

CY2019 Medicare Final Rules Issued for Hospital Outpatient, Ambulatory Surgical Center and Physician Fee Schedule

Interventional Cardiology, Peripheral Interventions & Rhythm Management

On November 1, 2018, the Centers for Medicare and Medicaid Services (CMS) released the 2019 final policies and payment rates for the Physician Fee Schedule (PFS) and Quality Payment Program (QPP). On November 2, 2018, CMS released the 2019 final policies and payment rates for the Outpatient Prospective Payment System (OPPS) and Ambulatory Surgical Centers (ASC). The final policies and rates are effective on **January 1, 2019.**

Hospital Outpatient: Total OPPS payments will increase by 1.35%.

Ambulatory Surgical Center (ASC): Overall payment rates will increase by 2.1%. **Physician Fee Schedule:** The physician conversion factor will increase 0.25%.

At the end of this document are tables that list final national payment rates and the national average percent changes for select Interventional Cardiology (IC), Peripheral Interventions (PI) and Rhythm Management (RM) related procedures.

Table 1: CY2019 Hospital Outpatient (OPPS) final payment tables.

Table 2: CY2019 Ambulatory Surgical Center (ASC) final payment rates.

Table 3: CY2019 Physician Fee Schedule (PFS) final payment rates.

Hospital Outpatient Prospective Payment System

Site Neutrality: In the CY2019 OPPS final rule, CMS finalized its proposal to continue pursuing greater payment neutrality between sites of service to reduce Medicare spending and patient cost-sharing.

- CMS finalized its proposal to pay for hospital clinic visits located at off-campus physician offices at the physician fee schedule level. They are currently paid as if they took place at the hospital, which is a higher rate than in the physician office. CMS estimates that this will result in \$380 million in savings.

In addition, CMS is finalizing changes designed to further encourage utilization of ASCs over hospital outpatient departments by:

- Using an alternative model for five years to stabilize the differential between ASC and hospital outpatient department payment rates.
- Expanding the number of procedures payable at ASCs to include twelve diagnostic cardiac catherization procedures
 and five additional imaging procedures performed during diagnostic cardiac catherization. PCI procedures are still
 not allowed to be performed in the ASC setting.

Device-Intensive Procedure Criteria: For CY2019, CMS finalized several changes to the criteria that deem a procedure "device-intensive." Now, procedures that involve single-use devices, even if devices do not remain in the body after the conclusion of the procedure, will qualify as device-intensive procedures. Additionally, procedures with a device offset percentage of greater than 30% will qualify as device-intensive procedures.

Quality Payment Programs: Hospitals and ASCs must meet quality reporting requirements under the Hospital Outpatient Quality Reporting (OQR) Program and Ambulatory Surgical Center Quality Reporting (ASCQR) Program or receive a 2.0% reduction in their annual payment update. CMS finalized its proposal to remove and modify certain measures from both programs, in accordance with its desire to use a smaller set of meaningful measures and reduce the paperwork and reporting burden on providers.

Comprehensive APCs (C-APCs): Implemented in CY2015, C-APCs provide a single all-inclusive payment for a primary service and all supporting adjunct services (similar to inpatient MS-DRG payments). Medicare currently uses C-APCs to pay for pacemaker, ICD and similar procedures, electrophysiological (EP) procedures, and endovascular procedures (coronary and peripheral). This policy currently only impacts the Outpatient Hospital Setting and does not apply to Ambulatory Surgery Centers. For CY2019, CMS is creating three new C-APCs, two of which relate to vascular procedures. APC 5183 (Level 3 Vascular Procedures) and APC 5184 (Level 4 Vascular Procedures) will be converted to Comprehensive APCs on January 1st, 2019. After this occurs, there will be 65 C-APCs.

Highlights for Interventional Cardiology, Peripheral Interventions and Rhythm Management:

Interventional Cardiology

- CMS groups procedures into APCs by clinical similarity and historical cost of care. APC reimbursement levels
 reflect an average of all procedures that are within an APC. Several new codes reporting revascularization of the
 AV fistula with lower cost have been grouped into APCs 5192-5194, which is driving decreased reimbursement
 levels for IC procedures within the APCs.
- For Complex Percutaneous Coronary Interventions (CPCIs), APC 5194 (DES CTO PCI, DES w/Atherectomy, BMS w/Atherectomy) payment rates will decrease by 4.15%.
- For Percutaneous Coronary Interventions (PCIs), APC 5193 (DES w/ PTCA, DES Bypass Graft, BMS w/ PTCA, BMS Bypass Graft, BMS CTO PCI, PTCA/Atherectomy) payment rates will decrease by 8.00%.
- For the second year, CMS allowed for a complexity adjustment from APC 5191 to APC 5192 when performing certain diagnostic cardiac catheterization procedures with IVUS or FFR.
- CMS will reintroduce the DES + DES multi-vessel complexity adjustment coding combination assigned to APC 5194.

Peripheral Interventions

- FemPop PTA, Arterial Thrombectomy and Venous Thrombectomy payment rates will decrease by 7.98%.
- FemPop Stent, FemPop Atherectomy, Embolization, AV Stent and Venous Stent payment rates will decrease by 8.00%.
- FemPop Atherectomy + Stent, TibPer Stent, TibPer Atherectomy, TibPer Stent + Atherectomy payment rates will decrease by 4.15%.

Rhythm Management

- OPPS payment rates for RM procedures will largely remain flat, with intracardiac ablation procedures payment rates seeing a modest increase.
- ICD/S-ICD system implant payment rates will decrease slightly by -0.99% and ICD replacements will decrease slightly by -0.52%.
- Pacemaker system implant payment rates will increase by 0.94% and pacemaker replacements will increase by 0.45%
- Payment rates for ablation procedures performed in conjunction with a comprehensive EP study will increase by 3.77%.

Ambulatory Surgical Center (ASC)

For CY2019, CMS is implementing an 2.1% increase in payment rates. This would mean increased payments of \$200 million for ASCs in CY2019 versus CY2018 payments.

Interventional Cardiology

CMS finalized its proposal to include 12 diagnostic cardiac catherization procedures, 3 injection procedures, and 2
FFR procedures to the list of ASC Covered Surgical Procedures, but will continue to not allow PCI procedures in
an ASC setting.

Peripheral Interventions

- Arterial Thrombectomy payment rates will increase by 15.37%. Venous thrombectomy payment rates will increase by 7.79%.
- FemPop PTA payment rates will increase by 14.37%.
- In the dialysis circuit, PTA payment rates will decrease by 20.69%, PTA + Stent payment rates will increase by 33.97%, Thrombectomy + PTA payment rates will decrease by 9.46%.

Rhythm Management

- ASC payment rates for RM procedures will largely remain flat:
 - Pacemaker implants payment rates on average will to increase by 0.45%.
 - ICD System implants payment rates on average will decrease slightly by -0.69%.
 - SICD System implants payment rates will decrease slightly by -0.95%.

Physician Fee Schedule (PFS)

The CY2019 Physician Fee Schedule released policies focused on physician-patient interaction, access to virtual care, and improving EHR reporting efficiency and value. CMS indicates that these changes will increase clinician productivity and reduce administrative costs.

Practice Expense (PE): CMS is updating how the cost of physician practice expenses (e.g., medical devices and equipment, office rent, personnel wages, and utilities) are factored into overall payment rates for procedures performed in physician offices. CMS' approach to recalculating practice expense has caused the valuation of certain types of devices and supplies to decrease, and other types of devices and supplies to increase. CMS will phase in its changes to practice expenses over a four-year period.

Quality Payment Program (QPP): Finalized changes to the QPP are relatively minor. CMS is removing certain quality measures to focus on measures with greater impact on health outcomes. In addition, CMS is emphasizing the importance of increasing electronic health record (EHR) interoperability.

Evaluation and Management Codes: CMS will delay implementation of proposed coding and payment changes that were aimed at reducing administrative burden and improving payment accuracy for evaluation and management visits. Specifically, the proposal to create single blended payment rates for office/outpatient E/M Level 2 through 5 visits has been delayed until 2021.

Interventional Cardiology

- **Coronary Stenting:** Overall, Percutaneous Coronary Intervention (PCI) and Complex Percutaneous Coronary Interventions (CPCI) final physician payment rates will remain flat.
 - Chronic Total Occlusion (CTO) PCIs payment rates will remain flat.
 - o Atherectomy with stent payment rates will remain flat.
 - Atherectomy without stent payment rates will remain flat.
 - o PCI with stent placement payment rates will remain flat.
 - o Percutaneous Transluminal Coronary Angioplasty (PTCA) payment rates will remain flat.

Fractional flow reserve (FFR)

- CPT® codes 93571 and 93572 were listed on the review of potentially Misvalued Services. The total time for this service decreased from 20 minutes to 15 minutes.
- After CMS compared and cross walked similar codes for evaluation, CMS finalized a work RVU of 1.38 for CPT® 93571 and a work RVU of 1.00 for CPT® 93572. This change will result in a payment rate decrease of 19.04% and 18.75% respectively. This reduction was based on physician responses to survey questions on time, complexity, resource use and risk.

Structural Heart and WATCHMAN™:

- Transcatheter Aortic Valve Replacement (TAVR) payments will remain flat.
- WATCHMAN™ LAAC payment will remain flat.

Peripheral Interventions

- For procedures performed in Office Based Labs (OBLs):
 - Fem/Pop Atherectomy payment rates will increase by 11.8%.
 - Fem/Pop Stent payment rates will increase by 18.6%.
 - o Fem/Pop Atherectomy with stent payment rates will increase by 6.5%.
 - BTK Atherectomy payment rates will increase by 13.4%.
 - BTK Stent payment rates will increase by 26.4%.
 - Venous Stent payment rates will decrease by 13.0%...
 - o IVUS payment rates will decrease by 7.8%.
- Physician payments for PI procedures performed in the hospital are will remain relatively flat.

Rhythm Management

- Physician payment rates for RM procedures will largely remain flat:
 - Physician Ablation procedures performed in conjunction with a comprehensive EP study, which includes most ablation procedures, payment rates will increase by 0.18%.
 - Physician pacemaker system implant payment rates will increase by an average of 0.23%.
 - o Physician defibrillator implant procedure payment rates will increase by an average of 0.06%.
 - The technical component for in-person device programming of pacemakers, defibrillators, and ICMs will increase ~30% due to a favorable revision in practice expense calculations for the service. Practice expense is the portion of the procedure/service that CMS attributes to items such as equipment, office rent, personnel wages.

COMMENTS / QUESTIONS

If you have questions or would like additional information contact:

Interventional Cardiology (IC), Peripheral Interventions (PI) & Rhythm Management (RM)	WATCHMAN™ LAAC
Call: 1-800-CARDIAC and request ext. 24114 for Reimbursement Support)	Email: WATCHMMAN.Reimbursement@bsci.com
Email: CRM.Reimbursement@bsci.com	Call: 1-877-786-1050 and select option 2
Email: IC.Reimbursement@bsci.com	

SOURCE INFORMATION

Read the full CY2019 Proposed OPPS Rule (CMS-1656-P) at the following link:

https://www.cms.gov/Medicare/Medicare-Fee-for-Service-Payment/HospitalOutpatientPPS/Hospital-Outpatient-Regulations-and-Notices-Items/CMS-1695-FC.html?DLPage=1&DLEntries=10&DLSort=2&DLSortDir=descending

Read the full CY2019 Proposed Physician Fee Schedule (CMS-1654-P) at the following Link:

https://www.cms.gov/Medicare/Medicare-Fee-for-Service-Payment/PhysicianFeeSched/PFS-Federal-Regulation-Notices-Items/CMS-1693-F.html?DLPage=1&DLEntries=10&DLSort=2&DLSortDir=descending

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Table 1: CY2019 Hospital Outpatient Final Payment Rates for Select Procedures Final 2019 OPPS Rates Compared to Final 2018 Variance **Status** CY2019 Final CY2018 Final APC **Descriptor** 2019 Final vs. % YoY Change Indicator 1 Rate Rate 2018 Final **Interventional Cardiology Level 1 Endovascular Procedures** 5191 J1 \$2,810 \$2,814 -\$3 -0.11% Diagnostic Cardiac Catheterization **Level 2 Endovascular Procedures** POBA Complexity Adjustments: Right heart cath + Right heart cath (93451 + 93451); Left hrt cath w/ventrclgrphy + L hrt artery/ventricle angio (93452 + 93458); Endoluminl ivus oct c 1st + Coronary artery angio s&i (93454 + 92978); Coronary artery angio s&i + Coronary artery angio s&i (93454 +93454); Biopsy of heart lining + Coronary artery angio s&i (93454 + 93505); Endoluminl ivus oct c 1st + Coronary art/grft angio s&i (93455 + 92978); Heart flow reserve measure +Coronary art/grft angio s&i (93455 + 93571); Endoluminl ivus oct c 1st + R hrt coronary artery angio (93456 + 92978); Biopsy of heart lining + R hrt coronary artery angio (93456 + 93505); Heart flow reserve measure + R hrt coronary artery angio (93456 + 93571); Heart flow reserve measure + R hrt art/grft angio (93457 + 93571); Endoluminl ivus oct c 1st + L hrt artery/ventricle angio (93458 + 92978); Right heart cath + L hrt artery/ventricle angio 5192 J1 \$4,679 \$5,085 -\$406 -7.99% (93458 + 93451); Coronary artery angio s&i + L hrt artery/ventricle angio (93458 + 93454); L hrt artery/ventricle angio + L hrt artery/ventricle angio (93458 + 93458); Biopsy of heart lining + L hrt artery/ventricle angio (93458 + 93505); Heart flow reserve measure + L hrt artery/ventricle angio (93458 + 93571); Endoluminl ivus oct c 1st + L hrt art/grft angio (93459 + 92978); L hrt art/grft angio + L hrt artery/ventricle angio (93459 + 93458); hrt art/grft angio + L hrt art/grft angio (93459 + 93459); Heart flow reserve measure + L hrt art/grft angio (93459 + 93571); Endoluminl ivus oct c 1st + R&I hrt art/ventricle angio (93460 + 92978); Coronary artery angio s&i + R&I hrt art/ventricle angio(93460 + 93454); R&I hrt art/ventricle angio + R&I hrt art/ventricle angio (93460 + 93460); Biopsy of heart lining + R&I hrt art/ventricle angio (93460 + 93505); Heart flow reserve measure + R&I hrt art/ventricle angio (93460 + 93571); Heart flow reserve measure + R&I hrt art/ventricle angio (93461 + 93571) **Level 3 Endovascular Procedures** DES w/ PTCA (C9600), DES Bypass Graft (C9604), BMS w/ PTCA (92928), BMS Bypass Graft (92937), BMS CTO PCI (92943), PTCA/Atherectomy (92924) Complexity Adjustments: 5193 J1 \$9,669 \$10,510 -\$841 -8 01% Prq cardiac angioplast 1 art + Prq cardiac angioplast 1 art (92920 + 92920), Prq cardiac angioplast 1 art + Cath place cardio brachytx (92920 + 92974); Revision of aortic valve + R&I hrt cath w/ventriclgrphy (92986 +

93453); Revision of aortic valve + R&I hrt art/ventricle

angio (92986 + 93460)

	Level 4 Endovascular Procedures DES CTO PCI (C9607), DES w/Atherectomy (C9602),				
	DESICTO PCI (C9607), DESIW/Atherectomy (C9602)				
	BMS w/Atherectomy (92933)				
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iterventions		··			
	Level 2 Endovascular Procedures				
J1	Iliac PTA (37220), FemPop PTA (37224), Dialysis Circuit PTA (36902), Dialysis Circuit Thombectomy (36904), Arterial Mechanical Thrombectomy (37184), Venous Mechanical Thrombectomy (37187)	\$4,679	\$5,085	-\$406	-7.99%
	Level 3 Endovascular Procedures				
J1	TibPer PTA (37228), Iliac Stent (37221), FemPop Atherectomy (37225), FemPop Stent (37226), Vasc Embolization (37241-37244), Dialysis Circuit Thrombectomy + PTA (36905), Dialysis Circuit Stent + PTA (36903)	\$9,669	\$10,510	-\$841	-8.01%
	Level 4 Endovascular Procedures				
J1	FemPop Stent & Atherectomy (37227), TibPer Atherectomy (37229), TibPer Stent (37230), TibPer Stent & Atherectomy (37231), Dialysis Circuit Thrombectomy + Stent + PTA (36906) Complexity Adjustments: Iliac Stent + Vasc Stent (37221 + 37236), FemPop Ather + Iliac Stent (37225 + 37221), FemPop Ather + Vasc Stent (37225 + 37226), FemPop Ather + Vasc Stent (37225 + 37236), FemPop Stent + Iliac Stent (37226 + 37221), FemPop Stent + FemPop Stent (37226 + 37226), FemPop Stent + Vasc Stent (37226 + 37226), FemPop Stent + Vasc Stent (37238 + 37238), Venous Stent + Vasc Embolization (37238 + 37241), Vasc Embolization + Iliac Stent (37242 + 37221), Vasc Embolization + Vasc Embolization (37242 + 37221), Vasc Embolization + Vasc Embolization (37225 + 37184), FemPop Ather + Art Mech. Thromb (37221 + 37184), FemPop Stent (37226 + 37184), Venous Stent + Venous Mech Thromb (37238 + 37187), Venous Stent + Venous Mech Thromb (37238 + 37187), Venous Stent + Venous Stent add'I vein (37238 + 37239) Combinations below as listed within CMS' Addendum J: Intro cath dialysis circuit + Stent plmt ctr dialysis seg (369X3 + 368X8), Thrmbc/nfs dialysis circuit + Stent plmt ctr dialysis seg (369X5 + 368X8)	\$15,355	\$16,020	-\$666	-4.16%
nt -	J1 J1	Perc drug-el cor stent sing (92924 +C9600); Prq card stent w/angio 1 vsl + Prq card stent w/angio 1 vsl (92928 +92928); Prq card revasc chronic 1vsl + Prq card stent w/angio 1 vsl (92928 +92928); Prq card revasc chronic 1vsl + Prq card stent w/angio 1 vsl (92943 + 29298); Prq revasc byp graft 1 vsl (C9600 + 92937); Perc drug-el cor stent sing + Revision of aortic valve (C9600 + 92986); Perc drug-el cor stent sing (C9600 + C9600); Perc d-e cor revasc t cabg s + Perc drug-el cor stent sing (C9604 + C9600); Perc d-e cor revasc t cabg s + Perc drug-el cor stent sing (C9604 + C9600); Perc d-e cor revasc t cabg s + Perc drug-el cor stent sing (C9604 + C9604) BSC currently has no stents FDA-a BSC currently has no stents SPDA-a BSC currently has no stents FDA-a BSC currently has	Perc drug-el cor stent sing (92924 x-05600); Prq card stent Wangio 1 vsl (92928 +92928); Prq card revasc chronic 1vsl + Prq card stent w/angio 1 vsl (92928 +92928); Prq card revasc chronic 1vsl + Prq card stent w/angio 1 vsl (92943 + 92928); 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Rhythm M	anagement					
5191	J1	Diagnostic Cardiac Catheterization	\$2,810	\$2,814	-\$3	-0.11%
		Level 1 Electrophysiologic Procedures				
		Right ventricular recording (93603)				
5211	J1	Induction of arrthymia (93618)	\$919	\$909	\$10	1.11%
		DFT testing not at implant (93642)				
		Level 2 Electrophysiologic Procedures				
		Bundle of HIS recording (93600)				
		Intra-atrial recording (93602)				
		Intra-atrial pacing (93610)				
5212	J1	Intraventricular pacing (93612)	\$5,097	\$5,314	-\$217	-4.08%
		Comprehensive EP study without induction (93619)				
		Comprehensive EP study with induction (93620)				
		EP follow up study (93624)				
		AV Node Ablation (93650)				
		Level 3 Electrophysiologic Procedures				
5213	J1	SVT ablation with EP study (93653)	¢10 214	¢10 F16	¢coo	3.77%
5213	JI	VT ablation with EP study (93654)	\$19,214	\$18,516	\$698	3.77%
		A Fib ablation with EP study (93656)				
	T	Level1 Pacemaker and Similar Procedures				
		Repair single transvenous electrode (33218)				
		Repair 2 transvenous electrodes (33220)				
		Removal of transvenous pacemaker electrode - single (33234)				
5221		Removal of transvenous pacemaker electrode - dual (33235)	\$3,131	\$2,868	\$263	9.16%
		Removal of ICD pulse generator only (33241)				
		Removal of ICD electrode(s) (33244)				
		Removal of S-ICD electrode (33272)				
		Repositioning of S-ICD electrode (33273) Level 2 Pacemaker and Similar Procedures				
		Insertion of single chamber pacemaker generator only (33212)				
		Insertion of single transvenous electrode, pacemaker or ICD (33216)				
5222	J1	Insertion of 2 transvenous electrodes, pacemaker or ICD (33217)	\$7,404	\$7,371	\$33	0.45%
		Single chamber pacemaker change out (33227)				
		Removal of pacemaker generator only (33233) Insertion of subcutaneous Cardiac Rhythm Monitor				
		(ICM)(33285)				
		Insertion of S-ICD electrode (33271)				
		Level 3 Pacemaker and Similar Procedures				
		Insertion of single and dual chamber pacemaker				
5223	J1	(33206,33207, 33208) Insertion of dual chamber pacemaker generator only (33213)	\$9,879	\$9,748	\$131	1.35%
		Upgrade of single to dual chamber pacemaker (33214)				
			1			

		LV lead insertion with attachment to previously placed device (33224)				
		Dual chamber pacemaker change out (33228)				
		Removal of PM generator + LV pacing lead add-on (33233 + 33225)				
		Implant pat-active ht record + EP Eval (33282 + 93619)				
		Level 4 Pacemaker and Similar Procedures				
		Insertion of multiple lead pacemaker generator only (33221)				
		Multiple lead pacemaker change out (33229)				
5224	5224 J1	Insert PM ventricular + LV lead add-on (33207 + 33225), Insert PM atrial & Vent + LV pacing lead add-on (33208 + 33225), Insert PM atrial & vent + Ablate heart dys focus (33208 + 93650), Insert pacing lead & connect + Insert 1 electrode pm-defib (33224+ 33216), Remv & replc pm gen dual lead + LV pacing lead add-on (33228 + 33225)	\$17,679	\$17,586	\$93	0.53%
		Level 1 ICD and Similar Procedures				
5231	J1	Insertion of single and dual lead defibrillator pulse generator only (33240,33230)	\$21,996	\$22,111	-\$114	-0.52%
		Single or dual lead ICD change out (33262, 33263)				
		Level 2 ICD and Similar Procedures Insertion of mulitiple lead defibrillator pulse generator only (33231)				
5232	J1	Insertion of single or dual chamber transvenous ICD system (33249)	\$30,656	\$30,962	-\$306	-0.99%
		Multiple lead ICD change out (33264)				
		Insertion of subcutaneous ICD system (33270)				
		CRT-D system implant (33249 + 33225)				

¹ Status Indicator: (Source: CMS OPPS Addendum D1)

J1 - Hospital part B services paid through comprehensive APC

T - Procedure or service, multiple procedure reduction applies

	Table 2: Ambulatory Surgical Center (ASC)				
CPT®	ASC CY2019 Final Payment Rates for Select Procedo Abbreviated (Partial) Description	CY2019 Final Payment	CY2018 Final Payment	vs. 20	2019 Final 18 Final
Budales		\$	\$	\$	%
	al Interventions ery Revascularization				
37220	Revascularization, endovascular, open or percutaneous, iliac artery, unilateral, initial vessel; with transluminal angioplasty	\$2,002	\$2,525	(\$522)	-20.69%
37221	Revascularization, endovascular, open or percutaneous, iliac artery, unilateral, initial vessel; with transluminal stent placement(s), includes angioplasty within same vessel, when performed	\$5,834	\$6,402	(\$568)	-8.87%
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)	\$0	\$0	NA	NA
37223	Revascularization, endovascular, open or percutaneous, iliac artery, 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)	\$0	\$0	NA	NA
Femoral	/Popliteal Artery Revascularization				l
37224	Revascularization, endovascular, open or percutaneous, femoral/popliteal artery(s), unilateral; with transluminal angioplasty	\$2,887	\$2,525	\$363	14.37%
37225	Revascularization, endovascular, open or percutaneous, femoral/popliteal artery(s), unilateral; with atherectomy, includes angioplasty within same vessel, when performed	\$6,411	\$7,024	(\$613)	-8.73%
37226	Revascularization, endovascular, open or percutaneous, femoral/popliteal artery(s), unilateral; with transluminal stent placement(s), includes angioplasty within the same vessel, when performed	\$6,223	\$6,749	(\$526)	-7.79%
37227	Revascularization, endovascular, open or percutaneous, femoral/popliteal artery(s), unilateral; with transluminal stent placement(s) and atherectomy, includes angioplasty within the same vessel, when performed	\$10,354	\$10,865	(\$510)	-4.70%
Tibial / P	Peroneal Artery Revascularization				
37228	Revascularization, endovascular, open or percutaneous, tibial\peroneal artery, unilateral, initial vessel; with transluminal angioplasty	\$5,484	\$4,480	\$1,004	22.42%
37229	Revascularization, endovascular, open or percutaneous, tibial\peroneal artery, unilateral, initial vessel; with atherectomy, includes angioplasty within the same vessel, when performed	\$9,787	\$10,228	(\$440)	-4.31%
37230	Revascularization, endovascular, open or percutaneous, tibial\peroneal artery, unilateral, initial vessel; with transluminal stent placement(s), includes angioplasty within the same vessel, when performed	\$9,604	\$10,207	(\$604)	-5.91%

37231	Revascularization, endovascular, open or percutaneous, tibial\peroneal artery, unilateral, initial vessel; with transluminal stent placement(s) and atherectomy, includes angioplasty within the same vessel, when performed	\$9,851	\$10,276	(\$424)	-4.13%				
37232	Revascularization, endovascular, open or percutaneous, tibial\peroneal artery, unilateral, each additional vessel; with transluminal angioplasty (List separately in addition to code fore primary procedure)	\$0	\$0	NA	NA				
37233	Revascularization, endovascular, open or percutaneous, tibial\peroneal artery, unilateral, each additional vessel; with atherectomy, includes angioplasty within the same vessel, when performed (List separately in addition to code fore primary procedure)	\$0	\$0	NA	NA				
37234	Revascularization, endovascular, open or percutaneous, tibial\peroneal artery, unilateral, each additional vessel; with transluminal stent placement(s), includes angioplasty within the same vessel, when performed (List separately in addition to code fore primary procedure)	\$0	\$0	NA	NA				
37235	Revascularization, endovascular, open or percutaneous, tibial\peroneal artery, unilateral, each additional vessel; with transluminal stent placement(s) and atherectomy, includes angioplasty within the same vessel, when performed (List separately in addition to code fore primary procedure)	\$0	\$0	NA	NA				
Vascular	Stent								
37236	Transcatheter placement of an intravascular stent(s) (except lower extremity, 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	\$5,741	\$4,480	\$1,261	28.14%				
37237	Transcatheter placement of an intravascular stent(s) (except lower extremity, 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; each additional artery (List separately in addition to code for primary procedure)	\$0	\$0	NA	NA				
37238	Transcatheter placement of an intravascular stent(s), open or percutaneous, including radiological supervision and interpretation and including angioplasty within the same vessel, when performed; initial vein	\$5,873	\$6,518	(\$645)	-9.90%				
37239	Transcatheter placement of an intravascular stent(s), open or percutaneous, including radiological supervision and interpretation and including angioplasty within the same vessel, when performed; each additional vein (List separately in addition to code for primary procedure)	\$0	\$0	NA	NA				
	DCC currently has no stant annually for use in the university of the	OWOR OUTCOM	tios						
	BSC currently has no stent approved for use in the veins of the lower extremities								

Dialysis (Circuit				
36901	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 supervision and interpretation and image documentation and report	\$523	\$319	\$203	63.74%
36902	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 supervision and interpretation and image documentation and report; with transluminal balloon angioplasty, peripheral dialysis segment, including all imaging and radiological supervision and interpretation necessary to perform the angioplasty	\$2,002	\$2,525	(\$522)	-20.69%
36903	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 supervision and interpretation and image documentation and report; 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	\$6,002	\$4,480	\$1,522	33.97%
36904	Percutaneous transluminal mechanical thrombectomy and/or infusion for thrombolysis, dialysis circuit, any method, including all imaging and radiological supervision and interpretation, diagnostic angiography, fluoroscopic guidance, catheter placement(s), and intraprocedural pharmacological thrombolytic injection(s)	\$2,663	\$2,525	\$138	5.48%
36905	Percutaneous transluminal mechanical thrombectomy and/or infusion for thrombolysis, dialysis circuit, any method, including all imaging and radiological supervision and interpretation, diagnostic angiography, fluoroscopic guidance, catheter placement(s), and intraprocedural pharmacological thrombolytic injection(s); with transluminal balloon angioplasty, peripheral dialysis segment, including all imaging and radiological supervision and interpretation necessary to perform the angioplasty	\$4,056	\$4,480	(\$424)	-9.46%

36906	Percutaneous transluminal mechanical thrombectomy and/or infusion for thrombolysis, dialysis circuit, any method, including all imaging and radiological supervision and interpretation, diagnostic angiography, fluoroscopic guidance, catheter placement(s), and intraprocedural pharmacological thrombolytic injection(s); with transcatheter placement of an 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	\$9,724	\$6,924	\$2,800	40.43%
36907	Transluminal balloon angioplasty, central dialysis segment, performed through dialysis circuit, including all imaging and radiological supervision and interpretation required to perform the angioplasty (List separately in addition to code for primary procedure)	\$0	\$0	NA	NA
36908	Transcatheter placement of an intravascular stent(s), central dialysis segment, performed through dialysis circuit, including all imaging radiological supervision and interpretation required to perform the stenting, and all angioplasty in the central dialysis segment (List separately in addition to code for primary procedure)	\$0	\$0	NA	NA
36909	Dialysis circuit permanent vascular embolization or occlusion (including main circuit or any accessory veins), endovascular, including all imaging and radiological supervision and interpretation necessary to complete the intervention (List separately in addition to code for primary procedure)	\$0	\$0	NA	NA
Thrombe	ctomy	l .	l .	l .	
37184	Primary percutaneous transluminal mechanical thrombectomy, noncoronary, arterial or arterial bypass graft, including fluoroscopic guidance and intraprocedural pharmacological thrombolytic injection(s); initial vessel	\$2,912	\$2,525	\$388	15.37%
37187	Percutaneous transluminal mechanical thrombectomy, vein(s), including intraprocedural pharmacological thrombolytic injections and fluoroscopic guidance	\$2,721	\$2,525	\$197	7.79%
Biliary St	T T T T T T T T T T T T T T T T T T T				
47556	Biliary endoscopy, percutaneous via T-tube or other tract; with dilation of biliary duct stricture(s) with stent	\$3,048	\$2,097	\$951	45.35%
49421 49423	Insert abdom drain, perm	\$1,343 \$642	\$1,333 \$627	\$10 \$15	0.76% 2.39%
	Exchange drainage catheter Management	304Z	ا عالد	رىرد	۷،33/0
33206	Pacemaker - single chamber system, atrial lead	\$7,940	\$7,779	\$161	2.07%
33207	Pacemaker - single chamber system, ventricular lead	\$7,920	\$7,832	\$88	1.12%
33208	Pacemaker - dual chamber system implant	\$8,065	\$8,010	\$54	0.68%
33240	Insertion of ICD / S-ICD pulse generator only with existing lead	\$19,901	\$20,003	(\$101)	-0.51%
33249	ICD system implant	\$27,056	\$27,340	(\$284)	-1.04%
33270	S-ICD system implant	\$27,006	\$27,265	(\$258)	-0.95%

		ı	1	1	1
33249 + 33225	CRT-D System implant (33249 & 33225 when performed on the same day)	\$27,056	\$27,340	(\$284)	-1.04%
33227	Pacemaker - single chamber replacement	\$5,831	\$5,857	(\$27)	-0.45%
33228	Pacemaker - dual chamber replacement	\$7,875	\$7,807	\$67	0.86%
33229	Pacemaker - multiple lead replacement	\$12,783	\$12,781	\$3	0.02%
33262	Defibrillator - single chamber replacement	\$19,280	\$19,388	(\$108)	-0.56%
33263	Defibrillator - dual chamber replacement	\$19,564	\$19,514	\$49	0.25%
33264	Defibrillator - multiple lead replacement	\$27,119	\$27,391	(\$272)	-0.99%
Intervent	ional Cardiology - Diagnostic Cardiac Catheterization				
93451	Right heart cath	\$1,359	N/A	N/A	N/A
93452	Left hrt cath w/ventrclgrphy	\$1,359	N/A	N/A	N/A
93453	R&I hrt cath w/ventriclgrphy	\$1,359	N/A	N/A	N/A
93454	Coronary artery angio s&i	\$1,359	N/A	N/A	N/A
93455	Coronary art/grft angio s&i	\$1,359	N/A	N/A	N/A
93456	R hrt coronary artery angio	\$1,359	N/A	N/A	N/A
93457	R hrt art/grft angio	\$1,359	N/A	N/A	N/A
93458	L hrt artery/ventricle angio	\$1,359	N/A	N/A	N/A
93459	L hrt art/grft angio	\$1,359	N/A	N/A	N/A
93460	R&I hrt art/ventricle angio	\$1,359	N/A	N/A	N/A
93461	R&I hrt art/ventricle angio	\$1,359	N/A	N/A	N/A

		Final 2019 PFS Rates Compare	ad to Einal '	2019				
СРТ®	Modifier	Abbreviated (Partial) Description	Final 2019 In- Facility Rate	Variance vs. Fir	Final 2019 nal 2018	Final 2019 In- Office Rate	Fina	2019 vs I 2018
			\$	\$	%	\$	\$	%
rventional Car								
nostic Cathete		Billia de la companya della companya della companya de la companya de la companya della companya	4.0-	1 40	1 0 4 4 9 /			1
93451	26	Right heart catheterization including measurement(s) of oxygen saturation and cardiac	\$137	\$0	0.11%	NA	NA	N/
93451		output, when performed	NA	NA	NA	\$798	\$53	7.13
93452	26	Left heart catheterization including	\$249	(\$0)	-0.03%	NA	NA	N/
93452		intraprocedural injection(s) for left ventriculography; imaging supervision and interpretation, when performed	NA	NA	NA	\$887	\$39	4.66
93453	26	Combined right heart cath and left heart	\$334	\$1	0.33%	NA	NA	N/
93453		catheterization including intraprocedural injection(s) for left ventriculography, imaging supervision and interpretation, when performed	NA	NA	NA	\$1,150	\$50	4.50
93454	26	Catheter placement in coronary artery(s) for	\$253	\$1	0.40%	NA	NA	N/
93454		coronary angiography, including intraprocedural injection(s) for coronary angiography, imaging	NA NA	NA	NA NA	\$896	\$36	4.22
93455	26	supervision and interpretation; Catheter placement in coronary artery(s) for	\$294	\$1	0.23%	NA	NA	N/
93455		injection(s) for coronary angiography, imaging supervision and interpretation; with catheter placement(s) in bypass graft(s) (internal mammary, free arterial venous grafts) including intraprocedural injection(s) for bypass graft angiography	NA	NA	NA	\$1,032	\$26	2.62
93456	26	Catheter placement in coronary artery(s) for	\$328	\$1	0.22%	NA	NA	N/
93456		coronary angiography, including intraprocedural injection(s) for coronary angiography, imaging supervision and interpretation; with right heart catheterization	NA	NA	NA NA	\$1,134	\$46	4.25
93457	26	Catheter placement in coronary artery(s) for	\$369	\$0	0.11%	NA	NA	N/
93457		coronary angiography, including intraprocedural injection(s) for coronary angiography, imaging supervision and interpretation; with catheter placement(s) in bypass graft(s) (internal mammary, free arterial, venous grafts) including intraprocedural injection(s) for bypass graft angiography and right heart catheterization	NA	NA	NA	\$1,268	\$36	2.92
93458	26	Catheter placement in coronary artery(s) for	\$312	\$1	0.23%	NA	NA	N/
93458		coronary angiography, including intraprocedural injection(s) for coronary angiography, imaging supervision and interpretation; with left heart catheterization including intraprocedural injection(s) for left ventriculography, when performed	NA	NA	NA	\$1,063	\$27	2.61
93459	26	Catheter placement in coronary artery(s) for	\$353	\$0	0.01%	NA	NA	N/
93459		coronary angiography, including intraprocedural injection(s) for coronary angiography, imaging supervision and interpretation; with left heart catheterization including intraprocedural injection(s) for left ventriculography, when performed, catheter placement(s) in bypass graft(s) (internal mammary, free arterial, venous	NA	NA	NA	\$1,168	\$19	1.68

		Catheter placement in coronary artery(s) for coronary angiography, including intraprocedural						
93460		injection(s) for coronary angiography, imaging supervision and interpretation; with right and left heart catheterization including intraprocedural injection(s) for left ventriculography, when performed	NA	NA	NA	\$1,275	\$38	3.08%
93461	26	Catheter placement in coronary artery(s) for	\$437	\$1	0.19%	NA	NA	NA
`93461		coronary angiography, including intraprocedural injection(s) for coronary angiography, imaging supervision and interpretation; with right and left heart catheterization including intraprocedural injection(s) for left ventriculography, when performed, catheter placement(s) in bypass graft(s) (internal mammary, free arterial, venous grafts) with bypass graft angiography	NA	NA	NA	\$1,444	\$28	1.97%
93462		Left heart catheterization by transseptal puncture through intact septum or by transapical puncture (List separately in addition to code for primary procedure)	\$220	\$0	0.11%	\$220	\$0	0.11%
93463		Pharmacologic agent administration (eg, inhaled nitric oxide, intravenous infusion of nitroprusside, dobutamine, milrinone, or other agent) including assessing hemodynamic measurements before, during, after and repeat pharmacologic agent administration, when performed (List separately in addition to code for primary procedure)	\$102	\$0	0.47%	\$102	\$0	0.47%
93464	26	Physiologic exercise study (eg, bicycle or arm	\$90	\$0	0.51%	NA	NA	NA
93464		ergometry) including assessing hemodynamic measurements before and after (List separately in addition to code for primary procedure)	NA	NA	NA	\$254	(\$8)	-2.92%
93531	26	Combined right heart catheterization and retrograde left heart cath, for congenital cardiac anomalies	\$447	\$1	0.19%	\$447	\$1	0.19%
93532	26	Combined right heart catheterization and transseptal left heart cath through intact septum with or w/o retrograde left heart catheterization, for congenital cardiac anomalies	\$558	\$21	3.87%	\$558	\$21	3.87%
93533	26	Combined right heart catheterization and transseptal left heart cath through existing septal opening, with or w/o retrograde left heart catheterization, for congenital cardiac anomalies	\$372	\$11	3.00%	\$372	\$11	3.00%
Diagnostic Cath Inj	ection							
93565		Injection procedure during cardiac catheterization including imaging supervision and interpretation, and report; for selective left ventricular or left arterial angiography (List separately in addition to code for primary procedure)	\$47	\$0	0.11%	\$47	\$0	0.11%
93566		Injection procedure during cardiac catheterization including imaging supervision and interpretation, and report; for selective right ventricular or right atrial angiography (List separately in addition to code for primary procedure)	\$49	\$0	0.11%	\$158	(\$8)	-5.09%
93567		Injection procedure during cardiac catheterization including imaging supervision and interpretation, and report; for supravalvular aotography (List separately in addition to code for primary procedure)	\$55	\$0	0.11%	\$134	(\$6)	-4.52%

93568	Injection procedure during cardiac catheterization including imaging supervision and interpretation, and report; for pulmonary angiography (List separately in addition to code for primary procedure)	\$50	\$0	0.11%	\$143	(\$6)	-3.77%
Angioplasty without S	itent					•	•
92920	Percutaneous transluminal coronary angioplasty; single major coronary artery or branch	\$558	\$1	0.24%	NA	NA	NA
92921	Percutaneous transluminal coronary angioplasty; each additional branch of a major coronary artery (list separately in addition to code for primary procedure)	\$0	\$0	NA	\$0	\$0	NA
Atherectomy without	Stent		l	1			
92924	Percutaneous transluminal coronary atherectomy, with coronary angioplasty when performed; single major coronary artery or branch	\$666	\$2	0.33%	NA	NA	NA
92925	Percutaneous transluminal coronary atherectomy, with coronary angioplasty when performed; each additional branch of a major coronary artery (list separately in addition to code for primary procedure)	\$0	\$0	NA	\$0	\$0	NA
Stent with Angioplast	у						
92928	Percutaneous transcatheter placement of intracoronary stent(s), with coronary angioplasty when performed; single major coronary artery or branch	\$621	\$2	0.28%	NA	NA	NA
92929	Percutaneous transcatheter placement of intracoronary stent(s), with coronary angioplasty when performed; each additional branch of a major coronary artery (list separately in addition to code for primary procedure)	\$0	\$0	NA	\$0	\$0	NA
Stent with Atherector	mv						
92933	Percutaneous transluminal coronary atherectomy, with intracoronary stent, with coronary angioplasty when performed; single major coronary artery or branch	\$697	\$3	0.37%	NA	NA	NA
92934	Percutaneous transluminal coronary atherectomy, with intracoronary stent, with coronary angioplasty when performed; each additional branch of a major coronary artery (list separately in addition to code for primary procedure)	\$0	\$0	NA	\$0	\$0	NA
Bypass Graft	•					•	•
92937	Percutaneous transluminal revascularization of or through coronary artery bypass graft (internal mammary, free arterial, venous), any combination of intracoronary stent, atherectomy and angioplasty, including distal protection when performed; single vessel	\$621	\$2	0.34%	NA	NA	NA
92938	Percutaneous transluminal revascularization of or through coronary artery bypass graft (internal mammary, free arterial, venous), any combination of intracoronary stent, atherectomy and angioplasty, including distal protection when performed; each additional branch subtended by the bypass graft (list separately in addition to code for primary procedure)	\$0	\$0	NA	\$0	\$0	NA

Acute Myocardial Ir	nfarctio	n						
92941		Percutaneous transluminal revascularization of acute total/subtotal occlusion during acute myocardial infarction, coronary artery or coronary artery bypass graft, any combination of intracoronary stent, atherectomy and angioplasty, including aspiration thrombectomy when performed, single vessel	\$699	\$3	0.42%	NA	NA	NA
Chronic Total Occlu	sion							
92943		Percutaneous transluminal revascularization of chronic total occlusion, coronary artery, coronary artery branch, or coronary artery bypass graft, any combination of intracoronary stent, atherectomy and angioplasty; single vessel	\$698	\$3	0.37%	NA	NA	NA
92944		Percutaneous transluminal revascularization of chronic total occlusion, coronary artery, coronary artery branch, or coronary artery bypass graft, any combination of intracoronary stent, atherectomy and angioplasty; each additional coronary artery, coronary artery branch, or bypass graft (list separately in addition to code for primary procedure)	\$0	\$0	NA	\$0	\$0	NA
Thrombectomy								
92973		Percutaneous transluminal coronary thrombectomy mechanical	\$186	\$0	0.11%	NA	NA	NA
IVUS								
92978	26	Endoluminal imaging of coronary vessel or graft using intravascular ultrasound (IVUS) or optical coherence tomography (OCT) during diagnostic evaluation and/or therapeutic intervention including imaging supervision, interpretation and report; initial vessel (List separately in addition to code for primary procedure)	\$101	\$1	0.83%	\$101	\$1	0.83%
92979	26	Endoluminal imaging of coronary vessel or graft using intravascular ultrasound (IVUS) or optical coherence tomography (OCT) during diagnostic evaluation and/or therapeutic intervention including imaging supervision, interpretation and report; each additional vessel (List separately in addition to code for primary procedure)	\$80	(\$0)	-0.34%	\$80	(\$0)	-0.34%
FFR								
93571	26	Intravascular Doppler velocity and/or pressure derived coronary flow reserve measurement (coronary vessel or graft) during coronary angiography including pharmacologically induced stress; each additional vessel (List separately in addition to code for primary procedure)	\$81	(\$19)	-19.04%	\$81	(\$19)	-19.04%
93572	26	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)	\$65	(\$15)	-18.75%	\$65	(\$15)	-18.75%
Valvuloplasty								
92986		Percutaneous balloon valvuloplasty; aortic valve	\$1,383	\$3	0.24%	NA	NA	NA
92987		Percutaneous balloon valvuloplasty; mitral valve	\$1,427	\$3	0.24%	NA	NA	NA
92990		Percutaneous balloon valvuloplasty; pulmonary valve	\$1,140	\$2	0.20%	NA	NA	NA

ranscatneter Aortic V	alve Replacement	1					
33361	Transcatheter aortic valve replacement (tavr/tavi) with prosthetic valve; percutaneous femoral artery approach	\$1,423	\$2	0.16%	NA	NA	NA
33362	Transcatheter aortic valve replacement (tavr/tavi) with prosthetic valve; open femoral artery approach	\$1,553	\$2	0.16%	NA	NA	NA
33363	Transcatheter aortic valve replacement (tavr/tavi) with prosthetic valve; open axillary artery approach	\$1,609	\$0	0.02%	NA	NA	NA
33364	Transcatheter aortic valve replacement (tavr/tavi) with prosthetic valve; open iliac artery approach	\$1,663	(\$31)	-1.85%	NA	NA	NA
33365	Transcatheter aortic valve replacement (tavr/tavi) with prosthetic valve; transaortic approach (e.g., median sternotomy, mediastinotomy)	\$1,868	\$5	0.25%	NA	NA	NA
33366	Transcatheter aortic valve replacement (TAVR/TAVI) with prosthetic valve; transapical exposure (eg, left thoracotomy)	\$2,019	\$4	0.20%	NA	NA	NA
33367	Transcatheter aortic valve replacement (tavr/tavi) with prosthetic valve; cardiopulmonary bypass support with percutaneous peripheral arterial and venous cannulation (e.g., femoral vessels) (list separately in addition to code for primary procedure)	\$659	\$2	0.27%	NA	NA	NA
33368	Transcatheter aortic valve replacement (tavr/tavi) with prosthetic valve; cardiopulmonary bypass support with open peripheral arterial and venous cannulation (e.g., femoral, iliac, axillary vessels) (list separately in addition to code for primary procedure)	\$783	\$2	0.20%	NA	NA	NA
33369	Transcatheter aortic valve replacement (tavr/tavi) with prosthetic valve; cardiopulmonary bypass support with central arterial and venous cannulation (e.g., aorta, right atrium, pulmonary artery) (list separately in addition to code for primary procedure)	\$1,033	\$2	0.18%	NA	NA	NA
ravalvular Leak Repa							
93590	Percutaneous transcatheter closure of paravalvular leak; initial occlusion device, mitral valve	\$1,124	\$6	0.53%	NA	NA	NA
93591	Percutaneous transcatheter closure of paravalvular leak; initial occlusion device, aortic valve	\$926	(\$3)	-0.28%	NA	NA	NA
93592	Percutaneous transcatheter closure of paravalvular leak; each additional occlusion device (List separately in addition to code for primary procedure)	\$410	\$2	0.46%	NA	NA	NA
atchman™ Left Atria	Il Appendage Closure (LAAC) Procedure						
33340	Percutaneous transcatheter closure of the left atrial appendage with endocardial implant, including fluoroscopy, transseptal puncture, catheter placement(s), left atrial angiography, left atrial appendage angiography, when performed, and radiological supervision and interpretation	\$829	(\$2)	-0.24%	NA	NA	NA

Peripheral Interventi	ons						
Non-Coronary Angio							
37246	Transluminal balloon angioplasty (except lower extremity artery(s) for occlusive disease, intracranial, coronary, pulmonary, or dialysis circuit), open or percutaneous, including all imaging and radiological supervision and interpretation necessary to perform the angioplasty within the same artery; initial artery	\$365	(\$0)	-0.09%	\$2,136	(\$46)	-2.09%
37247	Transluminal balloon angioplasty (except lower extremity artery(s) for occlusive disease, intracranial, coronary, pulmonary, or dialysis circuit), open or percutaneous, including all imaging and radiological supervision and interpretation necessary to perform the angioplasty within the same artery; each additional artery (List separately in addition to code for primary procedure)	\$179	(\$0)	-0.09%	\$814	(\$68)	-7.66%
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	\$312	(\$5)	-0.50%	\$1,527	\$7	2.50%
37249	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; each additional vein (List separately in addition to code for primary procedure)	\$152	(\$3)	-0.30%	\$604	\$3	1.60%
Dialysis Circuit		I.	l	I			
36901	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 supervision and interpretation and image documentation and report	\$176	(\$1)	-0.30%	\$661	\$49	8.07%
36902	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 supervision and interpretation and image documentation and report; with transluminal balloon angioplasty, peripheral dialysis segment, including all imaging and radiological supervision and interpretation necessary to perform the angioplasty	\$252	\$0	0.11%	\$1,301	\$28	2.23%

36903	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 supervision and interpretation and image documentation and report; 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	\$333	\$0	0.00%	\$5,485	(\$240)	-4.20%
36904	Percutaneous transluminal mechanical thrombectomy and/or infusion for thrombolysis, dialysis circuit, any method, including all imaging and radiological supervision and interpretation, diagnostic angiography, fluoroscopic guidance, catheter placement(s), and intraprocedural pharmacological thrombolytic injection(s)	\$388	\$0	0.02%	\$1,914	\$65	3.52%
36905	Percutaneous transluminal mechanical thrombectomy and/or infusion for thrombolysis, dialysis circuit, any method, including all imaging and radiological supervision and interpretation, diagnostic angiography, fluoroscopic guidance, catheter placement(s), and intraprocedural pharmacological thrombolytic injection(s); with transluminal balloon angioplasty, peripheral dialysis segment, including all imaging and radiological supervision and interpretation necessary to perform the angioplasty	\$465	(\$1)	-0.12%	\$2,407	\$64	2.72%
36906	Percutaneous transluminal mechanical thrombectomy and/or infusion for thrombolysis, dialysis circuit, any method, including all imaging and radiological supervision and interpretation, diagnostic angiography, fluoroscopic guidance, catheter placement(s), and intraprocedural pharmacological thrombolytic injection(s); with transcatheter placement of an 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	\$537	(\$1)	-0.23%	\$6,723	(\$225)	-3.24%
36907	Transluminal balloon angioplasty, central dialysis segment, performed through dialysis circuit, including all imaging and radiological supervision and interpretation required to perform the angioplasty (List separately in addition to code for primary procedure)	\$154	(\$1)	-0.36%	\$736	(\$34)	-4.38%
36908	Transcatheter placement of an intravascular stent(s), central dialysis segment, performed through dialysis circuit, including all imaging radiological supervision and interpretation required to perform the stenting, and all angioplasty in the central dialysis segment (List separately in addition to code for primary procedure)	\$217	(\$2)	-1.04%	\$2,451	(\$312)	-11.28%

36909	Dialysis circuit permanent vascular embolization or occlusion (including main circuit or any accessory veins), endovascular, including all imaging and radiological supervision and interpretation necessary to complete the intervention (List separately in addition to code for primary procedure)	\$210	(\$7)	-3.21%	\$1,981	(\$27)	-1.33%
Iliac Artery Revascula	rization						
37220	Revascularization, endovascular, open or percutaneous, iliac artery, unilateral, initial vessel; with transluminal angioplasty	\$421	(\$1)	-0.23%	\$3,019	(\$103)	-3.30%
37221	Revascularization, endovascular, open or percutaneous, iliac artery, unilateral, initial vessel; with transluminal stent placement(s), includes angioplasty within same vessel, when performed	\$520	(\$1)	-0.10%	\$4,284	(\$347)	-7.49%
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)	\$195	(\$1)	-0.44%	\$816	(\$61)	-7.00%
37223	Revascularization, endovascular, open or percutaneous, iliac artery, 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)	\$223	(\$1)	-0.37%	\$2,256	(\$338)	-13.04%
Femoral/Popliteal Art	tery Revascularization	l		L			
37224	Revascularization, endovascular, open or percutaneous, femoral/popliteal artery(s), unilateral; with transluminal angioplasty	\$466	(\$1)	-0.12%	\$3,628	(\$162)	-4.27%
37225	Revascularization, endovascular, open or percutaneous, femoral/popliteal artery(s), unilateral; with atherectomy, includes angioplasty within same vessel, when performed	\$635	(\$2)	-0.34%	\$12,444	\$1,313	11.80%
37226	Revascularization, endovascular, open or percutaneous, femoral/popliteal artery(s), unilateral; with transluminal stent placement(s), includes angioplasty within the same vessel, when performed	\$547	(\$2)	-0.35%	\$10,793	\$1,693	18.61%
37227	Revascularization, endovascular, open or percutaneous, femoral/popliteal artery(s), unilateral; with transluminal stent placement(s) and atherectomy, includes angioplasty within the same vessel, when performed	\$763	(\$2)	-0.31%	\$16,033	\$972	6.45%
Tibeal / Peroneal Arte	ery Revascularization						
37228	Revascularization, endovascular, open or percutaneous, tibeal\peroneal artery, unilateral, initial vessel; with transluminal angioplasty	\$570	(\$2)	-0.33%	\$5,260	(\$165)	-3.04%
37229	Revascularization, endovascular, open or percutaneous, tibeal\peroneal artery, unilateral, initial vessel; with atherectomy, includes angioplasty within the same vessel, when performed	\$741	(\$1)	-0.18%	\$12,451	\$1,475	13.44%
37230	Revascularization, endovascular, open or percutaneous, tibeal\peroneal artery, unilateral, initial vessel; with transluminal stent placement(s), includes angioplasty within the same vessel, when performed	\$735	\$0	0.01%	\$10,600	\$2,211	26.36%

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37231	Revascularization, endovascular, open or percutaneous, tibeal\peroneal artery, unilateral, initial vessel; with transluminal stent placement(s) and atherectomy, includes angioplasty within the same vessel, when performed	\$799	\$1	0.06%	\$15,230	\$1,625	11.94%
37232	Revascularization, endovascular, open or percutaneous, tibeal\peroneal artery, unilateral, each additional vessel; with transluminal angioplasty (List separately in addition to code fore primary procedure)	\$211	(\$1)	-0.57%	\$1,122	(\$88)	-7.30%
37233	Revascularization, endovascular, open or percutaneous, tibeal\peroneal artery, unilateral, each additional vessel; with atherectomy, includes angioplasty within the same vessel, when performed (List separately in addition to code fore primary procedure)	\$343	(\$2)	-0.62%	\$1,367	(\$98)	-6.66%
37234	Revascularization, endovascular, open or percutaneous, tibeal\peroneal artery, unilateral, each additional vessel; with transluminal stent placement(s), includes angioplasty within the same vessel, when performed (List separately in addition to code fore primary procedure)	\$300	(\$0)	-0.01%	\$3,955	(\$14)	-0.34%
37235	Revascularization, endovascular, open or percutaneous, tibeal\peroneal artery, unilateral, each additional vessel; with transluminal stent placement(s) and atherectomy, includes angioplasty within the same vessel, when performed (List separately in addition to code fore primary procedure)	\$421	\$0	0.11%	\$4,291	\$97	2.31%
Vascular Stent							
37236	Transcatheter placement of an intravascular stent(s) (except lower extremity, 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	\$466	(\$2)	-0.35%	\$3,662	(\$261)	-6.65%
37237	Transcatheter placement of an intravascular stent(s) (except lower extremity, 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; each additional artery (List separately in addition to code for primary procedure)	\$223	(\$1)	-0.37%	\$2,175	(\$294)	-11.92%
37238	Transcatheter placement of an intravascular stent(s), open or percutaneous, including radiological supervision and interpretation and including angioplasty within the same vessel, when performed; initial vein	\$318	\$4	1.14%	\$3,699	(\$551)	-12.97%
37239	Transcatheter placement of an intravascular stent(s), open or percutaneous, including radiological supervision and interpretation and including angioplasty within the same vessel, when performed; each additional vein (List separately in addition to code for primary procedure)	\$159	(\$0)	-0.12%	\$1,765	(\$293)	-14.23%
Cothotox Access	BSC currently has no stent approved for use in t	ne veins of	the lower	extremities			
Catheter Access				ı			
T	Introduction of needle or intracatheter; extremity	\$94					

36160	Introduction of needle or intracatheter, aortic,	\$129	\$0	0.11%	\$527	\$24	4.70%
36200	Introduction of catheter, aorta	\$146	(\$0)	-0.14%	\$585	\$13	2.2%
Catheter Placement				•	•		
36215	Selective catheter placement, arterial system; each first order thoracic or brachiocephalic branch, within a vascular family	\$222	(\$0)	-0.21%	\$1,060	\$29	2.77%
36216	Selective catheter placement, arterial system; initial second order thoracic or brachiocephalic branch, within a vascular family	\$286	(\$0)	-0.14%	\$1,142	\$24	2.11%
36217	Selective catheter placement, arterial system; initial third order or more selective thoracic or brachiocephalic branch, within a vascular family	\$343	\$1	0.32%	\$1,914	\$15	0.81%
36218	Selective catheter placement, arterial system; 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)	\$54	\$0	0.11%	\$248	(\$10)	-3.80%
36245	Selective catheter placement, arterial system; each first order abdominal, pelvic, or lower extremity artery branch, within a vascular family	\$248	(\$1)	-0.47%	\$1,349	\$12	0.89%
36246	Selective catheter placement, arterial system; initial second order abdominal, pelvic, or lower extremity artery branch, within a vascular family	\$266	(\$0)	-0.16%	\$858	\$18	2.17%
36247	Selective catheter placement, arterial system; initial third order or more selective abdominal, pelvic, or lower extremity artery branch, within a vascular family	\$316	(\$1)	-0.23%	\$1,535	\$5	0.32%
36248	Selective catheter placement, arterial system; 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	\$51	\$0	0.11%	\$148	(\$8)	-4.98%
Carotid Artery Stenting							
37215	Transcatheter placement of intravascular stent(s), cervical carotid artery, percutaneous; with distal embolic protection	\$1,053	\$2	0.21%	NA	NA	NA
37216	Transcatheter placement of intravascular stent(s), cervical carotid artery, percutaneous; without distal embolic protection	\$0	(\$1,055)	-100.00%	NA	NA	NA
Vena Cava Filters							
37191	Insertion of inferior vena cava filter, endovascular approach including vascular access, vessel selection and radiological supervision and interpretation (including ultrasound) when performed.	\$234	(\$1)	-0.50%	\$2,521	(\$97)	-3.70%
37192	Repositioning of inferior vena cava filter, endovascular approach including vascular access, vessel selection and radiological supervision and interpretation (including ultrasound) when performed.	\$360	(\$8)	-2.15%	\$1,351	(\$30)	-2.16%
37193	Retrieval (removal) of inferior vena cava filter, endovascular approach including vascular access, vessel selection and radiological supervision and interpretation (including ultrasound) when performed.	\$366	(\$1)	-0.28%	\$1,588	\$26	1.63%

Thrombectomy							
37184	Primary percutaneous transluminal mechanical thrombectomy, noncoronary, arterial or arterial bypass graft, including fluoroscopic guidance and intraprocedural pharmacological thrombolytic injection(s); initial vessel	\$467	(\$4)	-0.81%	\$2,171	(\$90)	-3.97%
37185	Primary percutaneous transluminal mechanical thrombectomy, noncoronary, arterial or arterial bypass graft, including fluoroscopic guidance and intraprocedural pharmacological thrombolytic injection(s); second and all subsequent vessel(s) within the same vascular family (List separately in addition to code for primary mechanical thrombectomy procedure	\$175	(\$2)	-0.91%	\$669	(\$50)	-6.96%
37186	Secondary percutaneous transluminal thrombectomy (eg, nonprimary mechanical, snare basket, suction technique), noncoronary, 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)	\$256	(\$1)	-0.45%	\$1,350	(\$11)	-0.79%
37187	Percutaneous transluminal mechanical thrombectomy, vein(s), including intraprocedural pharmacological thrombolytic injections and fluoroscopic guidance	\$411	(\$0)	-0.07%	\$2,002	(\$22)	-1.10%
37188	Percutaneous transluminal mechanical thrombectomy, vein(s), including intraprocedural pharmacological thrombolytic injections and fluoroscopic guidance, repeat treatment on subsequent day during course of thrombolytic therapy	\$289	(\$3)	-1.12%	\$1,684	(\$24)	-1.39%
Thrombolysis	1,						
37211	Transcatheter therapy, arterial infusion for thrombolysis other than coronary, any method, including radiological supervision and interpretation, initial treatment day	\$404	\$0	0.11%	NA	NA	NA
37212	Transcatheter therapy, venous infusion for thrombolysis, any method, including radiological supervision and interpretation, initial treatment day	\$354	\$0	0.01%	NA	NA	NA
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	\$244	(\$1)	-0.33%	NA	NA	NA
37214	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; cessation of thrombolysis including removal of catheter and vessel closure by any method	\$129	\$1	0.39%	NA	NA	NA

Non-Coronary IVUS								
37252		Intravascular ultrasound (noncoronary vessel) during diagnostic evaluation and/or therapeutic intervention; including radiological supervision and interpretation; initial non-coronary vessel (List separately in addition to code for primary procedure)	\$96	(\$0)	-0.27%	\$1,289	(\$108)	-7.75%
37253		Intravascular ultrasound (noncoronary vessel) during diagnostic evaluation and/or therapeutic intervention; including radiological supervision and interpretation; each additional noncoronary vessel (List separately in addition to code for primary procedure)	\$77	(\$0)	-0.36%	\$202	(\$9)	-4.33%
Angiograms								
75710	26	Angiography, extremity, unilateral, radiological	\$88	\$0	0.11%	\$88	\$0	0.11%
75710		supervision and interpretation	NA	NA	NA	\$170	(\$5)	-2.77%
75716	26	Angiography, extremity, bilateral, radiological	\$98	(\$0)	-0.26%	\$98	(\$0)	-0.26%
75716		supervision and interpretation	NA	NA	NA	\$182	(\$17)	-8.76%
75726	26	Angiography, visceral, selective or supraselective	\$56	(\$0)	-0.53%	\$56	(\$0)	-0.53%
75726		(with or without flush aortogram), radiological supervision and interpretation	NA	NA	NA	\$147	(\$5)	-3.21%
75731	26	Angiography, adrenal, unilateral, selective,	\$59	\$0	0.11%	\$59	\$0	0.11%
75731		radiological supervision and interpretation	NA	NA	NA	\$170	(\$5)	-2.77%
75733	26	Angiography, adrenal, bilateral, selective,	\$65	\$0	0.11%	\$65	\$0	0.11%
75733		radiological supervision and interpretation	NA	NA	NA	\$183	(\$5)	-2.57%
75736	26	Angiography, pelvic, selective or supraselective,	\$56	\$0	0.11%	\$56	\$0	0.11%
75736		radiological supervision and interpretation	NA	NA	NA	\$158	(\$5)	-2.99%
Bronchoscopy				1				
31631		Bronchosopy; with placement of tracheal stent(s) (inludes tracheal/bronchial dilation as required)	\$237	(\$0)	-0.04%	NA	NA	NA
Biliary Stenting								
47556		Biliary endoscopy, percutaneous via T-Tube or other tract; with dilation of biliary duct stricture(s) with stent	\$386	\$2	0.48%	NA	NA	NA
Radiological S&I (Bilia	ary st	enting)						
74363	26	Percutaneous transhepatic dilation of biliary duct stricture with or without placement of stent, radiological supervision and interpretation	\$44	\$0	0.94%	\$44	\$0	0.94%
Transhepatic Shunts	(TIPS)			1				
37182		Insertion of transvenous intrahepatic portosystemic shunt(s) (TIPS) (includes venous access, hepatic and portal vein cath, portography with hemodynamic evaluation, intrahepatic tract formation/dilation, stent placement and all associated imaging and guidance and documentation)	\$857	(\$3)	-0.35%	NA	NA	NA
37183		Revision of transvenous intrahepatic portosystemic shunt(s) (TIPS)(includes venous access, hepatic and portal vein cath, portography with hemodynamic evaluation, intrahepatic tract recanulization / dilation, stent placement and all associated imaging and guidance and documentation)	\$392	(\$0)	-0.07%	\$6,140	\$205	3.46%

Embolization							
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	\$463	(\$1)	-0.28%	\$4,950	\$119	2.47%
37242	Vascular embolization or occlusion, inclusive of all radiological supervision and interpretation, intraprocedural roadmapping, and imaging guidance necessary to complete the intervention; arterial, other than hemorrhage or tumor	\$500	(\$3)	-0.54%	\$7,622	\$148	1.98%
37243	Vascular embolization or occlusion, inclusive of all radiological supervision and interpretation, intraprocedural roadmapping, and imaging guidance necessary to complete the intervention; for tumors, organ ischemia, or infarction	\$589	(\$1)	-0.20%	\$9,861	(\$39)	-0.40%
37244	Vascular embolization or occlusion, inclusive of all radiological supervision and interpretation, intraprocedural roadmapping, and imaging guidance necessary to complete the intervention; for arterial or venous hemorrhage or lymphatic extravasation	\$696	(\$1)	-0.20%	\$7,052	\$151	2.18%
Drainage			•	•		•	
47531	Injection procedure for cholangiography, percutaneous, complete diagnostic procedure including imaging guidance (eg, ultrasound and/or fluoroscopy) and all associated radiological supervision and interpretation; existing access	\$74	(\$0)	-0.37%	\$356	\$32	10.01%
47532	Injection procedure for cholangiography, percutaneous, complete diagnostic procedure including imaging guidance (eg, ultrasound and/or fluoroscopy) and all associated radiological supervision and interpretation; new access (eg, percutaneous transhepatic cholangiogram)	\$223	\$0	0.11%	\$837	\$22	2.72%
47533	Placement of biliary drainage catheter, percutaneous, including diagnostic cholangiography when performed, imaging guidance (eg, ultrasound and/or fluoroscopy), and all associated radiological supervision and interpretation; external	\$279	(\$1)	-0.28%	\$1,270	\$10	0.77%
47534	Placement of biliary drainage catheter, percutaneous, including diagnostic cholangiography when performed, imaging guidance (eg, ultrasound and/or fluoroscopy), and all associated radiological supervision and interpretation; internal-external	\$390	(\$0)	-0.08%	\$1,480	(\$26)	-1.71%
47535	Conversion of external biliary drainage catheter to internal-external biliary drainage catheter, percutaneous, including diagnostic cholangiography when performed, imaging guidance (eg, fluoroscopy), and all associated radiological supervision and interpretation	\$207	(\$0)	-0.06%	\$1,025	(\$14)	-1.38%
47536	Exchange of biliary drainage catheter (eg, external, internal-external, or conversion of internal-external to external only), percutaneous, including diagnostic cholangiography when performed, imaging guidance (eg, fluoroscopy), and all associated radiological supervision and interpretation	\$138	(\$1)	-0.41%	\$706	\$1	0.11%

47537	Removal of biliary drainage catheter, percutaneous, requiring fluoroscopic guidance (eg, with concurrent indwelling biliary stents), including diagnostic cholangiography when performed, imaging guidance (eg, fluoroscopy), and all associated radiological supervision and interpretation	\$101	(\$0)	-0.25%	\$415	\$40	10.58%
47538	Placement of stent(s) into a bile duct, percutaneous, including diagnostic cholangiography, imaging guidance (eg, fluoroscopy and/or ultrasound), balloon dilation, catheter exchange(s) and catheter removal(s) when performed, and all associated radiological supervision and interpretation, each stent; existing access	\$248	\$0	0.11%	\$4,390	(\$32)	-0.73%
47539	Placement of stent(s) into a bile duct, percutaneous, including diagnostic cholangiography, imaging guidance (eg, fluoroscopy and/or ultrasound), balloon dilation, catheter exchange(s) and catheter removal(s) when performed, and all associated radiological supervision and interpretation, each stent; new access, without placement of separate biliary drainage catheter	\$448	(\$1)	-0.21%	\$4,869	(\$31)	-0.63%
47540	Placement of stent(s) into a bile duct, percutaneous, including diagnostic cholangiography, imaging guidance (eg, fluoroscopy and/or ultrasound), balloon dilation, catheter exchange(s) and catheter removal(s) when performed, and all associated radiological supervision and interpretation, each stent; new access, with placement of separate biliary drainage catheter (eg, external or internal-external)	\$462	(\$1)	-0.20%	\$4,952	(\$54)	-1.09%
47541	Placement of access through the biliary tree and into small bowel to assist with an endoscopic biliary procedure (eg, rendezvous procedure), percutaneous, including diagnostic cholangiography when performed, imaging guidance (eg, ultrasound and/or fluoroscopy), and all associated radiological supervision and interpretation, new access	\$347	(\$1)	-0.41%	\$1,218	\$18	1.46%
47542	Balloon dilation of biliary duct(s) or of ampulla (sphincteroplasty), percutaneous, including imaging guidance (eg, fluoroscopy), and all associated radiological supervision and interpretation, each duct (List separately in addition to code for primary procedure)	\$142	(\$0)	-0.14%	\$502	\$29	6.13%
47543	Endoluminal biopsy(ies) of biliary tree, percutaneous, any method(s) (eg, brush, forceps, and/or needle), including imaging guidance (eg, fluoroscopy), and all associated radiological supervision and interpretation, single or multiple (List separately in addition to code for primary procedure)	\$151	\$0	0.11%	\$482	(\$6)	-1.15%
47544	Removal of calculi/debris from biliary duct(s) and/or gallbladder, percutaneous, including destruction of calculi by any method (eg, mechanical, electrohydraulic, lithotripsy) when performed, imaging guidance (eg, fluoroscopy), and all associated radiological supervision and interpretation (List separately in addition to code for primary procedure)	\$166	(\$1)	-0.75%	\$1,055	(\$45)	-4.05%

ce Implant Procedure		A	4.0	0.0451			
33206	Insertion of heart pacemaker and atrial electrode	\$474	\$2	0.34%	NA	NA	N
33207	Insertion of heart pacemaker and ventricular electrode	\$503	\$1	0.11%	NA	NA	N
33208	Insertion of heart pacemaker, atrial and ventricular electrodes	\$546	\$1	0.24%	NA	NA	N
33212	Insertion of pulse generator only with existing single lead	\$336	\$1	0.22%	NA	NA	N
33213	Insertion of pulse generator only with existing dual lead	\$351	\$1	0.21%	NA	NA	N
33221	Insertion of pulse generator only with existing mulitple leads	\$376	\$0	0.01%	NA	NA	N
33214	Upgrade of pacemaker system	\$501	\$1	0.18%	NA	NA	N
33215	Reposition pacing-defib lead	\$325	\$0	0.11%	NA	NA	N
33216	Insert lead pace-defib, one	\$388	\$1	0.20%	NA	NA	N
33217	Insert lead pace-defib, dual	\$382	\$2	0.49%	NA	NA	N
33218	Repair of single lead, pacer or ICD	\$405	\$0	0.02%	NA	NA	N
33220	Repair of 2 leads, pacer or ICD	\$408	(\$1)	-0.15%	NA	NA	N
33222	Revise/relocate pocket, pacemaker	\$354	\$1	0.31%	NA	NA	N
33223	Revise pocket, defib	\$428	\$1	0.19%	NA	NA	N
33225	L ventric pacing lead (add-on)	\$493	\$1	0.11%	NA	NA	N
33227	Removal and replacement of pacemaker gen, single lead	\$354	\$1	0.21%	NA	NA	N
33228	Removal and replacement of pacemaker gen, dual lead	\$370	\$0	0.01%	NA	NA	N
33229	Removal and replacement of pacemaker gen, multiple lead	\$392	\$0	0.11%	NA	NA	N
33230	Insert ICD pulse generator with exisitng dual leads	\$400	\$0	0.11%	NA	NA	N
33231	Insert ICD pulse generator with exisitng multiple leads	\$420	\$0	0.11%	NA	NA	N
33233	Removal of pacemaker system gen only	\$241	\$1	0.26%	NA	NA	N
33234	Removal of pacemaker system lead, single	\$508	\$1	0.25%	NA	NA	N
33235	Removal pacemaker electrode, dual lead	\$667	\$1	0.11%	NA	NA	N
33240	Insertion of implantable defibrillator pulse generator only; with existing single lead	\$382	\$0	0.11%	NA	NA	N
33241	Remove pulse generator only	\$225	(\$0)	-0.05%	NA	NA	N
33262	Removal and replacement of defib gen, single lead	\$390	\$1	0.20%	NA	NA	N
33263	Removal and replacement of defib gen, dual lead	\$406	\$0	0.02%	NA	NA	N
33264	Removal and replacement of defib gen, multiple lead	\$424	\$1	0.19%	NA	NA NA	N
33244	Remove eltrd, transven	\$904	\$5	0.51%	NA	NA	N
33249	Eltrd/insert pace-defib	\$961	\$2	0.26%	NA	NA	N
33270	Insertion or replacement of permanent S-ICD system, with subcutaneous electrode, including DFT, when performed	\$594	(\$1)	-0.13%	NA	NA	N
33271	Insertion of S-ICD electrode	\$478	(\$0)	-0.04%	NA	NA	N
33272	Removal of S-ICD electrode	\$363	(\$2)	-0.58%	NA	NA	N
33273	Repositioning of previously implanted S-ICD electrode	\$421	\$0	0.02%	NA	NA	N
chman [™] Left Δtrial Δ	ppendage Closure (LAAC) Procedure		1	1			
33340	Percutaneous transcather closure of the left atrial appendage with implant, including fluorscopy, transseptal puncture, catheter placement(s) left atrial angiography, left atrial appendage angiography, radiological supervision and	\$829	(\$2)	-0.24%	NA	NA	N

Device Evaluation								
93641	26	Electrophysiology evaluation -ICD system	\$328	\$1	0.22%	\$328	\$1	0.22%
93260		S-ICD Programming device evaluation (in person)	NA	NA	NA	\$70	\$3	4.44%
93260	TC		NA	NA	NA	\$26	\$3	14.64%
93260	26		\$44	(\$0)	-0.70%	\$44	(\$0)	-0.70%
93261		S-ICD Interrogation device evaluation (in person)	NA	NA	NA	\$64	\$3	5.47%
93261	TC		NA	NA	NA	\$26	\$4	16.52%
93261	26		\$38	(\$0)	-0.83%	\$38	(\$0)	-0.83%
93288		PM Interrogation in person all lead configurations	NA	NA	NA	\$45	\$6	14.80%
93288	TC		NA	NA	NA	\$23	\$6	33.48%
93288	26		\$22	\$0	0.11%	\$22	\$0	0.11%
93279			NA	NA	NA	\$56	\$6	11.55%
93279	TC	PM Programming eval 1 lead	NA	NA	NA	\$23	\$6	33.48%
93279	26	Five Frogramming Eval I lead	\$33	\$0	0.11%	\$33	\$0	0.11%
	20			·				
93280		PM Programming eval 2 lead	NA	NA	NA	\$66	\$7	11.03%
93280	TC		NA	NA	NA	\$27	\$7	32.29%
93280	26		\$39	\$0	0.11%	\$39	\$0	0.11%
93281			NA	NA	NA	\$71	\$7	10.18%
93281	TC	PM Programming eval 3 lead	NA	NA	NA	\$27	\$7	31.72%
93281	26		\$44	\$0	0.11%	\$44	\$0	0.11%
93289			NA	NA	NA	\$61	\$6	10.51%
93289	TC	ICD interrogation in person all lead configurations	NA	NA	NA	\$23	\$6	33.48%
93289	26		\$38	\$0	0.11%	\$38	\$0	0.11%
93282			NA	NA	NA	\$68	\$6	9.95%
93282	TC	ICD Programming eval 1 lead	NA	NA	NA	\$25	\$6	32.84%
93282	26		\$44	\$0	0.11%	\$44	\$0	0.11%
93283			NA	NA	NA	\$86	\$7	8.26%
93283	TC	ICD Programming eval 2 lead	NA	NA	NA	\$27	\$7	31.72%
93283	26		\$59	\$0	0.11%	\$59	\$0	0.11%
93284			NA	NA	NA	\$93	\$7	7.59%
93284	тс	ICD Programming eval 3 lead	NA	NA	NA	\$29	\$7	29.17%
93284	26	105 1 10g. annining eval 3 lead	\$65	\$0	0.11%	\$65	\$0	0.11%
93291			NA	NA	NA	\$39	\$5	15.18%
93291	TC	ILR Innterrogation in person	NA	NA	NA	\$20	\$5	34.29%
93291	26	,	\$19	\$0	0.11%	\$19	\$0	0.11%
93285			NA	NA	NA	\$49	\$6	13.35%
93285	TC	ILR Programming eval	NA	NA	NA	\$22	\$6	34.93%
93285	26		\$27	\$0	0.11%	\$27	\$0	0.11%
93290	25		NA	NA	NA	\$43	\$5	14.55%
93290	TC	ICM Interrogation in person Wearable defib Interrogation in person	NA	NA NA	NA NA	\$21	\$5	35.86%
93290	26		\$22	\$0	0.11%	\$22	\$0	0.11%
93292	20		NA	NA	0.11% NA	\$41	\$4	9.74%
93292	TC		NA NA	NA NA	NA NA	\$19	\$4	23.39%
93292	26		\$22	\$0	0.11%	\$19	\$4	0.11%
	20		NA			\$36	\$5	
93286	T.C.	PM Peri-px eval and programming ICD Peri-px eval and programming		NA NA	NA NA			16.60%
93286	TC		NA ¢15	NA ćo	NA 0.119/	\$20	\$5 \$0	33.48%
93286	26		\$15 NA	\$0 NA	0.11%	\$15	\$0 ¢5	0.11%
93287			NA	NA NA	NA NA	\$44	\$5 ¢5	13.09%
93287	TC		NA	NA 60	NA 0.440/	\$20	\$5	33.48%
93287	26		\$24	\$0	0.11%	\$24	\$0	0.11%
93293	ļ .	TTM rhythm strip pacemaker eval	NA	NA	NA	\$53	(\$1)	-1.88%
93293	TC		NA	NA	NA	\$38	(\$1)	-2.67%
93293	26		\$15	\$0	0.11%	\$15	\$0	0.11%
93228		Wearable defib mobile telemetry w/phy r&I w/report	\$27	\$0	0.11%	\$27	\$0	0.11%
93294		PM Remote Interrogation 90 days all lead config	\$31	\$0	0.11%	\$31	\$0	0.11%

93295		ICD Remote interrogation 90 days all lead config	\$45	(\$11)	-19.14%	\$45	(\$11)	-19.14%
93296		PE- Remote data aquisition PM or ICD	NA	NA	NA	\$26	(\$1)	-3.89%
93297		ICM Remote interrogation eval 30 days	\$27	\$0	0.11%	\$27	\$0	0.11%
93298		ILR Remote interrogation eval 30 days	\$27	(\$0)	-1.21%	\$27	(\$0)	-1.21%
93299		ICM and ILR Remote interr 30 days, tech	\$0	\$0	NA	Contractor Priced		
Electrophysiology	Procedu	res	1	1		1		_
93462		L hrt cath trnsptl puncture	\$220	\$0	0.11%	\$220	\$0	0.11%
93609	26	Intraventricular and/or intra-atrial mapping of tachycardia site(s) with catheter manipulation to record from multiple sites to identify origin of tachycardia (add on)	\$292	\$1	0.23%	\$292	\$1	0.23%
93613		Intracardiac electrophysiologic 3-dimensional mapping (add on)	\$311	(\$27)	-7.89%	NA	NA	NA
93619	26	Comprehensive electrophysiologic evaluation with right atrial pacing and recording, right ventricular pacing and recording, HIS bundle recording, including insertion and repositioning of multiple electrode catheters, without induction or attempted induction of arrhythmia	\$410	\$0	0.11%	\$410	\$0	0.11%
93620	26	Comprehensive electrophysiologic evaluation including insertion and repositioning of multiple electrode catheters with induction or attempted induction of arrhythmia; with right atrial pacing and recording, right ventricular pacing and recording, His bundle recording	\$659	\$1	0.22%	\$659	\$1	0.22%
93621	26	with left atrial pacing and recording from coronary sinus or left atrium (add on)	\$122	(\$1)	-0.48%	\$122	(\$1)	-0.48%
93622	26	with left ventricular pacing and recording (add on)	\$181	\$1	0.31%	\$181	\$1	0.31%
93623	26	Programmed stimulation and pacing after intravenous drug infusion (add on)	\$166	(\$0)	-0.11%	\$166	(\$0)	-0.11%
93644		EP Evaluation of S-ICD	NA	NA	NA	\$204	(\$6)	-2.65%
93650		Intracardiac catheter ablation of atrioventricular node function, atrioventricular conduction for creation of complete heart block, with or without temporary pacemaker placement	\$620	\$1	0.11%	NA	NA	NA
93653		Comprehensive electrophysiologic evaluation including insertion and repositioning of multiple electrode catheters with induction or attempted induction of an arrhythmia with right atrial pacing and recording, right ventricular pacing and recording, HIS recording, with intracardiac catheter ablation of arrhythmogenic focus; with treatment of supraventiricular tachycardia by ablation of fast or slow atrioventricular pathyway, accessory atrioventricular connection, cavotricuspid isthmus or other single atrial focus or source of atrial re-entry.	\$878	\$2	0.23%	NA	NA	NA
93654		with treatment of ventricular tachycardia or focus of ventricular ectopy including intracardiac electrophysiologic 3D mapping, when performed, and left ventricular pacing and recording, when performed	\$1,175	\$2	0.14%	NA	NA	NA
93655		Intracardiac catheter ablation of a discrete mechanism of arrhythmia which is distinct from the primary ablated mechanism, including repeat diagnostic maneuvers, to treat a spontaneous or induced arrhythmia (add on)	\$447	\$0	0.11%	NA	NA	NA

93656		Comprehensive electrophysiologic evaluation including transseptal catheterizations, insertion and repositioning of multiple electrode catheters with induction or attempted induction of an arrhythmia with atrial recording and pacing, when possible, right ventricular pacing and recording, HIS bundle recording with intracardiac catheter ablation of arrhytmogenic focus, with treatment of atrial fibrillation by ablation by pulmonary vein isolation	\$1,178	\$2	0.17%	NA	NA	NA
93657		Additional linear or focal intracardiac catheter ablation of the left or right atrium for treatment of atrial fibrillation remaining after completion of pulmonary vein isolation (add on)	\$446	\$0	0.03%	NA	NA	NA
93662	26	Intracardiac echocardiography during therapeutic/diagnostic intervention, including imaging supervision and interpretation (add on)	\$147	(\$0)	-0.14%	\$147	(\$0)	-0.14%

BSC currently has no FDA-approved ablation catheters for the treatment of atrial fibrillation

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