

SJH Procedures - Cardiac/Open Heart Service

New Name	Old Name	CPT Code	Service
ABLATION, CARDIAC, CONVERGENT		*33265 Endoscopy, surgical; operative tissue ablation and reconstruction of atria, limited (eg, modified maze procedure), without cardiopulmonary bypass	Cardiac/Open Heart
		*33266 Endoscopy, surgical; operative tissue ablation and reconstruction of atria, extensive (eg, maze procedure), without cardiopulmonary bypass	
ANGIOGRAM, CORONARY SINUS	ANGIOGRAM CORONARY SINUS	93799 Unlisted cardiovascular service or procedure	Cardiac, Cardiac/Open Heart, Cardiovascular
ANGIOGRAM, VASCULAR BYPASS GRAFT	BYPASS GRAFT STUDY	93455 Catheter placement in coronary artery(s) for 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, ven	Cardiac, Cardiac/Open Heart, Cardiovascular
		93457 Catheter placement in coronary artery(s) for 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, ven	
		93459 Catheter placement in coronary artery(s) for coronary angiography, including intraprocedural injection(s) for coronary angiography, imaging supervision and interpretation; with left heart catheterization including intraprocedural injection(s) for left ven	
		93461 Catheter placement in coronary artery(s) for coronary angiography, including intraprocedural injection(s) for coronary angiography, imaging supervision and interpretation; with right and left heart catheterization including intraprocedural injection(s) fo	
ANGIOGRAPHY, CORONARY, WITH HEART VALVE ASSESSMENT	ANGIOGRAPHY VALVE ASSESSMENT	93454 Catheter placement in coronary artery(s) for coronary angiography, including intraprocedural injection(s) for coronary angiography, imaging supervision and interpretation;	Cardiac, Cardiac/Open Heart, Cardiovascular
ANGIOGRAPHY, PULMONARY, UNILATERAL, SELECTIVE	ANGIOGRAPHY PULMONARY UNILATERAL	36014 Selective catheter placement, left or right pulmonary artery	Cardiac, Cardiac/Open Heart, Cardiovascular
		36015 Selective catheter placement, segmental or subsegmental pulmonary artery	
		75741 Angiography, pulmonary, unilateral, selective, radiological supervision and interpretation	
ASSESSMENT, IMPLANTABLE CARDIOVERTER DEFIBRILLATOR (ICD)	ICD CHECK	93640 Electrophysiologic evaluation of single or dual chamber pacing cardioverter-defibrillator leads including defibrillation threshold evaluation (induction of arrhythmia, evaluation of sensing and pacing for arrhythmia termination) at time of initial implant	Cardiac, Cardiac/Open Heart, Cardiovascular
		93641 Electrophysiologic evaluation of single or dual chamber pacing cardioverter-defibrillator leads including defibrillation threshold evaluation (induction of arrhythmia, evaluation of sensing and pacing for arrhythmia termination) at time of initial implant	

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ASSESSMENT, IMPLANTABLE CARDIOVERTER DEFIBRILLATOR (ICD)	ICD CHECK	93642 Electrophysiologic evaluation of single or dual chamber transvenous pacing cardioverter-defibrillator (includes defibrillation threshold evaluation, induction of arrhythmia, evaluation of sensing and pacing for arrhythmia termination, and programming or r	Cardiac, Cardiac/Open Heart, Cardiovascular
		93644 Electrophysiologic evaluation of subcutaneous implantable defibrillator (includes defibrillation threshold evaluation, induction of arrhythmia, evaluation of sensing for arrhythmia termination, and programming or reprogramming of sensing or therapeutic pa	
CARDIOVERSION	CARDIOVERSION - INVASIVE CARDIOLOGY	92960 Cardioversion, elective, electrical conversion of arrhythmia; external	Cardiac, Cardiac/Open Heart, Cardiovascular
		92961 Cardioversion, elective, electrical conversion of arrhythmia; internal (separate procedure)	
CLIPPING, ATRIAL APPENDAGE, LEFT THORACOTOMY APPROACH	THORACOTOMY LEFT W APPLICATION OF ATRIAL APPENDAGE CLIP	33999 Unlisted procedure, cardiac surgery	Cardiac/Open Heart
CORONARY ARTERY BYPASS GRAFT (CABG), REPEAT, WITH ENDOSCOPIC VASCULAR GRAFT PROCUREMENT	CORONARY GRAFTS REDO W ENDOSCOPIC HARVEST	*33510 Coronary artery bypass, vein only; single coronary venous graft	Cardiac/Open Heart
		*33511 Coronary artery bypass, vein only; 2 coronary venous grafts	
		*33512 Coronary artery bypass, vein only; 3 coronary venous grafts	
		*33513 Coronary artery bypass, vein only; 4 coronary venous grafts	
		*33514 Coronary artery bypass, vein only; 5 coronary venous grafts	
		*33516 Coronary artery bypass, vein only; 6 or more coronary venous grafts	
		*33517 Coronary artery bypass, using venous graft(s) and arterial graft(s); single vein graft (List separately in addition to code for primary procedure)	
		*33518 Coronary artery bypass, using venous graft(s) and arterial graft(s); 2 venous grafts (List separately in addition to code for primary procedure)	
		*33519 Coronary artery bypass, using venous graft(s) and arterial graft(s); 3 venous grafts (List separately in addition to code for primary procedure)	
		*33521 Coronary artery bypass, using venous graft(s) and arterial graft(s); 4 venous grafts (List separately in addition to code for primary procedure)	
		*33522 Coronary artery bypass, using venous graft(s) and arterial graft(s); 5 venous grafts (List separately in addition to code for primary procedure)	
		*33523 Coronary artery bypass, using venous graft(s) and arterial graft(s); 6 or more venous grafts (List separately in addition to code for primary procedure)	
		*33530 Reoperation, coronary artery bypass procedure or valve procedure, more than 1 month after original operation (List separately in addition to code for primary procedure)	
		*33533 Coronary artery bypass, using arterial graft(s); single arterial graft	
*33534 Coronary artery bypass, using arterial graft(s); 2 coronary arterial grafts			

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CORONARY ARTERY BYPASS GRAFT (CABG), REPEAT, WITH ENDOSCOPIC VASCULAR GRAFT PROCUREMENT	CORONARY GRAFTS REDO W ENDOSCOPIC HARVEST	*33535 Coronary artery bypass, using arterial graft(s); 3 coronary arterial grafts	Cardiac/Open Heart
		*33536 Coronary artery bypass, using arterial graft(s); 4 or more coronary arterial grafts	
CORONARY ARTERY BYPASS GRAFT (CABG), WITH AORTIC VALVE REPLACEMENT AND MITRAL VALVE REPAIR OR REPLACEMENT	CORONARY GRAFTS REPLACE AORTIC+REPAIR/REPLACE MITRAL VALVES	*33405 Replacement, aortic valve, open, with cardiopulmonary bypass; with prosthetic valve other than homograft or stentless valve	Cardiac/Open Heart
		*33406 Replacement, aortic valve, open, with cardiopulmonary bypass; with allograft valve (freehand)	
		*33410 Replacement, aortic valve, open, with cardiopulmonary bypass; with stentless tissue valve	
		*33411 Replacement, aortic valve; with aortic annulus enlargement, noncoronary sinus	
		*33412 Replacement, aortic valve; with transventricular aortic annulus enlargement (Konno procedure)	
		*33425 Valvuloplasty, mitral valve, with cardiopulmonary bypass;	
		*33426 Valvuloplasty, mitral valve, with cardiopulmonary bypass; with prosthetic ring	
		*33427 Valvuloplasty, mitral valve, with cardiopulmonary bypass; radical reconstruction, with or without ring	
		*33430 Replacement, mitral valve, with cardiopulmonary bypass	
		*33440 Replacement, aortic valve; by translocation of autologous pulmonary valve and transventricular aortic annulus enlargement of the left ventricular outflow tract with valved conduit replacement of pulmonary valve (Ross-Konno procedure)	
		*33510 Coronary artery bypass, vein only; single coronary venous graft	
		*33511 Coronary artery bypass, vein only; 2 coronary venous grafts	
		*33512 Coronary artery bypass, vein only; 3 coronary venous grafts	
		*33513 Coronary artery bypass, vein only; 4 coronary venous grafts	
		*33514 Coronary artery bypass, vein only; 5 coronary venous grafts	
		*33516 Coronary artery bypass, vein only; 6 or more coronary venous grafts	
		*33533 Coronary artery bypass, using arterial graft(s); single arterial graft	
		*33534 Coronary artery bypass, using arterial graft(s); 2 coronary arterial grafts	
		*33535 Coronary artery bypass, using arterial graft(s); 3 coronary arterial grafts	
		*33536 Coronary artery bypass, using arterial graft(s); 4 or more coronary arterial grafts	
CORONARY ARTERY BYPASS GRAFT (CABG), WITH ENDOSCOPIC VESSEL PROCUREMENT AND AORTIC VALVE REPLACEMENT	CORONARY GRAFTS W ENDOSCOPIC HARVEST REPLACE AORTIC VALVE	*33405 Replacement, aortic valve, open, with cardiopulmonary bypass; with prosthetic valve other than homograft or stentless valve	Cardiac/Open Heart
		*33406 Replacement, aortic valve, open, with cardiopulmonary bypass; with allograft valve (freehand)	

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CORONARY ARTERY BYPASS GRAFT (CABG), WITH ENDOSCOPIC VESSEL PROCUREMENT AND AORTIC VALVE REPLACEMENT	CORONARY GRAFTS W ENDOSCOPIC HARVEST REPLACE AORTIC VALVE	*33410 Replacement, aortic valve, open, with cardiopulmonary bypass; with stentless tissue valve	Cardiac/Open Heart
		*33510 Coronary artery bypass, vein only; single coronary venous graft	
		35572 Harvest of femoropopliteal vein, 1 segment, for vascular reconstruction procedure (eg, aortic, vena caval, coronary, peripheral artery) (List separately in addition to code for primary procedure)	
CORONARY ARTERY BYPASS GRAFT (CABG), WITH ENDOSCOPIC VESSEL PROCUREMENT AND MITRAL VALVE REPAIR OR REPLACEMENT	CORONARY GRAFTWENDOSCOPE HARVEST REPAIR/REPLACE MITRAL VALVE	*33425 Valvuloplasty, mitral valve, with cardiopulmonary bypass;	Cardiac/Open Heart
		*33426 Valvuloplasty, mitral valve, with cardiopulmonary bypass; with prosthetic ring	
		*33427 Valvuloplasty, mitral valve, with cardiopulmonary bypass; radical reconstruction, with or without ring	
		*33430 Replacement, mitral valve, with cardiopulmonary bypass	
		33508 Endoscopy, surgical, including video-assisted harvest of vein(s) for coronary artery bypass procedure (List separately in addition to code for primary procedure)	
		*33510 Coronary artery bypass, vein only; single coronary venous graft	
		*33511 Coronary artery bypass, vein only; 2 coronary venous grafts	
		*33512 Coronary artery bypass, vein only; 3 coronary venous grafts	
		*33513 Coronary artery bypass, vein only; 4 coronary venous grafts	
		*33514 Coronary artery bypass, vein only; 5 coronary venous grafts	
		*33516 Coronary artery bypass, vein only; 6 or more coronary venous grafts	
		*33533 Coronary artery bypass, using arterial graft(s); single arterial graft	
		*33534 Coronary artery bypass, using arterial graft(s); 2 coronary arterial grafts	
		*33535 Coronary artery bypass, using arterial graft(s); 3 coronary arterial grafts	
*33536 Coronary artery bypass, using arterial graft(s); 4 or more coronary arterial grafts			
CORONARY ARTERY BYPASS GRAFT (CABG), WITH ENDOSCOPIC VESSEL PROCUREMENT AND MITRAL VALVE REPLACEMENT	CORONARY GRAFTS W ENDOSCOPIC HARVEST REPLACE MITRAL VALVE	*33430 Replacement, mitral valve, with cardiopulmonary bypass	Cardiac/Open Heart
		33508 Endoscopy, surgical, including video-assisted harvest of vein(s) for coronary artery bypass procedure (List separately in addition to code for primary procedure)	
		*33510 Coronary artery bypass, vein only; single coronary venous graft	
CORONARY ARTERY BYPASS GRAFT (CABG), WITH ENDOSCOPIC VESSEL PROCUREMENT AND TRICUSPID VALVE REPAIR	CORONARY GRAFTS W ENDOSCOPIC HARVEST WREPAIR TRICUSPID VALVE	*33463 Valvuloplasty, tricuspid valve; without ring insertion	Cardiac/Open Heart
		*33464 Valvuloplasty, tricuspid valve; with ring insertion	
		33508 Endoscopy, surgical, including video-assisted harvest of vein(s) for coronary artery bypass procedure (List separately in addition to code for primary procedure)	
		*33510 Coronary artery bypass, vein only; single coronary venous graft	
		*33511 Coronary artery bypass, vein only; 2 coronary venous grafts	
*33512 Coronary artery bypass, vein only; 3 coronary venous grafts			

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CORONARY ARTERY BYPASS GRAFT (CABG), WITH ENDOSCOPIC VESSEL PROCUREMENT AND TRICUSPID VALVE REPAIR	CORONARY GRAFTS W ENDOSCOPIC HARVEST WREPAIR TRICUSPID VALVE	*33513 Coronary artery bypass, vein only; 4 coronary venous grafts	Cardiac/Open Heart
		*33514 Coronary artery bypass, vein only; 5 coronary venous grafts	
		*33516 Coronary artery bypass, vein only; 6 or more coronary venous grafts	
		*33533 Coronary artery bypass, using arterial graft(s); single arterial graft	
		*33534 Coronary artery bypass, using arterial graft(s); 2 coronary arterial grafts	
		*33535 Coronary artery bypass, using arterial graft(s); 3 coronary arterial grafts	
		*33536 Coronary artery bypass, using arterial graft(s); 4 or more coronary arterial grafts	
CORONARY ARTERY BYPASS GRAFT (CABG), WITH ENDOSCOPIC VESSEL PROCUREMENT USING LESSER SAPHENOUS VEIN		33508 Endoscopy, surgical, including video-assisted harvest of vein(s) for coronary artery bypass procedure (List separately in addition to code for primary procedure)	Cardiac/Open Heart
		*33510 Coronary artery bypass, vein only; single coronary venous graft	
		*33511 Coronary artery bypass, vein only; 2 coronary venous grafts	
		*33512 Coronary artery bypass, vein only; 3 coronary venous grafts	
		*33513 Coronary artery bypass, vein only; 4 coronary venous grafts	
		*33514 Coronary artery bypass, vein only; 5 coronary venous grafts	
		*33516 Coronary artery bypass, vein only; 6 or more coronary venous grafts	
		*33517 Coronary artery bypass, using venous graft(s) and arterial graft(s); single vein graft (List separately in addition to code for primary procedure)	
		*33518 Coronary artery bypass, using venous graft(s) and arterial graft(s); 2 venous grafts (List separately in addition to code for primary procedure)	
		*33519 Coronary artery bypass, using venous graft(s) and arterial graft(s); 3 venous grafts (List separately in addition to code for primary procedure)	
		*33521 Coronary artery bypass, using venous graft(s) and arterial graft(s); 4 venous grafts (List separately in addition to code for primary procedure)	
		*33522 Coronary artery bypass, using venous graft(s) and arterial graft(s); 5 venous grafts (List separately in addition to code for primary procedure)	
		*33523 Coronary artery bypass, using venous graft(s) and arterial graft(s); 6 or more venous grafts (List separately in addition to code for primary procedure)	
		*33533 Coronary artery bypass, using arterial graft(s); single arterial graft	
		*33534 Coronary artery bypass, using arterial graft(s); 2 coronary arterial grafts	
*33535 Coronary artery bypass, using arterial graft(s); 3 coronary arterial grafts			

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CORONARY ARTERY BYPASS GRAFT (CABG), WITH ENDOSCOPIC VESSEL PROCUREMENT USING LESSER SAPHENOUS VEIN		*33536 Coronary artery bypass, using arterial graft(s); 4 or more coronary arterial grafts	Cardiac/Open Heart
CORONARY ARTERY BYPASS GRAFT (CABG), WITH ENDOSCOPIC VESSEL PROCUREMENT, WITHOUT CARDIOPULMONARY BYPASS	CORONARY GRAFTS OFF PUMP W ENDOSCOPIC HARVEST	33508 Endoscopy, surgical, including video-assisted harvest of vein(s) for coronary artery bypass procedure (List separately in addition to code for primary procedure)	Cardiac/Open Heart
		*33510 Coronary artery bypass, vein only; single coronary venous graft	
CORONARY ARTERY BYPASS GRAFT (CABG), WITH ENDOSCOPIC VESSEL PROCUREMENT	CORONARY GRAFTS W ENDOSCOPIC HARVEST	33508 Endoscopy, surgical, including video-assisted harvest of vein(s) for coronary artery bypass procedure (List separately in addition to code for primary procedure)	Cardiac/Open Heart
		*33510 Coronary artery bypass, vein only; single coronary venous graft	
		*33511 Coronary artery bypass, vein only; 2 coronary venous grafts	
		*33512 Coronary artery bypass, vein only; 3 coronary venous grafts	
		*33513 Coronary artery bypass, vein only; 4 coronary venous grafts	
		*33514 Coronary artery bypass, vein only; 5 coronary venous grafts	
		*33516 Coronary artery bypass, vein only; 6 or more coronary venous grafts	
		*33517 Coronary artery bypass, using venous graft(s) and arterial graft(s); single vein graft (List separately in addition to code for primary procedure)	
		*33518 Coronary artery bypass, using venous graft(s) and arterial graft(s); 2 venous grafts (List separately in addition to code for primary procedure)	
		*33519 Coronary artery bypass, using venous graft(s) and arterial graft(s); 3 venous grafts (List separately in addition to code for primary procedure)	
		*33521 Coronary artery bypass, using venous graft(s) and arterial graft(s); 4 venous grafts (List separately in addition to code for primary procedure)	
		*33522 Coronary artery bypass, using venous graft(s) and arterial graft(s); 5 venous grafts (List separately in addition to code for primary procedure)	
		*33523 Coronary artery bypass, using venous graft(s) and arterial graft(s); 6 or more venous grafts (List separately in addition to code for primary procedure)	
		*33533 Coronary artery bypass, using arterial graft(s); single arterial graft	
		*33534 Coronary artery bypass, using arterial graft(s); 2 coronary arterial grafts	
		*33535 Coronary artery bypass, using arterial graft(s); 3 coronary arterial grafts	
		*33536 Coronary artery bypass, using arterial graft(s); 4 or more coronary arterial grafts	
CREATION, BYPASS, ARTERIAL, AORTA TO CAROTID OR AORTA TO INNOMINATE		*35526 Bypass graft, with vein; aortosubclavian, aortoinnominate, or aortocarotid	Cardiac/Open Heart
		*35626 Bypass graft, with other than vein; aortosubclavian, aortoinnominate, or aortocarotid	

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CREATION, PERICARDIAL WINDOW, SUBXIPHOID APPROACH, WITH BIOPSY OR DRAINAGE	DRAINAGE/BIOPSY PERICARDIAL WINDOW SUBXYPHOID APPROACH	32604 Thoracoscopy, diagnostic (separate procedure); pericardial sac, with biopsy	Cardiac/Open Heart, Thoracic
		*32659 Thoracoscopy, surgical; with creation of pericardial window or partial resection of pericardial sac for drainage	
		*33025 Creation of pericardial window or partial resection for drainage	
CREATION, PERICARDIAL WINDOW, WITH BIOPSY OR DRAINAGE, AFTER CARDIAC SURGERY	DRAINAGE PERICARDIAL WINDOW POST CARDIAC SURGERY	32604 Thoracoscopy, diagnostic (separate procedure); pericardial sac, with biopsy	Cardiac/Open Heart
		*32659 Thoracoscopy, surgical; with creation of pericardial window or partial resection of pericardial sac for drainage	
		*33025 Creation of pericardial window or partial resection for drainage	
CREATION, TRACHEOSTOMY	TRACHEOSTOMY	31600 Tracheostomy, planned (separate procedure);	Cardiac/Open Heart, General, Thoracic
		31601 Tracheostomy, planned (separate procedure); younger than 2 years	
		31603 Tracheostomy, emergency procedure; transtracheal	
		31605 Tracheostomy, emergency procedure; cricothyroid membrane	
		31610 Tracheostomy, fenestration procedure with skin flaps	
DEBRIDEMENT, WOUND, STERNUM	DEBRIDMENT/EXPLORATION STERNAL WOUND	11042 Debridement, subcutaneous tissue (includes epidermis and dermis, if performed); first 20 sq cm or less	Cardiac/Open Heart
		11043 Debridement, muscle and/or fascia (includes epidermis, dermis, and subcutaneous tissue, if performed); first 20 sq cm or less	
		11044 Debridement, bone (includes epidermis, dermis, subcutaneous tissue, muscle and/or fascia, if performed); first 20 sq cm or less	
		97597 Debridement (eg, high pressure waterjet with/without suction, sharp selective debridement with scissors, scalpel and forceps), open wound, (eg, fibrin, devitalized epidermis and/or dermis, exudate, debris, biofilm), including topical application(s), wound	
DEBRIDEMENT, WOUND	DEBRIDEMENT WOUND	11042 Debridement, subcutaneous tissue (includes epidermis and dermis, if performed); first 20 sq cm or less	Cardiac/Open Heart, Colorectal, General, Gynecology, Neurosurgery, Orthopedics, Pacemakers, Plastics, Podiatry, Thoracic, Urology, Vascular
		11043 Debridement, muscle and/or fascia (includes epidermis, dermis, and subcutaneous tissue, if performed); first 20 sq cm or less	
		11044 Debridement, bone (includes epidermis, dermis, subcutaneous tissue, muscle and/or fascia, if performed); first 20 sq cm or less	
		97597 Debridement (eg, high pressure waterjet with/without suction, sharp selective debridement with scissors, scalpel and forceps), open wound, (eg, fibrin, devitalized epidermis and/or dermis, exudate, debris, biofilm), including topical application(s), wound	
DECORTICATION, LUNG, THORACOSCOPIC	THORACOSCOPY W PULMONARY DECORTICATION	*32651 Thoracoscopy, surgical; with partial pulmonary decortication	Cardiac/Open Heart, Thoracic

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DECORTICATION, LUNG, THORACOSCOPIC	THORACOSCOPY W PULMONARY DECORTICATION	*32652 Thoracoscopy, surgical; with total pulmonary decortication, including intrapleural pneumonolysis	Cardiac/Open Heart, Thoracic
ECHOCARDIOGRAM, TRANSESOPHAGEAL	ECHO TRANSESOPHAGEAL	93312 Echocardiography, transesophageal, real-time with image documentation (2d) (with or without m-mode recording); including probe placement, image acquisition, interpretation and report	Cardiac, Cardiac/Open Heart, Cardiovascular
		93313 Echocardiography, transesophageal, real-time with image documentation (2d) (with or without m-mode recording); placement of transesophageal probe only	
		93314 Echocardiography, transesophageal, real-time with image documentation (2d) (with or without m-mode recording); image acquisition, interpretation and report only	
		93315 Transesophageal echocardiography for congenital cardiac anomalies; including probe placement, image acquisition, interpretation and report	
		93316 Transesophageal echocardiography for congenital cardiac anomalies; placement of transesophageal probe only	
		93317 Transesophageal echocardiography for congenital cardiac anomalies; image acquisition, interpretation and report only	
		93318 Echocardiography, transesophageal (TEE) for monitoring purposes, including probe placement, real time 2-dimensional image acquisition and interpretation leading to ongoing (continuous) assessment of (dynamically changing) cardiac pumping function and to t	
		93355 Echocardiography, transesophageal (tee) for guidance of a transcatheter intracardiac or great vessel(s) structural intervention(s) (eg, TAVR, transcatheter pulmonary valve replacement, mitral valve repair, paravalvular regurgitation repair, left atrial ap	
		EVACUATION, HEMATOMA	
EXCISION, MYXOMA, CARDIAC ATRIUM, MINIMALLY INVASIVE, RIGHT THORACOTOMY APPROACH, USING HEARTPORT TECHNIQUE, WITH INTRAOPERATIVE TRANSESOPHAGEAL ECHOCARDIOGRAPHY (TEE)	THORACOTOMY RIGHT W HEARTPORT W REMOVAL ATRIAL MYXOMA TRANSESOPHAGEAL ECHO	10160 Puncture aspiration of abscess, hematoma, bulla, or cyst	Cardiac/Open Heart
		*33120 Excision of intracardiac tumor, resection with cardiopulmonary bypass	
EXCISION, RIB	RESECTION RIB	93355 Echocardiography, transesophageal (tee) for guidance of a transcatheter intracardiac or great vessel(s) structural intervention(s) (eg, TAVR, transcatheter pulmonary valve replacement, mitral valve repair, paravalvular regurgitation repair, left atrial ap	Cardiac/Open Heart, Thoracic, Vascular
		21600 Excision of rib, partial	
		21615 Excision first and/or cervical rib; 21616 Excision first and/or cervical rib; with sympathectomy	

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INCISION AND DRAINAGE	INCISION AND DRAINAGE		Cardiac/Open Heart, Colorectal, General, Gynecology, Orthopedics, Vascular
INSERTION, CARDIAC ASSIST DEVICE, IMPELLA	INSERTION IMPELLA	*33990 Insertion of ventricular assist device, percutaneous, including radiological supervision and interpretation; left heart, arterial access only	Cardiac, Cardiac/Open Heart, Cardiovascular
INSERTION, CARDIAC PACEMAKER, BIVENTRICULAR	INSERTION OF BIVENTRICULAR PACEMAKER	33206 Insertion of new or replacement of permanent pacemaker with transvenous electrode(s); atrial 33207 Insertion of new or replacement of permanent pacemaker with transvenous electrode(s); ventricular 33208 Insertion of new or replacement of permanent pacemaker with transvenous electrode(s); atrial and ventricular 33212 Insertion of pacemaker pulse generator only; with existing single lead 33213 Insertion of pacemaker pulse generator only; with existing dual leads 33214 Upgrade of implanted pacemaker system, conversion of single chamber system to dual chamber system (includes removal of previously placed pulse generator, testing of existing lead, insertion of new lead, insertion of new pulse generator) 33216 Insertion of a single transvenous electrode, permanent pacemaker or implantable defibrillator 33217 Insertion of 2 transvenous electrodes, permanent pacemaker or implantable defibrillator 33221 Insertion of pacemaker pulse generator only; with existing multiple leads	Cardiac, Cardiac/Open Heart, Cardiovascular, Pacemakers
INSERTION, CARDIAC PACEMAKER, DUAL CHAMBER	IMPLANT PACEMAKER DUAL CHAMBER	33208 Insertion of new or replacement of permanent pacemaker with transvenous electrode(s); atrial and ventricular	Cardiac, Cardiac/Open Heart, Cardiovascular
INSERTION, CARDIAC PACEMAKER, LEADLESS	INSERTION MICRA LEADLESS PPM	33274 Transcatheter insertion or replacement of permanent leadless pacemaker, right ventricular, including imaging guidance (eg, fluoroscopy, venous ultrasound, ventriculography, femoral venography) and device evaluation (eg, interrogation or programming), when	Cardiac, Cardiac/Open Heart, Cardiovascular
INSERTION, CARDIAC PACEMAKER	INSERTION PACEMAKER	33206 Insertion of new or replacement of permanent pacemaker with transvenous electrode(s); atrial 33207 Insertion of new or replacement of permanent pacemaker with transvenous electrode(s); ventricular 33208 Insertion of new or replacement of permanent pacemaker with transvenous electrode(s); atrial and ventricular 33214 Upgrade of implanted pacemaker system, conversion of single chamber system to dual chamber system (includes removal of previously placed pulse generator, testing of existing lead, insertion of new lead, insertion of new pulse generator) 33216 Insertion of a single transvenous electrode, permanent pacemaker or implantable defibrillator 33217 Insertion of 2 transvenous electrodes, permanent pacemaker or implantable defibrillator	Cardiac/Open Heart, Pacemakers

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INSERTION, CARDIAC PACEMAKER	INSERTION PACEMAKER	33221 Insertion of pacemaker pulse generator only; with existing multiple leads	Cardiac/Open Heart, Pacemakers
INSERTION, CENTRAL VENOUS ACCESS DEVICE, TUNNELED	INSERT CENTRAL VENOUS ACCESS DEVICE TUNNEL	36557 Insertion of tunneled centrally inserted central venous catheter, without subcutaneous port or pump; younger than 5 years of age	Cardiac/Open Heart, General, Thoracic
		36558 Insertion of tunneled centrally inserted central venous catheter, without subcutaneous port or pump; 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 Insertion of tunneled centrally inserted central venous access device, with subcutaneous port; 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 Insertion of tunneled centrally inserted central venous access device, requiring 2 catheters via 2 separate venous access sites; with subcutaneous port(s)	
INSERTION, ELECTRODE LEAD, CARDIAC PACEMAKER	INSERT LEAD PACEMAKER	*33202 Insertion of epicardial electrode(s); open incision (eg, thoracotomy, median sternotomy, subxiphoid approach)	Cardiac, Cardiac/Open Heart, Cardiovascular
		*33203 Insertion of epicardial electrode(s); endoscopic approach (eg, thoracoscopy, pericardioscopy)	
		33210 Insertion or replacement of temporary transvenous single chamber cardiac electrode or pacemaker catheter (separate procedure)	
		33211 Insertion or replacement of temporary transvenous dual chamber pacing electrodes (separate procedure)	
		33216 Insertion of a single transvenous electrode, permanent pacemaker or implantable defibrillator	
		33217 Insertion of 2 transvenous electrodes, permanent pacemaker or implantable defibrillator	
		33224 Insertion of pacing electrode, cardiac venous system, for left ventricular pacing, with attachment to previously placed pacemaker or implantable defibrillator pulse generator (including revision of pocket, removal, insertion, and/or replacement of existin	
		33225 Insertion of pacing electrode, cardiac venous system, for left ventricular pacing, at time of insertion of implantable defibrillator or pacemaker pulse generator (eg, for upgrade to dual chamber system) (list separately in addition to code for primary pro	
INSERTION, ELECTRODE LEAD, IMPLANTABLE CARDIOVERTER DEFIBRILLATOR (ICD)	INSERT LEAD ICD	33216 Insertion of a single transvenous electrode, permanent pacemaker or implantable defibrillator	Cardiac, Cardiac/Open Heart, Cardiovascular
		33217 Insertion of 2 transvenous electrodes, permanent pacemaker or implantable defibrillator	

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New Name	Old Name	CPT Code	Service
INSERTION, ELECTRODE LEAD, IMPLANTABLE CARDIOVERTER DEFIBRILLATOR (ICD)	INSERT LEAD ICD	33271 Insertion of subcutaneous implantable defibrillator electrode	Cardiac, Cardiac/Open Heart, Cardiovascular
INSERTION, EPICARDIAL ELECTRODE LEAD, THORACOTOMY APPROACH	THORACOTOMY W PLACEMENT OF EPICARDIAL LEAD CARDIAC	*33202 Insertion of epicardial electrode(s); open incision (eg, thoracotomy, median sternotomy, subxiphoid approach)	Cardiac/Open Heart
INSERTION, FILTER, INFERIOR VENA CAVA	IMPLANT INFERIOR VENA CAVA FILTER	37191 Insertion of intravascular vena cava filter, endovascular approach including vascular access, vessel selection, and radiological supervision and interpretation, intraprocedural roadmapping, and imaging guidance (ultrasound and fluoroscopy), when performed	Cardiac, Cardiac/Open Heart
INSERTION, IMPLANTABLE CARDIOVERTER DEFIBRILLATOR (ICD) SYSTEM, TOTAL	IMPLANT ICD	33249 Insertion or replacement of permanent implantable defibrillator system, with transvenous lead(s), single or dual chamber 33270 Insertion or replacement of permanent subcutaneous implantable defibrillator system, with subcutaneous electrode, including defibrillation threshold evaluation, induction of arrhythmia, evaluation of sensing for arrhythmia termination, and programming or	Cardiac, Cardiac/Open Heart, Cardiovascular
INSERTION, IMPLANTABLE CARDIOVERTER DEFIBRILLATOR (ICD), BIVENTRICULAR	IMPLANT ICD BI VENTRICULAR	33224 Insertion of pacing electrode, cardiac venous system, for left ventricular pacing, with attachment to previously placed pacemaker or implantable defibrillator pulse generator (including revision of pocket, removal, insertion, and/or replacement of existin 33225 Insertion of pacing electrode, cardiac venous system, for left ventricular pacing, at time of insertion of implantable defibrillator or pacemaker pulse generator (eg, for upgrade to dual chamber system) (list separately in addition to code for primary pro 33230 Insertion of implantable defibrillator pulse generator only; with existing dual leads 33249 Insertion or replacement of permanent implantable defibrillator system, with transvenous lead(s), single or dual chamber	Cardiac, Cardiac/Open Heart, Cardiovascular
INSERTION, INTRA-AORTIC BALLOON PUMP	INSERTION INTRA-AORTIC BALLOON	*33967 Insertion of intra-aortic balloon assist device, percutaneous *33970 Insertion of intra-aortic balloon assist device through the femoral artery, open approach *33973 Insertion of intra-aortic balloon assist device through the ascending aorta	Cardiac, Cardiovascular, Cardiac/Open Heart
INSERTION, PLEURX CATHETER SYSTEM, PLEURAL CAVITY	INSERTION PLEURX CATHETER	32550 Insertion of indwelling tunneled pleural catheter with cuff	Cardiac/Open Heart, Thoracic
LEFT HEART CATHETERIZATION WITH PERCUTANEOUS INTERVENTION WITH STENT WITH TRANSAORTIC VALVE REPLACEMENT			Cardiac/Open Heart
LEFT HEART CATHETERIZATION WITH PERCUTANEOUS INTERVENTION WITH STENT WITH TRANSAPICAL AORTIC VALVE IMPLANT THORACIC			Cardiac/Open Heart
LEFT HEART CATHETERIZATION WITH PERCUTANEOUS INTERVENTION WITH STENT WITH TRANSCATHETER AORTIC VALVE IMPLANT FEMORAL			Cardiac/Open Heart
MAZE PROCEDURE, MINIMALLY INVASIVE, USING CRYOABLATION, WITH TRANSESOPHAGEAL ECHOCARDIOGRAPHY (TEE)	THORACOTOMY RIGHT W CRYOABLATION W TRANSESOPHAGEAL ECHO	*33254 Operative tissue ablation and reconstruction of atria, limited (eg, modified maze procedure)	Cardiac/Open Heart

SJH Procedures - Cardiac/Open Heart Service

New Name	Old Name	CPT Code	Service
MAZE PROCEDURE, MINIMALLY INVASIVE, USING CRYOABLATION, WITH TRANSESOPHAGEAL ECHOCARDIOGRAPHY (TEE)	THORACOTOMY RIGHT W CRYOABLATION W TRANSESOPHAGEAL ECHO	*33255 Operative tissue ablation and reconstruction of atria, extensive (eg, maze procedure); without cardiopulmonary bypass	Cardiac/Open Heart
		93355 Echocardiography, transesophageal (tee) for guidance of a transcatheter intracardiac or great vessel(s) structural intervention(s) (eg, TAVR, transcatheter pulmonary valve replacement, mitral valve repair, paravalvular regurgitation repair, left atrial ap	
MAZE PROCEDURE, MINIMALLY INVASIVE, WITH TRANSESOPHAGEAL ECHOCARDIOGRAPHY (TEE)	THORACOTOMY MINI MAZE BILATERAL W RADIOFREQUENCY ABLATION W TRANSESOPHAGEAL ECHO	*33254 Operative tissue ablation and reconstruction of atria, limited (eg, modified maze procedure)	Cardiac/Open Heart
		*33255 Operative tissue ablation and reconstruction of atria, extensive (eg, maze procedure); without cardiopulmonary bypass	
		93355 Echocardiography, transesophageal (tee) for guidance of a transcatheter intracardiac or great vessel(s) structural intervention(s) (eg, TAVR, transcatheter pulmonary valve replacement, mitral valve repair, paravalvular regurgitation repair, left atrial ap	
MEDIAN STERNOTOMY, COMPOSITE GRAFT		*39010 Mediastinotomy with exploration, drainage, removal of foreign body, or biopsy; transthoracic approach, including either transthoracic or median sternotomy	Cardiac/Open Heart
MEDIAN STERNOTOMY, WITH ATRIAL MYXOMA EXCISION	MEDIANSTERNOTOMY EXCISION ATRIAL MYXOMA	*33120 Excision of intracardiac tumor, resection with cardiopulmonary bypass	Cardiac/Open Heart
MEDIAN STERNOTOMY, WITH TRANSMYOCARDIAL LASER REVASCULARIZATION AND TRANSESOPHAGEAL ECHOCARDIOGRAPHY (TEE)	REVASCULARIZATION TRANSMYOCARDIAL WITH LASER MEDIANSTERNOTOMY+TRANSESOPHAGEAL ECHO	*33140 Transmyocardial laser revascularization, by thoracotomy; (separate procedure)	Cardiac/Open Heart
		93318 Echocardiography, transesophageal (TEE) for monitoring purposes, including probe placement, real time 2-dimensional image acquisition and interpretation leading to ongoing (continuous) assessment of (dynamically changing) cardiac pumping function and to t	
		93355 Echocardiography, transesophageal (tee) for guidance of a transcatheter intracardiac or great vessel(s) structural intervention(s) (eg, TAVR, transcatheter pulmonary valve replacement, mitral valve repair, paravalvular regurgitation repair, left atrial ap	
PACU MISCELLANEOUS PROCEDURE			Bariatric, Cardiac, Cardiac/Open Heart, Colorectal, ENT, Gastroenterology, General, Gynecology, Neurosurgery, Orthopedics, Pacemakers, Plastics, Spine, Thoracic, Urology, Vascular
PERICARDIECTOMY	PERICARDIECTOMY	*33030 Pericardiectomy, subtotal or complete; without cardiopulmonary bypass	Cardiac/Open Heart
		*33031 Pericardiectomy, subtotal or complete; with cardiopulmonary bypass	
RADIOFREQUENCY ABLATION	ABLATION RADIOFREQUENCY BIPOLAR/UNIPOLAR		Cardiac/Open Heart

SJH Procedures - Cardiac/Open Heart Service

New Name	Old Name	CPT Code	Service	
REMOVAL, CENTRAL VENOUS ACCESS DEVICE	REMOVAL CENTRAL VENOUS ACCESS DEVICES	36589	Removal of tunneled central venous catheter, without subcutaneous port or pump	Cardiac/Open Heart, General, Oncology, Thoracic
		36590	Removal of tunneled central venous access device, with subcutaneous port or pump, central or peripheral insertion	
REMOVAL, INTRA-AORTIC BALLOON PUMP	REMOVAL INTRA AORTIC BALLOON	*33968	Removal of intra-aortic balloon assist device, percutaneous	Cardiac, Cardiovascular, Cardiac/Open Heart
		*33971	Removal of intra-aortic balloon assist device including repair of femoral artery, with or without graft	
		*33974	Removal of intra-aortic balloon assist device from the ascending aorta, including repair of the ascending aorta, with or without graft	
REMOVAL, PLEURX CATHETER SYSTEM, PLEURAL CAVITY		32552	Removal of indwelling tunneled pleural catheter with cuff	Cardiac/Open Heart, Thoracic
REMOVAL, STERNAL WIRE, WITH REWIRING IF INDICATED	REWIRE/REMOVAL WIRE STERNAL WOUND	20650	Insertion of wire or pin with application of skeletal traction, including removal (separate procedure)	Cardiac/Open Heart
		20670	Removal of implant; superficial (eg, buried wire, pin or rod) (separate procedure)	
		20680	Removal of implant; deep (eg, buried wire, pin, screw, metal band, nail, rod or plate)	
		21750	Closure of median sternotomy separation with or without debridement (separate procedure)	
REPAIR OR REPLACEMENT, MITRAL VALVE, MINIMALLY INVASIVE, RIGHT THORACOTOMY APPROACH, USING HEARTPORT TECHNIQUE	REPAIR/REPLACE MITRAL VALVE HEARTPORT W RIGHT THORACOTOMY	*33425	Valvuloplasty, mitral valve, with cardiopulmonary bypass;	Cardiac/Open Heart
		*33426	Valvuloplasty, mitral valve, with cardiopulmonary bypass; with prosthetic ring	
REPAIR OR REPLACEMENT, MITRAL VALVE	REPAIR/REPLACEMENT MITRAL VALVE	*0345T	Transcatheter mitral valve repair percutaneous approach via the coronary sinus	Cardiac/Open Heart
		*33418	Transcatheter mitral valve repair, percutaneous approach, including transseptal puncture when performed; initial prosthesis	
		33419	Transcatheter mitral valve repair, percutaneous approach, including transseptal puncture when performed; additional prosthesis(es) during same session (list separately in addition to code for primary procedure)	
		*33420	Valvotomy, mitral valve; closed heart	
		*33422	Valvotomy, mitral valve; open heart, with cardiopulmonary bypass	
		*33425	Valvuloplasty, mitral valve, with cardiopulmonary bypass;	
		*33426	Valvuloplasty, mitral valve, with cardiopulmonary bypass; with prosthetic ring	
		*33427	Valvuloplasty, mitral valve, with cardiopulmonary bypass; radical reconstruction, with or without ring	
		*33430	Replacement, mitral valve, with cardiopulmonary bypass	
		92987	Percutaneous balloon valvuloplasty; mitral valve	
REPAIR OR REPLACEMENT, TRICUSPID VALVE	REPAIR/REPLACEMENT TRICUSPID VALVE	*33463	Valvuloplasty, tricuspid valve; without ring insertion	Cardiac/Open Heart
		*33464	Valvuloplasty, tricuspid valve; with ring insertion	
		*33465	Replacement, tricuspid valve, with cardiopulmonary bypass	
REPAIR, ANEURYSM, AORTA, THORACIC, DESCENDING	REPAIR THORACIC ANEURYSM (DESCENDING AORTA)	*33875	Descending thoracic aorta graft, with or without bypass	Cardiac/Open Heart

SJH Procedures - Cardiac/Open Heart Service

New Name	Old Name	CPT Code	Service
REPAIR, ANEURYSM, AORTA, THORACIC, DESCENDING	REPAIR THORACIC ANEURYSM (DESCENDING AORTA)	*33877 Repair of thoracoabdominal aortic aneurysm with graft, with or without cardiopulmonary bypass	Cardiac/Open Heart
		*33880 Endovascular repair of descending thoracic aorta (eg, aneurysm, pseudoaneurysm, dissection, penetrating ulcer, intramural hematoma, or traumatic disruption); involving coverage of left subclavian artery origin, initial endoprosthesis plus descending thora	
		*33881 Endovascular repair of descending thoracic aorta (eg, aneurysm, pseudoaneurysm, dissection, penetrating ulcer, intramural hematoma, or traumatic disruption); not involving coverage of left subclavian artery origin, initial endoprosthesis plus descending t	
		*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	
REPAIR, ANEURYSM, CARDIAC VENTRICLE	REPAIR VENTRICULAR ANEURYSM	*33542 Myocardial resection (eg, ventricular aneurysmectomy)	Cardiac/Open Heart
		*33548 Surgical ventricular restoration procedure, includes prosthetic patch, when performed (eg, ventricular remodeling, SVR, SAVER, Dor procedures)	
REPAIR, ATRIAL SEPTAL DEFECT	REPAIR ATRIAL SEPTAL DEFECT	*33641 Repair atrial septal defect, secundum, with cardiopulmonary bypass, with or without patch	Cardiovascular, Cardiac/Open Heart
		93580 Percutaneous transcatheter closure of congenital interatrial communication (ie, Fontan fenestration, atrial septal defect) with implant	
REPAIR, HERNIA, CHEST WALL	REPAIR HERNIA LUNG	*32800 Repair lung hernia through chest wall	Cardiac/Open Heart, Thoracic
REPAIR, MITRAL AND TRICUSPID VALVES	REPAIR MITRAL VALVE W REPAIR TRICUSPID VALVE	*33425 Valvuloplasty, mitral valve, with cardiopulmonary bypass;	Cardiac/Open Heart
		*33426 Valvuloplasty, mitral valve, with cardiopulmonary bypass; with prosthetic ring	
		*33427 Valvuloplasty, mitral valve, with cardiopulmonary bypass; radical reconstruction, with or without ring	
		*33463 Valvuloplasty, tricuspid valve; without ring insertion	
		*33464 Valvuloplasty, tricuspid valve; with ring insertion	
REPAIR, MITRAL VALVE, TRANSCATHETER	TRANSCATHETER MITRAL VALVE REPAIR	*0345T Transcatheter mitral valve repair percutaneous approach via the coronary sinus	Cardiac, Cardiovascular, Cardiac/Open Heart
		*33418 Transcatheter mitral valve repair, percutaneous approach, including transseptal puncture when performed; initial prosthesis	
		33419 Transcatheter mitral valve repair, percutaneous approach, including transseptal puncture when performed; additional prosthesis(es) during same session (list separately in addition to code for primary procedure)	
REPAIR, TRICUSPID VALVE	REPAIR TRISCUPID VALVE	*0569T Transcatheter tricuspid valve repair, percutaneous approach; initial prosthesis	Cardiac/Open Heart
		*33463 Valvuloplasty, tricuspid valve; without ring insertion	
		*33464 Valvuloplasty, tricuspid valve; with ring insertion	
REPAIR, VENTRICULAR SEPTAL DEFECT	REPAIR VENTRICULAR SEPTAL DEFECT	*33545 Repair of postinfarction ventricular septal defect, with or without myocardial resection	Cardiac, Cardiovascular, Cardiac/Open Heart

SJH Procedures - Cardiac/Open Heart Service

New Name	Old Name	CPT Code	Service
REPAIR, VENTRICULAR SEPTAL DEFECT	REPAIR VENTRICULAR SEPTAL DEFECT	*33681 Closure of single ventricular septal defect, with or without patch;	Cardiac, Cardiovascular, Cardiac/Open Heart
		93581 Percutaneous transcatheter closure of a congenital ventricular septal defect with implant	
REPLACEMENT, AORTA, ASCENDING	REPLACEMENT ASCENDING AORTA	*33858 Ascending aorta graft, with cardiopulmonary bypass, includes valve suspension, when performed; for aortic dissection	Cardiac/Open Heart
		*33859 Ascending aorta graft, with cardiopulmonary bypass, includes valve suspension, when performed; for aortic disease other than dissection (eg, aneurysm)	
REPLACEMENT, AORTIC VALVE AND TRICUSPID VALVE	REPLACEMENT AORTIC VALVE W REPLACEMENT TRICUSPID VALVE	*33405 Replacement, aortic valve, open, with cardiopulmonary bypass; with prosthetic valve other than homograft or stentless valve	Cardiac/Open Heart
		*33406 Replacement, aortic valve, open, with cardiopulmonary bypass; with allograft valve (freehand)	
		*33410 Replacement, aortic valve, open, with cardiopulmonary bypass; with stentless tissue valve	
		*33465 Replacement, tricuspid valve, with cardiopulmonary bypass	
REPLACEMENT, AORTIC VALVE, MINIMALLY INVASIVE, RIGHT THORACOTOMY APPROACH, USING HEARTPORT TECHNIQUE	REPLACEMENT AORTIC VALVE W HEARTPORT W THORACOTOMY RIGHT	*33405 Replacement, aortic valve, open, with cardiopulmonary bypass; with prosthetic valve other than homograft or stentless valve	Cardiac/Open Heart
		*33406 Replacement, aortic valve, open, with cardiopulmonary bypass; with allograft valve (freehand)	
		*33410 Replacement, aortic valve, open, with cardiopulmonary bypass; with stentless tissue valve	
		*33411 Replacement, aortic valve; with aortic annulus enlargement, noncoronary sinus	
		*33412 Replacement, aortic valve; with transventricular aortic annulus enlargement (Konno procedure)	
		*33413 Replacement, aortic valve; by translocation of autologous pulmonary valve with allograft replacement of pulmonary valve (Ross procedure)	
REPLACEMENT, AORTIC VALVE, MINIMALLY INVASIVE	REPLACEMENT AORTIC VALVE MINIMALLY INVASIVE	*33361 Transcatheter aortic valve replacement (TAVR/TAVI) with prosthetic valve; percutaneous femoral artery approach	Cardiac/Open Heart
		*33362 Transcatheter aortic valve replacement (TAVR/TAVI) with prosthetic valve; open femoral artery approach	
		*33363 Transcatheter aortic valve replacement (TAVR/TAVI) with prosthetic valve; open axillary artery approach	
		*33364 Transcatheter aortic valve replacement (TAVR/TAVI) with prosthetic valve; open iliac artery approach	
		*33365 Transcatheter aortic valve replacement (TAVR/TAVI) with prosthetic valve; transaortic approach (eg, median sternotomy, mediastinotomy)	
		*33366 Transcatheter aortic valve replacement (TAVR/TAVI) with prosthetic valve; transapical exposure (eg, left thoracotomy)	

SJH Procedures - Cardiac/Open Heart Service

New Name	Old Name	CPT Code	Service
REPLACEMENT, AORTIC VALVE, MINIMALLY INVASIVE	REPLACEMENT AORTIC VALVE MINIMALLY INVASIVE	*33367 Transcatheter aortic valve replacement (TAVR/TAVI) with prosthetic valve; cardiopulmonary bypass support with percutaneous peripheral arterial and venous cannulation (eg, femoral vessels) (list separately in addition to code for primary procedure)	Cardiac/Open Heart
		*33368 Transcatheter aortic valve replacement (TAVR/TAVI) with prosthetic valve; cardiopulmonary bypass support with open peripheral arterial and venous cannulation (eg, femoral, iliac, axillary vessels) (list separately in addition to code for primary procedure)	
		*33369 Transcatheter aortic valve replacement (TAVR/TAVI) with prosthetic valve; cardiopulmonary bypass support with central arterial and venous cannulation (eg, aorta, right atrium, pulmonary artery) (list separately in addition to code for primary procedure)	
		*33405 Replacement, aortic valve, open, with cardiopulmonary bypass; with prosthetic valve other than homograft or stentless valve	
REPLACEMENT, AORTIC VALVE, REPEAT	REPLACEMENT AORTIC VALVE REDO	*33361 Transcatheter aortic valve replacement (TAVR/TAVI) with prosthetic valve; percutaneous femoral artery approach	Cardiac/Open Heart
		*33362 Transcatheter aortic valve replacement (TAVR/TAVI) with prosthetic valve; open femoral artery approach	
		*33363 Transcatheter aortic valve replacement (TAVR/TAVI) with prosthetic valve; open axillary artery approach	
		*33364 Transcatheter aortic valve replacement (TAVR/TAVI) with prosthetic valve; open iliac artery approach	
		*33365 Transcatheter aortic valve replacement (TAVR/TAVI) with prosthetic valve; transaortic approach (eg, median sternotomy, mediastinotomy)	
		*33366 Transcatheter aortic valve replacement (TAVR/TAVI) with prosthetic valve; transapical exposure (eg, left thoracotomy)	
		*33367 Transcatheter aortic valve replacement (TAVR/TAVI) with prosthetic valve; cardiopulmonary bypass support with percutaneous peripheral arterial and venous cannulation (eg, femoral vessels) (list separately in addition to code for primary procedure)	
		*33368 Transcatheter aortic valve replacement (TAVR/TAVI) with prosthetic valve; cardiopulmonary bypass support with open peripheral arterial and venous cannulation (eg, femoral, iliac, axillary vessels) (list separately in addition to code for primary procedure)	
		*33369 Transcatheter aortic valve replacement (TAVR/TAVI) with prosthetic valve; cardiopulmonary bypass support with central arterial and venous cannulation (eg, aorta, right atrium, pulmonary artery) (list separately in addition to code for primary procedure)	
		*33405 Replacement, aortic valve, open, with cardiopulmonary bypass; with prosthetic valve other than homograft or stentless valve	

SJH Procedures - Cardiac/Open Heart Service

New Name	Old Name	CPT Code	Service
REPLACEMENT, AORTIC VALVE, REPEAT	REPLACEMENT AORTIC VALVE REDO	*33406 Replacement, aortic valve, open, with cardiopulmonary bypass; with allograft valve (freehand)	Cardiac/Open Heart
		*33410 Replacement, aortic valve, open, with cardiopulmonary bypass; with stentless tissue valve	
		*33411 Replacement, aortic valve; with aortic annulus enlargement, noncoronary sinus	
		*33412 Replacement, aortic valve; with transventricular aortic annulus enlargement (Konno procedure)	
		*33413 Replacement, aortic valve; by translocation of autologous pulmonary valve with allograft replacement of pulmonary valve (Ross procedure)	
		*33530 Reoperation, coronary artery bypass procedure or valve procedure, more than 1 month after original operation (List separately in addition to code for primary procedure)	
REPLACEMENT, AORTIC VALVE, TRANSAPICAL APPROACH	TRANSAPICAL AORTIC VALVE IMPLANT THORACIC	*33366 Transcatheter aortic valve replacement (TAVR/TAVI) with prosthetic valve; transapical exposure (eg, left thoracotomy)	Cardiac, Cardiovascular, Cardiac/Open Heart
REPLACEMENT, AORTIC VALVE, TRANSCATHETER, FEMORAL APPROACH	TRANSCATHETER AORTIC VALVE IMPLANT FEMORAL	*33361 Transcatheter aortic valve replacement (TAVR/TAVI) with prosthetic valve; percutaneous femoral artery approach	Cardiac, Cardiovascular, Cardiac/Open Heart
		*33362 Transcatheter aortic valve replacement (TAVR/TAVI) with prosthetic valve; open femoral artery approach	
REPLACEMENT, AORTIC VALVE, TRANSCATHETER, SUBCLAVIAN ARTERY APPROACH	TRANSCATHETER AORTIC VALVE IMPLANT SUBCLAVIAN	*33363 Transcatheter aortic valve replacement (TAVR/TAVI) with prosthetic valve; open axillary artery approach	Cardiac, Cardiovascular, Cardiac/Open Heart
REPLACEMENT, AORTIC VALVE, TRANSCATHETER, TRANSAORTIC APPROACH	TRANSAORTIC AORTIC VALVE REPLACEMENT	*33365 Transcatheter aortic valve replacement (TAVR/TAVI) with prosthetic valve; transaortic approach (eg, median sternotomy, mediastinotomy)	Cardiac, Cardiovascular, Cardiac/Open Heart
REPLACEMENT, AORTIC VALVE, TRANSCATHETER, TRANSAXILLARY APPROACH		*33363 Transcatheter aortic valve replacement (TAVR/TAVI) with prosthetic valve; open axillary artery approach	Cardiac, Cardiovascular, Cardiac/Open Heart
REPLACEMENT, AORTIC VALVE, WITH ASCENDING AORTA REPLACEMENT AND TRANSESOPHAGEAL ECHOCARDIOGRAPHY (TEE)	REPLACEMENT AORTIC VALVE W REPLACEMENT ASCENDING AORTA W TRANSESOPHAGEAL ECHO	*33863 Ascending aorta graft, with cardiopulmonary bypass, with aortic root replacement using valved conduit and coronary reconstruction (eg, Bentall)	Cardiac/Open Heart
		93355 Echocardiography, transesophageal (tee) for guidance of a transcatheter intracardiac or great vessel(s) structural intervention(s) (eg, TAVR, transcatheter pulmonary valve replacement, mitral valve repair, paravalvular regurgitation repair, left atrial ap	
REPLACEMENT, AORTIC VALVE, WITH MITRAL VALVE REPAIR OR REPLACEMENT AND TRICUSPID VALVE REPAIR OR REPLACEMENT	REPAIR/REPLACE MITRAL REPLACE AORTIC REPAIR TRICUSPID VALVES	*33405 Replacement, aortic valve, open, with cardiopulmonary bypass; with prosthetic valve other than homograft or stentless valve	Cardiac/Open Heart
		*33406 Replacement, aortic valve, open, with cardiopulmonary bypass; with allograft valve (freehand)	
		*33410 Replacement, aortic valve, open, with cardiopulmonary bypass; with stentless tissue valve	
		*33411 Replacement, aortic valve; with aortic annulus enlargement, noncoronary sinus	
		*33412 Replacement, aortic valve; with transventricular aortic annulus enlargement (Konno procedure)	

SJH Procedures - Cardiac/Open Heart Service

New Name	Old Name	CPT Code	Service
REPLACEMENT, AORTIC VALVE, WITH MITRAL VALVE REPAIR OR REPLACEMENT AND TRICUSPID VALVE REPAIR OR REPLACEMENT	REPAIR/REPLACE MITRAL REPLACE AORTIC REPAIR TRICUSPID VALVES	*33413 Replacement, aortic valve; by translocation of autologous pulmonary valve with allograft replacement of pulmonary valve (Ross procedure)	Cardiac/Open Heart
		*33420 Valvotomy, mitral valve; closed heart	
		*33422 Valvotomy, mitral valve; open heart, with cardiopulmonary bypass	
		*33425 Valvuloplasty, mitral valve, with cardiopulmonary bypass;	
		*33426 Valvuloplasty, mitral valve, with cardiopulmonary bypass; with prosthetic ring	
		*33430 Replacement, mitral valve, with cardiopulmonary bypass	
		*33440 Replacement, aortic valve; by translocation of autologous pulmonary valve and transventricular aortic annulus enlargement of the left ventricular outflow tract with valved conduit replacement of pulmonary valve (Ross-Konno procedure)	
		*33463 Valvuloplasty, tricuspid valve; without ring insertion	
		*33464 Valvuloplasty, tricuspid valve; with ring insertion	
		*33468 Tricuspid valve repositioning and plication for Ebstein anomaly	
REPLACEMENT, AORTIC VALVE, WITH MITRAL VALVE REPAIR OR REPLACEMENT	REPLACE AORTIC VALVE REPAIR/REPLACE MITRAL VALVE	*33405 Replacement, aortic valve, open, with cardiopulmonary bypass; with prosthetic valve other than homograft or stentless valve	Cardiac/Open Heart
		*33406 Replacement, aortic valve, open, with cardiopulmonary bypass; with allograft valve (freehand)	
		*33410 Replacement, aortic valve, open, with cardiopulmonary bypass; with stentless tissue valve	
		*33411 Replacement, aortic valve; with aortic annulus enlargement, noncoronary sinus	
		*33412 Replacement, aortic valve; with transventricular aortic annulus enlargement (Konno procedure)	
		*33413 Replacement, aortic valve; by translocation of autologous pulmonary valve with allograft replacement of pulmonary valve (Ross procedure)	
		*33420 Valvotomy, mitral valve; closed heart	
		*33425 Valvuloplasty, mitral valve, with cardiopulmonary bypass;	
		*33426 Valvuloplasty, mitral valve, with cardiopulmonary bypass; with prosthetic ring	
		*33427 Valvuloplasty, mitral valve, with cardiopulmonary bypass; radical reconstruction, with or without ring	
*33430 Replacement, mitral valve, with cardiopulmonary bypass			
*33440 Replacement, aortic valve; by translocation of autologous pulmonary valve and transventricular aortic annulus enlargement of the left ventricular outflow tract with valved conduit replacement of pulmonary valve (Ross-Konno procedure)			
REPLACEMENT, AORTIC VALVE, WITH TRICUSPID VALVE REPAIR	REPLACEMENT AORTIC VALVE W REPAIR TRICUSPID VALVE	*33405 Replacement, aortic valve, open, with cardiopulmonary bypass; with prosthetic valve other than homograft or stentless valve	Cardiac/Open Heart

SJH Procedures - Cardiac/Open Heart Service

New Name	Old Name	CPT Code	Service
REPLACEMENT, AORTIC VALVE, WITH TRICUSPID VALVE REPAIR	REPLACEMENT AORTIC VALVE W REPAIR TRICUSPID VALVE	*33406 Replacement, aortic valve, open, with cardiopulmonary bypass; with allograft valve (freehand)	Cardiac/Open Heart
		*33410 Replacement, aortic valve, open, with cardiopulmonary bypass; with stentless tissue valve	
		*33411 Replacement, aortic valve; with aortic annulus enlargement, noncoronary sinus	
		*33412 Replacement, aortic valve; with transventricular aortic annulus enlargement (Konno procedure)	
		*33440 Replacement, aortic valve; by translocation of autologous pulmonary valve and transventricular aortic annulus enlargement of the left ventricular outflow tract with valved conduit replacement of pulmonary valve (Ross-Konno procedure)	
		*33463 Valvuloplasty, tricuspid valve; without ring insertion	
		*33464 Valvuloplasty, tricuspid valve; with ring insertion	
REPLACEMENT, AORTIC VALVE	REPLACEMENT AORTIC VALVE	*33361 Transcatheter aortic valve replacement (TAVR/TAVI) with prosthetic valve; percutaneous femoral artery approach	Cardiac/Open Heart
		*33362 Transcatheter aortic valve replacement (TAVR/TAVI) with prosthetic valve; open femoral artery approach	
		*33363 Transcatheter aortic valve replacement (TAVR/TAVI) with prosthetic valve; open axillary artery approach	
		*33364 Transcatheter aortic valve replacement (TAVR/TAVI) with prosthetic valve; open iliac artery approach	
		*33365 Transcatheter aortic valve replacement (TAVR/TAVI) with prosthetic valve; transaortic approach (eg, median sternotomy, mediastinotomy)	
		*33366 Transcatheter aortic valve replacement (TAVR/TAVI) with prosthetic valve; transapical exposure (eg, left thoracotomy)	
		*33405 Replacement, aortic valve, open, with cardiopulmonary bypass; with prosthetic valve other than homograft or stentless valve	
		*33406 Replacement, aortic valve, open, with cardiopulmonary bypass; with allograft valve (freehand)	
		*33410 Replacement, aortic valve, open, with cardiopulmonary bypass; with stentless tissue valve	
		*33411 Replacement, aortic valve; with aortic annulus enlargement, noncoronary sinus	
		*33412 Replacement, aortic valve; with transventricular aortic annulus enlargement (Konno procedure)	
		*33413 Replacement, aortic valve; by translocation of autologous pulmonary valve with allograft replacement of pulmonary valve (Ross procedure)	
		REPLACEMENT, DRESSING	

SJH Procedures - Cardiac/Open Heart Service

New Name	Old Name	CPT Code	Service
REPLACEMENT, MITRAL AND TRICUSPID VALVES	REPLACEMENT MITRAL VALVE W REPLACEMENT TRICUSPID VALVE	*33430 Replacement, mitral valve, with cardiopulmonary bypass	Cardiac/Open Heart
		*33465 Replacement, tricuspid valve, with cardiopulmonary bypass	
REPLACEMENT, MITRAL VALVE, REPEAT	REPLACEMENT MITRAL VALVE REDO	*33430 Replacement, mitral valve, with cardiopulmonary bypass	Cardiac/Open Heart
		*33530 Reoperation, coronary artery bypass procedure or valve procedure, more than 1 month after original operation (List separately in addition to code for primary procedure)	
REPLACEMENT, MITRAL VALVE, WITH TRICUSPID VALVE REPAIR OR REPLACEMENT	REPLACEMENT MITRAL VALVE W REPAIR TRICUSPID VALVE	*33430 Replacement, mitral valve, with cardiopulmonary bypass	Cardiac/Open Heart
		*33463 Valvuloplasty, tricuspid valve; without ring insertion	
		*33464 Valvuloplasty, tricuspid valve; with ring insertion	
REPLACEMENT, PULSE GENERATOR, IMPLANTABLE CARDIOVERTER DEFIBRILLATOR (ICD), BIVENTRICULAR	REPLACE BIVENTRICULAR CARDIOVERTER DEFIBRILATOR GENERATOR	33225 Insertion of pacing electrode, cardiac venous system, for left ventricular pacing, at time of insertion of implantable defibrillator or pacemaker pulse generator (eg, for upgrade to dual chamber system) (list separately in addition to code for primary pro	Cardiac/Open Heart, Pacemakers
		33263 Removal of implantable defibrillator pulse generator with replacement of implantable defibrillator pulse generator; dual lead system	
		33264 Removal of implantable defibrillator pulse generator with replacement of implantable defibrillator pulse generator; multiple lead system	
REWIRING, STERNUM, WITH CHEST WALL FLAP PROCEDURE	REWIRE STERNAL WOUND W CHEST WALL FLAP	14000 Adjacent tissue transfer or rearrangement, trunk; defect 10 sq cm or less	Cardiac/Open Heart
		14001 Adjacent tissue transfer or rearrangement, trunk; defect 10.1 sq cm to 30.0 sq cm	
		21750 Closure of median sternotomy separation with or without debridement (separate procedure)	
SURGICAL PROCEDURE, REPEAT, AFTER OPEN HEART SURGERY, FOR HEMORRHAGE	EXPLORATION OPEN HEART BLEEDER	*32120 Thoracotomy; for postoperative complications	Cardiac/Open Heart
		*35820 Exploration for postoperative hemorrhage, thrombosis or infection; chest	
		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	
THORACOSCOPY HYBRID ATRIAL FIBRILLATION PROCEDURE PUMP STDBY			Cardiac/Open Heart
THORACOSCOPY, VIDEO-ASSISTED, WITH BIOPSY	THORACOSCOPY W BIOPSY VIDEO ASSIST	32604 Thoracoscopy, diagnostic (separate procedure); pericardial sac, with biopsy	Cardiac/Open Heart, Thoracic
		32606 Thoracoscopy, diagnostic (separate procedure); mediastinal space, with biopsy	
		32607 Thoracoscopy; with diagnostic biopsy(ies) of lung infiltrate(s) (eg, wedge, incisional), unilateral	
		32608 Thoracoscopy; with diagnostic biopsy(ies) of lung nodule(s) or mass(es) (eg, wedge, incisional), unilateral	
		32609 Thoracoscopy; with biopsy(ies) of pleura	
THORACOSCOPY, WITH EPICARDIAL ELECTRODE LEAD INSERTION	THORACOSCOPY W PLACEMENT EPICARDIAL LEAD CARDIAC	*33203 Insertion of epicardial electrode(s); endoscopic approach (eg, thoracoscopy, pericardioscopy)	Cardiac/Open Heart

SJH Procedures - Cardiac/Open Heart Service

New Name	Old Name	CPT Code	Service
THORACOTOMY, WITH LOBECTOMY	THORACOTOMY W LOBECTOMY	*32480 Removal of lung, other than pneumonectomy; single lobe (lobectomy) *32482 Removal of lung, other than pneumonectomy; 2 lobes (bilobectomy)	Cardiac/Open Heart, Thoracic
TRANSCATHETER AORTIC VALVE REPLACEMENT (CARDIOLOGY)			Cardiovascular, Cardiac/Open Heart
TRANSCATHETER AORTIC VALVE REPLACEMENT CLINICAL TRIAL LOW RISK			Cardiac, Cardiovascular, Cardiac/Open Heart