
$())/((\Delta \Delta \Delta A))$	Dilation of Coronary Artery, Four or More Sites with Drug-eluting Intraluminal Device, Percutaneous Endoscopic Approach
())/3/106	Dilation of Coronary Artery, Four or More Sites, Bifurcation, with Intraluminal Device, Percutaneous Endoscopic Approach
02734DZ	Dilation of Coronary Artery, Four or More Sites with Intraluminal Device, Percutaneous Endoscopic Approach
02703D6	Dilation of Coronary Artery, One Site, Bifurcation, with Intraluminal Device, Percutane-ous Approach
02703DZ	Dilation of Coronary Artery, One Site with Intraluminal Device, Percutaneous Approach

ICD-10 procedure ⁱⁱ	ICD-10 procedure description
02704D6	Dilation of Coronary Artery, One Site, Bifurcation, with Intraluminal Device, Percutane-ous Endoscopic Approach
02704DZ	Dilation of Coronary Artery, One Site with Intraluminal Device, Perc Endoscopic Approach
02713D6	Dilation of Coronary Artery, Two Sites, Bifurcation, with Intraluminal Device, Percutane-ous Approach
02713DZ	Dilation of Coronary Artery, Two Sites with Intraluminal Device, Percutaneous Approach
02714D6	Dilation of Coronary Artery, Two Sites, Bifurcation, with Intraluminal Device, Percutane-ous Endoscopic Approach
02714DZ	Dilation of Coronary Artery, Two Sites with Intraluminal Device, Perc Endoscopic Ap-proach
02723D6	Dilation of Coronary Artery, Three Sites, Bifurcation, with Intraluminal Device, Percuta-neous Approach
02723DZ	Dilation of Coronary Artery, Three Sites with Intraluminal Device, Percutaneous Approach
02724D6	Dilation of Coronary Artery, Three Sites, Bifurcation, with Intraluminal Device, Percuta-neous Endoscopic Approach
02724DZ	Dilation of Coronary Artery, Three Sites with Intraluminal Device, Percutaneous Endo-scopic Approach
02733D6	Dilation of Coronary Artery, Four or More Sites, Bifurcation, with Intraluminal Device, Percutaneous Approach
02733DZ	Dilation of Coronary Artery, Four or More Sites with Intraluminal Device, Perc Approach
02734D6	Dilation of Coronary Artery, Four or More Sites, Bifurcation, with Intraluminal Device, Percutaneous Endoscopic Approach
02734DZ	Dilation of Coronary Artery, Four or More Sites with Intraluminal Device, Percutaneous Endoscopic Approach
0270346	Dilation of Coronary Artery, One Site, Bifurcation, with Drug-eluting Intraluminal Device, Percutaneous Approach
027034Z	Dilation of Coronary Artery, One Site with Drug-eluting Intraluminal Device, Percutane-ous Approach
0270446	Dilation of Coronary Artery, One Site, Bifurcation, with Drug-eluting Intraluminal Device, Percutaneous Endoscopic Approach
027044Z	Dilation of Coronary Artery, One Site with Drug-eluting Intraluminal Device, Percutane-ous Endoscopic Approach
0271346	Dilation of Coronary Artery, Two Sites, Bifurcation, with Drug-eluting Intraluminal De-vice, Percutaneous Approach
027134Z	Dilation of Coronary Artery, Two Sites with Drug-eluting Intraluminal Device, Percutane-ous Approach
0271446	Dilation of Coronary Artery, Two Sites, Bifurcation, with Drug-eluting Intraluminal De-vice, Percutaneous Endoscopic Approach
027144Z	Dilation of Coronary Artery, Two Sites with Drug-eluting Intraluminal Device, Percutane-ous Endoscopic Approach
0272346	Dilation of Coronary Artery, Three Sites, Bifurcation, with Drug-eluting Intraluminal De-vice, Percutaneous Approach
027234Z	Dilation of Coronary Artery, Three Sites with Drug-eluting Intraluminal Device, Percuta-neous Approach
0272446	Dilation of Coronary Artery, Three Sites, Bifurcation, with Drug-eluting Intraluminal De-vice, Percutaneous Endoscopic Approach
027244Z	Dilation of Coronary Artery, Three Sites with Drug-eluting Intraluminal Device, Percuta-neous Endoscopic Approach
0273346	Dilation of Coronary Artery, Four or More Sites, Bifurcation, with Drug-eluting Intralu-minal Device, Percutaneous Approach

ICD-10 procedure"	ICD-10 procedure description
027334Z	Dilation of Coronary Artery, Four or More Sites with Drug-eluting Intraluminal Device, Percutaneous Approach
0273446	Dilation of Coronary Artery, Four or More Sites, Bifurcation, with Drug-eluting Intralu-minal Device, Percutaneous Endoscopic Approach
027344Z	Dilation of Coronary Artery, Four or More Sites with Drug-eluting Intraluminal Device, Percutaneous Endoscopic Approach
Atherectom	у
02C03ZZ	Extirpation of Matter from Coronary Artery, One Artery, Percutaneous Approach
02C13ZZ	Extirpation of Matter from Coronary Artery, Two Arteries, Percutaneous Approach
02C23ZZ	Extirpation of Matter from Coronary Artery, Three Arteries, Percutaneous Approach
02C33ZZ	Extirpation of Matter from Coronary Artery, Four or More Arteries, Percutaneous Ap-proach
02C03Z6	Extirpation of Matter from Coronary Artery, One Artery, Bifurcation, Perc Approach
02C04Z6	Extirpation of Matter from Coronary Artery, One Artery, Bifurcation, Percutaneous Endo-scopic Approach
02C04ZZ	Extirpation of Matter from Coronary Artery, One Artery, Perc Endoscopic Approach
02C13Z6	Extirpation of Matter from Coronary Artery, Two Arteries, Bifurcation, Perc Approach
02C14Z6	Extirpation of Matter from Coronary Artery, Two Arteries, Bifurcation, Percutaneous En-doscopic Approach
02C14ZZ	Extirpation of Matter from Coronary Artery, Two Arteries, Perc Endoscopic Approach
02C23Z6	Extirpation of Matter from Coronary Artery, Three Arteries, Bifurcation, Perc Approach
02C24Z6	Extirpation of Matter from Coronary Artery, Three Arteries, Bifurcation, Percutaneous Endoscopic Approach
02C24ZZ	Extirpation of Matter from Coronary Artery, Three Arteries, Perc Endoscopic Approach
02C33Z6	Extirpation of Matter from Coronary Artery, Four or More Arteries, Bifurcation, Percuta-neous Approach
02C34Z6	Extirpation of Matter from Coronary Artery, Four or More Arteries, Bifurcation, Percuta-neous Endoscopic Approach
02C34ZZ	Extirpation of Matter from Coronary Artery, Four or More Arteries, Percutaneous Endo-scopic Approach

Appendix B: Peripheral arterial ICD-10 procedure codes

ICD-10 procedure ⁱⁱ	ICD-10 procedure description				
Arterial IVU	Arterial IVUS (non-coronary)				
B34HZZ3	Ultrasonography of Right Upper Extremity Arteries, Intravascular				
B34JZZ3	Ultrasonography of Left Upper Extremity Arteries, Intravascular				
B34KZZ3	Ultrasonography of Bilateral Upper Extremity Arteries, Intravascular				
B44FZZ3	Ultrasonography of Right Lower Extremity Arteries, Intravascular				
B44GZZ3	Ultrasonography of Left Lower Extremity Arteries, Intravascular				
B44HZZ3	Ultrasonography of Bilateral Lower Extremity Arteries, Intravascular				
B44LZZ3	Ultrasonography of Femoral Artery, Intravascular				
Angioplasty	,				
Drug coated	balloons				
047K341	Dilation of right femoral artery with drug eluting intraluminal device using drug coated bal-loon, percutaneous approach				
047K3D1	Dilation of right femoral artery with intraluminal device using drug coated balloon, percu-taneous approach				
047K3Z1	Dilation of right femoral artery using drug coated balloon, percutaneous approach				
047K441	Dilation of right femoral artery with drug eluting intraluminal device using drug coated bal-loon, percutaneous endoscopic approach				
047K4D1	Dilation of right femoral artery with intraluminal device using drug coated balloon, percu-taneous endoscopic approach				
047K4Z1	Dilation of right femoral artery using drug coated balloon, perc endoscopic approach				
047L341	Dilation of left femoral artery with drug eluting intraluminal device using drug coated bal-loon, percutaneous approach				
047L3D1	Dilation of left femoral artery with intraluminal device using drug coated balloon, perc ap-proach				
047L3Z1	Dilation of left femoral artery using drug coated balloon, percutaneous approach				
047L441	Dilation of left femoral artery with drug eluting intraluminal device using drug coated bal-loon, percutaneous endoscopic approach				
047L4D1	Dilation of left femoral artery with intraluminal device using drug coated balloon, percuta-neous endoscopic approach				
047L4Z1	Dilation of left femoral artery using drug coated balloon, percutaneous endoscopic ap-proach				
047M341	Dilation of right popliteal artery with drug-eluting intraluminal device using drug-coated balloon, percutaneous approach				
047M3D1	Dilation of right popliteal artery with intraluminal device using drug-coated balloon, percu-taneous approach				
047M3Z1	Dilation of right popliteal artery using drug-coated balloon, percutaneous approach				
047M441	Dilation of right popliteal artery with drug-eluting intraluminal device using drug-coated balloon, percutaneous endoscopic approach				
047M4D1	Dilation of right popliteal artery with intraluminal device using drug-coated balloon, percu-taneous endoscopic approach				

ICD-10 procedure"	ICD-10 procedure description
047M4Z1	Dilation of right popliteal artery using drug-coated balloon, perc endoscopic approach
047N341	Dilation of left popliteal artery with drug-eluting intraluminal device using drug-coated balloon, percutaneous approach
047N3D1	Dilation of left popliteal artery with intraluminal device using drug-coated balloon, percu-taneous approach
047N3Z1	Dilation of left popliteal artery using drug-coated balloon, percutaneous approach
047N441	Dilation of left popliteal artery with drug-eluting intraluminal device using drug-coated balloon, percutaneous endoscopic approach
047N4D1	Dilation of left popliteal artery with intraluminal device using drug-coated balloon, percu-taneous endoscopic approach
047N4Z1	Dilation of left popliteal artery using drug-coated balloon, perc endoscopic approach
Iliac	
047C34Z	Dilation of Right Common Iliac Artery with Drug-eluting Intraluminal Device, Perc Ap-proach
047C3DZ	Dilation of Right Common Iliac Artery with Intraluminal Device, Percutaneous Approach
047C3ZZ	Dilation of Right Common Iliac Artery, Percutaneous Approach
047C44Z	Dilation of Right Common Iliac Artery with Drug-eluting Intraluminal Device, Percutaneous Endoscopic Approach
047C4DZ	Dilation of Right Common Iliac Artery with Intraluminal Device, Perc Endoscopic Approach
047C4ZZ	Dilation of Right Common Iliac Artery, Percutaneous Endoscopic Approach
047C4ZZ	Dilation of Right Common Iliac Artery, Percutaneous Endoscopic Approach
047D34Z	Dilation of Left Common Iliac Artery with Drug-eluting Intraluminal Device, Perc Approach
047D3DZ	Dilation of Left Common Iliac Artery with Intraluminal Device, Percutaneous Approach
047D3ZZ	Dilation of Left Common Iliac Artery, Percutaneous Approach
047D44Z	Dilation of Left Common Iliac Artery with Drug-eluting Intraluminal Device, Percutaneous Endoscopic Approach
047D4DZ	Dilation of Left Common Iliac Artery with Intraluminal Device, Perc Endoscopic Approach
047D4ZZ	Dilation of Left Common Iliac Artery, Percutaneous Endoscopic Approach
047E34Z	Dilation of Right Internal Iliac Artery with Drug-eluting Intraluminal Device, Perc Approach
047E3DZ	Dilation of Right Internal Iliac Artery with Intraluminal Device, Percutaneous Approach
047E3ZZ	Dilation of Right Internal Iliac Artery, Percutaneous Approach
047E44Z	Dilation of Right Internal Iliac Artery with Drug-eluting Intraluminal Device, Percutaneous Endoscopic Approach
047E4DZ	Dilation of Right Internal Iliac Artery with Intraluminal Device, Perc Endoscopic Approach
047E4ZZ	Dilation of Right Internal Iliac Artery, Percutaneous Endoscopic Approach
047F34Z	Dilation of Left Internal Iliac Artery with Drug-eluting Intraluminal Device, Perc Approach
047F3DZ	Dilation of Left Internal Iliac Artery with Intraluminal Device, Percutaneous Approach
047F3ZZ	Dilation of Left Internal Iliac Artery, Percutaneous Approach

047F442 Dilation of Left Internal Illac Artery with Drug-eluting Intraluminal Device, Percutaneous Endoscopic Approach 047F402 Dilation of Left Internal Illac Artery, Percutaneous Endoscopic Approach 047H22 Dilation of Left Internal Illac Artery, Percutaneous Endoscopic Approach 047H322 Dilation of Right External Illac Artery, With Drug-eluting Intraluminal Device, Perc Approach 047H322 Dilation of Right External Illac Artery, Vercutaneous Approach 047H422 Dilation of Right External Illac Artery, Vercutaneous Approach 047H422 Dilation of Right External Illac Artery, Vercutaneous Endoscopic Approach 047H422 Dilation of Right External Illac Artery, Vercutaneous Endoscopic Approach 047H422 Dilation of Left External Illac Artery, Vercutaneous Endoscopic Approach 047H422 Dilation of Left External Illac Artery, Vercutaneous Endoscopic Approach 047H422 Dilation of Left External Illac Artery, Vercutaneous Approach 047H422 Dilation of Left External Illac Artery, Vercutaneous Approach 047H422 Dilation of Left External Illac Artery, Vercutaneous Approach 047J322 Dilation of Left External Illac Artery, Vercutaneous Approach 047J422 Dilation of Left External Illac Artery, Vercutaneous Endoscopic Approach 047J422	ICD-10 procedure"	ICD-10 procedure description
047F4ZZ Dilation of Left Internal Iliac Artery, Percutaneous Endoscopic Approach 047H34Z Dilation of Right External Iliac Artery with Drug-eluting Intraluminal Device, Perc Approach 047H32Z Dilation of Right External Iliac Artery with Intraluminal Device, Percutaneous Approach 047H32Z Dilation of Right External Iliac Artery with Drug-eluting Intraluminal Device, Percutaneous Endoscopic Approach 047H4ZZ Dilation of Right External Iliac Artery with Intraluminal Device, Perc Endoscopic Approach 047H4ZZ Dilation of Right External Iliac Artery with Intraluminal Device, Perc Endoscopic Approach 047H4ZZ Dilation of Left External Iliac Artery, with Intraluminal Device, Perc Approach 047J32Z Dilation of Left External Iliac Artery, With Intraluminal Device, Perc Approach 047J32Z Dilation of Left External Iliac Artery with Intraluminal Device, Perc Approach 047J32Z Dilation of Left External Iliac Artery with Drug-eluting Intraluminal Device, Percutaneous Endoscopic Approach 047J42Z Dilation of Left External Iliac Artery with Intraluminal Device, Percutaneous Approach 047J42Z Dilation of Right Femoral Artery with Drug-eluting Intraluminal Device, Percutaneous Endoscopic Approach 047X42Z Dilation of Right Femoral Artery, Percutaneous Approach 047X42Z Dilation of Right Femoral Artery with Drug-eluting Intralum	047F44Z	Dilation of Left Internal Iliac Artery with Drug-eluting Intraluminal Device, Percutaneous Endoscopic Approach
047H342 Dilation of Right External Iliac Artery with Drug-eluting Intraluminal Device, Perc Approach 047H3D2 Dilation of Right External Iliac Artery with Intraluminal Device, Percutaneous Approach 047H3D2 Dilation of Right External Iliac Artery, Percutaneous Approach 047H442 Dilation of Right External Iliac Artery with Drug-eluting Intraluminal Device, Percutaneous Endoscopic Approach 047H422 Dilation of Right External Iliac Artery with Drug-eluting Intraluminal Device, Perc Approach 047H422 Dilation of Fight External Iliac Artery with Intraluminal Device, Perc Approach 047H422 Dilation of Left External Iliac Artery with Intraluminal Device, Perc Approach 047J322 Dilation of Left External Iliac Artery with Drug-eluting Intraluminal Device, Perc Approach 047J322 Dilation of Left External Iliac Artery with Drug-eluting Intraluminal Device, Percutaneous Endoscopic Approach 047J422 Dilation of Left External Iliac Artery with Drug-eluting Intraluminal Device, Percutaneous Endoscopic Approach 047J422 Dilation of Right Femoral Artery with Drug-eluting Intraluminal Device, Percutaneous Approach 047X422 Dilation of Right Femoral Artery with Drug-eluting Intraluminal Device, Percutaneous Approach 047K422 Dilation of Right Femoral Artery, Percutaneous Approach 047K423 Dilation of Right Femoral Artery, Vercu	047F4DZ	Dilation of Left Internal Iliac Artery with Intraluminal Device, Perc Endoscopic Approach
047H3DZ Dilation of Right External Iliac Artery with Intraluminal Device, Percutaneous Approach 047H3ZZ Dilation of Right External Iliac Artery, Percutaneous Approach 047H44Z Dilation of Right External Iliac Artery with Drug-eluting Intraluminal Device, Percutaneous Endoscopic Approach 047H4DZ Dilation of Right External Iliac Artery with Drug-eluting Intraluminal Device, Perc Approach 047H4DZ Dilation of Right External Iliac Artery with Drug-eluting Intraluminal Device, Perc Approach 047J34Z Dilation of Left External Iliac Artery with Intraluminal Device, Percutaneous Approach 047J34Z Dilation of Left External Iliac Artery with Drug-eluting Intraluminal Device, Percutaneous Approach 047J34Z Dilation of Left External Iliac Artery with Drug-eluting Intraluminal Device, Percutaneous Endoscopic Approach 047J4ZZ Dilation of Left External Iliac Artery with Drug-eluting Intraluminal Device, Percutaneous Endoscopic Approach 047J4ZZ Dilation of Left External Iliac Artery, Percutaneous Endoscopic Approach 047J4ZZ Dilation of Right Femoral Artery, with Drug-eluting Intraluminal Device, Percutaneous Approach 047K34Z Dilation of Right Femoral Artery with Drug-eluting Intraluminal Device, Percutaneous Approach 047K4ZZ Dilation of Right Femoral Artery, Vercutaneous Approach 047K4ZZ Dilation of Right Femoral Artery with Drug-eluting Intraluminal Device, Per	047F4ZZ	Dilation of Left Internal Iliac Artery, Percutaneous Endoscopic Approach
047H3ZZ Dilation of Right External Iliac Artery, Percutaneous Approach 047H44Z Dilation of Right External Iliac Artery with Drug-eluting Intraluminal Device, Perc Endoscopic Approach 047H42Z Dilation of Right External Iliac Artery with Intraluminal Device, Perc Endoscopic Approach 047H42Z Dilation of Left External Iliac Artery with Intraluminal Device, Perc Approach 047H32Z Dilation of Left External Iliac Artery with Drug-eluting Intraluminal Device, Perc Approach 047J34Z Dilation of Left External Iliac Artery with Drug-eluting Intraluminal Device, Perc Devictaneous Approach 047J34Z Dilation of Left External Iliac Artery with Drug-eluting Intraluminal Device, Percutaneous Endoscopic Approach 047J44Z Dilation of Left External Iliac Artery with Drug-eluting Intraluminal Device, Percutaneous Endoscopic Approach 047J4ZZ Dilation of Left External Iliac Artery with Drug-eluting Intraluminal Device, Percutaneous Endoscopic Approach 047J4ZZ Dilation of Right Femoral Artery with Drug-eluting Intraluminal Device, Percutaneous Approach 047J4ZZ Dilation of Right Femoral Artery with Drug-eluting Intraluminal Device, Percutaneous Approach 047K3ZZ Dilation of Right Femoral Artery with Drug-eluting Intraluminal Device, Percutaneous Endoscopic Approach 047K4ZZ Dilation of Right Femoral Artery with Intraluminal Device, Percutaneous Endoscopic Approach 047K4ZZ <td< td=""><td>047H34Z</td><td>Dilation of Right External Iliac Artery with Drug-eluting Intraluminal Device, Perc Approach</td></td<>	047H34Z	Dilation of Right External Iliac Artery with Drug-eluting Intraluminal Device, Perc Approach
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047L4DZDilation of Left Femoral Artery with Intraluminal Device, Percutaneous Endoscopic Ap-proach047L4ZZDilation of Left Femoral Artery, Percutaneous Endoscopic Approach047M34ZDilation of Right Popliteal Artery with Drug-eluting Intraluminal Device, Perc Approach047M3DZDilation of Right Popliteal Artery with Intraluminal Device, Percutaneous Approach047M3ZZDilation of Right Popliteal Artery, Percutaneous Approach047M3ZZDilation of Right Popliteal Artery, Percutaneous Approach047M4ZZDilation of Right Popliteal Artery, Percutaneous Approach	047L3ZZ	Dilation of Left Femoral Artery, Percutaneous Approach
047L4ZZDilation of Left Femoral Artery, Percutaneous Endoscopic Approach047M34ZDilation of Right Popliteal Artery with Drug-eluting Intraluminal Device, Perc Approach047M3DZDilation of Right Popliteal Artery with Intraluminal Device, Percutaneous Approach047M3ZZDilation of Right Popliteal Artery, Percutaneous Approach047M4ZZDilation of Right Popliteal Artery with Drug-eluting Intraluminal Device, Percutaneous Approach	047L44Z	Dilation of Left Femoral Artery with Drug-eluting Intraluminal Device, Percutaneous Endo-scopic Approach
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047M3DZDilation of Right Popliteal Artery with Intraluminal Device, Percutaneous Approach047M3ZZDilation of Right Popliteal Artery, Percutaneous Approach047M44ZDilation of Right Popliteal Artery with Drug-eluting Intraluminal Device, Percutaneous En-doscopic Approach	047L4ZZ	Dilation of Left Femoral Artery, Percutaneous Endoscopic Approach
047M3ZZDilation of Right Popliteal Artery, Percutaneous Approach047M44ZDilation of Right Popliteal Artery with Drug-eluting Intraluminal Device, Percutaneous En-doscopic Approach	047M34Z	Dilation of Right Popliteal Artery with Drug-eluting Intraluminal Device, Perc Approach
047M44Z Dilation of Right Popliteal Artery with Drug-eluting Intraluminal Device, Percutaneous En-doscopic Approach	047M3DZ	Dilation of Right Popliteal Artery with Intraluminal Device, Percutaneous Approach
	047M3ZZ	Dilation of Right Popliteal Artery, Percutaneous Approach
047M4DZ Dilation of Right Popliteal Artery with Intraluminal Device, Perc Endoscopic Approach	047M44Z	Dilation of Right Popliteal Artery with Drug-eluting Intraluminal Device, Percutaneous En-doscopic Approach
	047M4DZ	Dilation of Right Popliteal Artery with Intraluminal Device, Perc Endoscopic Approach

ICD-10 procedure ⁱⁱ	ICD-10 procedure description
047M4ZZ	Dilation of Right Popliteal Artery, Percutaneous Endoscopic Approach
047N34Z	Dilation of Left Popliteal Artery with Drug-eluting Intraluminal Device, Perc Approach
047N3DZ	Dilation of Left Popliteal Artery with Intraluminal Device, Percutaneous Approach
047N3ZZ	Dilation of Left Popliteal Artery, Percutaneous Approach
047N44Z	Dilation of Left Popliteal Artery with Drug-eluting Intraluminal Device, Percutaneous En-doscopic Approach
047N4DZ	Dilation of Left Popliteal Artery with Intraluminal Device, Percutaneous Endoscopic Ap-proach
047N4ZZ	Dilation of Left Popliteal Artery, Percutaneous Endoscopic Approach
Tibial/peron	leal
047P34Z	Dilation of Right Anterior Tibial Artery with Drug-eluting Intraluminal Device, Perc Ap-proach
047P3DZ	Dilation of Right Anterior Tibial Artery with Intraluminal Device, Percutaneous Approach
047P3ZZ	Dilation of Right Anterior Tibial Artery, Percutaneous Approach
047P44Z	Dilation of Right Anterior Tibial Artery with Drug-eluting Intraluminal Device, Percutane-ous Endoscopic Approach
047P4DZ	Dilation of Right Anterior Tibial Artery with Intraluminal Device, Perc Endoscopic Approach
047P4ZZ	Dilation of Right Anterior Tibial Artery, Percutaneous Endoscopic Approach
047Q34Z	Dilation of Left Anterior Tibial Artery with Drug-eluting Intraluminal Device, Perc Approach
047Q3DZ	Dilation of Left Anterior Tibial Artery with Intraluminal Device, Percutaneous Approach
047Q3ZZ	Dilation of Left Anterior Tibial Artery, Percutaneous Approach
047Q44Z	Dilation of Left Anterior Tibial Artery with Drug-eluting Intraluminal Device, Percutaneous Endoscopic Approach
047Q4DZ	Dilation of Left Anterior Tibial Artery with Intraluminal Device, Perc Endoscopic Approach
047Q4ZZ	Dilation of Left Anterior Tibial Artery, Percutaneous Endoscopic Approach
047R34Z	Dilation of Right Posterior Tibial Artery with Drug-eluting Intraluminal Device, Perc Ap-proach
047R3DZ	Dilation of Right Posterior Tibial Artery with Intraluminal Device, Percutaneous Approach
047R3ZZ	Dilation of Right Posterior Tibial Artery, Percutaneous Approach
047R44Z	Dilation of Right Posterior Tibial Artery w Drug-eluting Intraluminal Device, Percutaneous Endoscopic Approach
047R4DZ	Dilation of Right Posterior Tibial Artery with Intraluminal Device, Perc Endoscopic Ap-proach
047R4ZZ	Dilation of Right Posterior Tibial Artery, Percutaneous Endoscopic Approach
047S34Z	Dilation of Left Posterior Tibial Artery with Drug-eluting Intraluminal Device, Perc Ap-proach
047S3DZ	Dilation of Left Posterior Tibial Artery with Intraluminal Device, Percutaneous Approach
047S3ZZ	Dilation of Left Posterior Tibial Artery, Percutaneous Approach
047S44Z	Dilation of Left Posterior Tibial Artery with Drug-eluting Intraluminal Device, Percutane-ous Endoscopic Approach
047S4DZ	Dilation of Left Posterior Tibial Artery with Intraluminal Device, Perc Endoscopic Approach

04754ZZ Dilation of Left Posterior Tibial Artery. Percutaneous Endoscopic Approach 047734Z Dilation of Right Peroneal Artery with Drug-eluting Intraluminal Device, Perc Approach 047732Z Dilation of Right Peroneal Artery with Intraluminal Device, Percutaneous Approach 047742Z Dilation of Right Peroneal Artery with Drug-eluting Intraluminal Device, Percutaneous En-doscopic Approach 047742Z Dilation of Right Peroneal Artery with Drug-eluting Intraluminal Device, Perc Endoscopic Approach 047742Z Dilation of Right Peroneal Artery, Vercutaneous Endoscopic Approach 047742Z Dilation of Left Peroneal Artery, Vercutaneous Endoscopic Approach 047732Z Dilation of Left Peroneal Artery, Vercutaneous Approach 047032Z Dilation of Left Peroneal Artery, Percutaneous Approach 047042Z Dilation of Left Peroneal Artery, Percutaneous Endoscopic Approach 047042Z Dilation of Left Peroneal Artery, Percutaneous Endoscopic Approach 047042Z Dilation of Matter from Right Femoral Artery, Bifurcation, Percutaneous Approach 047042Z Dilation of Matter from Right Femoral Artery, Bifurcation,	ICD-10 procedure"	ICD-10 procedure description
047T3D2 Dilation of Right Peroneal Artery with Intraluminal Device, Percutaneous Approach 047T322 Dilation of Right Peroneal Artery, Percutaneous Approach 047T442 Dilation of Right Peroneal Artery with Drug-eluting Intraluminal Device, Perc Endoscopic Approach 047T422 Dilation of Right Peroneal Artery with Drug-eluting Intraluminal Device, Perc Approach 047T422 Dilation of Right Peroneal Artery, Percutaneous Endoscopic Approach 047U322 Dilation of Left Peroneal Artery with Intraluminal Device, Perc Approach 047U3232 Dilation of Left Peroneal Artery with Intraluminal Device, Percutaneous Approach 047U324 Dilation of Left Peroneal Artery, Vercutaneous Approach 047U422 Dilation of Left Peroneal Artery with Intraluminal Device, Percutaneous Endoscopic Approach 047U422 Dilation of Left Peroneal Artery, Vercutaneous Endoscopic Approach 047U422 Dilation of Left Peroneal Artery, Percutaneous Endoscopic Approach 047U422 Dilation of Left Peroneal Artery, Percutaneous Endoscopic Approach 047U425 Dilation of Matter from Right Femoral Artery, Bifurcation, Percutaneous Approach 04CK326 Extirpation of Matter from Right Femoral Artery, Bifurcation, Perc Endoscopic Approach 04CK426 Extirpation of Matter from Left Femoral Artery, Bifurcation, Perc Endoscopic Approach 04CK425 <td>047S4ZZ</td> <td>Dilation of Left Posterior Tibial Artery, Percutaneous Endoscopic Approach</td>	047S4ZZ	Dilation of Left Posterior Tibial Artery, Percutaneous Endoscopic Approach
0471322 Dilation of Right Peroneal Artery, Percutaneous Approach 0471442 Dilation of Right Peroneal Artery with Drug-eluting Intraluminal Device, Perc Endoscopic Approach 0471422 Dilation of Right Peroneal Artery with Intraluminal Device, Perc Endoscopic Approach 0471422 Dilation of Right Peroneal Artery with Intraluminal Device, Perc Endoscopic Approach 0471322 Dilation of Left Peroneal Artery with Intraluminal Device, Perc Approach 0471322 Dilation of Left Peroneal Artery with Drug-eluting Intraluminal Device, Percutaneous Approach 0471322 Dilation of Left Peroneal Artery with Drug-eluting Intraluminal Device, Percutaneous En-doscopic Approach 0471422 Dilation of Left Peroneal Artery with Drug-eluting Intraluminal Device, Percutaneous En-doscopic Approach 0471422 Dilation of Left Peroneal Artery with Intraluminal Device, Percutaneous Endoscopic Approach 0471422 Dilation of Left Peroneal Artery, Vercutaneous Endoscopic Approach 0471422 Dilation of Matter from Right Femoral Artery, Bifurcation, Percutaneous Approach 0471423 Dilation of Matter from Right Femoral Artery, Bifurcation, Percutaneous Approach 04CK322 Extirpation of Matter from Right Femoral Artery, Bifurcation, Percutaneous Approach 04CK423 Extirpation of Matter from Left Femoral Artery, Bifurcation, Percutaneous Approach 04CK424 Ex	047T34Z	Dilation of Right Peroneal Artery with Drug-eluting Intraluminal Device, Perc Approach
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04CK3ZZExtirpation of Matter from Right Femoral Artery, Percutaneous Approach04CK4Z6Extirpation of Matter from Right Femoral Artery, Bifurcation, Perc Endoscopic Approach04CK4Z2Extirpation of Matter from Right Femoral Artery, Percutaneous Endoscopic Approach04CL3Z6Extirpation of Matter from Left Femoral Artery, Bifurcation, Percutaneous Approach04CL3Z7Extirpation of Matter from Left Femoral Artery, Percutaneous Approach04CL4Z6Extirpation of Matter from Left Femoral Artery, Percutaneous Approach04CL4Z6Extirpation of Matter from Left Femoral Artery, Bifurcation, Perc Endoscopic Approach04CL4Z6Extirpation of Matter from Left Femoral Artery, Percutaneous Endoscopic Approach04CL4Z7Extirpation of Matter from Left Femoral Artery, Percutaneous Endoscopic Approach04CL4Z6Extirpation of Matter from Left Femoral Artery, Percutaneous Endoscopic Approach04CM3Z6Extirpation of Matter from Right Popliteal Artery, Percutaneous Approach04CM3Z7Extirpation of Matter from Right Popliteal Artery, Bifurcation, Perc Endoscopic Approach04CM4Z6Extirpation of Matter from Right Popliteal Artery, Bifurcation, Perc Endoscopic Approach04CM4Z7Extirpation of Matter from Right Popliteal Artery, Percutaneous Endoscopic Approach04CM4Z7Extirpation of Matter from Left Popliteal Artery, Bifurcation, Perc Endoscopic Approach04CM4Z7Extirpation of Matter from Left Popliteal Artery, Percutaneous Approach04CM4Z6Extirpation of Matter from Left Popliteal Artery, Percutaneous Approach04CM4Z6Extirpation of Matter from Left Popliteal Artery, Percutaneous Approach04CN3	Femoral/po	pliteal
04CK4Z6Extirpation of Matter from Right Femoral Artery, Bifurcation, Perc Endoscopic Approach04CK4Z2Extirpation of Matter from Right Femoral Artery, Percutaneous Endoscopic Approach04CL3Z6Extirpation of Matter from Left Femoral Artery, Bifurcation, Percutaneous Approach04CL3Z2Extirpation of Matter from Left Femoral Artery, Percutaneous Approach04CL4Z6Extirpation of Matter from Left Femoral Artery, Percutaneous Approach04CL4Z6Extirpation of Matter from Left Femoral Artery, Bifurcation, Perc Endoscopic Approach04CL4Z7Extirpation of Matter from Left Femoral Artery, Percutaneous Endoscopic Approach04CL4Z8Extirpation of Matter from Left Femoral Artery, Percutaneous Endoscopic Approach04CM326Extirpation of Matter from Right Popliteal Artery, Bifurcation, Percutaneous Approach04CM327Extirpation of Matter from Right Popliteal Artery, Percutaneous Approach04CM426Extirpation of Matter from Right Popliteal Artery, Bifurcation, Perc Endoscopic Approach04CM427Extirpation of Matter from Right Popliteal Artery, Bifurcation, Perc Endoscopic Approach04CM428Extirpation of Matter from Right Popliteal Artery, Percutaneous Endoscopic Approach04CM326Extirpation of Matter from Right Popliteal Artery, Percutaneous Endoscopic Approach04CN327Extirpation of Matter from Left Popliteal Artery, Percutaneous Endoscopic Approach04CN326Extirpation of Matter from Left Popliteal Artery, Percutaneous Approach04CN327Extirpation of Matter from Left Popliteal Artery, Percutaneous Approach04CN328Extirpation of Matter from Left Popliteal Artery, Percutaneous Approach	04CK3Z6	Extirpation of Matter from Right Femoral Artery, Bifurcation, Percutaneous Approach
04CK4ZZExtirpation of Matter from Right Femoral Artery, Percutaneous Endoscopic Approach04CL3Z6Extirpation of Matter from Left Femoral Artery, Bifurcation, Percutaneous Approach04CL3ZZExtirpation of Matter from Left Femoral Artery, Percutaneous Approach04CL4Z6Extirpation of Matter from Left Femoral Artery, Bifurcation, Perc Endoscopic Approach04CL4Z7Extirpation of Matter from Left Femoral Artery, Percutaneous Endoscopic Approach04CL4Z2Extirpation of Matter from Left Femoral Artery, Percutaneous Endoscopic Approach04CM3Z6Extirpation of Matter from Right Popliteal Artery, Bifurcation, Percutaneous Approach04CM3Z2Extirpation of Matter from Right Popliteal Artery, Percutaneous Approach04CM4Z6Extirpation of Matter from Right Popliteal Artery, Percutaneous Approach04CM4Z6Extirpation of Matter from Right Popliteal Artery, Percutaneous Approach04CN3Z6Extirpation of Matter from Right Popliteal Artery, Percutaneous Endoscopic Approach04CN3Z6Extirpation of Matter from Right Popliteal Artery, Percutaneous Endoscopic Approach04CN3Z6Extirpation of Matter from Right Popliteal Artery, Percutaneous Endoscopic Approach04CN3Z6Extirpation of Matter from Left Popliteal Artery, Percutaneous Approach04CN3Z6Extirpation of Matter from Left Popliteal Artery, Percutaneous Approach04CN3Z6Extirpation of Matter from Left Popliteal Artery, Bifurcation, Percutaneous Approach04CN3Z6Extirpation of Matter from Left Popliteal Artery, Percutaneous Approach04CN3Z6Extirpation of Matter from Left Popliteal Artery, Percutaneous Approach04CN3Z6Extirpa	04CK3ZZ	Extirpation of Matter from Right Femoral Artery, Percutaneous Approach
04CL3Z6Extirpation of Matter from Left Femoral Artery, Bifurcation, Percutaneous Approach04CL3ZZExtirpation of Matter from Left Femoral Artery, Percutaneous Approach04CL4Z6Extirpation of Matter from Left Femoral Artery, Bifurcation, Perc Endoscopic Approach04CL4Z7Extirpation of Matter from Left Femoral Artery, Percutaneous Endoscopic Approach04CL4Z8Extirpation of Matter from Right Popliteal Artery, Percutaneous Endoscopic Approach04CM3Z6Extirpation of Matter from Right Popliteal Artery, Percutaneous Approach04CM4Z6Extirpation of Matter from Right Popliteal Artery, Percutaneous Approach04CM4Z6Extirpation of Matter from Right Popliteal Artery, Bifurcation, Perc Endoscopic Approach04CM4Z6Extirpation of Matter from Right Popliteal Artery, Percutaneous Endoscopic Approach04CN4Z6Extirpation of Matter from Right Popliteal Artery, Percutaneous Approach04CN4Z7Extirpation of Matter from Right Popliteal Artery, Percutaneous Endoscopic Approach04CN4Z8Extirpation of Matter from Right Popliteal Artery, Percutaneous Endoscopic Approach04CN3Z6Extirpation of Matter from Right Popliteal Artery, Percutaneous Endoscopic Approach04CN3Z6Extirpation of Matter from Left Popliteal Artery, Bifurcation, Percutaneous Approach04CN3Z6Extirpation of Matter from Left Popliteal Artery, Percutaneous Approach04CN4Z6 <td< td=""><td>04CK4Z6</td><td>Extirpation of Matter from Right Femoral Artery, Bifurcation, Perc Endoscopic Approach</td></td<>	04CK4Z6	Extirpation of Matter from Right Femoral Artery, Bifurcation, Perc Endoscopic Approach
04CL3ZZExtirpation of Matter from Left Femoral Artery, Percutaneous Approach04CL4Z6Extirpation of Matter from Left Femoral Artery, Bifurcation, Perc Endoscopic Approach04CL4Z2Extirpation of Matter from Left Femoral Artery, Percutaneous Endoscopic Approach04CL4Z2Extirpation of Matter from Right Popliteal Artery, Percutaneous Approach04CM3Z6Extirpation of Matter from Right Popliteal Artery, Bifurcation, Percutaneous Approach04CM4Z6Extirpation of Matter from Right Popliteal Artery, Percutaneous Approach04CM4Z6Extirpation of Matter from Right Popliteal Artery, Bifurcation, Perc Endoscopic Approach04CM4Z6Extirpation of Matter from Right Popliteal Artery, Percutaneous Endoscopic Approach04CN4Z6Extirpation of Matter from Right Popliteal Artery, Percutaneous Endoscopic Approach04CN3Z6Extirpation of Matter from Right Popliteal Artery, Percutaneous Endoscopic Approach04CN427Extirpation of Matter from Right Popliteal Artery, Percutaneous Endoscopic Approach04CN3Z6Extirpation of Matter from Left Popliteal Artery, Bifurcation, Percutaneous Approach04CN3Z2Extirpation of Matter from Left Popliteal Artery, Percutaneous Approach04CN3Z2Extirpation of Matter from Left Popliteal Artery, Percutaneous Approach04CN426Extirpation of Matter from Left Popliteal Artery, Percutaneous Approach	04CK4ZZ	Extirpation of Matter from Right Femoral Artery, Percutaneous Endoscopic Approach
04CL4Z6Extirpation of Matter from Left Femoral Artery, Bifurcation, Perc Endoscopic Approach04CL4ZZExtirpation of Matter from Left Femoral Artery, Percutaneous Endoscopic Approach04CM3Z6Extirpation of Matter from Right Popliteal Artery, Bifurcation, Percutaneous Approach04CM3Z2Extirpation of Matter from Right Popliteal Artery, Percutaneous Approach04CM4Z6Extirpation of Matter from Right Popliteal Artery, Percutaneous Approach04CM4Z6Extirpation of Matter from Right Popliteal Artery, Bifurcation, Perc Endoscopic Approach04CM4Z2Extirpation of Matter from Right Popliteal Artery, Percutaneous Endoscopic Approach04CN3Z6Extirpation of Matter from Left Popliteal Artery, Bifurcation, Percutaneous Approach04CN3Z7Extirpation of Matter from Left Popliteal Artery, Bifurcation, Percutaneous Approach04CN3Z6Extirpation of Matter from Left Popliteal Artery, Percutaneous Approach04CN3Z7Extirpation of Matter from Left Popliteal Artery, Percutaneous Approach04CN3Z6Extirpation of Matter from Left Popliteal Artery, Percutaneous Approach04CN3Z7Extirpation of Matter from Left Popliteal Artery, Percutaneous Approach04CN3Z6Extirpation of Matter from Left Popliteal Artery, Percutaneous Approach04CN3Z6Extirpation of Matter from Left Popliteal Artery, Percutaneous Approach04CN4Z6Extirpation of Matter from Left Popliteal Artery, Bifurcation, Perc Endoscopic Approach	04CL3Z6	Extirpation of Matter from Left Femoral Artery, Bifurcation, Percutaneous Approach
04CL4ZZExtirpation of Matter from Left Femoral Artery, Percutaneous Endoscopic Approach04CM3Z6Extirpation of Matter from Right Popliteal Artery, Bifurcation, Percutaneous Approach04CM3Z2Extirpation of Matter from Right Popliteal Artery, Percutaneous Approach04CM4Z6Extirpation of Matter from Right Popliteal Artery, Bifurcation, Perc Endoscopic Approach04CM4Z7Extirpation of Matter from Right Popliteal Artery, Bifurcation, Perc Endoscopic Approach04CM4Z2Extirpation of Matter from Right Popliteal Artery, Percutaneous Endoscopic Approach04CN3Z6Extirpation of Matter from Left Popliteal Artery, Bifurcation, Percutaneous Approach04CN3Z2Extirpation of Matter from Left Popliteal Artery, Bifurcation, Percutaneous Approach04CN3Z6Extirpation of Matter from Left Popliteal Artery, Bifurcation, Percutaneous Approach04CN3Z7Extirpation of Matter from Left Popliteal Artery, Percutaneous Approach04CN3Z7Extirpation of Matter from Left Popliteal Artery, Percutaneous Approach04CN4Z6Extirpation of Matter from Left Popliteal Artery, Bifurcation, Perc Endoscopic Approach	04CL3ZZ	Extirpation of Matter from Left Femoral Artery, Percutaneous Approach
04CM3Z6Extirpation of Matter from Right Popliteal Artery, Bifurcation, Percutaneous Approach04CM3ZZExtirpation of Matter from Right Popliteal Artery, Percutaneous Approach04CM4Z6Extirpation of Matter from Right Popliteal Artery, Bifurcation, Perc Endoscopic Approach04CM4Z2Extirpation of Matter from Right Popliteal Artery, Percutaneous Endoscopic Approach04CN3Z6Extirpation of Matter from Left Popliteal Artery, Bifurcation, Percutaneous Approach04CN3Z6Extirpation of Matter from Left Popliteal Artery, Bifurcation, Percutaneous Approach04CN3Z2Extirpation of Matter from Left Popliteal Artery, Percutaneous Approach04CN3Z6Extirpation of Matter from Left Popliteal Artery, Percutaneous Approach04CN3Z6Extirpation of Matter from Left Popliteal Artery, Percutaneous Approach04CN3Z7Extirpation of Matter from Left Popliteal Artery, Percutaneous Approach04CN4Z6Extirpation of Matter from Left Popliteal Artery, Percutaneous Approach04CN4Z6Extirpation of Matter from Left Popliteal Artery, Bifurcation, Perc Endoscopic Approach	04CL4Z6	Extirpation of Matter from Left Femoral Artery, Bifurcation, Perc Endoscopic Approach
04CM3ZZExtirpation of Matter from Right Popliteal Artery, Percutaneous Approach04CM4Z6Extirpation of Matter from Right Popliteal Artery, Bifurcation, Perc Endoscopic Approach04CM4Z2Extirpation of Matter from Right Popliteal Artery, Percutaneous Endoscopic Approach04CN3Z6Extirpation of Matter from Left Popliteal Artery, Bifurcation, Percutaneous Approach04CN3Z2Extirpation of Matter from Left Popliteal Artery, Bifurcation, Percutaneous Approach04CN3Z2Extirpation of Matter from Left Popliteal Artery, Percutaneous Approach04CN3Z2Extirpation of Matter from Left Popliteal Artery, Percutaneous Approach04CN4Z6Extirpation of Matter from Left Popliteal Artery, Percutaneous Approach	04CL4ZZ	Extirpation of Matter from Left Femoral Artery, Percutaneous Endoscopic Approach
04CM4Z6Extirpation of Matter from Right Popliteal Artery, Bifurcation, Perc Endoscopic Approach04CM4ZZExtirpation of Matter from Right Popliteal Artery, Percutaneous Endoscopic Approach04CN3Z6Extirpation of Matter from Left Popliteal Artery, Bifurcation, Percutaneous Approach04CN3ZZExtirpation of Matter from Left Popliteal Artery, Percutaneous Approach04CN3ZZExtirpation of Matter from Left Popliteal Artery, Percutaneous Approach04CN3Z6Extirpation of Matter from Left Popliteal Artery, Percutaneous Approach04CN3Z2Extirpation of Matter from Left Popliteal Artery, Percutaneous Approach04CN4Z6Extirpation of Matter from Left Popliteal Artery, Bifurcation, Perc Endoscopic Approach	04CM3Z6	Extirpation of Matter from Right Popliteal Artery, Bifurcation, Percutaneous Approach
04CM4ZZExtirpation of Matter from Right Popliteal Artery, Percutaneous Endoscopic Approach04CN3Z6Extirpation of Matter from Left Popliteal Artery, Bifurcation, Percutaneous Approach04CN3ZZExtirpation of Matter from Left Popliteal Artery, Percutaneous Approach04CN4Z6Extirpation of Matter from Left Popliteal Artery, Bifurcation, Perc Endoscopic Approach	04CM3ZZ	Extirpation of Matter from Right Popliteal Artery, Percutaneous Approach
04CN3Z6Extirpation of Matter from Left Popliteal Artery, Bifurcation, Percutaneous Approach04CN3ZZExtirpation of Matter from Left Popliteal Artery, Percutaneous Approach04CN4Z6Extirpation of Matter from Left Popliteal Artery, Bifurcation, Perc Endoscopic Approach	04CM4Z6	Extirpation of Matter from Right Popliteal Artery, Bifurcation, Perc Endoscopic Approach
04CN3ZZExtirpation of Matter from Left Popliteal Artery, Percutaneous Approach04CN4Z6Extirpation of Matter from Left Popliteal Artery, Bifurcation, Perc Endoscopic Approach	04CM4ZZ	Extirpation of Matter from Right Popliteal Artery, Percutaneous Endoscopic Approach
04CN4Z6 Extirpation of Matter from Left Popliteal Artery, Bifurcation, Perc Endoscopic Approach	04CN3Z6	Extirpation of Matter from Left Popliteal Artery, Bifurcation, Percutaneous Approach
	04CN3ZZ	Extirpation of Matter from Left Popliteal Artery, Percutaneous Approach
04CN4ZZ Extirpation of Matter from Left Popliteal Artery, Percutaneous Endoscopic Approach	04CN4Z6	Extirpation of Matter from Left Popliteal Artery, Bifurcation, Perc Endoscopic Approach
	04CN4ZZ	Extirpation of Matter from Left Popliteal Artery, Percutaneous Endoscopic Approach

ICD-10 procedure description

Tibial/pero	neal
04CP3Z6	Extirpation of Matter from Right Anterior Tibial Artery, Bifurcation, Perc Approach
04CP3ZZ	Extirpation of Matter from Right Anterior Tibial Artery, Percutaneous Approach
04CP4Z6	Extirpation of Matter from Right Anterior Tibial Artery, Bifurcation, Perc Endoscopic Ap-proach
04CP4ZZ	Extirpation of Matter from Right Anterior Tibial Artery, Percutaneous Endoscopic Approach
04CQ3Z6	Extirpation of Matter from Left Anterior Tibial Artery, Bifurcation, Percutaneous Approach
04CQ3ZZ	Extirpation of Matter from Left Anterior Tibial Artery, Percutaneous Approach
04CQ4Z6	Extirpation of Matter from Left Anterior Tibial Artery, Bifurcation, Perc Endoscopic Ap-proach
04CQ4ZZ	Extirpation of Matter from Left Anterior Tibial Artery, Percutaneous Endoscopic Approach
04CR3Z6	Extirpation of Matter from Right Posterior Tibial Artery, Bifurcation, Percutaneous Ap-proach
04CR3ZZ	Extirpation of Matter from Right Posterior Tibial Artery, Percutaneous Approach
04CR4Z6	Extirpation of Matter from Right Posterior Tibial Artery, Bifurcation, Perc Endoscopic Ap-proach
04CR4ZZ	Extirpation of Matter from Right Posterior Tibial Artery, Percutaneous Endoscopic Ap-proach
04CS3Z6	Extirpation of Matter from Left Posterior Tibial Artery, Bifurcation, Percutaneous Approach
04CS3ZZ	Extirpation of Matter from Left Posterior Tibial Artery, Percutaneous Approach
04CS4Z6	Extirpation of Matter from Left Posterior Tibial Artery, Bifurcation, Perc Endoscopic Ap-proach
04CS4ZZ	Extirpation of Matter from Left Posterior Tibial Artery, Percutaneous Endoscopic Approach
04CT3Z6	Extirpation of Matter from Right Peroneal Artery, Bifurcation, Percutaneous Approach
04CT3ZZ	Extirpation of Matter from Right Peroneal Artery, Percutaneous Approach
04CT4Z6	Extirpation of Matter from Right Peroneal Artery, Bifurcation, Perc Endoscopic Approach
04CT4ZZ	Extirpation of Matter from Right Peroneal Artery, Percutaneous Endoscopic Approach
04CU3Z6	Extirpation of Matter from Left Peroneal Artery, Bifurcation, Percutaneous Approach
04CU3ZZ	Extirpation of Matter from Left Peroneal Artery, Percutaneous Approach
04CU4Z6	Extirpation of Matter from Left Peroneal Artery, Bifurcation, Perc Endoscopic Approach
04CU4ZZ	Extirpation of Matter from Left Peroneal Artery, Percutaneous Endoscopic Approach

Appendix C: Peripheral venous ICD-10 procedure codes

Verous IUUS (non-coronary)B543223Ultrasonography of Right Jugular Veins, IntravascularB544223Ultrasonography of Left Jugular Veins, IntravascularB544223Ultrasonography of Right Subclavian Vein, IntravascularB547223Ultrasonography of Left Subclavian Vein, IntravascularB54723Ultrasonography of Superior Vena Cava, IntravascularB54723Ultrasonography of Superior Vena Cava, IntravascularB54723Ultrasonography of Right Lower Extremity Veins, IntravascularB54723Ultrasonography of Right Lower Extremity Veins, IntravascularB54723Ultrasonography of Left Lower Extremity Veins, IntravascularB54723Ultrasonography of Right Renal Vein, IntravascularB54723Ultrasonography of Left Renal Vein, IntravascularB54723Ultrasonography of Bilateral Upper Extremity Veins, IntravascularB54723Ultrasonography of Right Common Iliac Vein with Intraluminal Device, Percutaneous ApproachB54723Ultrasonography of Right Common Iliac Vein with Intraluminal Device, Percutaneous ApproachB54723Ultation of Right External Iliac Vein with Intraluminal Device, Percutaneous ApproachB54723Ult	ICD-10 procedure ⁱⁱ	ICD-10 procedure description
B544223Ultrasonography of Left Jugular Veins, IntravascularB544223Ultrasonography of Right Subclavian Vein, IntravascularB54223Ultrasonography of Superior Vena Cava, IntravascularB54223Ultrasonography of Superior Vena Cava, IntravascularB54223Ultrasonography of Right Lower Extremity Veins, IntravascularB54223Ultrasonography of Right Lower Extremity Veins, IntravascularB54223Ultrasonography of Left Lower Extremity Veins, IntravascularB54223Ultrasonography of Bilateral Lower Extremity Veins, IntravascularB54223Ultrasonography of Bilateral Lower Extremity Veins, IntravascularB54223Ultrasonography of Left Eneal Vein, IntravascularB54223Ultrasonography of Left Renal Vein, IntravascularB54223Ultrasonography of Left Deper Extremity Veins, IntravascularB54223Ultrasonography of Right Upper Extremity Veins, IntravascularB544223Ultrasonography of Right Upper Extremity Veins, IntravascularB544223Ultrasonography of Right Upper Extremity Veins, IntravascularB544223Ultrasonography of Bilateral Renal Veins, IntravascularB544223Ultrasonography of Right Opper Extremity Veins, IntravascularB544223Ultrasonography of Right Upper Extremity Veins, IntravascularB544224Ultrasonography of Right Common Illac Vein with Intraluminal Device, Percutaneous Approach067332Dilation of Right Common Illac Vein with Intraluminal Device, Perc Endoscopic Approach067332Dilation of Right External Illac Vein with Intraluminal Device, Percutaneous Approach067342Dilation of	Venous IVUS	5 (non-coronary)
B546Z23Ultrasonography of Right Subclavian Vein, IntravascularB547Z23Ultrasonography of Left Subclavian Vein, IntravascularB548Z23Ultrasonography of Superior Vena Cava, IntravascularB548Z23Ultrasonography of Inferior Vena Cava, IntravascularB548Z23Ultrasonography of Right Lower Extremity Veins, IntravascularB548Z23Ultrasonography of Right Lower Extremity Veins, IntravascularB54Z23Ultrasonography of Bilateral Lower Extremity Veins, IntravascularB54Z23Ultrasonography of Right Renal Vein, IntravascularB54Z23Ultrasonography of Right Renal Vein, IntravascularB54Z23Ultrasonography of Bilateral Renal Vein, IntravascularB54Z23Ultrasonography of Bilateral Renal Veins, IntravascularB54Z23Ultrasonography of Bilateral Renal Veins, IntravascularB54Z23Ultrasonography of Bilateral Renal Veins, IntravascularB54Z23Ultrasonography of Bilateral Upper Extremity Veins, IntravascularB54Z23Ultrasonography of Right Common Iliac Vein with Intraluminal Device, Percutaneous Approach067C4D2Dilation of Right Common Iliac Vein with Intraluminal Device, Percutaneous Approach067D4D2Dilation of Left Common Iliac Vein with Intraluminal Device, Perc Endoscopic Approach067G4D2Dilation of Left External Iliac Vein with Intraluminal Device, Perc Endoscopic Approach067G	B543ZZ3	Ultrasonography of Right Jugular Veins, Intravascular
B547223Ultrasonography of Left Subclavian Vein, IntravascularB548223Ultrasonography of Superior Vena Cava, IntravascularB549223Ultrasonography of Inferior Vena Cava, IntravascularB549223Ultrasonography of Right Lower Extremity Veins, IntravascularB54223Ultrasonography of Left Lower Extremity Veins, IntravascularB54223Ultrasonography of Bilateral Lower Extremity Veins, IntravascularB54223Ultrasonography of Bilateral Lower Extremity Veins, IntravascularB54223Ultrasonography of Right Renal Vein, IntravascularB54223Ultrasonography of Left Renal Vein, IntravascularB54223Ultrasonography of Bilateral Renal Veins, IntravascularB54223Ultrasonography of Right Upper Extremity Veins, IntravascularB54723Ultrasonography of Bilateral Renal Veins, IntravascularB54723Ultrasonography of Bilateral Upper Extremity Veins, IntravascularB54723Ultrasonography of Right Common Iliac Vein with Intraluminal Device, Percutaneous Approach0672402Dilation of Right Common Iliac Vein with Intraluminal Device, Percutaneous Approach0672402Dilation of Left Common Iliac Vein with Intraluminal Device, Percutaneous Approach067302Dilation of Left External Iliac Vein with Intraluminal Device, Percutaneous Approach<	B544ZZ3	Ultrasonography of Left Jugular Veins, Intravascular
B48223Ultrasonography of Superior Vena Cava. IntravascularB548223Ultrasonography of Inferior Vena Cava. IntravascularB548223Ultrasonography of Right Lower Extremity Veins, IntravascularB540223Ultrasonography of Left Lower Extremity Veins, IntravascularB540223Ultrasonography of Bilateral Lower Extremity Veins, IntravascularB540223Ultrasonography of Bilateral Lower Extremity Veins, IntravascularB541223Ultrasonography of Bilateral Nein, IntravascularB54123Ultrasonography of Left Renal Vein, IntravascularB54123Ultrasonography of Bilateral Renal Veins, IntravascularB54123Ultrasonography of Bilateral Renal Veins, IntravascularB54123Ultrasonography of Pight Upper Extremity Veins, IntravascularB54123Ultrasonography of Pight Upper Extremity Veins, IntravascularB54123Ultrasonography of Portal and Splanchnic Veins, IntravascularB54123Ultrasonography of Portal and Splanchnic Veins, IntravascularB54123Ultrasonography of Portal and Splanchnic Veins, IntravascularB54123Dilation of Right Common Iliac Vein with Intraluminal Device, Percutaneous Approach06703D2Dilation of Right Common Iliac Vein with Intraluminal Device, Perc Endoscopic Approach0671302Dilation of Right External Iliac Vein with Intraluminal Device, Percutaneous Approach0672402Dilation of Left External Iliac Vein with Intraluminal Device, Percutaneous Approach0673302Dilation of Left External Iliac Vein with Intraluminal Device, Percutaneous Approach0673302Dilation of Left External Iliac Vein with Intraluminal	B546ZZ3	Ultrasonography of Right Subclavian Vein, Intravascular
B549223Ultrasonography of Inferior Vena Cava, IntravascularB549223Ultrasonography of Right Lower Extremity Veins, IntravascularB540223Ultrasonography of Left Lower Extremity Veins, IntravascularB540223Ultrasonography of Bilateral Lower Extremity Veins, IntravascularB540223Ultrasonography of Right Renal Vein, IntravascularB541223Ultrasonography of Right Renal Vein, IntravascularB541223Ultrasonography of Left Renal Vein, IntravascularB54123Ultrasonography of Bilateral Renal Veins, IntravascularB54123Ultrasonography of Bilateral Renal Veins, IntravascularB54123Ultrasonography of Pight Upper Extremity Veins, IntravascularB54123Ultrasonography of Pight Upper Extremity Veins, IntravascularB54123Ultrasonography of Portal and Splanchnic Veins, IntravascularB54123Ultrasonography of Portal and Splanchnic Veins, IntravascularB54123Dilation of Right Common Iliac Vein with Intraluminal Device, Percutaneous Approach06703D2Dilation of Right Common Iliac Vein with Intraluminal Device, Perc Endoscopic Approach06713D2Dilation of Left Common Iliac Vein with Intraluminal Device, Perc Endoscopic Approach06753D2Dilation of Right External Iliac Vein with Intraluminal Device, Perc Endoscopic Approach06753D2Dilation of Right External Iliac Vein with Intraluminal Device, Perc Endoscopic Approach06753D2Dilation of Left External Iliac Vein with Intraluminal Device, Perc Endoscopic Approach06753D2Dilation of Left External Iliac Vein with Intraluminal Device, Perc Endoscopic Approach06753D2	B547ZZ3	Ultrasonography of Left Subclavian Vein, Intravascular
B54B2Z3Ultrasonography of Right Lower Extremity Veins, IntravascularB54C2Z3Ultrasonography of Left Lower Extremity Veins, IntravascularB54D2Z3Ultrasonography of Bilateral Lower Extremity Veins, IntravascularB54J2Z3Ultrasonography of Right Renal Vein, IntravascularB54J2Z3Ultrasonography of Right Renal Vein, IntravascularB54L2Z3Ultrasonography of Right Renal Vein, IntravascularB54L2Z3Ultrasonography of Bilateral Renal Veins, IntravascularB54L2Z3Ultrasonography of Right Upper Extremity Veins, IntravascularB54M2Z3Ultrasonography of Right Upper Extremity Veins, IntravascularB54M2Z3Ultrasonography of Portal and Splanchnic Veins, IntravascularB54P2Z3Ultrasonography of Portal and Splanchnic Veins, IntravascularB54P2Z3Ultrasonography of Portal and Splanchnic Veins, IntravascularB54P2Z3Dilation of Right Common Iliac Vein with Intraluminal Device, Percutaneous Approach067C4D2Dilation of Right Common Iliac Vein with Intraluminal Device, Percutaneous Approach067D4D2Dilation of Left Common Iliac Vein with Intraluminal Device, Percutaneous Approach067F4D2Dilation of Right External Iliac Vein with Intraluminal Device, Percutaneous Approach067G3D2Dilation of Left External Iliac Vein with Intraluminal Device, Percutaneous Approach067G4D2Dilation of Left External Iliac Vein with Intraluminal Device, Percutaneous Approach067G4D2Dilation of Left External Iliac Vein with Intraluminal Device, Percutaneous Approach067G4D2Dilation of Left External Iliac Vein with Intraluminal Device, Percutaneous Approach <td>B548ZZ3</td> <td>Ultrasonography of Superior Vena Cava, Intravascular</td>	B548ZZ3	Ultrasonography of Superior Vena Cava, Intravascular
B54CZZ3Ultrasonography of Left Lower Extremity Veins, IntravascularB54DZ23Ultrasonography of Bilateral Lower Extremity Veins, IntravascularB54DZ23Ultrasonography of Right Renal Vein, IntravascularB54JZ23Ultrasonography of Left Renal Vein, IntravascularB54LZ23Ultrasonography of Left Renal Veins, IntravascularB54LZ23Ultrasonography of Bilateral Renal Veins, IntravascularB54LZ23Ultrasonography of Right Upper Extremity Veins, IntravascularB54MZ23Ultrasonography of Right Upper Extremity Veins, IntravascularB54MZ23Ultrasonography of Bilateral Upper Extremity Veins, IntravascularB54TZ3Ultrasonography of Portal and Splanchnic Veins, IntravascularB54TZ3Ultrasonography of Portal and Splanchnic Veins, IntravascularB54TZ3Ultrasonography of Right Common Iliac Vein with Intraluminal Device, Percutaneous Approach067C4D2Dilation of Right Common Iliac Vein with Intraluminal Device, Perc Endoscopic Approach067D4D2Dilation of Left Common Iliac Vein with Intraluminal Device, Perc Endoscopic Approach067G3D2Dilation of Right External Iliac Vein with Intraluminal Device, Perc Endoscopic Approach067G3D2Dilation of Left External Iliac Vein with Intraluminal Device, Perc Endoscopic Approach067G3D2Dilation of Left External Iliac Vein with Intraluminal Device, Perc Endoscopic Approach067G3D2Dilation of Left External Iliac Vein with Intraluminal Device, Perc Endoscopic Approach067N3D2Dilation of Left Femoral Vein with Intraluminal Device, Perc Endoscopic Approach067N3D2Dilation of Left Femoral Vein with Intralum	B549ZZ3	Ultrasonography of Inferior Vena Cava, Intravascular
B54DZZ3Ultrasonography of Bilateral Lower Extremity Veins, IntravascularB54DZZ3Ultrasonography of Right Renal Vein, IntravascularB54LZ23Ultrasonography of Left Renal Vein, IntravascularB54LZ23Ultrasonography of Bilateral Renal Veins, IntravascularB54LZ23Ultrasonography of Bilateral Renal Veins, IntravascularB54MZZ3Ultrasonography of Right Upper Extremity Veins, IntravascularB54NZ23Ultrasonography of Bilateral Upper Extremity Veins, IntravascularB54PZ23Ultrasonography of Bilateral Upper Extremity Veins, IntravascularB54TZ3Ultrasonography of Portal and Splanchnic Veins, IntravascularB54TZ3Ultrasonography of Portal and Splanchnic Veins, IntravascularB54TZ3Dilation of Right Common Iliac Vein with Intraluminal Device, Percutaneous Approach067C4D2Dilation of Right Common Iliac Vein with Intraluminal Device, Perc Endoscopic Approach067D3D2Dilation of Left Common Iliac Vein with Intraluminal Device, Percutaneous Approach067F3D2Dilation of Right External Iliac Vein with Intraluminal Device, Percutaneous Approach067G3D2Dilation of Left External Iliac Vein with Intraluminal Device, Percutaneous Approach067G3D2Dilation of Left External Iliac Vein with Intraluminal Device, Percutaneous Approach067G3D2Dilation of Left External Iliac Vein with Intraluminal Device, Perc Endoscopic Approach067G3D2Dilation of Left External Iliac Vein with Intraluminal Device, Perc Endoscopic Approach067G3D2Dilation of Left External Iliac Vein with Intraluminal Device, Perc Endoscopic Approach067G3D2Dilation of Left Ex	B54BZZ3	Ultrasonography of Right Lower Extremity Veins, Intravascular
B54JZZ3Ultrasonography of Right Renal Vein, IntravascularB54KZ23Ultrasonography of Left Renal Vein, IntravascularB54LZ23Ultrasonography of Bilateral Renal Veins, IntravascularB54LZ23Ultrasonography of Right Upper Extremity Veins, IntravascularB54MZ23Ultrasonography of Right Upper Extremity Veins, IntravascularB54NZ23Ultrasonography of Left Upper Extremity Veins, IntravascularB54PZ23Ultrasonography of Bilateral Upper Extremity Veins, IntravascularB54PZ23Ultrasonography of Portal and Splanchnic Veins, IntravascularB54TZ23Ultrasonography of Portal and Splanchnic Veins, IntravascularB67C3D2Dilation of Right Common Iliac Vein with Intraluminal Device, Percutaneous Approach067C4D2Dilation of Right Common Iliac Vein with Intraluminal Device, Perc Endoscopic Approach067D3D2Dilation of Left Common Iliac Vein with Intraluminal Device, Percutaneous Approach067F3D2Dilation of Right External Iliac Vein with Intraluminal Device, Percutaneous Approach067F4D2Dilation of Right External Iliac Vein with Intraluminal Device, Percutaneous Approach067G3D2Dilation of Left External Iliac Vein with Intraluminal Device, Percutaneous Approach067G4D2Dilation of Left External Iliac Vein with Intraluminal Device, Perc Endoscopic Approach067G3D2Dilation of Left External Iliac Vein with Intraluminal Device, Perc Endoscopic Approach067G4D2Dilation of Left External Iliac Vein with Intraluminal Device, Perc Endoscopic Approach067G3D2Dilation of Left Femoral Vein with Intraluminal Device, Perc Endoscopic Approach067N3D2 <td< td=""><td>B54CZZ3</td><td>Ultrasonography of Left Lower Extremity Veins, Intravascular</td></td<>	B54CZZ3	Ultrasonography of Left Lower Extremity Veins, Intravascular
B54KZZ3Ultrasonography of Left Renal Vein, IntravascularB54LZ3Ultrasonography of Bilateral Renal Veins, IntravascularB54MZ3Ultrasonography of Right Upper Extremity Veins, IntravascularB54MZ3Ultrasonography of Left Upper Extremity Veins, IntravascularB54NZ3Ultrasonography of Deft Upper Extremity Veins, IntravascularB54PZ3Ultrasonography of Portal and Splanchnic Veins, IntravascularB54TZ3Ultrasonography of Portal and Splanchnic Veins, IntravascularB54TZ3Dilation of Right Common Iliac Vein with Intraluminal Device, Percutaneous Approach067C3D2Dilation of Right Common Iliac Vein with Intraluminal Device, Percutaneous Approach067D3D2Dilation of Left Common Iliac Vein with Intraluminal Device, Percutaneous Approach067D4D2Dilation of Left Common Iliac Vein with Intraluminal Device, Percutaneous Approach067F3D2Dilation of Right External Iliac Vein with Intraluminal Device, Percutaneous Approach067F3D2Dilation of Right External Iliac Vein with Intraluminal Device, Percutaneous Approach067G3D2Dilation of Left External Iliac Vein with Intraluminal Device, Percutaneous Approach067G3D2Dilation of Left External Iliac Vein with Intraluminal Device, Percutaneous Approach067G3D2Dilation of Left External Iliac Vein with Intraluminal Device, Percutaneous Approach067G3D2Dilation of Left External Iliac Vein with Intraluminal Device, Perc Endoscopic Approach067N3D2Dilation of Left External Vein with Intraluminal Device, Perc Endoscopic Approach067N3D2Dilation of Left Femoral Vein with Intraluminal Device, Perc Endoscopic Approach </td <td>B54DZZ3</td> <td>Ultrasonography of Bilateral Lower Extremity Veins, Intravascular</td>	B54DZZ3	Ultrasonography of Bilateral Lower Extremity Veins, Intravascular
B54LZZ3Ultrasonography of Bilateral Renal Veins, IntravascularB54MZZ3Ultrasonography of Right Upper Extremity Veins, IntravascularB54NZZ3Ultrasonography of Left Upper Extremity Veins, IntravascularB54PZZ3Ultrasonography of Bilateral Upper Extremity Veins, IntravascularB54TZZ3Ultrasonography of Portal and Splanchnic Veins, IntravascularB54TZ23Ultrasonography of Portal and Splanchnic Veins, IntravascularAngioplasty with stent067C3DZDilation of Right Common Iliac Vein with Intraluminal Device, Percutaneous Approach067C4DZDilation of Left Common Iliac Vein with Intraluminal Device, Perc Endoscopic Approach067D4DZDilation of Left Common Iliac Vein with Intraluminal Device, Perc Endoscopic Approach067F3DZDilation of Left Common Iliac Vein with Intraluminal Device, Perc Endoscopic Approach067F3DZDilation of Right External Iliac Vein with Intraluminal Device, Perc Endoscopic Approach067G3DZDilation of Right External Iliac Vein with Intraluminal Device, Perc Endoscopic Approach067G3DZDilation of Left External Iliac Vein with Intraluminal Device, Perc Endoscopic Approach067G4DZDilation of Left External Iliac Vein with Intraluminal Device, Perc Endoscopic Approach067G3DZDilation of Left External Iliac Vein with Intraluminal Device, Perc Endoscopic Approach067N3DZDilation of Left Femoral Vein with Intraluminal Device, Perc Endoscopic Approach067N3DZDilation of Left Femoral Vein with Intraluminal Device, Perc Endoscopic Approach067N3DZDilation of Left Femoral Vein with Intraluminal Device, Perc Endoscopic Approach	B54JZZ3	Ultrasonography of Right Renal Vein, Intravascular
B54MZZ3Ultrasonography of Right Upper Extremity Veins, IntravascularB54MZZ3Ultrasonography of Left Upper Extremity Veins, IntravascularB54PZZ3Ultrasonography of Bilateral Upper Extremity Veins, IntravascularB54TZ23Ultrasonography of Portal and Splanchnic Veins, IntravascularB54TZ23Ultrasonography of Portal and Splanchnic Veins, IntravascularAngioplasty with stent067C3D2Dilation of Right Common Iliac Vein with Intraluminal Device, Percutaneous Approach067C4D2Dilation of Right Common Iliac Vein with Intraluminal Device, Perc Endoscopic Approach067D4D2Dilation of Left Common Iliac Vein with Intraluminal Device, Percutaneous Approach067F3D2Dilation of Right External Iliac Vein with Intraluminal Device, Perc Endoscopic Approach067F4D2Dilation of Right External Iliac Vein with Intraluminal Device, Percutaneous Approach067G3D3Dilation of Right External Iliac Vein with Intraluminal Device, Percutaneous Approach067G3D2Dilation of Left External Iliac Vein with Intraluminal Device, Percutaneous Approach067G3D2Dilation of Left External Iliac Vein with Intraluminal Device, Percutaneous Approach067G3D2Dilation of Left External Iliac Vein with Intraluminal Device, Perc Endoscopic Approach067N3D2Dilation of Left Femoral Vein with Intraluminal Device, Perc Endoscopic Approach067N3D2Dilation of Left Femoral Vein with Intraluminal Device, Perc Endoscopic Approach067N3D2Dilation of Left Femoral Vein with Intraluminal Device, Perc Endoscopic Approach067Q3D2Dilation of Left Saphenous Vein with Intraluminal Device, Perc Endoscopic Approach </td <td>B54KZZ3</td> <td>Ultrasonography of Left Renal Vein, Intravascular</td>	B54KZZ3	Ultrasonography of Left Renal Vein, Intravascular
B54NZZ3Ultrasonography of Left Upper Extremity Veins, IntravascularB54PZZ3Ultrasonography of Bilateral Upper Extremity Veins, IntravascularB54TZZ3Ultrasonography of Portal and Splanchnic Veins, IntravascularAngioplasty with stent067C3DZDilation of Right Common Iliac Vein with Intraluminal Device, Percutaneous Approach067C4DZDilation of Right Common Iliac Vein with Intraluminal Device, Perc Endoscopic Approach067D3DZDilation of Left Common Iliac Vein with Intraluminal Device, Perc Endoscopic Approach067D4DZDilation of Left Common Iliac Vein with Intraluminal Device, Perc Endoscopic Approach067F3DZDilation of Right External Iliac Vein with Intraluminal Device, Perc Endoscopic Approach067G3DZDilation of Right External Iliac Vein with Intraluminal Device, Perc Endoscopic Approach067G3DZDilation of Right External Iliac Vein with Intraluminal Device, Perc Endoscopic Approach067G3DZDilation of Left External Iliac Vein with Intraluminal Device, Perc Endoscopic Approach067G4DZDilation of Left External Iliac Vein with Intraluminal Device, Perc Endoscopic Approach067G4DZDilation of Left External Iliac Vein with Intraluminal Device, Perc Endoscopic Approach067N3DZDilation of Left Femoral Vein with Intraluminal Device, Perc Endoscopic Approach067N3DZDilation of Left Femoral Vein with Intraluminal Device, Perc Endoscopic Approach067Q3DZDilation of Left Saphenous Vein with Intraluminal Device, Perc Endoscopic Approach067Q3DZDilation of Left Saphenous Vein with Intraluminal Device, Perc Endoscopic Approach067Q3DZDilation of Left Saphe	B54LZZ3	Ultrasonography of Bilateral Renal Veins, Intravascular
B54PZZ3Ultrasonography of Bilateral Upper Extremity Veins, IntravascularB54TZ23Ultrasonography of Portal and Splanchnic Veins, IntravascularAngioplasty with stent067C3DZDilation of Right Common Iliac Vein with Intraluminal Device, Percutaneous Approach067C4DZDilation of Right Common Iliac Vein with Intraluminal Device, Perc Endoscopic Approach067D3DZDilation of Left Common Iliac Vein with Intraluminal Device, Percutaneous Approach067D4DZDilation of Left Common Iliac Vein with Intraluminal Device, Perc Endoscopic Approach067F3DZDilation of Right External Iliac Vein with Intraluminal Device, Percutaneous Approach067F4DZDilation of Right External Iliac Vein with Intraluminal Device, Percutaneous Approach067G3DZDilation of Right External Iliac Vein with Intraluminal Device, Percutaneous Approach067G3DZDilation of Left External Iliac Vein with Intraluminal Device, Percutaneous Approach067G3DZDilation of Left External Iliac Vein with Intraluminal Device, Percutaneous Approach067G3DZDilation of Left External Iliac Vein with Intraluminal Device, Percutaneous Approach067N3DZDilation of Left External Iliac Vein with Intraluminal Device, Percutaneous Approach067N3DZDilation of Left Femoral Vein with Intraluminal Device, Perc Endoscopic Approach067Q3DZDilation of Left Saphenous Vein with Intraluminal Device, Perc Endoscopic Approach067Q3DZDilation of Left Saphenous Vein with Intraluminal Device, Perc Endoscopic Approach067Q3DZDilation of Left Saphenous Vein with Intraluminal Device, Perc Endoscopic Approach067Q3DZDilation of Left	B54MZZ3	Ultrasonography of Right Upper Extremity Veins, Intravascular
B54TZZ3Ultrasonography of Portal and Splanchnic Veins, IntravascularAngioplasty with stent067C3DZDilation of Right Common Iliac Vein with Intraluminal Device, Percutaneous Approach067C4DZDilation of Right Common Iliac Vein with Intraluminal Device, Perc Endoscopic Approach067D3DZDilation of Left Common Iliac Vein with Intraluminal Device, Percutaneous Approach067D4DZDilation of Left Common Iliac Vein with Intraluminal Device, Perc Endoscopic Approach067F4DZDilation of Right External Iliac Vein with Intraluminal Device, Percutaneous Approach067F4DZDilation of Right External Iliac Vein with Intraluminal Device, Percutaneous Approach067F4DZDilation of Right External Iliac Vein with Intraluminal Device, Per Endoscopic Approach067G3DZDilation of Left External Iliac Vein with Intraluminal Device, Per Endoscopic Approach067G4DZDilation of Left External Iliac Vein with Intraluminal Device, Perc Endoscopic Approach067G4DZDilation of Left External Iliac Vein with Intraluminal Device, Perc Endoscopic Approach067N3DZDilation of Left External Iliac Vein with Intraluminal Device, Perc Endoscopic Approach067N3DZDilation of Left Femoral Vein with Intraluminal Device, Perc Endoscopic Approach067N3DZDilation of Left Saphenous Vein with Intraluminal Device, Perc Endoscopic Approach067Q3DZDilation of Left Saphenous Vein with Intraluminal Device, Perc Endoscopic Approach067Q4DZDilation of Left Saphenous Vein with Intraluminal Device, Perc Endoscopic Approach067Q3DZDilation of Left Saphenous Vein with Intraluminal Device, Perc Endoscopic Approach067	B54NZZ3	Ultrasonography of Left Upper Extremity Veins, Intravascular
Angioplasty with stent067C3DZDilation of Right Common Iliac Vein with Intraluminal Device, Percutaneous Approach067C4DZDilation of Right Common Iliac Vein with Intraluminal Device, Perc Endoscopic Approach067D3DZDilation of Left Common Iliac Vein with Intraluminal Device, Perc Endoscopic Approach067D4DZDilation of Left Common Iliac Vein with Intraluminal Device, Perc Endoscopic Approach067D4DZDilation of Left Common Iliac Vein with Intraluminal Device, Perc Endoscopic Approach067F3DZDilation of Right External Iliac Vein with Intraluminal Device, Percutaneous Approach067F4DZDilation of Right External Iliac Vein with Intraluminal Device, Per Endoscopic Approach067G3DZDilation of Left External Iliac Vein with Intraluminal Device, Per Endoscopic Approach067G4DZDilation of Left External Iliac Vein with Intraluminal Device, Percutaneous Approach067ADDZDilation of Left External Iliac Vein with Intraluminal Device, Percutaneous Approach067N3DZDilation of Left External Iliac Vein with Intraluminal Device, Perc Endoscopic Approach067N4DZDilation of Left Femoral Vein with Intraluminal Device, Perc Endoscopic Approach067N4DZDilation of Left Femoral Vein with Intraluminal Device, Perc Endoscopic Approach067Q3DZDilation of Left Saphenous Vein with Intraluminal Device, Perc Endoscopic Approach067Q3DZDilation of Left Saphenous Vein with Intraluminal Device, Perc Endoscopic Approach067Q3DZDilation of Left Saphenous Vein with Intraluminal Device, Perc Endoscopic Approach067Q3DZDilation of Left Saphenous Vein with Intraluminal Device, Perc Endoscopic Approach	B54PZZ3	Ultrasonography of Bilateral Upper Extremity Veins, Intravascular
067C3DZDilation of Right Common Iliac Vein with Intraluminal Device, Percutaneous Approach067C4DZDilation of Right Common Iliac Vein with Intraluminal Device, Perc Endoscopic Approach067D3DZDilation of Left Common Iliac Vein with Intraluminal Device, Perc Endoscopic Approach067D4DZDilation of Left Common Iliac Vein with Intraluminal Device, Perc Endoscopic Approach067F3DZDilation of Right External Iliac Vein with Intraluminal Device, Perc Endoscopic Approach067F4DZDilation of Right External Iliac Vein with Intraluminal Device, Percutaneous Approach067G3DZDilation of Right External Iliac Vein with Intraluminal Device, Per Endoscopic Approach067G3DZDilation of Left External Iliac Vein with Intraluminal Device, Percutaneous Approach067G4DZDilation of Left External Iliac Vein with Intraluminal Device, Percutaneous Approach067G4DZDilation of Left External Iliac Vein with Intraluminal Device, Percutaneous Approach067G4DZDilation of Left External Iliac Vein with Intraluminal Device, Perc Endoscopic Approach067N3DZDilation of Left Femoral Vein with Intraluminal Device, Perc Endoscopic Approach067N4DZDilation of Left Femoral Vein with Intraluminal Device, Perc Endoscopic Approach067Q3DZDilation of Left Saphenous Vein with Intraluminal Device, Perc Endoscopic Approach067Q3DZDilation of Left Saphenous Vein with Intraluminal Device, Perc Endoscopic Approach067Q4DZDilation of Left Saphenous Vein with Intraluminal Device, Perc Endoscopic Approach	B54TZZ3	Ultrasonography of Portal and Splanchnic Veins, Intravascular
067C4DZDilation of Right Common Iliac Vein with Intraluminal Device, Perc Endoscopic Approach067D3DZDilation of Left Common Iliac Vein with Intraluminal Device, Percutaneous Approach067D4DZDilation of Left Common Iliac Vein with Intraluminal Device, Perc Endoscopic Approach067F3DZDilation of Right External Iliac Vein with Intraluminal Device, Percutaneous Approach067F4DZDilation of Right External Iliac Vein with Intraluminal Device, Percutaneous Approach067G3DZDilation of Left External Iliac Vein with Intraluminal Device, Percutaneous Approach067G4DZDilation of Left External Iliac Vein with Intraluminal Device, Percutaneous Approach067G4DZDilation of Left External Iliac Vein with Intraluminal Device, Percutaneous Approach067N3DZDilation of Left External Iliac Vein with Intraluminal Device, Percutaneous Approach067N3DZDilation of Left External Iliac Vein with Intraluminal Device, Perc Endoscopic Approach067N3DZDilation of Left Femoral Vein with Intraluminal Device, Perc Endoscopic Approach067Q3DZDilation of Left Saphenous Vein with Intraluminal Device, Perc Endoscopic Approach067Q3DZDilation of Left Saphenous Vein with Intraluminal Device, Perc Endoscopic Approach067Q4DZDilation of Left Saphenous Vein with Intraluminal Device, Perc Endoscopic Approach067Q4DZDilation of Left Saphenous Vein with Intraluminal Device, Perc Endoscopic Approach	Angioplasty	with stent
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067D4DZDilation of Left Common Iliac Vein with Intraluminal Device, Perc Endoscopic Approach067F3DZDilation of Right External Iliac Vein with Intraluminal Device, Percutaneous Approach067F4DZDilation of Right External Iliac Vein with Intraluminal Device, Per Endoscopic Approach067G3DZDilation of Left External Iliac Vein with Intraluminal Device, Percutaneous Approach067G4DZDilation of Left External Iliac Vein with Intraluminal Device, Percutaneous Approach067G4DZDilation of Left External Iliac Vein with Intraluminal Device, Perc Endoscopic Approach067N3DZDilation of Left Femoral Vein with Intraluminal Device, Percutaneous Approach067N4DZDilation of Left Femoral Vein with Intraluminal Device, Percutaneous Approach067Q3DZDilation of Left Saphenous Vein with Intraluminal Device, Percutaneous Approach067Q4DZDilation of Left Saphenous Vein with Intraluminal Device, Perc Endoscopic Approach067Q4DZDilation of Left Saphenous Vein with Intraluminal Device, Percutaneous Approach	067C4DZ	Dilation of Right Common Iliac Vein with Intraluminal Device, Perc Endoscopic Approach
067F3DZDilation of Right External Iliac Vein with Intraluminal Device, Percutaneous Approach067F4DZDilation of Right External Iliac Vein with Intraluminal Device, Per Endoscopic Approach067G3DZDilation of Left External Iliac Vein with Intraluminal Device, Percutaneous Approach067G4DZDilation of Left External Iliac Vein with Intraluminal Device, Perc Endoscopic Approach067N3DZDilation of Left External Iliac Vein with Intraluminal Device, Perc Endoscopic Approach067N4DZDilation of Left Femoral Vein with Intraluminal Device, Perc Endoscopic Approach067Q3DZDilation of Left Femoral Vein with Intraluminal Device, Perc Endoscopic Approach067Q4DZDilation of Left Saphenous Vein with Intraluminal Device, Perc Endoscopic Approach067Q4DZDilation of Left Saphenous Vein with Intraluminal Device, Perc Endoscopic Approach	067D3DZ	Dilation of Left Common Iliac Vein with Intraluminal Device, Percutaneous Approach
067F4DZDilation of Right External Iliac Vein with Intraluminal Device, Per Endoscopic Approach067G3DZDilation of Left External Iliac Vein with Intraluminal Device, Percutaneous Approach067G4DZDilation of Left External Iliac Vein with Intraluminal Device, Perc Endoscopic Approach067N3DZDilation of Left Femoral Vein with Intraluminal Device, Percutaneous Approach067N4DZDilation of Left Femoral Vein with Intraluminal Device, Percutaneous Approach067Q3DZDilation of Left Femoral Vein with Intraluminal Device, Perc Endoscopic Approach067Q3DZDilation of Left Saphenous Vein with Intraluminal Device, Percutaneous Approach067Q4DZDilation of Left Saphenous Vein with Intraluminal Device, Percutaneous Approach	067D4DZ	Dilation of Left Common Iliac Vein with Intraluminal Device, Perc Endoscopic Approach
067G3DZDilation of Left External Iliac Vein with Intraluminal Device, Percutaneous Approach067G4DZDilation of Left External Iliac Vein with Intraluminal Device, Perc Endoscopic Approach067N3DZDilation of Left Femoral Vein with Intraluminal Device, Percutaneous Approach067N4DZDilation of Left Femoral Vein with Intraluminal Device, Perc Endoscopic Approach067Q3DZDilation of Left Saphenous Vein with Intraluminal Device, Percutaneous Approach067Q4DZDilation of Left Saphenous Vein with Intraluminal Device, Percutaneous Approach	067F3DZ	Dilation of Right External Iliac Vein with Intraluminal Device, Percutaneous Approach
067G4DZDilation of Left External Iliac Vein with Intraluminal Device, Perc Endoscopic Approach067N3DZDilation of Left Femoral Vein with Intraluminal Device, Percutaneous Approach067N4DZDilation of Left Femoral Vein with Intraluminal Device, Perc Endoscopic Approach067Q3DZDilation of Left Saphenous Vein with Intraluminal Device, Percutaneous Approach067Q4DZDilation of Left Saphenous Vein with Intraluminal Device, Percutaneous Approach	067F4DZ	Dilation of Right External Iliac Vein with Intraluminal Device, Per Endoscopic Approach
067N3DZDilation of Left Femoral Vein with Intraluminal Device, Percutaneous Approach067N4DZDilation of Left Femoral Vein with Intraluminal Device, Perc Endoscopic Approach067Q3DZDilation of Left Saphenous Vein with Intraluminal Device, Percutaneous Approach067Q4DZDilation of Left Saphenous Vein with Intraluminal Device, Perc Endoscopic Approach	067G3DZ	Dilation of Left External Iliac Vein with Intraluminal Device, Percutaneous Approach
067N4DZDilation of Left Femoral Vein with Intraluminal Device, Perc Endoscopic Approach067Q3DZDilation of Left Saphenous Vein with Intraluminal Device, Percutaneous Approach067Q4DZDilation of Left Saphenous Vein with Intraluminal Device, Perc Endoscopic Approach	067G4DZ	Dilation of Left External Iliac Vein with Intraluminal Device, Perc Endoscopic Approach
067Q3DZDilation of Left Saphenous Vein with Intraluminal Device, Percutaneous Approach067Q4DZDilation of Left Saphenous Vein with Intraluminal Device, Perc Endoscopic Approach	067N3DZ	Dilation of Left Femoral Vein with Intraluminal Device, Percutaneous Approach
067Q4DZ Dilation of Left Saphenous Vein with Intraluminal Device, Perc Endoscopic Approach	067N4DZ	Dilation of Left Femoral Vein with Intraluminal Device, Perc Endoscopic Approach
	067Q3DZ	Dilation of Left Saphenous Vein with Intraluminal Device, Percutaneous Approach
	067Q4DZ	Dilation of Left Saphenous Vein with Intraluminal Device, Perc Endoscopic Approach
067M3DZ Dilation of Right Femoral Vein with Intraluminal Device, Percutaneous Approach	067M3DZ	Dilation of Right Femoral Vein with Intraluminal Device, Percutaneous Approach
067M4DZ Dilation of Right Femoral Vein with Intraluminal Device, Perc Endoscopic Approach	067M4DZ	Dilation of Right Femoral Vein with Intraluminal Device, Perc Endoscopic Approach
067P3DZ Dilation of Right Saphenous Vein with Intraluminal Device, Percutaneous Approach	067P3DZ	Dilation of Right Saphenous Vein with Intraluminal Device, Percutaneous Approach
067P4DZ Dilation of Right Saphenous Vein with Intraluminal Device, Perc Endoscopic Approach	067P4DZ	Dilation of Right Saphenous Vein with Intraluminal Device, Perc Endoscopic Approach

Appendix D: AV fistula - dialysis circuit ICD-10 procedure codes

ICD-10 procedure ⁱⁱ	ICD-10 procedure description
AV access in	naging
B34HZZ3	Ultrasonography of Right Upper Extremity Arteries, Intravascular
B34JZZ3	Ultrasonography of Left Upper Extremity Arteries, Intravascular
B34KZZ3	Ultrasonography of Bilateral Upper Extremity Arteries, Intravascular
B44FZZ3	Ultrasonography of Right Lower Extremity Arteries, Intravascular
B44GZZ3	Ultrasonography of Left Lower Extremity Arteries, Intravascular
B44HZZ3	Ultrasonography of Bilateral Lower Extremity Arteries, Intravascular
B44LZZ3	Ultrasonography of Femoral Artery, Intravascular
B54BZZ3	Ultrasonography of Right Lower Extremity Veins, Intravascular
B54CZZ3	Ultrasonography of Left Lower Extremity Veins, Intravascular
B54DZZ3	Ultrasonography of Bilateral Lower Extremity Veins, Intravascular
B54MZZ3	Ultrasonography of Right Upper Extremity Veins, Intravascular
B54NZZ3	Ultrasonography of Left Upper Extremity Veins, Intravascular
B54PZZ3	Ultrasonography of Bilateral Upper Extremity Veins, Intravascular
B3110ZZ	Fluoroscopy of Right Brachiocephalic-Subclavian Artery using High Osmolar Contrast
B3111ZZ	Fluoroscopy of Right Brachiocephalic-Subclavian Artery using Low Osmolar Contrast
B311YZZ	Fluoroscopy of Right Brachiocephalic-Subclavian Artery using Other Contrast
Dialysis circ	uit AV access repair (w/drug-eluting device)
0377346	Dilation of Right Brachial Artery, Bifurcation, with Drug-eluting Intraluminal Device,
0377356	Dilation of Right Brachial Artery, Bifurcation, with Two Drug-eluting Intraluminal Devices, Percutaneous Approach
0377366	Dilation of Right Brachial Artery, Bifurcation, with Three Drug-eluting Intraluminal Devices, Percutaneous Approach
0377376	Dilation of Right Brachial Artery, Bifurcation, with Four or More Drug-eluting Intraluminal Devices, Percutaneous Approach
037734Z	Dilation of Right Brachial Artery with Drug-eluting Intraluminal Device, Perc Approach
037735Z	Dilation of Right Brachial Artery with Two Drug-eluting Intraluminal Devices,
037736Z	Dilation of Right Brachial Artery with Three Drug-eluting Intraluminal Devices, Perc Approach
037737Z	Dilation of Right Brachial Artery with Four or More Drug-eluting Intraluminal Devices, Percutaneous Approach
0377446	Dilation of Right Brachial Artery, Bifurcation, with Drug-eluting Intraluminal Device, Percutaneous Endoscopic Approach
037744Z	Dilation of Right Brachial Artery with Drug-eluting Intraluminal Device, Percutaneous Endoscopic Approach
0377456	Dilation of Right Brachial Artery, Bifurcation, with Two Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach
037745Z	Dilation of Right Brachial Artery with Two Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach
0377466	Dilation of Right Brachial Artery, Bifurcation, with Three Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach

ICD-10 procedure"	ICD-10 procedure description
037746Z	Dilation of Right Brachial Artery with Three Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach
0377476	Dilation of Right Brachial Artery, Bifurcation, with Four or More Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach
037747Z	Dilation of Right Brachial Artery with Four or More Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach
0378346	Dilation of Left Brachial Artery, Bifurcation, with Drug-eluting Intraluminal Device, Percutaneous Approach
0378356	Dilation of Left Brachial Artery, Bifurcation, with Two Drug-eluting Intraluminal Devices, Percutaneous Approach
0378366	Dilation of Left Brachial Artery, Bifurcation, with Three Drug-eluting Intraluminal Devices, Percutaneous Approach
0378376	Dilation of Left Brachial Artery, Bifurcation, with Four or More Drug-eluting Intraluminal Devices, Percutaneous Approach
037834Z	Dilation of Left Brachial Artery with Drug-eluting Intraluminal Device, Percutaneous Approach
037835Z	Dilation of Left Brachial Artery with Two Drug-eluting Intraluminal Devices, Perc Approach
037836Z	Dilation of Left Brachial Artery with Three Drug-eluting Intraluminal Devices, Perc Approach
037837Z	Dilation of Left Brachial Artery with Four or More Drug-eluting Intraluminal Devices, Percutaneous Approach
0378446	Dilation of Left Brachial Artery, Bifurcation, with Drug-eluting Intraluminal Device, Percutaneous Endoscopic Approach
037844Z	Dilation of Left Brachial Artery with Drug-eluting Intraluminal Device, Percutaneous Endoscopic Approach
0378456	Dilation of Left Brachial Artery, Bifurcation, with Two Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach
037845Z	Dilation of Left Brachial Artery with Two Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach
0378466	Dilation of Left Brachial Artery, Bifurcation, with Three Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach
037846Z	Dilation of Left Brachial Artery with Three Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach
0378476	Dilation of Left Brachial Artery, Bifurcation, with Four or More Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach
037847Z	Dilation of Left Brachial Artery with Four or More Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach
037B346	Dilation of Right Radial Artery, Bifurcation, with Drug-eluting Intraluminal Device, Percutaneous Approach
037B34Z	Dilation of Right Radial Artery with Drug-eluting Intraluminal Device, Percutaneous Approach
037B356	Dilation of Right Radial Artery, Bifurcation, with Two Drug-eluting Intraluminal Devices, Percutaneous Approach
037B35Z	Dilation of Right Radial Artery with Two Drug-eluting Intraluminal Devices, Perc Approach
037B366	Dilation of Right Radial Artery, Bifurcation, with Three Drug-eluting Intraluminal Devices, Percutaneous Approach
037B36Z	Dilation of Right Radial Artery with Three Drug-eluting Intraluminal Devices, Perc Approach

ICD-10 procedure"	ICD-10 procedure description
037B376	Dilation of Right Radial Artery, Bifurcation, with Four or More Drug-eluting Intraluminal Devices, Percutaneous Approach
037B37Z	Dilation of Right Radial Artery with Four or More Drug-eluting Intraluminal Devices, Percutaneous Approach
037B446	Dilation of Right Radial Artery, Bifurcation, with Drug-eluting Intraluminal Device, Percutaneous Endoscopic Approach
037B44Z	Dilation of Right Radial Artery with Drug-eluting Intraluminal Device, Percutaneous Endoscopic Approach
037B456	Dilation of Right Radial Artery, Bifurcation, with Two Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach
037B45Z	Dilation of Right Radial Artery with Two Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach
037B466	Dilation of Right Radial Artery, Bifurcation, with Three Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach
037B46Z	Dilation of Right Radial Artery with Three Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach
037B476	Dilation of Right Radial Artery, Bifurcation, with Four or More Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach
037B47Z	Dilation of Right Radial Artery with Four or More Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach
037C346	Dilation of Left Radial Artery, Bifurcation, with Drug-eluting Intraluminal Device, Percutaneous Approach
037C34Z	Dilation of Left Radial Artery with Drug-eluting Intraluminal Device, Percutaneous Approach
037C356	Dilation of Left Radial Artery, Bifurcation, with Two Drug-eluting Intraluminal Devices, Percutaneous Approach
037C35Z	Dilation of Left Radial Artery with Two Drug-eluting Intraluminal Devices, Perc Approach
037C366	Dilation of Left Radial Artery, Bifurcation, with Three Drug-eluting Intraluminal Devices, Percutaneous Approach
037C36Z	Dilation of Left Radial Artery with Three Drug-eluting Intraluminal Devices, Perc Approach
037C376	Dilation of Left Radial Artery, Bifurcation, with Four or More Drug-eluting Intraluminal Devices, Percutaneous Approach
037C37Z	Dilation of Left Radial Artery with Four or More Drug-eluting Intraluminal Devices, Percutaneous Approach
037C446	Dilation of Left Radial Artery, Bifurcation, with Drug-eluting Intraluminal Device, Percutaneous Endoscopic Approach
037C44Z	Dilation of Left Radial Artery with Drug-eluting Intraluminal Device, Percutaneous Endoscopic Approach
037C456	Dilation of Left Radial Artery, Bifurcation, with Two Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach
037C45Z	Dilation of Left Radial Artery with Two Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach
037C466	Dilation of Left Radial Artery, Bifurcation, with Three Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach
037C46Z	Dilation of Left Radial Artery with Three Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach
037C476	Dilation of Left Radial Artery, Bifurcation, with Four or More Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach

ICD-10 procedure ⁱⁱ	ICD-10 procedure description
037C47Z	Dilation of Left Radial Artery with Four or More Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach
Dialysis circ	uit AV access repair (w/out drug-eluting device)
03773DZ	Dilation of Right Brachial Artery with Intraluminal Device, Percutaneous Approach
03773E6	Dilation of Right Brachial Artery, Bifurcation, with Two Intraluminal Devices, Perc Approach
03773EZ	Dilation of Right Brachial Artery with Two Intraluminal Devices, Percutaneous Approach
03773F6	Dilation of Right Brachial Artery, Bifurcation, with Three Intraluminal Devices, Perc Approach
03773FZ	Dilation of Right Brachial Artery with Three Intraluminal Devices, Percutaneous Approach
03773G6	Dilation of Right Brachial Artery, Bifurcation, with Four or More Intraluminal Devices, Percutaneous Approach
03773GZ	Dilation of Right Brachial Artery with Four or More Intraluminal Devices, Perc Approach
03773Z6	Dilation of Right Brachial Artery, Bifurcation, Percutaneous Approach
03773ZZ	Dilation of Right Brachial Artery, Percutaneous Approach
03774D6	Dilation of Right Brachial Artery, Bifurcation, with Intraluminal Device, Percutaneous Endoscopic Approach
03774DZ	Dilation of Right Brachial Artery with Intraluminal Device, Percutaneous Endoscopic Approach
03774E6	Dilation of Right Brachial Artery, Bifurcation, with Two Intraluminal Devices, Percutaneous Endoscopic Approach
03774EZ	Dilation of Right Brachial Artery with Two Intraluminal Devices, Perc Endoscopic Approach
03774F6	Dilation of Right Brachial Artery, Bifurcation, with Three Intraluminal Devices, Percutaneous Endoscopic Approach
03774FZ	Dilation of Right Brachial Artery with Three Intraluminal Devices, Perc Endoscopic Approach
03774G6	Dilation of Right Brachial Artery, Bifurcation, with Four or More Intraluminal Devices, Percutaneous Endoscopic Approach
03774GZ	Dilation of Right Brachial Artery with Four or More Intraluminal Devices, Percutaneous Endoscopic Approach
03774Z6	Dilation of Right Brachial Artery, Bifurcation, Percutaneous Endoscopic Approach
03774ZZ	Dilation of Right Brachial Artery, Percutaneous Endoscopic Approach
03783D6	Dilation of Left Brachial Artery, Bifurcation, with Intraluminal Device, Percutaneous Approach
03783DZ	Dilation of Left Brachial Artery with Intraluminal Device, Percutaneous Approach
03783E6	Dilation of Left Brachial Artery, Bifurcation, with Two Intraluminal Devices, Perc Approach
03783EZ	Dilation of Left Brachial Artery with Two Intraluminal Devices, Percutaneous Approach
03783F6	Dilation of Left Brachial Artery, Bifurcation, with Three Intraluminal Devices, Perc Approach
03783FZ	Dilation of Left Brachial Artery with Three Intraluminal Devices, Percutaneous Approach
03783G6	Dilation of Left Brachial Artery, Bifurcation, with Four or More Intraluminal Devices, Percutaneous Approach
03783GZ	Dilation of Left Brachial Artery with Four or More Intraluminal Devices, Percutaneous Approach
03783Z6	Dilation of Left Brachial Artery, Bifurcation, Percutaneous Approach
03783ZZ	Dilation of Left Brachial Artery, Percutaneous Approach

ICD-10 procedure"	ICD-10 procedure description
03784D6	Dilation of Left Brachial Artery, Bifurcation, with Intraluminal Device, Percutaneous Endoscopic Approach
03784DZ	Dilation of Left Brachial Artery with Intraluminal Device, Percutaneous Endoscopic Approach
03784E6	Dilation of Left Brachial Artery, Bifurcation, with Two Intraluminal Devices, Percutaneous Endoscopic Approach
03784EZ	Dilation of Left Brachial Artery with Two Intraluminal Devices, Perc Endoscopic Approach
03784F6	Dilation of Left Brachial Artery, Bifurcation, with Three Intraluminal Devices, Percutaneous Endoscopic Approach
03784FZ	Dilation of Left Brachial Artery with Three Intraluminal Devices, Perc Endoscopic Approach
03784G6	Dilation of Left Brachial Artery, Bifurcation, with Four or More Intraluminal Devices, Percutaneous Endoscopic Approach
03784GZ	Dilation of Left Brachial Artery with Four or More Intraluminal Devices, Percutaneous Endoscopic Approach
03784Z6	Dilation of Left Brachial Artery, Bifurcation, Percutaneous Endoscopic Approach
03784ZZ	Dilation of Left Brachial Artery, Percutaneous Endoscopic Approach
037B3D6	Dilation of Right Radial Artery, Bifurcation, with Intraluminal Device, Percutaneous Approach
037B3DZ	Dilation of Right Radial Artery with Intraluminal Device, Percutaneous Approach
037B3E6	Dilation of Right Radial Artery, Bifurcation, with Two Intraluminal Devices, Perc Approach
037B3EZ	Dilation of Right Radial Artery with Two Intraluminal Devices, Percutaneous Approach
037B3F6	Dilation of Right Radial Artery, Bifurcation, with Three Intraluminal Devices, Perc Approach
037B3FZ	Dilation of Right Radial Artery with Three Intraluminal Devices, Percutaneous Approach
037B3G6	Dilation of Right Radial Artery, Bifurcation, with Four or More Intraluminal Devices, Percutaneous Approach
037B3GZ	Dilation of Right Radial Artery with Four or More Intraluminal Devices, Perc Approach
037B3Z6	Dilation of Right Radial Artery, Bifurcation, Percutaneous Approach
037B3ZZ	Dilation of Right Radial Artery, Percutaneous Approach
037B3ZZ	Dilation of Right Radial Artery, Percutaneous Approach
037B4D1	Dilation of Right Radial Artery with Intraluminal Device, using Drug-Coated Balloon, Percutaneous Endoscopic Approach
037B4D6	Dilation of Right Radial Artery, Bifurcation, with Intraluminal Device, Percutaneous Endoscopic Approach
037B4DZ	Dilation of Right Radial Artery with Intraluminal Device, Percutaneous Endoscopic Approach
037B4E6	Dilation of Right Radial Artery, Bifurcation, with Two Intraluminal Devices, Percutaneous Endoscopic Approach
037B4EZ	Dilation of Right Radial Artery with Two Intraluminal Devices, Percutaneous Endoscopic Approach
037B4F6	Dilation of Right Radial Artery, Bifurcation, with Three Intraluminal Devices, Percutaneous Endoscopic Approach
037B4FZ	Dilation of Right Radial Artery with Three Intraluminal Devices, Percutaneous Endoscopic Approach
037B4G6	Dilation of Right Radial Artery, Bifurcation, with Four or More Intraluminal Devices, Percutaneous Endoscopic Approach
037B4GZ	Dilation of Right Radial Artery with Four or More Intraluminal Devices, Percutaneous Endoscopic Approach
037B4Z6	Dilation of Right Radial Artery, Bifurcation, Percutaneous Endoscopic Approach

ICD-10 procedure ⁱⁱ	ICD-10 procedure description
037B4ZZ	Dilation of Right Radial Artery, Percutaneous Endoscopic Approach
037C3D6	Dilation of Left Radial Artery, Bifurcation, with Intraluminal Device, Perc Approach
037C3DZ	Dilation of Left Radial Artery with Intraluminal Device, Percutaneous Approach
037C3E6	Dilation of Left Radial Artery, Bifurcation, with Two Intraluminal Devices, Perc Approach
037C3EZ	Dilation of Left Radial Artery with Two Intraluminal Devices, Percutaneous Approach
037C3F6	Dilation of Left Radial Artery, Bifurcation, with Three Intraluminal Devices, Perc Approach
037C3FZ	Dilation of Left Radial Artery with Three Intraluminal Devices, Percutaneous Approach
037C3G6	Dilation of Left Radial Artery, Bifurcation, with Four or More Intraluminal Devices, Percutaneous Approach
037C3GZ	Dilation of Left Radial Artery with Four or More Intraluminal Devices, Percutaneous Approach
037C3Z6	Dilation of Left Radial Artery, Bifurcation, Percutaneous Approach
037C3ZZ	Dilation of Left Radial Artery, Percutaneous Approach
037C4D6	Dilation of Left Radial Artery, Bifurcation, with Intraluminal Device, Percutaneous Endoscopic Approach
037C4DZ	Dilation of Left Radial Artery with Intraluminal Device, Percutaneous Endoscopic Approach
037C4E6	Dilation of Left Radial Artery, Bifurcation, with Two Intraluminal Devices, Percutaneous Endoscopic Approach
037C4EZ	Dilation of Left Radial Artery with Two Intraluminal Devices, Perc Endoscopic Approach
037C4F6	Dilation of Left Radial Artery, Bifurcation, with Three Intraluminal Devices, Percutaneous Endoscopic Approach
037C4FZ	Dilation of Left Radial Artery with Three Intraluminal Devices, Perc Endoscopic Approach
037C4G6	Dilation of Left Radial Artery, Bifurcation, with Four or More Intraluminal Devices, Percutaneous Endoscopic Approach
037C4GZ	Dilation of Left Radial Artery with Four or More Intraluminal Devices, Percutaneous Endoscopic Approach
037C4Z6	Dilation of Left Radial Artery, Bifurcation, Percutaneous Endoscopic Approach
037C4ZZ	Dilation of Left Radial Artery, Percutaneous Endoscopic Approach

Appendix E: Lead extraction and cardiac rhythm management ICD-10 procedure codes

ICD-10

ICD-10 ICD-10 procedure description

procedure ⁱⁱ	
Lead extrac	tion
02PA3MZ	Removal of Cardiac Lead from Heart, Percutaneous Approach
02PA4MZ	Removal of Cardiac Lead from Heart, Percutaneous Endoscopic Approach
Cardiac rhy	thm management
De Novo imp	plants
0JH637Z	Insertion Cardiac Resynchronization Pacemaker Pulse Generator in Chest Subcutaneous/ Fascia, Perc
0JH837Z	Insertion Cardiac Resynchronization Pacemaker Pulse Generator in Abdomen Subcutaneous /Fascia, Perc
02HK3JZ	Insertion of Pacemaker Lead into Right Ventricle, Percutaneous Approach
02HK4JZ	Insertion of Pacemaker Lead into Right Ventricle, Percutaneous Endoscopic Approach
02HL3JZ	Insertion of Pacemaker Lead into Left Ventricle, Percutaneous Approach
02HL4JZ	Insertion of Pacemaker Lead into Left Ventricle, Percutaneous Endoscopic Approach
02H63JZ	Insertion of Pacemaker Lead into Right Atrium, Percutaneous Approach
02H64JZ	Insertion of Pacemaker Lead into Right Atrium, Percutaneous Endoscopic Approach
0JH639Z	Insertion Cardiac Resynchronization Defibrillator Pulse Generator in Chest Subcutaneous /Fascia, Perc
0JH839Z	Insertion Cardiac Resynchronization Defibrillator Pulse Generator in Abdomen Subcutaneous/ Fascia, Perc
02HK3KZ	Insertion of Defibrillator Lead into Right Ventricle, Percutaneous Approach
02HK4KZ	Insertion of Defibrillator Lead into Right Ventricle, Percutaneous Endoscopic Approach
02HL3KZ	Insertion of Defibrillator Lead into Left Ventricle, Percutaneous Approach
02HL4KZ	Insertion of Defibrillator Lead into Left Ventricle, Percutaneous Endoscopic Approach
02H63KZ	Insertion of Defibrillator Lead into Right Atrium, Percutaneous Approach
02H64KZ	Insertion of Defibrillator Lead into Right Atrium, Percutaneous Endoscopic Approach
02НКЗМА	Insertion of Pacemaker Lead into Right Ventricle, Percutaneous Approach
02H63MA	Insertion of Pacemaker Lead into Right Atrium, Percutaneous Approach
0JH637Z	Insertion Cardiac Resynchronization Pacemaker Pulse Generator in Chest Subcutaneous/Fascia, Perc
0JH639Z	Insertion Cardiac Resynchronization Defibrillator Pulse Generator in Chest Subcutaneous/ Fascia, Perc
Changeouts	and upgrades
02H43JZ	Insertion of Pacemaker Lead into Coronary Vein, Percutaneous Approach
02H44JZ	Insertion of Pacemaker Lead into Coronary Vein, Percutaneous Endoscopic Approach
02H43KZ	Insertion of Defibrillator Lead into Coronary Vein, Percutaneous Approach
02H44KZ	Insertion of Defibrillator Lead into Coronary Vein, Percutaneous Endoscopic Approach
02H43MZ	Insertion of Cardiac Lead into Coronary Vein, Percutaneous Approach

Appendix F: Interventions primary to IVUS

TAVR/TAVI, AAA intervention, selective catheter placement, dialysis circuit, A/V access, mechanical thrombectomy/chemical thrombolysis (non-coronary), vascular embolization/occlusion, lower extremity revascularization (arterial and venous), aortography (thoracic and abdominal), angiography, venography, thoracic aneurism intervention, vertebral, renal, visceral, abdominal, and brachiocephalic stent and atherectomy, renal denervation

List of primary to IVUS CPT codes

СРТ	Descriptor
TAVR/TAVI	
33361	Transcatheter aortic valve replacement (TAVR/TAVI)
33362	Transcatheter aortic valve replacement (TAVR/TAVI) with prosthetic valve; open femoral artery approach
33363	; open axillary artery approach
33364	; open iliac artery approach
33365	; transaortic approach (eg, median sternotomy, mediastinotomy)
33366	; transapical exposure (eg, left thoracotomy)
+33367	; cardiopulmonary bypass support with percutaneous peripheral arterial and venous cannulation (eg, femoral vessels) (List separately in addition to code for primary procedure)
+33368	; cardiopulmonary bypass support with open peripheral arterial and venous cannulation (eg, femo-ral, iliac, axillary vessels) (List separately in addition to code for primary procedure)
+33369	; cardiopulmonary bypass support with central arterial and venous cannulation (eg, aorta, right atri-um, pulmonary artery) (List separately in addition to code for primary procedure)
33477	Transcatheter pulmonary valve implantation, percutaneous approach, including pre-stenting of the valve delivery site, when performed
33880	Endovascular repair of descending thoracic aorta (eg, aneurysm, pseudoaneurysm, dissection, pene-trating ulcer, intramural hematoma, or traumatic disruption); involving coverage of left subclavian artery origin, initial endoprosthesis plus descending thoracic aortic extension(s), if required, to level of celiac artery origin
33881	;not involving coverage of left subclavian artery origin, initial endoprosthesis plus descending tho-racic aortic extension(s), if required, to level of celiac artery origin
33883	Placement of proximal extension prosthesis for endovascular repair of descending thoracic aorta (eg, aneurysm, pseudoaneurysm, dissection, penetrating ulcer, intramural hematoma, or traumatic disruption); initial extension
+33884	; each additional proximal extension (List separately in addition to code for primary procedure)
33886	Placement of distal extension prosthesis(s) delayed after endovascular repair of descending thoracic aorta
34701	Endovascular repair of infrarenal aorta by deployment an aorto-aortic tube endograft
34702	For rupture including temporary aortic and/or iliac balloon occlusion
34703	Endovascular repair of infrarenal aorta and/or iliac arteries by deployment of an aorto-uni-iliac en-dograft
34704	For rupture including temporary aortic and/or iliac balloon occlusion
34705	Endovascular repair of infrarenal aorta and/or iliac artery by deployment an aorto-bi-iliac endograft
34706	For rupture including temporary aortic and/or iliac balloon occlusion
34707	Endovascular repair of iliac artery by deployment an ilio-iliac tube endograft
34708	For rupture including temporary aortic and/or iliac balloon occlusion

СРТ	Descriptor
34709	Placement of extension prosthesis distal to the common iliac artery or proximal to the renal artery for endovascular repair of infrarenal abdominal aortic or iliac aneurism
34710	Delayed placement of distal or proximal extension prosthesis for endovascular repair of infrarenal abdominal aortic and/or iliac aneurism
34711	Each additional vessel treated
Aortic an	eurism repair
34841	Endovascular repair of visceral aorta (eg, aneurysm, pseudoaneurysm, dissection, penetrating ulcer, intramural hematoma, or traumatic disruption) by deployment of a fenestrated visceral aortic endograft and all associated radiological supervision and interpretation, including target zone angioplasty, when performed; including one visceral artery endoprosthesis (superior mes-enteric, celiac or renal artery)
34842	; including two visceral artery endoprostheses (superior mesenteric, celiac and/or renal ar-tery[s])
34843	; including three visceral artery endoprostheses (superior mesenteric, celiac and/or renal ar-tery[s])
34844	Endovascular repair of visceral aorta (eg, aneurysm, pseudoaneurysm, dissection, penetrating ulcer, intramural hematoma, or traumatic disruption) by deployment of a fenestrated visceral aortic endograft and all associated radiological supervision and interpretation, including target zone angioplasty, when performed; including four or more visceral artery endoprostheses (supe-rior mesenteric, celiac and/or renal artery[s])
34845	Endovascular repair of visceral aorta and infrarenal abdominal aorta (eg, aneurysm, pseudoan-eurysm, dissection, penetrating ulcer, intramural hematoma, or traumatic disruption) with a fe-nestrated visceral aortic endograft and concomitant unibody or modular infrarenal aortic endo-graft and all associated radiological supervision and interpretation, including target zone angio-plasty, when performed; including one visceral artery endoprosthesis (superior mesenteric, celi-ac or renal artery)
34847	; including three visceral artery endoprostheses (superior mesenteric, celiac and/or renal ar-tery[s])
34848	; including four or more visceral artery endoprostheses (superior mesenteric, celiac and/or renal artery[s])
Selective	catheter placement
36010	Introduction of catheter, superior or inferior vena cava
36011	Selective catheter placement, venous system; first order branch (eg, renal vein, jugular vein)
36012	; second order, or more selective, branch (eg, left adrenal vein, petrosal sinus)
36013	Introduction of catheter, right heart or main pulmonary artery
36014	Selective catheter placement, left or right pulmonary artery
36015	Selective catheter placement, segmental or subsegmental pulmonary artery
36100	Introduction of needle or intracatheter, carotid or vertebral artery
36140	Introduction of needle or intracatheter; extremity artery
36160	Introduction of needle or intracatheter, aortic, translumbar
36200	Introduction of catheter, aorta
36215	Selective catheter placement, arterial system; each first order thoracic or brachiocephalic branch, within a vascular family
36216	; initial second order thoracic or brachiocephalic branch, within a vascular family
36217	; initial third order or more selective thoracic or brachiocephalic branch, within a vascular family

СРТ	Descriptor
+36218	; additional second order, third order, and beyond, thoracic or brachiocephalic branch, within a vascular family (List in addition to code for initial second or third order vessel as appropriate)
36221	Non-selective catheter placement, thoracic aorta, with angiography of the extracranial carotid, vertebral, and/ or intracranial vessels, unilateral or bilateral, and all associated radiological su-pervision and interpretation, includes angiography of the cervicocerebral arch, when performed
36222	Selective catheter placement, common carotid or innominate artery, unilateral, any approach, with angiography of the ipsilateral extracranial carotid circulation and all associated radiologi-cal supervision and interpretation, includes angiography of the cervicocerebral arch, when per-formed
36223	, includes angiography of the extracranial carotid and cervicocerebral arch, when performed
36224	Selective catheter placement, internal carotid artery, unilateral, with angiography of the ipsilat-eral intracranial carotid circulation and all associated radiological supervision and interpreta-tion, includes angiography of the extracranial carotid and cervicocerebral arch, when performed
36225	Selective catheter placement, subclavian or innominate artery, unilateral, with angiography of the ipsilateral vertebral circulation and all associated radiological supervision and interpreta-tion, includes angiography of the cervicocerebral arch, when performed
36226	Selective catheter placement, vertebral artery, unilateral, with angiography of the ipsilateral vertebral circulation and all associated radiological supervision and interpretation, includes an-giography of the cervicocerebral arch, when performed
36227	Selective catheter placement, external carotid artery, unilateral, with angiography of the ipsi-lateral external carotid circulation and all associated radiological supervision and interpretation (List separately in addition to code for primary procedure)
36228	Selective catheter placement, each intracranial branch of the internal carotid or vertebral arter-ies, unilateral, with angiography of the selected vessel circulation and all associated radiologi-cal supervision and interpretation (eg, middle cerebral artery, posterior inferior cerebellar ar-tery) (List separately in addition to code for primary procedure)
36245	Selective catheter placement, arterial system; each first order abdominal, pelvic, or lower ex-tremity artery branch, within a vascular family
36246	; initial second order abdominal, pelvic, or lower extremity artery branch, within a vascular fami-ly
36247	; initial third order or more selective abdominal, pelvic, or lower extremity artery branch, within a vascular family
+36248	; additional second order, third order, and beyond, abdominal, pelvic, or lower extremity artery branch, within a vascular family (List in addition to code for initial second or third order vessel as appropriate)
36251	Selective catheter placement (first-order), main renal artery and any accessory renal artery(s) for renal angiography, including arterial puncture and catheter placement(s), fluoro, contrast injection(s), image postprocessing, permanent recording of images, radiological supervision and interpretation, including pressure gradient measurements when performed, flush aortogram when performed; unilateral
36252	; bilateral
36253	Superselective catheter placement (one or more second order or higher renal artery branches) renal artery and any accessory renal artery(s) for renal angiography, including arterial puncture, catheterization, fluoroscopy, contrast injection(s), image postprocessing, permanent recording of images, and radiological supervision and interpretation, including pressure gradient meas-urements when performed, and flush aortogram when performed; unilateral
36254	; bilateral
36481	Percutaneous portal vein catheterization by any method

СРТ	Descriptor
36555	Insertion of non-tunneled centrally inserted central venous catheter; younger than 5 years of age
36556	; age 5 years or older
36557	Insertion of tunneled centrally inserted central venous catheter, without subcutaneous port or pump; younger than 5 years of age
36558	; age 5 years or older
36560	Insertion of tunneled centrally inserted central venous access device, with subcutaneous port; younger than 5 years of age
36561	; age 5 years or older
36563	Insertion of tunneled centrally inserted central venous access device with subcutaneous pump
36565	Insertion of tunneled centrally inserted central venous access device, requiring 2 catheters via 2 separate venous access sites; without subcutaneous port or pump (eg, Tesio type catheter)
36566	; with subcutaneous port(s)
36568	Insertion of peripherally inserted central venous catheter (PICC), without subcutaneous port or pump; younger than 5 years of age
36569	; without subcutaneous port or pump; age 5 years or older
36570	Insertion of peripherally inserted central venous access device, with subcutaneous port; younger than 5 years of age
36571	; age 5 years or older
36578	Replacement, catheter only, of central venous access device, with subcutaneous port or pump, central or peripheral insertion site
36580	Replacement, complete, of a non-tunneled centrally inserted central venous catheter, without subcutaneous port or pump, through same venous access
36581	Replacement, complete, of a tunneled centrally inserted central venous catheter, without sub-cutaneous port or pump, through same venous access
36582	Replacement, complete, of a tunneled centrally inserted central venous access device, with sub-cutaneous port, through same venous access
36583	Replacement, complete, of a tunneled centrally inserted central venous access device, with sub-cutaneous pump, through same venous access
36584	Replacement, complete, of a peripherally inserted central venous catheter (PICC), without sub-cutaneous port or pump, through same venous access
36585	Replacement, complete, of a peripherally inserted central venous access device, with subcuta-neous port, through same venous access
36595	Mechanical removal of pericatheter obstructive material (eg, fibrin sheath) from central venous device via separate venous access
Dialysis circ	uit A/V access

Introduction of needle(s) and/or catheter(s), dialysis circuit, with diagnostic angiography of the dialysis circuit,
including all direct puncture(s) and catheter placement(s), injection(s) of contrast, all necessary imaging from the arterial anastomosis and adjacent artery through entire venous outflow including the inferior or superior vena cava, fluoroscopic guidance, radiological supervi-sion and interpretation and image documentation and report;

СРТ	Descriptor
36902	; with transluminal balloon angioplasty, peripheral dialysis segment, including all imaging and radiological supervision and interpretation necessary to perform the angioplasty
36903	; with transcatheter placement of intravascular stent(s), peripheral dialysis segment, including all imaging and radiological supervision and interpretation necessary to perform the stenting, and all angioplasty within the peripheral dialysis segment
36904	Percutaneous transluminal mechanical thrombectomy and/or infusion for thrombolysis, dialysis circuit, any method, including all imaging and radiological supervision and interpretation, diag-nostic angiography, fluoroscopic guidance, catheter placement(s), and intraprocedural pharma-cological thrombolytic injection(s);
36905	; with transluminal balloon angioplasty, peripheral dialysis segment, including all imaging and radiological supervision and interpretation necessary to perform the angioplasty
36906	; with transcatheter placement of intravascular stent(s), peripheral dialysis segment, including all imaging and radiological supervision and interpretation necessary to perform the stenting, and all angioplasty within the peripheral dialysis circuit
+36907	Transluminal balloon angioplasty, central dialysis segment, performed through dialysis circuit, including all imaging and radiological supervision and interpretation required to perform the an-gioplasty (List separately in addition to code for primary procedure)
+36908	Transcatheter placement of intravascular stent(s), central dialysis segment, performed through dialysis circuit, including all imaging radiological supervision and interpretation required to per-form the stenting, and all angioplasty in the central dialysis segment (List separately in addition to code for primary procedure)
+36909	Dialysis circuit permanent vascular embolization or occlusion (including main circuit or any ac-cessory veins), endovascular, including all imaging and radiological supervision and interpreta-tion necessary to complete the intervention (List separately in addition to code for primary pro-cedure)
Mechanica	l thrombectomy/chemical thrombolysis (non-coronary)
37184	Primary percutaneous transluminal mechanical thrombectomy, non-coronary, non-intracranial, arterial or arterial bypass graft, including fluoroscopic guidance and intraprocedural pharmacological thrombolytic injection(s); initial vessel
+37185	; second and all subsequent vessel(s) within the same vascular family (List separately in addition to code for primary mechanical thrombectomy procedure)
+37186	Secondary percutaneous transluminal thrombectomy (eg, non-primary mechanical, snare basket, suction technique), non-coronary, non-intracranial, arterial or arterial bypass graft, including fluoroscopic guidance and intraprocedural pharmacological thrombolytic injections, provided in conjunction with another percutaneous intervention other than primary mechanical thrombectomy (List separately in addition to code for primary procedure)
37187	Percutaneous transluminal mechanical thrombectomy, vein(s), including intraprocedural pharmacological thrombolytic injections and fluoroscopic guidance
37188	, repeat treatment on subsequent day during course of thrombolytic therapy
37200	Transcatheter biopsy
37211	Transcatheter therapy, arterial infusion for thrombolysis other than coronary or intracranial, any method, including radiological supervision and interpretation, initial treatment day
37212	Transcatheter therapy, venous infusion for thrombolysis, any method, including radiological supervision and interpretation, initial treatment day

СРТ	Descriptor
37213	Transcatheter therapy, arterial or venous infusion for thrombolysis other than coronary, any method, including radiological supervision and interpretation, continued treatment on subsequent day during course of thrombolytic therapy, including follow-up catheter contrast injection, position change, or exchange, when performed
37214	; cessation of thrombolysis including removal of catheter and vessel closure by any method
37215	Transcatheter placement of intravascular stent(s), cervical carotid artery, open or percutaneous, including angioplasty, when performed, and radiological S&I with distal embolic protection
37216	; without distal embolic protection
37218	Transcatheter placement of intravascular stent(s), intrathoracic common carotid artery or innominate artery, open or percutaneous antegrade approach, including angioplasty, when performed, and radiological supervision and interpretation
Lower extre	mity revascularization (arterial and venous)
37220	Revascularization, endovascular, open or percutaneous, iliac artery, unilateral, initial vessel; with transluminal angioplasty
37221	; with transluminal stent placement(s), includes angioplasty within the same vessel, when performed
+37222	, each additional ipsilateral iliac vessel; with transluminal angioplasty (List separately in addition to code for primary procedure)
+37223	, each additional ipsilateral iliac vessel; with transluminal stent placement(s), includes angioplasty within the same vessel, when performed (List separately in addition to code for primary procedure)
37224	Revascularization, endovascular, open or percutaneous, femoral, popliteal artery(s), unilateral; with transluminal angioplasty
37225	; with atherectomy, includes angioplasty within the same vessel, when performed
37226	; with transluminal stent placement(s), includes angioplasty within the same vessel, when performed
37227	; with transluminal stent placement(s) and atherectomy, includes angioplasty within the same vessel, when performed
37228	Revascularization, endovascular, open or percutaneous, tibial, peroneal artery, unilateral, initial vessel; with transluminal angioplasty
37229	; with atherectomy, includes angioplasty within the same vessel, when performed
37230	; with transluminal stent placement(s), includes angioplasty within the same vessel, when performed
37231	; with transluminal stent placement(s) and atherectomy, includes angioplasty within the same vessel, when performed
+37232	, each additional vessel; with transluminal angioplasty (List separately in addition to code for primary procedure)
+37233	, each additional vessel; with atherectomy, includes angioplasty within the same vessel, when performed (List separately in addition to code for primary procedure)
+37234	, each additional vessel; with transluminal stent placement(s), includes angioplasty within the same vessel, when performed (List separately in addition to code for primary procedure)
+37235	; with transluminal stent placement(s) and atherectomy, includes angioplasty within the same vessel, when performed (List separately in addition to code for primary procedure)

СРТ	Descriptor
37236	Transcatheter placement of an intravascular stent(s) (except lower extremity artery(s) for occlusive disease, cervical carotid, extracranial vertebral or intrathoracic carotid, intracranial, or coronary), open or percutaneous, including radiological supervision and interpretation and including all angioplasty within the same vessel, when performed; initial artery
+37237	; each additional artery (List separately in addition to code for primary procedure)
37238	Transcatheter placement of an intravascular stent(s), open or percutaneous, including radiological supervision and interpretation and inc angioplasty within the same vessel, when performed; initial vein
+37239	; each additional vein (List separately in addition to code for primary procedure)
Vascular e	mbolization/occlusion
37241	Vascular embolization or occlusion, inclusive of all radiological supervision and interpretation, intraprocedural roadmapping, and imaging guidance necessary to complete the intervention; venous, other than hemorrhage (eg, congenital or acquired venous malformations, venous and capillary hemangiomas, varices, varicoceles)
37242	; arterial, other than hemorrhage or tumor (eg, congenital or acquired arterial malformations, arteriovenous malformations, arteriovenous fistulas, aneurysms, pseudoaneurysms)
37243	, intraprocedural roadmapping, and imaging guidance necessary to complete the intervention; for tumors, organ ischemia, or infarction
37244	; for arterial or venous hemorrhage or lymphatic extravasation
37246	Transluminal balloon angioplasty (except lower extremity artery(ies) for occlusive disease, intra-cranial, coronary, pulmonary, or dialysis circuit), open or percutaneous, including all imaging and radiological S&I necessary to perform the angioplasty within the same artery; initial artery
+37247	each additional artery (List separately in addition to code for primary procedure)
37248	Transluminal balloon angioplasty (except dialysis circuit), open or percutaneous, including all imaging and radiological supervision and interpretation necessary to perform the angioplasty within the same vein; initial vein
+37249	; each additional vein (List separately in addition to code for primary procedure)
61623	Endovascular temporary balloon arterial occlusion, head or neck (extracranial/intracranial) in-cluding selective catheterization of vessel to be occluded, positioning and inflation of occlusion balloon, concomitant neurological monitoring, and radiologic supervision and interpretation of all angiography required for balloon occlusion and to exclude vascular injury post occlusion
Aortograp	hy (thoracic and abdominal)
75600	Aortography, thoracic, without serialography, radiological supervision and interpretation
75605	Aortography, thoracic, by serialography, radiological supervision and interpretation
75625	Aortography, abdominal, by serialography, radiological supervision and interpretation
75630	Aortography, abdominal plus bilateral iliofemoral lower extremity, catheter, by serialography, radiological supervision and interpretation
75635	Computed tomographic angiography, abdominal aorta and bilateral iliofemoral lower extremity runoff, with contrast material(s), including non-contrast images, if performed, and image post-processing
75705	Angiography, spinal, selective, radiological supervision and interpretation
Angiogra	hy
75710	Angiography, extremity, unilateral, radiological supervision and interpretation

СРТ	Descriptor
75716	Angiography, extremity, bilateral, radiological supervision and interpretation
75726	Angiography, visceral, selective or supraselective (with or without flush aortogram), radiological supervision and interpretation
75731	Angiography, adrenal, unilateral, selective, radiological supervision and interpretation
75733	Angiography, adrenal, bilateral, selective, radiological supervision and interpretation
75736	Angiography, pelvic, selective or supraselective, radiological supervision and interpretation
75741	Angiography, pulmonary, unilateral, selective, radiological supervision and interpretation
75743	Angiography, pulmonary, bilateral, selective, radiological supervision and interpretation
75746	Angiography, pulmonary, by nonselective catheter or venous injection, radiological S&I
75756	Angiography, internal mammary, radiological supervision and interpretation
+75744	Angiography, selective, each additional vessel studied after basic examination, radiological su-pervision and interpretation (List separately in addition to code for primary procedure)
75805	Lymphangiography, pelvic/abdominal, unilateral, radiological supervision and interpretation
75807	Lymphangiography, pelvic/abdominal, bilateral, radiological supervision and interpretation
75810	Splenoportography, radiological supervision and interpretation
Venograp	ny
75820	Venography, extremity, unilateral, radiological supervision and interpretation
75822	Venography, extremity, bilateral, radiological supervision and interpretation
75825	Venography, caval, inferior, with serialography, radiological supervision and interpretation
75827	Venography, caval, superior, with serialography, radiological supervision and interpretation
75831	Venography, renal, unilateral, selective, radiological supervision and interpretation
75833	Venography, renal, bilateral, selective, radiological supervision and interpretation
75860	Venography, venous sinus (eg, petrosal and inferior sagittal) or jugular, catheter, radiological supervision and interpretation
75870	Venography, superior sagittal sinus, radiological supervision and interpretation
75872	Venography, epidural, radiological supervision and interpretation
75885	Percutaneous transhepatic portography with hemodynamic evaluation, radiological S&I
75887	Percutaneous transhepatic portography without hemodynamic evaluation, radiological S&I
75889	Hepatic venography, wedged or free, with hemodynamic evaluation, radiological S&&
75891	Hepatic venography, wedged or free, without hemodynamic evaluation, radiological S&I
75893	Venous sampling through catheter, with or without angiography (eg, for parathyroid hormone, renin), radiological supervision and interpretation
75894	Transcatheter therapy, embolization, any method, radiological supervision and interpretation
75898	Angiography through existing catheter for follow-up study for transcatheter therapy, emboliza-tion or infusion, other than for thrombolysis

СРТ	Descriptor	
75901	Mechanical removal of pericatheter obstructive material (eg, fibrin sheath) from central venous device via separate venous access, radiologic supervision and interpretation	
75902	Mechanical removal of intraluminal (intracatheter) obstructive material from central venous de-vice through device lumen, radiologic supervision and interpretation	
Thoracic aorta repair		
75956	Endovascular repair of descending thoracic aorta (eg, aneurysm, pseudoaneurysm, dissection, penetrating ulcer, intramural hematoma, or traumatic disruption); involving coverage of left sub-clavian artery origin, initial endoprosthesis plus descending thoracic aortic extension(s), if re-quired, to level of celiac artery origin, radiological supervision and interpretation	
75957	; not involving coverage of left subclavian artery origin, initial endoprosthesis plus descending thoracic aortic extension(s), if required, to level of celiac artery origin, radiological supervision and interpretation	
75958	Placement of proximal extension prosthesis for endovascular repair of descending thoracic aorta (eg, aneurysm, pseudoaneurysm, dissection, penetrating ulcer, intramural hematoma, or trau-matic disruption), radiological supervision and interpretation	
75959	Placement of distal extension prosthesis(s) (delayed) after endovascular repair of descending thoracic aorta, as needed, to level of celiac origin, radiological supervision and interpretation	
75970	Transcatheter biopsy, radiological supervision and interpretation	
Fluoroscopy		
76000	Fluoroscopy (separate procedure), up to 1 hour physician or other qualified health care profes-sional time, other than 71023 or 71034 (eg, cardiac fluoroscopy)	
+77001	Fluoroscopic guidance for central venous access device placement, replacement (catheter only or complete), or removal (inc fluoroscopic guidance for vascular access and catheter manipula-tion, any necessary contrast injections through access site or catheter with related venography radiologic S&I, and radiographic documentation of final catheter position) (List separately in ad-dition to code for primary procedure)	
Vertebral, renal, visceral, abdominal, brachiocephalic intervention stent and atherectomy		
0075T	Transcatheter placement of extracranial vertebral artery stent(s), including radiologic supervi-sion and interpretation, open or percutaneous; initial vessel	
+0076T	; each additional vessel (List separately in addition to code for primary procedure)	
0234T	Transluminal peripheral atherectomy, open or percutaneous, including radiological supervision and interpretation; renal artery	
0235T	; visceral artery (except renal), each vessel	
0236T	; abdominal aorta	
0237T	; brachiocephalic trunk and branches, each vessel	
0238T	; iliac artery, each vessel	
0254T	Endovascular repair of iliac artery bifurcationusing bifurcated endograft from the common ili-ac artery into both the external and internal iliac artery, including all selective and/or nonselec-tive catheterization(s) required for device placement and all associated radiological supervision and interpretation, unilateral	
0338T	Transcatheter renal sympathetic denervation, percutaneous approach including arterial punc-ture, selective catheter placement(s) renal artery(ies), fluoroscopy, contrast injection(s), in-traprocedural roadmapping and radiological supervision and interpretation, including pressure gradient measurements, flush aortogram and diagnostic renal angiography when performed; unilateral	

References and endnotes

Questions

Contact Philips Reimbursement Resource Center Phone: (916) 281-2840 Email: IGTDReimbursement@philips.com

Resources

Third-party sources

- 2018 CPT Professional Edition
- 2016 CPT Changes, An Insider's View
- 2017 CPT Changes, An Insider's View
- CPT Assistant
- 2018 ICD-10-CM and ICD-10-PCS: The Complete Official Codebook

Endnotes

- 1. Refer to ICD-10-CM 2019: The Complete Official Codebook for a complete list of diagnosis codes and specific character codes.
- 2. Refer to ICD-10-PCS 2019: The Complete Official Codebook for a complete list of procedure codes and specific character codes.
- 3. Medicare Inpatient Prospective Payment System 2019 Final Rule (CMS-1694-F), Table 5 CN. Payment rates assume full update amount for hospitals which have submitted quality data and hospitals have a wage index greater than 1.
- 4. Major complications and comorbidities
- 5. Medicare Hospital Outpatient Prospective Payment and Ambulatory Surgical Center Payment Systems and Quality Reporting Programs. 2019 Final Rule (CMS-1695-FC), Published in the Federal Register November 1, 2018, OPPS Addendum B and ASC Addenda AA-EE.
- 6. Medicare Physician Fee Schedule. Final Policy, Payment, and Quality Provisions in the Medicare Physician Fee Schedule for Calendar Year 2019, (CMS-1693-F), November 1, 2018. Addendum B, 2018 conversion factor 36.0391.
- 7. Procedures performed in the facility setting (hospital or ASC) are reimbursed at the Medicare facility rate.
- 8. Procedures performed in the physician office setting or office-based lab (OBL) are reimbursed at the Medicare non-facility rate.
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- 10. RVU: Relative Value Units assigned under the Medicare Physician Fee Schedule, Addendum B. For each CPT code, RVUs are assigned to account for the relative resource costs used to provide the service. Each RVU consists of physician work value, practice expense and malpractice expense.
- 11. Standard payment adjustment rules for multiple procedures apply. If procedure is reported on the same day as another procedure (with fee schedule indicator 1, 2 or 3) rank the procedures by fee schedule amount and apply the appropriate reduction to this code (100%, 50%, and by report). Payment based on the lower of: (a) the actual charge or (b) the fee schedule amount reduced by the appropriate percentage. (Modifier -51). 150% payment adjustment for bilateral procedures applies. If the code is billed with the bilateral modifier or is reported twice on the same day by any other means (e.g., with RT and LT modifiers, or with a 2 in the unit field), base the payment for these codes when reported as bilateral procedures on the lower of: (a) the total actual charge for both sides or (b) 150% of the fee schedule amount for a single code. If the code is reported as a bilateral procedure and is reported with other procedure codes on the same day, apply the bilateral adjustment before applying any multiple procedure rules.
- 12. APC Status: Status J1: Comprehensive APC accounts for all costs and component services typically involved in the provision of the complete primary procedure; Status N: No separate APC payment. Packaged into payment for other services; Status Q2: T-Packaged Codes Packaged APC payment if billed on the same date of service as a HCPCS code assigned status indicator "T" or "J1". In other circumstances, payment is made through a separate APC payment.
- 13. Complications and comorbidities



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