



All superscript numbers (Example: Description¹) correspond to important notes at the bottom of this page.

Procedure:	CPT Code:
DIAGNOSTIC CATH/PROCEDURES	
CARDIAC CATHS	
RT Heart Cath	93451
RT Heart Cath/Coro Art Cath/Coro Angio	93456
Basic Hearth Cath/Coro Cannulation/S/LV	93454, 93571
LT Heart Cath/Coro Angiogram W/LV	93458, 93571
Left Heart Cath/Coro Angio W/Bypass or IM	93459, 93571
RT & LT Heart Cath/Coro Angio W/LV	93460, 93571
RT LT Heart Cath/Coro Angio W/LV & IM/Bypass Grafts	93461, 93571
LT Heart Cath/Transeptal Via Intact Septum	93462
CATHS FOR CONGENITAL DISEASE	
RT Heart Cath	93530
RT & LT Hearth Cath	93531
RT & Transeptal LT Heart Cath via Exist Septal Opening	93533
Inject. Coro Angio, S&I during Congenital Cath	93563
Inject. IM/Grafts, S&I during Congenital Cath	93564
Inject. LT Ventricular, S&I	93565
ADDITIONAL CATH SERVICES	
Inject. RT Ventricular or RT Atrial Angio, S&I	93566
Inject. Aortography, S&I	93567
Inject. Pulmonary Angio, S&I	93568
INTERVENTIONS	
Angioplasty/PTCA:	
Single Major Artery or Branch	92920, 92978
Each Additional Branch	92921, 92979
Stent/PTCA (+ Angioplasty if performed):	
Single Major Artery or Branch	92928, 92978
Each Additional Branch	92929, 92979
Atherectomy/Rotoblator (+Stent +Angioplasty if performed):	
Single Major Artery or Branch	92933, 92978
Each Additional Branch	92934, 92979
PTCA of/Thru Coronary Artery Bypass Graft:	
Any Combo Stent/Atherectomy/Angioplasty-Single Vessel	92937, 92978
Each Additional Branch	92938, 92979
PTCA (Any Combo) During Acute Myocardial Infarct	92941, 92978



Procedure:	CPT Code:
DIAGNOSTIC CATH/PROCEDURES CONT'D	
PTCA (Any Combo) of Chronic Total Occlusion (Over 3 Mos)	92943, 92978
Each Additional Branch	92944, 92979
Percutaneous Thrombectomy (Angiojet) List Separately	92973
Percutaneous Pulmonary Artery Angioplasty	92997
Percutaneous Valvuloplasty, Aortic Valve	92986
Mitral Valve	92987
Pulmonary Valve	92990
Tricuspid Valve	93799
Transcatheter Aortic Valve Replacement – Femoral/Percutaneous	33361-33366
ASD/PFO Closure	93580, 93312, 93320, 93325
RT Heart Cath, Congenital	93530
Coil Embolization (PDA Closure)	93580, 93312, 93320, 93325
Coil Embolization, S&I	75894
Endomyocardial Biopsy	93505
With C4D Staining	86361
Fractional Flow Reserve	93571
Intra-Aortic Balloon Pump	33967
Impella Device	33990, 33992
Inhaled Nitric Oxide	93463
Intracoronary Ultrasound	92978
Each Additional Vessel	92979
Cardioversion, External	92960
Cardioversion, Internal	92961

ELECTROPHYSIOLOGY	
EPS ABLATION/AV NODAL	
EPS Ablation AV Node	93650
EP Eval W/Induction Arrhythmia RT Atrium & Ventric	93620
W/LT Atrial Pacing & Recording	93621
Programmed Stimulation Post Drug Infusion	93623
Intracardiac EP 3D Map (Carto)	93613
Intracardiac Echo	93662
Transesophageal Echo	93312
Doppler Echo, Pulsed Wave	93320
Doppler Echo, Color Flow	93325



Procedure:	CPT Code:
ELECTROPHYSIOLOGY CONT'D	
ABLATION/SUPRAVENTRICULAR TACHYCARDIA	
Comprehensive EP Eval with Ablation	93653
Catheter Ablation for Spontaneous/Induced Arrhythmia	93655
W/LT Atrial Pacing & Recording	93621
EP Eval W/Induction Arrhythmia W/Pacing and Recording	93620
Programmed Stimulation Post Drug Infusion	93623
Intraventric/Atrial Mapping Tachycardia	93609
Intracardiac EP 3D Mapping (Carto)	93613
Intracardiac Echo	93662
LT Heart Cath by Transseptal Puncture	93462
Transesophageal Echo	93312
Doppler Echo, Pulsed Wave	93320
Doppler Echo, Color Flow	93325
ABLATION/VENTRICULAR TACHYCARDIA	
Comprehensive EP Eval with Ablation-Ventricular Tach	93654
EP Eval W/Induction Arrhythmia RT Atrium & Ventric	93620
W/LT Ventricular Pacing and Recording	93622
Programmed Stimulation Post Drug Infusion	93623
Coronary Angiogram	93454
LT Heart Cath by Transseptal Puncture	93462
Intracardiac EP 3D Mapping (Carto)	93613
Intracardiac Echo	93662
Transesophageal Echo	93312
Doppler Echo, Pulsed Wave	93320
Doppler Echo, Color Flow	93325
EPS ABLATION/A-FIB (Always inpatient)	
Comp EP Eval W/Ablation Atrial/Ventric Pace & Recording	93656
Addtl Ablation LT/RT Atrium for A-Fib	93657
W/LT Ventricular Pacing & Recording	93622
Programmed Stimulation Post Drug Infusion	93623
Intraventric/Atrial Mapping Tachycardia	93609
Intracardiac EP 3D Map (Carto)	93613
Intracardial Echo	93662
Transesophageal Echo	93312
Doppler Echo, Pulsed Wave	93320
Doppler Echo, Color Flow	93325



Abdominal Aortogram	
OPN/PRG FEM/POP W/ANGIOPLASTY	37224
REVSC OPN/PRQ FEM/POP W/ATHRC/ANGIOP	37225
REVSC OPN/PRQ FEM/POP W/STNT/ANGIOP	37226
REVSC OPN/PRQ FEM/POP W/STNT/ATHRC/ANGIOP	37227
Procedure:	CPT Code:
ICD IMPLANTS	
Initial ICD Implant (single or dual) System & Leads	33249
EP with ICD Testing	93641, 93287 x2
Initial ICD Implant Bi-Ventricular System & Leads	33249
Insert LV Lead	33225
EP with ICD Testing	93641
Peri-PX Dev Eval & Prog Sing/Dual/Multi Lead Defibrillator	93287 x2
Replacement of ICD Pulse Generator Single Lead	33262
EP with ICD Testing	93641
Peri-PX Dev Eval & Prog Sing/Dual/Multi Lead Defibrillator	93287 x2
Replacement of ICD Generator Dual Lead	33263
EP with ICD Testing	93641
Peri-PX Dev Eval & Prog Sing/Dual/Multi Lead Defibrillator	93287 x2
Replacement of ICD Generator BI-V	33264
EP with ICD Testing	93641
Peri-PX Dev Eval & Prog Sing/Dual/Multi Lead Defibrillator	93287 x2
System Upgrade & ICD Generator Replace to BI-V ICD	33249
Insert LV Lead	33225
EP with ICD Testing	93641
Peri-PX Dev Eval & Prog Sing/Dual/Multi Lead Defibrillator	93287 x2
System Upgrade from Pacemaker to Dual or BI-V ICD	33249
Removal of ICD Generator	33233
Insert LV Lead	33225
EP with ICD Testing	93641
Pocket Revision	33223
Peri-PX Dev Eval & Prog Sing/Dual/Multi Lead Defibrillator	93287 x2
Lead Reposition-RT Atrial or RT Ventricular	33215
EP with ICD Testing	93641
Reposition LT Ventricular Lead	33226
Lead Repair:	
Repair Single Tranvenous Electrode for Single Chamber	33218
Repair 2 Venous Electrodes for Dual Chamber	33220
Revision Skin Pocket	33223



Procedure:	CPT Code:
PACEMAKER IMPLANTS	
Pacemaker Insert or Replace/Single Chamber (Atrial)	33206
Pacemaker Insert or Replace/Single Chamber (Ventricular)	33207
Pacemaker Insert or Replace/Dual Chamber	33208
Pacemaker Insert or Replace/BI-Ventricular	33208
Insert LV Lead for BI-V to Existing Generator	33224
Insert LV Lead for BI-V to New or Replaced Generator	33225
Removal Pacemaker Generator only	33233
Removal Electrode, Single Lead, Atrial or Ventricular	33234
Removal Transvenous Electrodes Electrodes, Dual Lead System	33225
Remove and Replace Pacemaker Generator only/Single Chamber	33227
Remove and Replace Pacemaker Generator only/Dual Lead	33228
Remove and Replace Pacemaker Generator only/BI-Ventricular	33229
Upgrade Pacemaker from Single to Dual Chamber (Includes Generator Removal)	33214
Insert LV Lead for Upgrade to Dual or BI-V	33225
Reposition Pacemaker or ICD Lead/Electrode (RT Atrial or RT Ventricular)	33215
Cardiac Fluoroscopy, S&I	76000
Repair Transvenous Electrode (1) Pacemaker or AICD	33218
Repair Transvenous Electrode (2) Pacemaker or AICD	33220
Revision/Relocation Skin Pocket Pacemaker	33222
Insert LT Ventricular Lead-Existing Generator	33224
Insert LT Ventricular Lead-New Generator	33225
Reposition Previously Implanted LT Ventricular Lead	33226
Implant Loop Recorder	33285, 33286
Remove Loop Recorder	33284
CARDIOMEMS¹	
Right Heart Cath	93451
Pulmonary Angiography	93568
Unlisted Cardiovascular Procedure – CardioMEMs	93799
TCatheter Implant Wireless Pulm Artery Sensor Hemo Monitor	33289
PR Impl Pressure Sensor W/Angio	C9741
PR Wireless Pressure Sensor	C2624



Additional Internal Reference Information:

Important Notes:

1. When requesting authorization for Cardiomems procedure, please include the attached letter with your auth request. <http://vip.mc.llumc.edu/vip/forms/departments/LLUHS-Departments/Central-Authorization/CardioMEMS-Procedure-Justification-Letter.pdf>
2. TAVR/Mitral Clip procedures are handled by Tracy Hickerson in the clinic. Please mark as STAT and clinic responsible in the referral required field.
3. CVL procedures ordered by Dr. Michael Kuhn or Dr. Brent Gordon should be marked as STAT in the priority field and the referral required field should be marked as “clinic responsible”.
4. Procedures scheduled at SH CVL will state MC Cardiovascular Lab in the referral and should be processed by FS.
5. Watchman device and Lead Extraction CVL procedures will be processed by Angela Lavender. These procedures are done outpatient and patient is admitted to the hospital after. Please mark these accounts as “clinic responsible”

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