

Episode Quality Payment Program Episode Playbook

Prometheus Episode Definition Summaries

Version 1

Updated: September 15th, 2021

DISCLAIMER: These episode summaries are provided to illustrate episode construction and help EQIP participants understand what is included in episode costs. Direct recreation of episodes will not be possible from these summaries. The codes included in each episode are independently developed and verified by Change Healthcare.

Outline

1. Episode Components Key

2. Performance Year One (2022) Episodes of Care

Α.	Acute Myocardial Infarction (AMI)
Β.	CABG &/or Valve Procedures (CxCABG)
С.	Coronary Angioplasty (PCI)
D.	Pacemaker/ Defibrillator (PCMDFR)
Ε.	<u>Hip/ Pelvic Fracture (HIPLFR)</u>
F.	Hip Replacement & Hip Revision (HIPRPL)
G.	Knee Arthroscopy (KNARTH)
Η.	Knee Replacement & Knee Revision (KNRPL)
1.	Lumbar Laminectomy (LBRLAM)
J.	Lumbar Spine Fusion (FUSION)
K.	Shoulder Replacement (SHLDRP)
L.	Colonoscopy (COLOS)
Μ.	Colorectal Resection (COLON)
Ν.	Gall Bladder Surgery (GBSURG)
Ο.	Upper GI Endoscopy (EGD)
	maryland

health services

Episode Components Key

Trigger Codes	Codes that, when coupled with a trigger diagnosis and meet trigger criteria, indicate an episode exists.
Trigger Diagnoses	Descriptive diagnoses codes that must be present on the claim with a 'Trigger Code' in order for an episode to initiate.
Relevant Procedures	These include all services that are relevant to a given episode but would only be included in the episode if they have a relevant diagnosis code on the claim.
Relevant Diagnoses	These are diagnosis codes that could steer services to an episode's costs. These have been clinically validated to identify claims that are for routine/typical care for an episode and include codes that represent signs and symptoms related to the episode, diagnosis codes for similar conditions, status codes, family history codes or for aftercare.
Complications	Codes that indicate the occurrence of complication care and potentially avoidable episode complication (PAEC) during the episode time window.



Acute Myocardial Infarction (AMI)

An Acute Myocardial Infarction Episode needs longer term treatment and secondary prevention for successful management of AMI patients. Services with diagnosis codes for signs and symptoms related to underlying coronary artery disease such as chest pain or shortness of breath, and for care of other associated conditions such as hypertension and hyperlipidemia, have been defined as typical care for AMI. Secondary diagnoses on the index AMI stay or other services for conditions such unstable angina, fluid and electrolyte disturbances, and stroke have been labeled as complications. The AMI episode is first constructed with the index hospitalization and the 30-day post-discharge services bundled together.



Episode Length – AMI





Episode Triggers – AMI

Trigger Group Name	Code Type	Codes
STEMI	ICD10	12101-12130
Subendocardial Infarct	ICD10	I214



Trigger Diagnoses – ICD-10

STEMI

Subendocardial Infarct



Advance care planning Alcohol / Drug Use Management Alcohol / Drug Use Screening Ancillary Services Anti-TNF agents Aortic resection, replacement or anastomosis **Bleeding Status** Blood Count Blood Gases, Pulse Oximetry Blood transfusion Blood Type, Coomb's test Bundled Payment / Medical Home Cardiac cath & Angiogram Cardiac Stress Test Care Plan Oversight Case Management Services Case Management Services - Behavioral Case Management Services - Maternity CHEMOTHERAPY Chest X-Ray CHLAMYDIA SCREENING Chronic Care Management Colonoscopy/Sigmoidoscopy ColorectalCa Screen Coordinated Care Fees/Services Coronary Thrombolysis Counseling Services Diagnostic bronchoscopy and biopsy of bronchus Diagnostic physical therapy Diagnostic ultrasound of abdomen or retroperitoneum Diagnostic ultrasound of heart (echocardiogram) DME - bath / toilet aids DME - beds / accessories DME - heat/cold application DME - mobility aids DME - other DME - patient lifts DME - repair / maintenance DME - restraints DME - safety equipment DME - traction DME - trapeze / other orthopedic device DME - whirlpool - equipment DME - wound therapy DME and supplies Drug Deiivery implantation E & M - consultation E & M - emergency care

E & M - home visit E & M - hospital E & M - nursing home E & M - other E & M - prevention Electrocardiogram - EKG monitoring Electrophysiology Studies, Cryoablation HbA1C Hearing Test Heart Echo / Ultrasound Heart valve procedures Hepatitis B vaccine High dose steroids Home Health / Hospice Home Health Services Hormone Therapy HPV VACCINE Imaging - arteriography - extremities Imaging - arteriography - other Imaging - arteriography - renal Imaging - ct - aorta Imaging - ct - cardiac Imaging - ct - chest Imaging - ct - follow - up Imaging - ct - guidance Imaging - ct - head / brain Imaging - ct - other Imaging - cta - aorta Imaging - cta - chest Imaging - cta - coronary Imaging - cta - head / neck Imaging - mra - chest Imaging - mra - head Imaging - mri - brain Imaging - mri - chest Imaging - mri - contrast agent Imaging - mri - guidance Imaging - mri - lower extremity Imaging - mri - other Imaging - nuclear - bladder / ureter Imaging - nuclear - blood / plasma volume - radiopharmaceutical Imaging - nuclear - blood / plasma volume - scan Imaging - nuclear - bone scan - radiopharmaceutical Imaging - nuclear - brain - radiopharmaceutical Imaging - nuclear - csf - radiopharmaceutical Imaging - nuclear - csf - scan Imaging - nuclear - hepatobiliary ductal scan - radiopharmaceutical

	Imaging - nuclear - kidney - radiopharmaceutical	Lab - cytology
	Imaging - nuclear - kidney - scan	Lab - endocrine
	Imaging - nuclear - localization of inflammation	Lab - endocrine response test
	Imaging - nuclear - lung scan	Lab - genetic testing - brugada syndrome
	Imaging - nuclear - lymphatics	Lab - genetic testing - cardiac ion channel syndrome
	Imaging - nuclear - other	Lab - gi - fat absorption
	Imaging - nuclear - other - automated data add - on	Lab - hematology - blood count
	Imaging - nuclear - other blood / related	Lab - hematology - blood count - eosinophil count
	Imaging - nuclear - other musculoskeletal	Lab - hematology - coagulation
	Imaging - nuclear - platelet kinetics	Lab - immunology
	Imaging - nuclear - radiopharmaceutical - radiopharmaceutical - other	Lab - infectious agent antibody
	Imaging - nuclear - red cell survival	Lab - infectious agent antigen
	Imaging - nuclear - shilling test - radiopharmaceutical	Lab - infectious agent dna
	Imaging - nuclear - thyroid - radiopharmaceutical	Lab - microbiology
	Imaging - nuclear - tumor localization	Lab - microbiology - c & s
	Imaging - nuclear - venous thrombosis - radiopharmaceutical	Lab - microbiology - microscopic exam
	Imaging - nuclear - venous thrombosis - scan	Lab - microbiology - other
	Imaging - other imaging	Lab - microbiology - viral culture
	Imaging - other imaging - fluoroscopy	Lab - microscopic - koh prep
	Imaging - other imaging - fluoroscopy - guidance	Lab - microscopic - wet mount
	Imaging - pet - colorectal cancer - recurrence / metastasis	Lab - other clinical lab
	Imaging - pet - lymphoma - staging	Lab - other hematology
	Imaging - pet - other	Lab - pathology consultation
	Imaging - pet - tumor imaging	Lab - specimen collection - blood - arterial - arterial puncture
	Imaging - supplies - contrast agent - high osmolar	Lab - specimen collection - blood - venous - venipuncture
	Imaging - supplies - contrast agent - low osmolar	Lab - specimen collection - blood - venous - venous port
	Imaging - supplies - ultrasound related	Lab - specimen collection - specimen handling
	Imaging - therapeutic procedure - abscess drainage	Lab - specimen collection - urine
	Imaging - therapeutic procedure - other therapeutic procedure	Lab - stat request
	Imaging - us - extremity	Lab - surgical pathology
	Imaging - us - eye	Lab - therapeutic drug assay
	Imaging - us - guide - biopsy	Lab - tissue typing
	Imaging - us - guide - other	Lab - transfusion medicine
	Imaging - us - head / neck	Lab - urinalysis
	Imaging - us - intravascular	Laboratory - Chemistry and Hematology
	Imaging - us - other	LEAD SCREENING
	Imaging - us - retroperitoneum	Lipid Level Monitoring
	Imaging - us - retropentoneum Imaging - venography - other	Low dose steroids
	Imaging - venography - other Imaging - x-ray - other - joint survey	Lung Function Tests
		LVEF < 40% or LV systolic dysfunction
	Imaging - x-ray - ribs	
	Imaging Abdomen	Magnetic resonance imaging
	IMMUNOTHERAPY	Markers for Inflammation
	Insertion, revision, replacement, removal of cardiac pacemaker or cardioverter/d	
	Lab - blood gases	Medication Therapy Management Services
	Lab - chemistry	Medications (Injections, infusions and other forms)
al	Lab - chemistry and toxicology tests	Metabolic Renal Hepatic Chemistry Panel
al	Lab - cytogenetics	NewBorn Blood Tests



Opioid Administration / Dispensing (OTP) Other - non - covered Other care - bladder / bowel care - catheter Other care - bladder / bowel care - drainage bag Other care - bladder / bowel care - other supplies Other care - bladder / bowel care - other supplies - diaper / related Other care - bladder / bowel care - other supplies - skin barrier Other care - chronic edema - appliance - limb compression Other care - chronic edema - appliance - non - segmental Other care - chronic edema - appliance - segmental Other care - chronic edema - compression stocking Other care - chronic edema - compressor Other care - chronic edema - compressor - non - segmental Other care - chronic edema - compressor - segmental Other care - chronic edema - surgical stockings Other care - diabetes care - glucose monitoring Other care - diabetes care - insulin pump Other care - home care - emergency response system Other care - home care - home health aide Other care - home care - meals Other care - home care - nursing care Other care - home care - nursing care - Ipn Other care - home care - nursing care - np Other care - home care - nursing care - rn Other care - home care - other care Other care - home care - other care - attendant care Other care - home care - other care - chore care Other care - home care - other care - companion care Other care - home care - other care - day care Other care - home care - other care - homemaker Other care - home care - other care - respite care Other care - home care - physician supervision Other care - home care - rehabilitation - occupational therapy Other care - home care - rehabilitation - physical therapy Other care - home care - social worker Other care - home care - specialized visit Other care - home care - training Other care - hospice Other care - long term care - assisted living Other care - long term care - residential care Other care - nutrition - assessment Other care - nutrition - counseling - dietician Other care - nutrition - education Other care - nutrition - enteral Other care - nutrition - enteral - administration Other care - nutrition - enteral - formula

Online Management

Other care - nutrition - enteral - pump Other care - nutrition - enteral - tubing Other care - nutrition - medical food Other care - nutrition - parenteral Other care - nutrition - parenteral - nutrition solution Other care - nutrition - parenteral - pump Other care - observation Other care - other Other care - other - ancillary services Other care - other - education Other care - other - exercise classes Other care - other - external counterpulsation Other care - other - external defibrillator Other care - other - infection control Other care - other - irrigation Other care - other - lodging Other care - other - meals Other care - other - medical records Other care - other - pacemaker - monitor Other care - other - pvd - compressor Other care - other - weight management Other care - pain management - pca / related Other care - prevention - smoking cessation Other care - respiratory - equipment / supplies Other care - respiratory - equipment / supplies - apnea monitor Other care - respiratory - equipment / supplies - cpap Other care - respiratory - equipment / supplies - ippb Other care - respiratory - equipment / supplies - nebulizer Other care - respiratory - equipment / supplies - peak flow meter Other care - respiratory - equipment / supplies - spirometer Other care - respiratory - equipment / supplies - ventilator Other care - respiratory - other Other care - respiratory - oxygen / oxygen concentrator Other care - respiratory - tracheostomy care Other care - respiratory - ventillator management Other care - respiratory therapy Other care - wound care Other care - wound care - electromagnetic therapy Other care - wound care - growth factor Other care - wound care - hyperbaric oxygen Other diagnostic cardiovascular procedures Other diagnostic procedures (interview, evaluation, consultation) Other diagnostic ultrasound Other Laboratory Other non-OR therapeutic cardiovascular procedures Other OR heart procedures Other OR procedures on vessels other than head and neck

Pacemaker Defibrillator Check Pathology Peer Services Personal Care Services Physical Therapy / Rehab Physician Services Physician Services - Inpatient Physician Services - Outpatient PORI Preventive Medicine, Care Coordination Procedure - anesthesia Procedure - anesthesia - related supplies Procedure - artery - abdomen - angioplasty - transluminal / percutaneous Procedure - artery - abdomen - atherectomy - transluminal / percutaneous Procedure - artery - extremity - angioplasty - transluminal / percutaneous Procedure - sedation Procedure - artery - extremity - atherectomy - transluminal / percutaneous Procedure - artery - nos - angioplasty / stenting Procedure - artery - nos - atherectomy - catheter Procedure - artery - nos - thrombolysis Procedure - artery / vein - nos - closure / closure device Procedure - artery / vein - nos - other Procedure - artery / vein - nos - thrombectomy catheter Procedure - biopsy - endocardium Procedure - block - nerve Procedure - bronchoscopy - dx + / - wash / brushing - bronchoscopy - dx + / - wa Procedure - bronchoscopy - other Procedure - bronchoscopy w / alveolar lavage Procedure - bronchoscopy w / biopsy Procedure - cardiac - other Procedure - cardiac - other or Prosthetics - other Procedure - cardiac assist device - intra - aortic balloon Procedure - cardiac assist device - lvad Procedure - cardioversion Psychiatry Services Procedure - catheter - arterial - arterial line for monitoring Procedure - central venous catheter - fluoroscopy - guidance Risk Assessment Procedure - central venous catheter - insertion Procedure - central venous catheter - repair / maintenance Procedure - chest tube / thoracentesis - insertion of chest tube Procedure - chest tube / thoracentesis - thoracentesis Procedure - coronary - ptca - stent Procedure - debridement of nails Procedure - extracorporeal circulation Procedure - graft - skin - graft material Procedure - maintenance - cns / spinal pump / port Procedure - ortho - related supplies - other Procedure - other anal / rectal procedures - other procedures - rectum / anus Procedure - other non - or rx - other non - or skin procedures

Procedure - pacemaker / defibrillator - transcutaneous pacing Procedure - pericardiocentesis Procedure - peripheral nerve repair / graft - graft / guide Procedure - peripheral venous catheter Procedure - related supplies - ablation - catheter Procedure - related supplies - access catheter Procedure - related supplies - catheter Procedure - related supplies - dilation / stenting Procedure - related supplies - drainage Procedure - related supplies - graft - tendon repair Procedure - related supplies - graft / repair Procedure - related supplies - implant Procedure - related supplies - other Procedure - related supplies - resection - morcellator Procedure - related supplies - retrieval - device Procedure - spinal canal - catheter Procedure - suture - skin - repair of superficial wound Procedure - thyroid ablation - radionucleotide Procedure - vascular - occlusion / embolization - transcatheter Procedure - vascular - related supplies - angioplasty Procedure - vascular - related supplies - atherectomy Procedure - vascular - related supplies - embolization protective system Procedure - vascular - related supplies - graft material Procedure - vascular - related supplies - occlusion catheter Procedure - vascular access - port / pump - insertion Procedure - vein - nos - angioplasty Procedure - vein - vena cava - filter Procedures and Reporting Prophylactic vaccinations and inoculations Psychiatry Evaluations Psychological and psychiatric evaluation and therapy RADIATION TREATMENTS Routine Immunizations Rx - administration - infusion Rx - administration - injection Rx - allergy - antihistamines / comb Rx - analg/antipy/nsaids - narcotics Rx - analg/antipy/nsaids - nsaids Rx - antibiotics - aminoglycosides Rx - antibiotics - anti-infectives, misc Rx - antibiotics - cephalosporins Rx - antibiotics - chloramphenicol / comb Rx - antibiotics - macrolides



Rx - antibiotics - penicillins Rx - antibiotics - quinolones Rx - antibiotics - sulfonamides / comb Rx - antibiotics - tetracyclines Rx - antibiotics / antivirals / antifungals - infusion Rx - antibiotics, misc Rx - antidiabetic rx - insulins Rx - antifungals Rx - antivirals Rx - autonomic rx - nicotine preps Rx - autonomic rx - parasympathomimetics Rx - autonomic rx - sympathomimetic rx Rx - b-lactam antibiotics Rx - blood derivatives Rx - cardiovascular system - antiarrhythmic rx Rx - cardiovascular system - beta blockers Rx - cardiovascular system - cardiac drugs Rx - cardiovascular system - cardiac glycosides Rx - cardiovascular system - hypotensive rx Rx - cardiovascular system - natriuretic peptides Rx - cardiovascular system - vasodilating agents, nec Rx - cardiovascular system - vasodilating rx Rx - central nervous system - anticonvulsants Rx - central nervous system - antidepressants Rx - central nervous system - anxiolytic/sedative/hypnot nec Rx - central nervous system - barbiturates Rx - central nervous system - benzodiazepines Rx - central nervous system - non-amphetamine stimulants Rx - central nervous system - symnpatholytic rx Rx - central nervous system - trang/antipsychotics Rx - central nervous system - vascular 5ht1 agonists Rx - coagulation system - anticoagulants Rx - coagulation system - antiheparin agnt Rx - coagulation system - antiplatelet rx Rx - coagulation system - hemostatics Rx - coagulation system - thrombolytic rx Rx - diagnostic rx - gastric function Rx - diagnostic rx - roentgenography Rx - diagnostic rx - thyroid function Rx - diagnostic rx, misc Rx - diuretics - diuretic, carb anhydrase inhib Rx - diuretics, loop diuretics Rx - diuretics, osmotic Rx - diuretics, thiazides / related Rx - eent - topical - eve/ear/nose/throat misc Rx - electrolytic, caloric, water - calcium supplements Rx - electrolytic, caloric, water - caloric rx dextrose / rel

Rx - electrolytic, caloric, water - caloric rx, amino acid prep Rx - electrolytic, caloric, water - hydration - unspecfied Rx - electrolytic, caloric, water - multi-mineral prep Rx - electrolytic, caloric, water - potassium supp Rx - electrolytic, caloric, water - replacement preparations, misc Rx - electrolytic, caloric, water - sodium chlor preps Rx - endocrine - other - parathyroid hormones Rx - gi - antichol/antispasmodics Rx - gi - antiemetics Rx - gi - h2 antagonists Rx - gi - ppis Rx - gi drug misc,nec Rx - gu - other - bladder rx Rx - hematopoietic system - hematopoietic growth factors Rx - hematopoietic system - iron / related Rx - hematopoietic system - other Rx - immune system - dmard / related Rx - immune system - interferons Rx - miscellaneous rx Rx - miscellaneous rx - anesthetics, local Rx - miscellaneous rx - enzymes Rx - muscle relaxants - muscle relax, neuromusc block Rx - muscle relaxants - muscle relax, skeletal central Rx - muscle relaxants - muscle relax, skeletal, misc Rx - other Rx - pharmacy fee Rx - reproductive system - progestins Rx - respiratory - beta agonists Rx - respiratory - methylxanthines Rx - respiratory - mucolytics/cold comb Rx - respiratory - phenylephrine Rx - serums, toxoids, vaccines - serums Rx - serums, toxoids, vaccines - toxins Rx - skin / mucous membrane - antiinflam s/mm agnts / comb nec Rx - skin / mucous membrane - s/mm miscellaneous Rx - vitamins - multivit prep Rx - vitamins - vitamin b / b complex Rx - vitamins - vitamin d Screen for amino acid disorders Shock / Cardiac Arrest Smoking / Tobacco Cessation Subsequent Physician Services Inpatient Supplies Tests - allergy tests - intradermal Tests - allergy tests - other Tests - allergy tests - patch Tests - allergy tests - percutaneous

Tests - cardiac - analysis - pace / defib Tests - cardiac - doppler Tests - cardiac - ecg - ecg - 12 lead Tests - cardiac - ecg - other Tests - cardiac - ecg monitoring - event recorder Tests - cardiac - echo - contrast agent Tests - cardiac - echo - intracardiac Tests - cardiac - electrophysiology - other Tests - cardiac - electrophysiology - supplies - other Tests - cardiac - electrophysiology - tilt table evaluation Tests - cardiac - monitoring - chf Tests - cardiac - other Tests - cardiac - radiopharmaceuticals Tests - cardiac - swan ganz Tests - cardiac stress tests - cardiac perfusion scan - rest / exercise Tests - cardiac stress tests - cardiac stress tests - other Tests - cardiovascular - other Tests - ent - other dx Tests - eve - dx - other Tests - gi - other dx Tests - gu - post void residual / bladder capacity Tests - gu - urodynamics - voiding pressure Tests - neuro - eea Tests - neuro - evoked potentials Tests - neuro - muscle testing Tests - neuro - ncv / ema Tests - neuro - other Tests - neuro - sleep studies Tests - other cardiac scans Tests - other cardiac scans - infarct scan Tests - pulmonary - other Tests - pulmonary - peak flow Tests - vascular - arterial - extremity Tests - vascular - cerebrovascular Tests - vascular - other Tests - vascular - venous Therapy - accupuncture Therapy - activity therapy Therapy - allergy treatment Therapy - apheresis Therapy - behavior - evaluation and therapy Therapy - behavior - other Therapy - behavior - partial hospilization Therapy - biofeedback Therapy - cardiac rehab Therapy - chiropractic / osteopathic manipulation Therapy - dialysis - supplies

Therapy - habilitation Therapy - hyperbaric oxygen Therapy - neurostimulator - incontinence Therapy - neurostimulator - other Therapy - neurostimulator - tens - device Therapy - neurostimulator - tens - leads Therapy - neurostimulator - tens - supplies Therapy - other Therapy - phlebotomy Therapy - pt - exercises / activities Therapy - pt - modalities Therapy - rehabilitation Therapy - rehabilitation - other Therapy - transfusion - administration Therapy - transfusion - blood Therapy - transfusion - granulocytes Therapy - transfusion - plasma Therapy - transfusion - platelets Therapy - ultraviolet light therapy Therapy - vaccination - chicken pox Therapy - vaccination - dtp / related Therapy - vaccination - hepatitis a vaccine Therapy - vaccination - hepatitis b Therapy - vaccination - hib vaccine Therapy - vaccination - mmr / related Therapy - vaccination - other vaccine Therapy - vaccination - poliovirus vaccine Therapy - vaccination - vaccine administration Thyroid Function Tests Traction, splints, and other wound care Transitional Care Management Transportation - other transportation Transportation - paramedic Ungrouped Codes Upper GI endoscopy Urine Protein Vaccine for flu or Pneumonia Vitamin K administration Wellness Assessment



Relevant Diagnoses – ICD-10

STEMI Subendocardial Infarct

Complications – ICD-10

Accidental Falls	Decubitus Ulcer	Influenza with Pneumonia	Sepsis
Acute CHF / pulm edema	Dehydration	IVC & other intra-abd venous thrombosis	Severe Sepsis
Acute cor pulmonale	Delirium, Encephalopathy	Malfunction / Complication of Heart Device	Shock / Cardiac Arrest
Acute esophagitis, acute gastritis, duodenitis	Dermatitis, Urticaria	Meningitis / Encephalitis	Shock during or following cardiac surgery
Acute Kidney Failure	Diabetes, poor control	MRSA Pneumonia	Shock during or post-procedure
Adverse effects of drugs	dic, coagulation, hemorrhagic disorders	MRSA, Drug Resistant Infections	Skin - other
Altered mental status	empyema, lung abscess	Opportunistic Infections	Suicide or Self-inflicted Injury
arterial thromboembolism	Esophageal Reflux and Other Esophagitis	Other bacterial infections	Thromboembolic Stroke
Aspiration Pneumonia	Fluid Electrolyte Acid Base Problems	Other Bacterial Pneumonia	Tracheostomy Complications
Bacteremia, SIRS, no organ dysfunction	Foreign body left during procedure	Other lower respiratory disease	Transfusion, Infusion related complications
C-Difficile Infection	Gastroenteritis	other lung complications	
Chronic Fungal and Other Pneumonias	GI Bleed	Other lung problems	Transient cerebral ischemia, TIA
Coma, persistent vegetative state	Gram Negative Pneumonia	Other Mental Disorders	Urethral Stricture
Complication of genitourinary device	HAC 02: Air Embolism	Other Phlebitis, Lymphangitis, varices	Urinary Frequency & other symptoms
Complication of Implanted device, graft	HAC 04: Stage III and IV Pressure Ulcers	Other Staph Pneumonia	Urinary Tract Infection
Complications after heart procedures	HAC 09: Manifestations of Poor Glycemic Control	Phlebitis, Deep vein thrombosis (DVT)	Vascular Prosthetic Device/Graft
Complications from Central Line	Hemoptysis	Pulmonary Embolism	Complication
Complications from chemotherapy	Hemorrhage	Renovascular and other secondary hypertension	Ventilator Associated Pnuemonia
Complications of anesthesia	Hemorrhagic Stroke	Resp Failure following trauma / surgery	Ventilator Dependence
complications of medical care	Hepatorenal Syndrome	Respiratory Failure	Viral Pneumonia
complications of surgical procedures	Hypertensive Urgency	Respiratory Insufficiency	Wound Dehiscence
Debilitating Viral Pneumonia	Hypotension / Syncope	rhabdomyolysis	Wound Infections



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CABG &/or Valve Procedures (CxCABG)

The Services and costs associated with a procedure of coronary artery bypass grafting, with or without valve surgery, arrhythmia surgery, or other related open-heart procedures, are grouped together into a complex coronary artery bypass graft (CxCABG) episode. If the procedure is performed in the setting of an AMI, it is regarded as typical care for the AMI episode.



Episode Length – CxCABG



Episode Triggers – CxCABG

Trigger Group Name	Code Type	Codes
Coronary Artery Bypass Graft (CABG)	CPT	33510-33536
Heart Valve Repair, Outflow Reconstruction	CPT	33400-33496 33860-33870
Heart Valve Replacement	CPT	33405-33413, 33430, 33465, 33475
REDO CABG	CPT	33530



Trigger Diagnoses – ICD-10

Acute CHF / pulm edema	Мус
Acute myocardial infarction	Oth
Acute pericarditis	Oth
Atrial Flutter / Fibrillation	Oth
Cardiomyopathy	Oth
Chronic Heart Failure, Degeneration	Oth
Congestive heart failure; nonhypertensive	Pre
Coronary Artery Anomaly	Pre
Coronary Artery Bypass Graft (CABG)	Pre
CV - atherosclerosis - aorta	Pre
CV - other heart ds	
Endocarditis	Puli
Heart Aneurysm and other Sequelae of AMI	Rec
Heart Failure unspecified as acute or chronic	red
Heart Valve Disorders	Res
Heart Valve Repair, Outflow Reconstruction	Sin
heart valve replacement	STE
Highgrade Heart Block	Sub
Hypertensive Heart Disease	Sup
Hypertensive Heart Disease w Heart Failure	Tra
Hypertensive Heart Disease w Heart Failure & CKD	Uns
Marfan's Syndrome	Ver

Myocarditis
Other cardiac arrhythmias
Other Cardiovascular Disease
Other Heart Blocks / Conduction Disorders
Other heart disease
Other lung problems
Premature Beats
Previous CABG
Previous heart valve replacement
Previous PCI
Pulmonary heart disease
Recent AMI
redo cabg
Resp - abnormal chest sounds
Sinus Node Dysfunction
STEMI
Subendocardial Infarct
Supraventricular Tachyarrhythmias
Transplanted Heart w Angina
Unstable angina
Ventricular Arrhythmias



Advance care planning
Alcohol / Drug Use Management
Alcohol / Drug Use Screening
Ancillary Services
Anesthesia
Aortic resection, replacement or anastomosis
Bleeding Status
Blood Count
Blood Gases, Pulse Oximetry
Blood transfusion
Blood Type, Coomb's test
Bundled Payment / Medical Home
Bypass Coronary Artery, Percutaneous Endoscopic Approach
Cardiac cath & Angiogram
Cardiac Stress Test
Care Plan Oversight
Case Management Services
Case Management Services - Behavioral
CHEMOTHERAPY
Chest X-Ray
CHLAMYDIA SCREENING
Chronic Care Management
Colonoscopy/Sigmoidoscopy ColorectalCa Screen
Coordinated Care Fees/Services
Coronary Artery Bypass Graft (CABG)
Coronary Thrombolysis
Counseling Services
Diagnostic physical therapy
Diagnostic ultrasound of abdomen or retroperitoneum
Diagnostic ultrasound of heart (echocardiogram)
Dilation of Coronary Artrey, Open Approach
DME - bath / toilet aids
DME - beds / accessories
DME - heat/cold application
DME - mobility aids
DME - other
DME - patient lifts
DME - repair / maintenance
DME - restraints
DME - safety equipment
DME - wound therapy
DME and supplies
Drug Deilvery implantation
E & M - consultation
E & M - emergency care
E & M - home visit
E & M - hospital

E & M - nursing home E & M - other E & M - prevention Electrocardiogram - EKG monitoring Electrographic cardiac monitoring Electrophysiology Studies, Cryoablation Endovascular Repair of Heart Valves Extracorporeal shock wave, other than urinary HbA1C Hearing Test Heart Echo / Ultrasound Heart valve procedures Heart Valve Repair, Outflow Reconstruction heart valve replacement Hepatitis B vaccine High dose steroids Home Health / Hospice Home Health Services Hormone Therapy HPV VACCINE Imaging - arteriography - extremities Imaging - arteriography - other Imaging - arteriography - renal Imaging - ct - aorta Imaging - ct - cardiac Imaging - ct - chest Imaging - ct - follow - up Imaging - ct - guidance Imaging - ct - head / brain Imaging - ct - other Imaging - cta - aorta Imaging - cta - chest Imaging - cta - coronary Imaging - cta - head / neck Imaging - mra - chest Imaging - mra - head Imaging - mri - brain Imaging - mri - chest Imaging - mri - contrast agent Imaging - mri - guidance Imaging - mri - lower extremity Imaging - mri - other Imaging - nuclear - bladder / ureter Imaging - nuclear - blood / plasma volume - radiopharmaceutical Imaging - nuclear - blood / plasma volume - scan Imaging - nuclear - brain - radiopharmaceutical Imaging - nuclear - csf - scan

Imaging - nuclear - hepatobiliary ductal scan - radiopharmaceutical	Lab - cytology
Imaging - nuclear - kidney - radiopharmaceutical	Lab - endocrine
Imaging - nuclear - kidney - scan	Lab - genetic testing - brugada syndrome
Imaging - nuclear - localization of inflammation	Lab - genetic testing - cardiac ion channel syndrome
Imaging - nuclear - lung scan	Lab - gi - fat absorption
Imaging - nuclear - lymphatics	Lab - hematology - blood count
Imaging - nuclear - other	Lab - hematology - blood count - eosinophil count
Imaging - nuclear - other - automated data add - on	Lab - hematology - coagulation
Imaging - nuclear - other blood / related	Lab - immunology
Imaging - nuclear - other musculoskeletal	Lab - infectious agent antibody
Imaging - nuclear - platelet kinetics	Lab - infectious agent antigen
Imaging - nuclear - radiopharmaceutical - radiopharmaceutical - other	Lab - infectious agent dna
Imaging - nuclear - red cell survival	Lab - microbiology
Imaging - nuclear - shilling test - radiopharmaceutical	Lab - microbiology - c & s
Imaging - nuclear - tumor localization	Lab - microbiology - microscopic exam
Imaging - nuclear - venous thrombosis - radiopharmaceutical	Lab - microbiology - other
Imaging - nuclear - venous thrombosis - scan	Lab - microbiology - viral culture
Imaging - other imaging	Lab - microscopic - koh prep
Imaging - other imaging - fluoroscopy	Lab - microscopic - wet mount
Imaging - other imaging - fluoroscopy - guidance	Lab - other clinical lab
Imaging - pet - other	Lab - other hematology
Imaging - supplies - contrast agent - high osmolar	Lab - pathology consultation
Imaging - supplies - contrast agent - low osmolar	Lab - specimen collection - blood - arterial - arterial puncture
Imaging - supplies - ultrasound related	Lab - specimen collection - blood - venous - venipuncture
Imaging - supplies - unasound related	Lab - specimen collection - blood - venous - venous port
Imaging - therapeutic procedure - abscess drainage	Lab - specimen collection - specimen handling
Imaging - us - extremity	Lab - specimen collection - specimen handling
Imaging - us - eye	Lab - stat request
Imaging - us - guide - biopsy	Lab - surgical pathology
Imaging - us - guide - other	Lab - surgical particlegy
Imaging - us - head / neck	Lab - transfusion medicine
Imaging - us - intravascular	Lab - urinalysis
Imaging - us - other Imaging - us - retroperitoneum	Laboratory - Chemistry and Hematology LEAD SCREENING
	Lipid Level Monitoring
Imaging - venography - other	
Imaging - x-ray - other - joint survey	Low dose steroids
Imaging - x-ray - ribs	Lung Function Tests
Imaging - x-ray - upper gi - other	LVEF < 40% or LV systolic dysfunction
Imaging - x-ray - upper gi - small bowel - contrast	Magnetic resonance imaging
Imaging - x-ray - urinary tract - cystography / voiding cystourethrogram	Markers for Inflammation
Imaging - x-ray - urinary tract - other	Medication Assisted Management (MAT)
Imaging Abdomen	Medication Therapy Management Services
Insertion of catheter or spinal stimulator and injection into spinal canal	Medications (Injections, infusions and other forms)
Insertion, revision, replacement, removal of cardiac pacemaker or cardioverter/d	Metabolic Renal Hepatic Chemistry Panel
Lab - blood gases	Minimally Invasive CABG
Lab - chemistry	NewBorn Blood Tests
Lab - chemistry and toxicology tests	Online Management



Open Coronary Endarterectomy

Opioid Administration / Dispensing (OTP) Orthotics - upper extremity Other - non - covered Other care - bladder / bowel care - catheter Other care - bladder / bowel care - drainage bag Other care - bladder / bowel care - other supplies Other care - bladder / bowel care - other supplies - diaper / related Other care - bladder / bowel care - other supplies - skin barrier Other care - chronic edema - appliance - limb compression Other care - chronic edema - appliance - non - segmental Other care - chronic edema - appliance - segmental Other care - chronic edema - compression stocking Other care - chronic edema - compressor Other care - chronic edema - compressor - non - segmental Other care - chronic edema - compressor - segmental Other care - chronic edema - surgical stockings Other care - diabetes care - glucose monitoring Other care - diabetes care - glucose monitoring - lancet Other care - diabetes care - glucose monitoring - other supplies Other care - diabetes care - insulin pump Other care - home care - emergency response system Other care - home care - home health aide Other care - home care - meals Other care - home care - nursing care Other care - home care - nursing care - Ipn Other care - home care - nursing care - np Other care - home care - nursing care - rn Other care - home care - other care Other care - home care - other care - attendant care Other care - home care - other care - chore care Other care - home care - other care - companion care Other care - home care - other care - day care Other care - home care - other care - homemaker Other care - home care - other care - respite care Other care - home care - physician supervision Other care - home care - rehabilitation - occupational therapy Other care - home care - rehabilitation - physical therapy Other care - home care - rehabilitation - speech therapy Other care - home care - social worker Other care - home care - specialized visit Other care - home care - training Other care - hospice Other care - long term care - assisted living Other care - long term care - residential care Other care - nutrition - assessment Other care - nutrition - counseling - dietician

Other care - nutrition - education Other care - nutrition - enteral Other care - nutrition - enteral - administration Other care - nutrition - enteral - formula Other care - nutrition - enteral - pump Other care - nutrition - enteral - tubing Other care - nutrition - medical food Other care - nutrition - parenteral Other care - nutrition - parenteral - all - inclusive Other care - nutrition - parenteral - nutrition solution Other care - nutrition - parenteral - pump Other care - observation Other care - other Other care - other - ancillary services Other care - other - education Other care - other - exercise classes Other care - other - external counterpulsation Other care - other - external defibrillator Other care - other - infection control Other care - other - irrigation Other care - other - lodging Other care - other - meals Other care - other - medical records Other care - other - pacemaker - monitor Other care - other - pvd - compressor Other care - other - weight management Other care - pain management - pca / related Other care - prevention - smoking cessation Other care - respiratory - equipment / supplies Other care - respiratory - equipment / supplies - apnea monitor Other care - respiratory - equipment / supplies - cpap Other care - respiratory - equipment / supplies - ippb Other care - respiratory - equipment / supplies - nebulizer Other care - respiratory - equipment / supplies - peak flow meter Other care - respiratory - equipment / supplies - spirometer Other care - respiratory - equipment / supplies - ventilator Other care - respiratory - other Other care - respiratory - oxygen / oxygen concentrator Other care - respiratory - tracheostomy care Other care - respiratory - ventillator management Other care - respiratory therapy Other care - wound care Other care - wound care - electromagnetic therapy Other care - wound care - growth factor Other care - wound care - hyperbaric oxygen Other diagnostic cardiovascular procedures

Other diagnostic procedures (interview, evaluation, consultation)

Other diagnostic ultrasound Other Laboratory Other non-OR therapeutic cardiovascular procedures Other OR heart procedures Other OR procedures on vessels other than head and neck Other Surgery of Heart & Valve Pacemaker Defibrillator Check Pathology PCI with stents, atherectomy Peer Services Personal Care Services Physical Therapy / Rehab Physician Services **Physician Services - Inpatient** Physician Services - Outpatient PORI Preventive Medicine, Care Coordination Procedure - ablation - arrhythmia - open Procedure - anesthesia Procedure - anesthesia - related supplies Procedure - aorta - repair - aneurysm / dissection - endovascular Procedure - aorta - repair - aneurysm / dissection - open Procedure - artery - abdomen - angioplasty - transluminal / open Procedure - artery - abdomen - angioplasty - transluminal / percutaneous Procedure - artery - abdomen - atherectomy - transluminal / percutaneous Procedure - artery - extremity - angioplasty - transluminal / percutaneous Procedure - artery - extremity - atherectomy - transluminal / percutaneous Procedure - artery - iliac - repair / graft - endovascular Procedure - artery - nos - angioplasty / stenting Procedure - artery - nos - atherectomy - catheter Procedure - artery - nos - thrombolysis Procedure - artery - pulmonary - angioplasty - percutaneous Procedure - artery - thorax - embolectomy / thrombectomy Procedure - artery / vein - nos - closure / closure device Procedure - artery / vein - nos - other Procedure - artery / vein - nos - thrombectomy catheter Procedure - biopsy - endocardium Procedure - block - nerve Procedure - cardiac - other Procedure - cardiac - other or Procedure - cardiac assist device - intra - aortic balloon Procedure - cardiac assist device - lvad Procedure - cardioversion Procedure - catheter - arterial - arterial line for monitoring Procedure - catheter - arterial - selective branch catheter Procedure - central venous catheter - fluoroscopy - guidance Procedure - central venous catheter - insertion

Procedure - central venous catheter - repair / maintenance Procedure - chest tube / thoracentesis - insertion of chest tube Procedure - chest tube / thoracentesis - thoracentesis Procedure - coronary - cabg Procedure - coronary - ptca - stent Procedure - debridement - wound / infection / burn - debridement Procedure - debridement of nails Procedure - esophageal / gastric intubation Procedure - extracorporeal circulation Procedure - gastrostomy Procedure - graft Procedure - graft - skin - graft material Procedure - great vessels - thorax - repair / graft Procedure - gu - other non - or rx Procedure - heart valve - other Procedure - i&d - skin - drainage of abscess Procedure - maintenance - cns / spinal pump / port Procedure - other anal / rectal procedures - other procedures - rectum / anus Procedure - other non - or rx - other non - or skin procedures Procedure - pacemaker / defibrillator - transcutaneous pacing Procedure - pericardiocentesis Procedure - peripheral nerve repair / graft - graft / guide Procedure - peripheral venous catheter Procedure - related supplies - ablation - catheter Procedure - related supplies - access catheter Procedure - related supplies - catheter Procedure - related supplies - dilation / stenting Procedure - related supplies - drainage Procedure - related supplies - graft - tendon repair Procedure - related supplies - graft / repair Procedure - related supplies - implant Procedure - related supplies - other Procedure - related supplies - resection - morcellator Procedure - related supplies - retrieval - device Procedure - sedation Procedure - suture - skin - complex wound repair Procedure - suture - skin - layer closure of wound Procedure - suture - skin - repair of superficial wound Procedure - vascular - occlusion / embolization - transcathete Procedure - vascular - related supplies - angioplasty Procedure - vascular - related supplies - atherectomy Procedure - vascular - related supplies - embolization protective system Procedure - vascular - related supplies - graft material Procedure - vascular - related supplies - occlusion cathete Procedure - vascular access - port / pump - insertion Procedure - vein - nos - angioplasty Procedure - vein - nos - vein harvest



Procedure - vein - upper extremity - vein harvest Procedure - vein - vena cava - filter Procedures and Reporting Prophylactic vaccinations and inoculations Prosthetics - other Psychiatry Evaluations Psychiatry Services Psychological and psychiatric evaluation and therapy redo cabg **Risk Assessment** Robotic Surgery Rx - administration - infusion Rx - administration - injection Rx - allergy - antihistamines / comb Rx - analg/antipy/nsaids - narcotics Rx - analg/antipy/nsaids - nsaids Rx - antibiotics - aminoglycosides Rx - antibiotics - anti-infectives, misc Rx - antibiotics - cephalosporins Rx - antibiotics - chloramphenicol / comb Rx - antibiotics - macrolides Rx - antibiotics - penicillins Rx - antibiotics - quinolones Rx - antibiotics - sulfonamides / comb Rx - antibiotics - tetracyclines Rx - antibiotics / antivirals / antifungals - infusion Rx - antibiotics, misc Rx - antidiabetic rx - insulins Rx - antifungals Rx - autonomic rx - nicotine preps Rx - autonomic rx - parasympathomimetics Rx - autonomic rx - sympathomimetic rx Rx - b-lactam antibiotics Rx - blood derivatives Rx - cardiovascular system - antiarrhythmic rx Rx - cardiovascular system - beta blockers Rx - cardiovascular system - cardiac drugs Rx - cardiovascular system - cardiac glycosides Rx - cardiovascular system - hypotensive rx Rx - cardiovascular system - natriuretic peptides Rx - cardiovascular system - vasodilating agents, nec Rx - cardiovascular system - vasodilating rx Rx - central nervous system - amphetamines Rx - central nervous system - anticonvulsants Rx - central nervous system - antidepressants Rx - central nervous system - anxiolytic/sedative/hypnot nec Rx - central nervous system - barbiturates

Rx - central nervous system - benzodiazepines Rx - central nervous system - non-amphetamine stimulants Rx - central nervous system - symnpatholytic rx Rx - central nervous system - trang/antipsychotics Rx - central nervous system - vascular 5ht1 agonists Rx - coagulation system - anticoagulants Rx - coagulation system - antiheparin agnt Rx - coagulation system - antiplatelet rx Rx - coagulation system - hemostatics Rx - coagulation system - thrombolytic rx Rx - diagnostic rx - gastric function Rx - diagnostic rx - roentgenography Rx - diagnostic rx, misc Rx - diuretics - diuretic, carb anhydrase inhib Rx - diuretics, loop diuretics Rx - diuretics, osmotic Rx - diuretics, thiazides / related Rx - eent - topical - eye/ear/nose/throat misc Rx - electrolytic, caloric, water - calcium supplements Rx - electrolytic, caloric, water - caloric rx dextrose / rel Rx - electrolytic, caloric, water - caloric rx, amino acid prep Rx - electrolytic, caloric, water - hydration - unspecfied Rx - electrolytic, caloric, water - multi-mineral prep Rx - electrolytic, caloric, water - potassium supp Rx - electrolytic, caloric, water - replacement preparations, misc Rx - electrolytic, caloric, water - sodium chlor preps Rx - endocrine - other - parathyroid hormones Rx - gi - antichol/antispasmodics Rx - gi - antiemetics Rx - gi - h2 antagonists Rx - gi - ppis Rx - gi drug misc,nec Rx - gu - other - bladder rx Rx - hematopoietic system - hematopoietic growth factors Rx - hematopoietic system - iron / related Rx - hematopoietic system - other Rx - miscellaneous rx Rx - miscellaneous rx - anesthetics, local Rx - miscellaneous rx - enzymes Rx - muscle relaxants - muscle relax, neuromusc block Rx - muscle relaxants - muscle relax, skeletal central Rx - muscle relaxants - muscle relax, skeletal, misc Rx - other Rx - pharmacy fee Rx - respiratory - beta agonists Rx - respiratory - methylxanthines Rx - respiratory - mucolytics/cold comb

Rx - respiratory - phenylephrine Rx - serums, toxoids, vaccines - serums Rx - serums, toxoids, vaccines - toxins Rx - skin / mucous membrane - antiinflam s/mm agnts / comb nec Rx - skin / mucous membrane - s/mm miscellaneous Rx - vitamins - multivit prep Rx - vitamins - vitamin b / b complex Rx - vitamins - vitamin d Screen for amino acid disorders Shock / Cardiac Arrest Smoking / Tobacco Cessation Supplies Surgery for cardiac arrhythmia TAVR Tests - allergy tests - intradermal Tests - allergy tests - other Tests - allergy tests - patch Tests - allergy tests - percutaneous Tests - cardiac - analysis - pace / defib Tests - cardiac - doppler Tests - cardiac - ecg - ecg - 12 lead Tests - cardiac - ecg - other Tests - cardiac - ecg monitoring - event recorder Tests - cardiac - echo - contrast agent Tests - cardiac - echo - intracardiac Tests - cardiac - electrophysiology - other Tests - cardiac - electrophysiology - supplies - other Tests - cardiac - electrophysiology - tilt table evaluation Tests - cardiac - monitoring - chf Tests - cardiac - other Tests - cardiac - radiopharmaceuticals Tests - cardiac - swan ganz Tests - cardiac stress tests - cardiac perfusion scan - rest / exercise Tests - cardiac stress tests - cardiac stress tests - other Tests - cardiovascular - other Tests - ent - other dx Tests - gi - duodeneal motility study Tests - gi - other dx Tests - qu - post void residual / bladder capacity Tests - gu - urodynamics - voiding pressure Tests - neuro - eea Tests - neuro - evoked potentials Tests - neuro - muscle testing Tests - neuro - ncv / ema Tests - neuro - other Tests - neuro - sleep studies Tests - other cardiac scans

Tests - pulmonary - other Tests - pulmonary - peak flow Tests - vascular - arterial - extremity Tests - vascular - cerebrovascular Tests - vascular - other Tests - vascular - venous Therapy - accupuncture Therapy - activity therapy Therapy - allergy treatment Therapy - apheresis Therapy - behavior - evaluation and therapy Therapy - behavior - other Therapy - behavior - partial hospilization Therapy - biofeedback Therapy - cardiac rehab Therapy - chiropractic / osteopathic manipulation Therapy - dialysis - home Therapy - dialysis - supplies Therapy - habilitation Therapy - hyperbaric oxygen Therapy - neurostimulator - incontinence Therapy - neurostimulator - other Therapy - neurostimulator - tens - device Therapy - neurostimulator - tens - leads Therapy - neurostimulator - tens - supplies Therapy - other Therapy - phlebotomy Therapy - pt - exercises / activities Therapy - pt - modalities Therapy - rehabilitation Therapy - rehabilitation - other Therapy - transfusion - administration Therapy - transfusion - blood Therapy - transfusion - granulocytes Therapy - transfusion - plasma Therapy - transfusion - platelets Therapy - ultraviolet light therapy Therapy - vaccination - hepatitis b Thyroid Function Tests Traction, splints, and other wound care Transitional Care Management Transportation - other transportation Transportation - paramedic Ungrouped Codes Urine Protein Vaccine for flu or Pneumonia Ventricular Repair, Postinfarct VSD Vitamin K administration Wellness Assessment



Relevant Diagnoses – ICD-10

Acute CHF / pulm edema	Other cardiac arrhythmias
Acute myocardial infarction	Other Cardiovascular Disease
Acute pericarditis	Other Heart Blocks / Conduction Disorders
Atrial Flutter / Fibrillation	Other heart disease
Cardiomyopathy	Other lung problems
Chronic Heart Failure, Degeneration	Premature Beats
Congestive heart failure; nonhypertensive	Previous CABG
Coronary Artery Anomaly	Previous heart valve replacement
CV - atherosclerosis - aorta	Previous PCI
CV - other heart ds	Pulmonary heart disease
Endocarditis	Recent AMI
Heart Aneurysm and other Sequelae of AMI	
Heart Failure unspecified as acute or chronic	Resp - abnormal chest sounds
Heart Valve Disorders	Sinus Node Dysfunction
Highgrade Heart Block	STEMI
Hypertensive Heart Disease	Subendocardial Infarct
Hypertensive Heart Disease w Heart Failure	Supraventricular Tachyarrhythmias
Hypertensive Heart Disease w Heart Failure & CKD	Transplanted Heart w Angina
Marfan's Syndrome	Unstable angina
Myocarditis	Ventricular Arrhythmias

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Complications – ICD-10

Accidental Falls	Decubitus Ulcer	Malfunction / Complication of Heart Device	Shock during or following cardiac surgery
Acute CHF / pulm edema	Dehydration	Meningitis / Encephalitis	Shock during or post-procedure
Acute cor pulmonale	Delirium, Encephalopathy	MRSA Pneumonia	Sinus Node Dysfunction
Acute esophagitis, acute gastritis, duodenitis	Dermatitis, Urticaria	MRSA, Drug Resistant Infections	Skin - other
Acute Kidney Failure	Diabetes, poor control	Opportunistic Infections	STEMI
Acute myocardial infarction	dic, coagulation, hemorrhagic disorders	Other bacterial infections	
Acute Pancreatitis, pseudo cyst	empyema, lung abscess	Other Bacterial Pneumonia	Subendocardial Infarct
Adverse effects of drugs	Endocarditis	Other cardiac arrhythmias	Suicide or Self-inflicted Injury
Altered mental status	Esophageal Reflux and Other Esophagitis	Other cerebral complications	Supraventricular Tachyarrhythmias
arterial thromboembolism	Fluid Electrolyte Acid Base Problems	Other Heart Blocks / Conduction Disorders	Thromboembolic Stroke
Aspiration Pneumonia	Foreign body left during procedure	Other lower respiratory disease	Tracheostomy Complications
Atrial Flutter / Fibrillation	Gastroenteritis	other lung complications	Transfusion, Infusion related complications
Bacteremia, SIRS, no organ dysfunction	GI Bleed	Other lung problems	Transient cerebral ischemia, TIA
Bladder Dysfunction, hemorrhage	Gram Negative Pneumonia	Other Mental Disorders	Transplanted Heart w Angina
C-Difficile Infection	HAC 02: Air Embolism	Other Phlebitis, Lymphangitis, varices	Unstable angina
Candida Infection	HAC 04: Stage III and IV Pressure Ulcers	Other Staph Pneumonia	Urethral Stricture
Chronic Fungal and Other Pneumonias	HAC 08: Surgical Site Infection-Mediastinitis after CAB	G Othr - other	
Coma, persistent vegetative state	HAC 09: Manifestations of Poor Glycemic Control	Perforation, Peritonitis, Abd Abscess	Urinary Complications
Complication of genitourinary device	Heart Aneurysm and other Sequelae of AMI	Phlebitis, Deep vein thrombosis (DVT)	Urinary Frequency & other symptoms
Complication of Implanted device, graft	Heart Failure unspecified as acute or chronic	Pulmonary Embolism	Urinary Incontinence
Complication of nervous system device	Hemoptysis	Pyogenic Arthritis	Urinary Tract Infection
Complications after heart procedures	Hemorrhage	Recent AMI	Vascular Insufficiency of intestine
Complications from Central Line	Hemorrhagic Stroke	Renovascular and other secondary hypertension	Vascular Prosthetic Device/Graft Complication
Complications from chemotherapy	Hepatorenal Syndrome	Resp Failure following trauma / surgery	Ventilator Associated Pnuemonia
Complications of anesthesia	Highgrade Heart Block	Respiratory Failure	Ventilator Dependence
Complications of colostomy, enterostomy	Hypertensive Urgency	Respiratory Insufficiency	
complications of medical care	Hypotension / Syncope	rhabdomyolysis	Ventricular Arrhythmias
complications of surgical procedures	Influenza with Pneumonia	Sepsis	Viral Pneumonia
Complications of surgical procedures or medical care	Interstitial Emphysema	Severe Sepsis	Wound Dehiscence
Debilitating Viral Pneumonia	IVC & other intra-abd venous thrombosis	Shock / Cardiac Arrest	Wound Infections



Coronary Angioplasty (PCI)

The Coronary Angioplasty Episode evaluates services that are typical/routine for the expected care and services that are related to associated complications. Patients are defined as those with a primary procedure code of PCI on an inpatient stay service or a PCI procedure code in any position on an outpatient facility/professional service, along with a qualifying diagnosis code. If the PCI procedure is performed for AMI, it is associated back to this episode.



Episode Length – PCI



Episode Triggers – PCI

Trigger Group Name	Code Type	Codes
PCI with stents, atherectomy	CPT HCPC	92920-92944, 92980-92996 C9600-C9608, G0290-G0291
Procedure - coronary - ptca - angioplasty	CPT	92982-92984
Procedure - coronary - thrombectomy	CPT	92973





Trigger Diagnoses – ICD-10, CPT, HCPC

Acute CHF / pulm edema	Other Heart Blocks / Conduction Disorders
Acute myocardial infarction	PCI with stents, atherectomy
Acute pericarditis	Premature Beats
Chronic Heart Failure, Degeneration	Previous CABG
Congestive heart failure; nonhypertensive	Previous PCI
Coronary Artery Anomaly	Procedure - coronary - ptca - angioplasty
CV - av block - 1st degree	Procedure - coronary - thrombectomy
CV - other heart ds	Recent AMI
CV - right bundle branch block	Resp - abnormal chest sounds
Heart Aneurysm and other Sequelae of AMI	
Heart Failure unspecified as acute or chronic	Sinus Node Dysfunction
Highgrade Heart Block	STEMI
Hypertensive Heart Disease	Subendocardial Infarct
Hypertensive Heart Disease w Heart Failure	Supraventricular Tachyarrhythmias
Hypertensive Heart Disease w Heart Failure & CKD	Transplanted Heart w Angina
Other cardiac arrhythmias	Unstable angina
Other Cardiovascular Disease	Ventricular Arrhythmias





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Advance care planning	E & M - prevention
Alcohol / Drug Use Management	Electrocardiogram -
Alcohol / Drug Use Screening	Electrophysiology S
Ancillary Services	HbA1C
Anesthesia	Hearing Test
Anti-TNF agents	Heart Echo / Ultrase
Aortic resection, replacement or anastomos	sis Heart valve procedu
Bleeding Status	Hepatitis B vaccine
Blood Count	High dose steroids
Blood Gases, Pulse Oximetry	Home Health / Hos
Blood transfusion	Home Health Service
Blood Type, Coomb's test	Hormone Therapy
Bundled Payment / Medical Home	HPV VACCINE
Cardiac cath & Angiogram	Imaging - arteriogra
Cardiac Stress Test	Imaging - arteriogra
Care Plan Oversight	Imaging - arteriogra
Case Management Services	Imaging - ct - aorta
Case Management Services - Behavioral	Imaging - ct - cardia
CHEMOTHERAPY	Imaging - ct - chest
Chest X-Ray	Imaging - ct - follow
CHLAMYDIA SCREENING	Imaging - ct - guida
Chronic Care Management	Imaging - ct - head
Colonoscopy/Sigmoidoscopy ColorectalCa	Screen Imaging - ct - other
Coordinated Care Fees/Services	Imaging - cta - aorta
Coronary Thrombolysis	Imaging - cta - ches
Counseling Services	Imaging - cta - coro
Diagnostic physical therapy	Imaging - cta - head
Diagnostic ultrasound of abdomen or retrop	peritoneum Imaging - mra - che
Diagnostic ultrasound of heart (echocardio	gram) Imaging - mra - hea
DME - bath / toilet aids	Imaging - mri - brair
DME - beds / accessories	Imaging - mri - ches
DME - heat/cold application	Imaging - mri - cont
DME - mobility aids	Imaging - mri - guid
DME - other	Imaging - mri - lowe
DME - patient lifts	Imaging - mri - othe
DME - repair / maintenance	Imaging - nuclear -
DME - restraints	Imaging - nuclear -
DME - safety equipment	Imaging - nuclear -
DME - wound therapy	Imaging - nuclear -
DME and supplies	Imaging - nuclear -
Drug Deiivery implantation	Imaging - nuclear -
E & M - consultation	Imaging - nuclear -
E & M - emergency care	Imaging - nuclear -
E & M - home visit	Imaging - nuclear -
E & M - hospital	Imaging - nuclear -
E & M - nursing home	Imaging - nuclear -

E & M - other

- EKG monitoring Studies, Cryoablation ound lures nice ices aphy - extremities aphy - othei raphy - renal ac an - w ance / brain a est ronarv ad / neck est ad in est ntrast ager dance er extremity er bladder / ureter blood / plasma volume - radiopharmaceutical blood / plasma volume - scan brain - radiopharmaceutical csf - radiopharmaceutical csf - scan hepatobiliary ductal scan - radiopharmaceutical kidney - radiopharmaceutical kidney - scan localization of inflammation lung scan Imaging - nuclear - lymphatics

Imaging - nuclear - other Imaging - nuclear - other - automated data add - on Imaging - nuclear - other blood / related Imaging - nuclear - other musculoskeletal Imaging - nuclear - platelet kinetics Imaging - nuclear - radiopharmaceutical - radiopharmaceutical - other Imaging - nuclear - red cell survival Imaging - nuclear - shilling test - radiopharmaceutical Imaging - nuclear - tumor localization Imaging - nuclear - venous thrombosis - radiopharmaceutical Imaging - nuclear - venous thrombosis - scan Imaging - other imaging Imaging - other imaging - fluoroscopy Imaging - other imaging - fluoroscopy - guidance Imaging - pet - other Imaging - supplies - contrast agent - high osmolar Imaging - supplies - contrast agent - low osmolar Imaging - supplies - ultrasound related Imaging - therapeutic procedure - abscess drainage Imaging - therapeutic procedure - other therapeutic procedure Imaging - us - extremity Imaging - us - eye Imaging - us - guide - biopsy Imaging - us - guide - other Imaging - us - head / neck Imaging - us - intravascular Imaging - us - other Imaging - us - retroperitoneum Imaging - venography - other Imaging - x-ray - other - joint survey Imaging - x-ray - ribs Imaging - x-ray - upper gi - other Imaging - x-ray - upper gi - small bowel - contrast Imaging - x-ray - urinary tract - cystography / voiding cystourethrogram Imaging - x-ray - urinary tract - other Imaging Abdomen **IMMUNOTHERAPY** Insertion, revision, replacement, removal of cardiac pacemaker or cardioverter/d Lab - blood gases Lab - chemistry Lab - endocrine Lab - genetic testing - brugada syndrome Lab - genetic testing - cardiac ion channel syndrome Lab - gi - fat absorption Lab - hematology - blood count Lab - hematology - blood count - eosinophil count Lab - hematology - coagulation

Lab - immunology Lab - infectious agent antibody Lab - infectious agent antigen Lab - infectious agent dna Lab - microbiology Lab - microbiology - c & s Lab - microbiology - microscopic exar Lab - microbiology - other Lab - microbiology - viral culture Lab - microscopic - koh prep Lab - microscopic - wet mount Lab - other clinical lab Lab - other hematology Lab - pathology consultation Lab - specimen collection - blood - arterial - arterial puncture Lab - specimen collection - blood - venous - venipuncture Lab - specimen collection - blood - venous - venous port Lab - specimen collection - specimen handling Lab - specimen collection - urine Lab - stat request Lab - therapeutic drug assay Lab - tissue typing Lab - transfusion medicine Lab - urinalysis Laboratory - Chemistry and Hematology LEAD SCREENING Lipid Level Monitoring Low dose steroids Lung Function Tests LVEF < 40% or LV systolic dysfunction Magnetic resonance imaging Markers for Inflammation Medication Assisted Management (MAT) Medication Therapy Management Services Medications (Injections, infusions and other forms) Metabolic Renal Hepatic Chemistry Panel NewBorn Blood Tests Online Management Opioid Administration / Dispensing (OTP) Other - non - covered Other care - bladder / bowel care - catheter Other care - bladder / bowel care - drainage bag Other care - bladder / bowel care - other supplies Other care - bladder / bowel care - other supplies - diaper / related Other care - bladder / bowel care - other supplies - skin barrier Other care - chronic edema - appliance - limb compression Other care - chronic edema - appliance - non - segmental



Other care - chronic edema - appliance - segmental Other care - chronic edema - compression stocking Other care - chronic edema - compressor Other care - chronic edema - compressor - non - segmental Other care - chronic edema - compressor - segmental Other care - chronic edema - surgical stockings Other care - diabetes care - glucose monitoring Other care - diabetes care - glucose monitoring - lancet Other care - diabetes care - glucose monitoring - other supplies Other care - diabetes care - insulin pump Other care - home care - emergency response system Other care - home care - home health aide Other care - home care - meals Other care - home care - nursing care Other care - home care - nursing care - Ipn Other care - home care - nursing care - np Other care - home care - nursing care - rn Other care - home care - other care Other care - home care - other care - attendant care Other care - home care - other care - chore care Other care - home care - other care - companion care Other care - home care - other care - day care Other care - home care - other care - homemaker Other care - home care - other care - respite care Other care - home care - physician supervision Other care - home care - rehabilitation - occupational therapy Other care - home care - rehabilitation - physical therapy Other care - home care - rehabilitation - speech therapy Other care - home care - social worker Other care - home care - specialized visit Other care - home care - training Other care - hospice Other care - long term care - assisted living Other care - long term care - residential care Other care - nutrition - assessment Other care - nutrition - counseling - dietician Other care - nutrition - education Other care - nutrition - enteral Other care - nutrition - enteral - administration Other care - nutrition - enteral - formula Other care - nutrition - enteral - pump Other care - nutrition - enteral - tubing Other care - nutrition - medical food Other care - nutrition - parenteral Other care - nutrition - parenteral - all - inclusive Other care - nutrition - parenteral - nutrition solution Other care - nutrition - parenteral - pump

Other care - observation Other care - other Other care - other - ancillary services Other care - other - education Other care - other - exercise classes Other care - other - external counterpulsation Other care - other - external defibrillator Other care - other - infection control Other care - other - irrigation Other care - other - lead assessment Other care - other - lodging Other care - other - meals Other care - other - medical records Other care - other - pacemaker - monitor Other care - other - pvd - compressor Other care - other - weight management Other care - pain management - pca / related Other care - prevention - smoking cessation Other care - respiratory - equipment / supplies Other care - respiratory - equipment / supplies - apnea monitor Other care - respiratory - equipment / supplies - cpap Other care - respiratory - equipment / supplies - ippb Other care - respiratory - equipment / supplies - nebulizer Other care - respiratory - equipment / supplies - peak flow meter Other care - respiratory - equipment / supplies - spirometer Other care - respiratory - equipment / supplies - ventilator Other care - respiratory - other Other care - respiratory - oxygen / oxygen concentrator Other care - respiratory - tracheostomy care Other care - respiratory - ventillator management Other care - respiratory therapy Other care - wound care Other care - wound care - electromagnetic therapy Other care - wound care - growth factor Other care - wound care - hyperbaric oxygen Other diagnostic cardiovascular procedures Other diagnostic procedures (interview, evaluation, consultation) Other diagnostic ultrasound Other Laboratory Other non-OR therapeutic cardiovascular procedures Other OR heart procedures Other OR procedures on vessels other than head and neck Pacemaker Defibrillator Check Pathology PCI with stents, atherectomy Peer Services Percutaneous transluminal coronary angioplasty (PTCA)

Personal Care Services Physical Therapy / Rehab Physician Services Physician Services - Inpatient Physician Services - Outpatient PORI Preventive Medicine, Care Coordination Procedure - anesthesia Procedure - anesthesia - related supplies Procedure - artery - abdomen - angioplasty - transluminal / open Procedure - artery - abdomen - angioplasty - transluminal / percutaneous Procedure - artery - abdomen - atherectomy - transluminal / percutaneous Procedure - artery - extremity - angioplasty - transluminal / percutaneous Procedure - artery - extremity - atherectomy - transluminal / percutaneous Procedure - artery - iliac - repair / graft - endovascular Procedure - artery - nos - angioplasty / stenting Procedure - artery - nos - atherectomy - catheter Procedure - artery - nos - thrombolysis Procedure - artery - pulmonary - angioplasty - percutaneous Procedure - artery / vein - nos - closure / closure device Procedure - artery / vein - nos - other Procedure - artery / vein - nos - thrombectomy catheter Procedure - biopsy - endocardium Procedure - block - nerve Procedure - cardiac - other Procedure - cardiac - other or Procedure - cardiac assist device - intra - aortic balloon Procedure - cardiac assist device - lvad Procedure - cardioversion Procedure - catheter - arterial - arterial line for monitoring Procedure - catheter - arterial - selective branch catheter Procedure - central venous catheter - fluoroscopy - guidance Procedure - central venous catheter - insertion Procedure - central venous catheter - repair / maintenance Procedure - chest tube / thoracentesis - insertion of chest tube Procedure - chest tube / thoracentesis - thoracentesis Procedure - coronary - ptca - angioplasty Procedure - coronary - ptca - stent Procedure - coronary - thrombectomy Procedure - debridement - wound / infection / burn - debridement Procedure - debridement of nails Procedure - esophageal / gastric intubation Procedure - extracorporeal circulation Procedure - gastrostomy Procedure - graft Procedure - graft - skin - graft material Procedure - gu - other non - or rx

Procedure - heart valve - other Procedure - i&d - skin - drainage of abscess Procedure - maintenance - cns / spinal pump / port Procedure - other anal / rectal procedures - other procedures - rectum / anus Procedure - other non - or rx - other non - or skin procedures Procedure - pacemaker / defibrillator - transcutaneous pacing Procedure - pericardiocentesis Procedure - peripheral nerve repair / graft - graft / guide Procedure - peripheral venous catheter Procedure - related supplies - ablation - catheter Procedure - related supplies - access catheter Procedure - related supplies - catheter Procedure - related supplies - dilation / stenting Procedure - related supplies - drainage Procedure - related supplies - graft - tendon repair Procedure - related supplies - graft / repair Procedure - related supplies - implant Procedure - related supplies - other Procedure - related supplies - resection - morcellator Procedure - related supplies - retrieval - device Procedure - sedation Procedure - suture - skin - complex wound repair Procedure - suture - skin - layer closure of wound Procedure - suture - skin - repair of superficial wound Procedure - vascular - occlusion / embolization - transcatheter Procedure - vascular - related supplies - angioplasty Procedure - vascular - related supplies - atherectomy Procedure - vascular - related supplies - embolization protective system Procedure - vascular - related supplies - graft material Procedure - vascular - related supplies - occlusion catheter Procedure - vascular access - port / pump - insertion Procedure - vein - nos - angioplasty Procedure - vein - vena cava - filter Procedures and Reporting Prophylactic vaccinations and inoculations Prosthetics - other **Psychiatry Evaluations** Psychiatry Services Psychological and psychiatric evaluation and therapy **Risk Assessment** Robotic Surgery Rx - administration - infusion Rx - administration - injection Rx - allergy - antihistamines / comb Rx - analg/antipy/nsaids - narcotics Rx - analg/antipy/nsaids - nsaids Rx - antibiotics - aminoglycosides



Rx - antibiotics - anti-infectives, misc	Rx - diuretics, osmotic	Rx - vitamins - multivit prep	Tests - vascular - venous
Rx - antibiotics - cephalosporins	Rx - diuretics, thiazides / related	Rx - vitamins - vitamin b / b complex	Therapy - accupuncture
Rx - antibiotics - chloramphenicol / comb	Rx - eent - topical - eye/ear/nose/throat misc	Rx - vitamins - vitamin d	Therapy - activity therapy
Rx - antibiotics - macrolides	Rx - electrolytic, caloric, water - calcium supplements	Screen for amino acid disorders	Therapy - allergy treatment
Rx - antibiotics - penicillins	Rx - electrolytic, caloric, water - caloric rx dextrose / rel	Shock / Cardiac Arrest	
Rx - antibiotics - quinolones	Rx - electrolytic, caloric, water - caloric rx, amino acid prep	Smoking / Tobacco Cessation	Therapy - apheresis
Rx - antibiotics - sulfonamides / comb	Rx - electrolytic, caloric, water - hydration - unspecfied	Supplies	Therapy - behavior - evaluation and therapy
Rx - antibiotics - tetracyclines	Rx - electrolytic, caloric, water - multi-mineral prep	Tests - allergy tests - intradermal	Therapy - behavior - other
Rx - antibiotics / antivirals / antifungals - infusion	Rx - electrolytic, caloric, water - potassium supp	Tests - allergy tests - other	Therapy - behavior - partial hospilization
Rx - antibiotics, misc	Rx - electrolytic, caloric, water - replacement preparations, misc	Tests - allergy tests - patch	Therapy - biofeedback
Rx - antidiabetic rx - insulins	Rx - electrolytic, caloric, water - sodium chlor preps	Tests - allergy tests - percutaneous	Therapy - cardiac rehab
Rx - antidiabetic rx, misc	Rx - endocrine - other - antigout rx	Tests - cardiac - analysis - pace / defib	Therapy - chiropractic / osteopathic manipulation
Rx - antifungals	Rx - endocrine - other - parathyroid hormones	Tests - cardiac - doppler	Therapy - dialysis - supplies
Rx - antivirals	Rx - endocrine - other - pituitary hormones	Tests - cardiac - ecg - ecg - 12 lead	
Rx - autonomic rx - nicotine preps	Rx - gi - antichol/antispasmodics	Tests - cardiac - ecg - other	Therapy - habilitation
Rx - autonomic rx - parasympathomimetics	Rx - gi - antiemetics	Tests - cardiac - ecg monitoring - event recorder	Therapy - hyperbaric oxygen
Rx - autonomic rx - sympathomimetic rx	Rx - gi - h2 antagonists	Tests - cardiac - echo - contrast agent	Therapy - neurostimulator - incontinence
Rx - b-lactam antibiotics	Rx - gi - ppis	Tests - cardiac - echo - intracardiac	Therapy - neurostimulator - other
Rx - blood derivatives	Rx - gi drug misc,nec	Tests - cardiac - electrophysiology - other	Therapy - neurostimulator - tens - device
Rx - cardiovascular system - antiarrhythmic rx	Rx - gu - other - bladder rx	Tests - cardiac - electrophysiology - supplies - other	Therapy - neurostimulator - tens - leads
Rx - cardiovascular system - beta blockers	Rx - hematopoietic system - hematopoietic growth factors	Tests - cardiac - electrophysiology - tilt table evaluation	Therapy - neurostimulator - tens - supplies
Rx - cardiovascular system - cardiac drugs	Rx - hematopoietic system - iron / related	Tests - cardiac - monitoring - chf	Therapy - other
Rx - cardiovascular system - cardiac glycosides	Rx - hematopoietic system - other	Tests - cardiac - other	
Rx - cardiovascular system - hypotensive rx	Rx - immune system - dmard / related	Tests - cardiac - radiopharmaceuticals	Therapy - phlebotomy
Rx - cardiovascular system - natriuretic peptides	Rx - immune system - gold compounds	Tests - cardiac - swan ganz	Therapy - pt - exercises / activities
Rx - cardiovascular system - vasodilating agents, nec	Rx - immune system - interferons	Tests - cardiac stress tests - cardiac perfusion scan - rest / exercise	Therapy - pt - modalities
Rx - cardiovascular system - vasodilating rx	Rx - miscellaneous rx	Tests - cardiac stress tests - cardiac stress tests - other	Therapy - radiation - physics / dosimetry / special svcs
Rx - central nervous system - amphetamines	Rx - miscellaneous rx - anesthetics, local	Tests - cardiovascular - other	Therapy - rehabilitation
Rx - central nervous system - anticonvulsants	Rx - miscellaneous rx - enzymes	Tests - ent - other dx	Therapy - rehabilitation - other
Rx - central nervous system - antidepressants	Rx - muscle relaxants - muscle relax, neuromusc block	Tests - eye - dx - other	Therapy - transfusion - administration
Rx - central nervous system - anxiolytic/sedative/hypnot nec	Rx - muscle relaxants - muscle relax, skeletal central	Tests - gi - duodeneal motility study	Therapy - transfusion - blood
Rx - central nervous system - barbiturates	Rx - muscle relaxants - muscle relax, skeletal, misc	Tests - gi - other dx	
Rx - central nervous system - benzodiazepines	Rx - other	Tests - gu - post void residual / bladder capacity	Therapy - transfusion - plasma
Rx - central nervous system - non-amphetamine stimulants	Rx - pharmacy fee	Tests - gu - urodynamics - voiding pressure	Therapy - transfusion - platelets
Rx - central nervous system - symnpatholytic rx	Rx - reproductive system - androgens / comb	Tests - neuro - eeg	Therapy - ultraviolet light therapy
Rx - central nervous system - trang/antipsychotics	Rx - reproductive system - estrogens / comb	Tests - neuro - evoked potentials	Therapy - vaccination - hepatitis b
Rx - central nervous system - vascular 5ht1 agonists	Rx - reproductive system - gonadotropin rel horm agnsts	Tests - neuro - muscle testing	Thyroid Function Tests
Rx - coagulation system - anticoagulants	Rx - reproductive system - gonadotropins	Tests - neuro - ncv / emg	Traction, splints, and other wound care
Rx - coagulation system - antiheparin agnt	Rx - reproductive system - oxytocics	Tests - neuro - other	Transitional Care Management
Rx - coagulation system - antiplatelet rx	Rx - reproductive system - progestins	Tests - neuro - sleep studies	C C
Rx - coagulation system - hemostatics	Rx - respiratory - beta agonists	Tests - other cardiac scans	Transportation - other transportation
Rx - coagulation system - thrombolytic rx	Rx - respiratory - methylxanthines	Tests - other cardiac scans - infarct scan	Transportation - paramedic
Rx - diagnostic rx - gastric function	Rx - respiratory - mucolytics/cold comb	Tests - pulmonary - other	Ungrouped Codes
		Tests - pulmonary - peak flow	Urine Protein
· · ·	Rx - respiratory - phenylephrine		
Rx - diagnostic rx - roentgenography	Rx - respiratory - phenylephrine Rx - serums toxoids vaccines - serums		Vaccine for flu or Pneumonia
· · ·	Rx - respiratory - phenylephrine Rx - serums, toxoids, vaccines - serums Rx - skin / mucous membrane - antiinflam s/mm agnts / comb nec	Tests - vascular - arterial - extremity Tests - vascular - cerebrovascular	Vaccine for flu or Pneumonia Vitamin K administration



Relevant Diagnoses – ICD-10

Acute CHF / pulm edema	Other cardiac arrhythmias
Acute myocardial infarction	Other Cardiovascular Disease
Acute pericarditis	Other Heart Blocks / Conduction Disorders
Chronic Heart Failure, Degeneration	Premature Beats
Congestive heart failure; nonhypertensive	Previous CABG
Coronary Artery Anomaly	Previous PCI
CV - av block - 1st degree	Recent AMI
CV - other heart ds	Resp - abnormal chest sounds
CV - right bundle branch block	Sinus Node Dysfunction
Heart Aneurysm and other Sequelae of AMI	STEMI
Heart Failure unspecified as acute or chronic	Subendocardial Infarct
Highgrade Heart Block	Supraventricular Tachyarrhythmias
Hypertensive Heart Disease	Transplanted Heart w Angina
Hypertensive Heart Disease w Heart Failure	Unstable angina
Hypertensive Heart Disease w Heart Failure & CKD	Ventricular Arrhythmias

health services



Complications – ICD-10

Accidental Falls	Esophageal Reflux and Other Esophagitis	Other Staph Pneumonia
Acute CHF / pulm edema	Fluid Electrolyte Acid Base Problems	Othr - other
Acute cor pulmonale	Foreign body left during procedure	Phlebitis, Deep vein thrombosis (DVT)
Acute esophagitis, acute gastritis, duodenitis	Gastroenteritis	Pulmonary Embolism
Acute Kidney Failure	GI Bleed	Recent AMI
Acute myocardial infarction	Gram Negative Pneumonia	Resp Failure following trauma / surgery
Acute Pancreatitis, pseudo cyst	HAC 02: Air Embolism	Respiratory Failure
Adverse effects of drugs	HAC 04: Stage III and IV Pressure Ulcers	Respiratory Insufficiency
Altered mental status	HAC 09: Manifestations of Poor Glycemic Control	rhabdomyolysis
arterial thromboembolism	Heart Failure unspecified as acute or chronic	Sepsis
Aspiration Pneumonia	Hemorrhage	
Atrial Flutter / Fibrillation	Hemorrhagic Stroke	Severe Sepsis
Bacteremia, SIRS, no organ dysfunction	Hepatorenal Syndrome	Shock / Cardiac Arrest
C-Difficile Infection	Highgrade Heart Block	Shock during or following cardiac surgery
Chronic Fungal and Other Pneumonias	Hypertensive Urgency	Shock during or post-procedure
Coma, persistent vegetative state	Hypotension / Syncope	Sinus Node Dysfunction
Complication of genitourinary device	Influenza with Pneumonia	Skin - other
Complications after heart procedures	Interstitial Emphysema	Supraventricular Tachyarrhythmias
Complications from Central Line	Malfunction / Complication of Heart Device	Thromboembolic Stroke
Complications of anesthesia	Meningitis / Encephalitis	Tracheostomy Complications
complications of medical care	MRSA Pneumonia	Transfusion, Infusion related complications
complications of surgical procedures	MRSA, Drug Resistant Infections	Transient cerebral ischemia, TIA
Congestive heart failure; nonhypertensive	Other bacterial infections	Urethral Stricture
Debilitating Viral Pneumonia	Other Bacterial Pneumonia	Urinary Frequency & other symptoms
Decubitus Ulcer	Other cardiac arrhythmias	Urinary Tract Infection
Dehydration	Other cerebral complications	
Delirium, Encephalopathy	Other Heart Blocks / Conduction Disorders	Vascular Prosthetic Device/Graft Complication
Dermatitis, Urticaria	Other lower respiratory disease	Ventilator Associated Pnuemonia
Diabetes, poor control	other lung complications	Ventilator Dependence
dic, coagulation, hemorrhagic disorders	Other lung problems	Ventricular Arrhythmias
empyema, lung abscess	Other Mental Disorders	Wound Dehiscence
Endocarditis	Other Phlebitis, Lymphangitis, varices	Wound Infections



Pacemaker/ Defibrillator (PCMDFR)

The Pacemaker/ Defibrillator Episode evaluates services that are typical/routine for the expected care, and services that are related to associated complications. Patients are defined as those with a primary procedure code of Pacemaker/ Defibrillator on an inpatient stay service or a trigger procedure code in any position on an outpatient facility/professional service, along with a qualifying diagnosis code.



Episode Length – PCMDFR





Episode Triggers – PCMDFR

Trigger Group Name	Code Type	Codes
Insertion of Defibrillator	CPT HCPC	33240-33271 0319T, C1721-C1882, G0448
Insertion of Generator alone	CPT HCPC	33212-33231 0321T
Insertion of Leads	CPT	33224-33225
Insertion of Pacemaker	CPT HCPC	33206-33214, 71090, 0387T C178—C1786, C2619-C2621



Trigger Diagnoses – ICD-10, CPT, HCPC

Acute CHF / pulm edema	Heart Valve Disorders	Previous CABG
Acute cor pulmonale	Highgrade Heart Block	Previous Heart Lung transplant
Acute myocardial infarction	History of Sudden Death	Previous heart valve replacement
Acute pericarditis	Hypertensive Heart Disease	Previous PCI
Artificial Heart, Assist Device	Hypertensive Heart Disease w Heart Failure	Recent AMI
Atrial Flutter / Fibrillation	Hypertensive Heart Disease w Heart Failure & CKD	Resp - abnormal chest sounds
Cardiomyopathy	Hypotension / Syncope	
Cardiovascular Syphilis	Insertion of Defibrillator	Resp - cyanosis
Chronic Heart Failure, Degeneration	Insertion of Generator alone	Resp - hyperventillation
Chronic, adhesive, constrictive pericarditis	Insertion of leads	Resp - shortness of breath
Cngntl - CV - other circulatory - other	Insertion of Pacemaker	Respiratory Insufficiency
Congential Heart Disease w Structural Defects	Malfunction / Complication of Heart Device	Shock / Cardiac Arrest
Congestive heart failure; nonhypertensive	Marfan's Syndrome	Sinus Node Dysfunction
Coronary Artery Anomaly	Myocarditis	STEMI
CV - abnl cv test nec nos	Orthostatic Hypotension / Dizziness	Subendocardial Infarct
CV - abnl ecg	Other cardiac arrhythmias	Supraventricular Tachyarrhythmias
CV - av block - 1st degree	Other Cardiovascular Disease	Sxs - symptoms -other - other
CV - cardiac murmurs	Other Gonococcal Infections	Tobacco Use
CV - edema	Other Heart Blocks / Conduction Disorders	
CV - other CV ds	Other heart disease	Transplanted Heart
CV - other heart ds	Other lung problems	Transplanted Heart w Angina
CV - prim pulm ht	Other pericarditis	Transplanted heart w compl, infection, reject
CV - right bundle branch block	Pacemaker, Defibrillator in place	Tumor of the Heart
CV - s/p tpa rx	Poisoning by Assault	Unstable angina
Heart Aneurysm and other Sequelae of AMI	Premature Beats	Vascular Prosthetic Device/Graft Complication
Heart Failure unspecified as acute or chronic	Prev Heart lung trans w cmpl, infect, reject	Ventricular Arrhythmias
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Relevant Procedures – ICD-10, CPT, HCPC

Advance care planning	Imaging - angiography - aortogram	Lab - stat request	Other care - nutrition - education
Alcohol / Drug Use Screening	Imaging - arteriography - extremities	Lab - therapeutic drug assay	Other care - nutrition - enteral
Ancillary Services	Imaging - ct - cardiac	Lab - transfusion medicine	Other care - nutrition - parenteral - pump
Anesthesia	Imaging - ct - head / brain	Lab - tumor marker	Other care - observation
Aortic resection, replacement or anastomosis	Imaging - cta - coronary	Lab - urinalysis	Other care - other
Bleeding Status	Imaging - mri - other	Lipid Level Monitoring	Other care - other - ancillary services
Blood Count	Imaging - nuclear - lung scan	Low dose steroids	Other care - other - education
Blood Gases, Pulse Oximetry	Imaging - nuclear - radiopharmaceutical - radiopharmaceutical - other	Lung Function Tests	Other care - other - exercise classes
Blood transfusion	Imaging - other imaging	LVEF < 40% or LV systolic dysfunction	Other care - other - external defibrillator
Blood Type, Coomb's test	Imaging - other imaging - fluoroscopy	Magnetic resonance imaging	Other care - other - infection control
Bundled Payment / Medical Home	Imaging - other imaging - fluoroscopy - guidance	Markers for Inflammation	Other care - other - lead assessment
Cardiac cath & Angiogram	Imaging - pet - other	Medication Assisted Management (MAT)	Other care - other - pacemaker - monitor
Cardiac Stress Test	Imaging - supplies - contrast agent - high osmolar	Medication Therapy Management Services	Other care - other - pvd - compressor
Care Plan Oversight	Imaging - supplies - contrast agent - low osmolar	Medications (Injections, infusions and other forms)	Other care - other - weight management
Case Management Services	Imaging - supplies - ultrasound related	Metabolic Renal Hepatic Chemistry Panel	Other care - prevention - smoking cessation
Case Management Services - Behavioral	Imaging - therapeutic procedure - abscess drainage	Online Management	Other care - respiratory - equipment / supplies - apnea monitor
CHEMOTHERAPY	Imaging - therapeutic procedure - other therapeutic procedure	Opioid Administration / Dispensing (OTP)	Other care - respiratory - equipment / supplies - peak flow meter
Chest X-Ray	Imaging - us - guide - other	Other - non - covered	Other care - respiratory - other
Chronic Care Management	Imaging - us - intravascular	Other care - chronic edema - compression stocking	Other care - respiratory - rehabilitation
Coordinated Care Fees/Services	Imaging - us - other	Other care - chronic edema - surgical stockings	Other care - respiratory - ventillator management
Coronary Thrombolysis	Imaging - venography - extremities	Other care - home care - emergency response system	Other care - respiratory therapy
Diagnostic physical therapy	Imaging - venography - other	Other care - home care - home health aide	Other care - wound care
Diagnostic ultrasound of abdomen or retroperitoneum	Imaging - venography - vena cava	Other care - home care - meals	Other care - wound care - electromagnetic therapy
Diagnostic ultrasound of heart (echocardiogram)	Imaging Abdomen	Other care - home care - nursing care	Other care - wound care - growth factor
DME - safety equipment	Insertion of Defibrillator	Other care - home care - nursing care - Ipn	Other care - wound care - hyperbaric oxygen
DME and supplies	Insertion of Generator alone	Other care - home care - nursing care - np	Other diagnostic cardiovascular procedures
Drug Deiivery implantation	Insertion of leads	Other care - home care - nursing care - rn	Other diagnostic procedures (interview, evaluation, consultation)
E & M - consultation	Insertion of Pacemaker	Other care - home care - other care	Other diagnostic ultrasound
& M - emergency care	Insertion, revision, replacement, removal of cardiac pacemaker or cardioverter/	d Other care - home care - other care - attendant care	Other Laboratory
E & M - home visit	Insertion; revision; replacement; removal of cardiac pacemaker or cardioverter/		Other non-OR therapeutic cardiovascular procedures
E & M - hospital	Lab - chemistry	Other care - home care - other care - companion care	Other OR heart procedures
E & M - nursing home	Lab - hematology - blood count	Other care - home care - other care - day care	Pacemaker Defibrillator Check
E & M - other	Lab - hematology - blood count - eosinophil count	Other care - home care - other care - homemaker	Pathology
E & M - prevention	Lab - hematology - coagulation	Other care - home care - other care - respite care	Personal Care Services
Electrocardiogram - EKG monitoring	Lab - immunology	Other care - home care - physician supervision	Physical Therapy / Rehab
Electrographic cardiac monitoring	Lab - infectious agent dna	Other care - home care - social worker	Physician Services
Electrophysiology Studies, Cryoablation	Lab - other clinical lab	Other care - home care - specialized visit	Physician Services - Inpatient
Heart Echo / Ultrasound	Lab - other hematology	Other care - home care - training	Physician Services - Outpatient
Heart valve procedures	Lab - specimen collection - blood - arterial - arterial puncture	Other care - hospice	PQRI
High dose steroids	Lab - specimen collection - blood - venous - venipuncture	Other care - long term care - assisted living	Preventive Medicine, Care Coordination
Home Health / Hospice	Lab - specimen collection - blood - venous - venous port	Other care - long term care - residential care	Procedure - anesthesia
Home Health Services	Lab - specimen collection - specimen handling	Other care - nutrition - assessment	Procedure - artery - extremity - angioplasty - transluminal / percutaneous
Hormone Therapy	Lab - specimen collection - urine	Other care - nutrition - counseling - dietician	Procedure - artery - extremity - atherectomy - transluminal / percutaneous
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Relevant Procedures – ICD-10, CPT, HCPC

Procedure - artery - extremity - exploration Procedure - artery - extremity - injection of thrombin Procedure - artery - extremity - ligation Procedure - artery - iliac - repair / graft - endovascular Procedure - artery - nos - thrombolysis Procedure - artery / vein - nos - closure / closure device Procedure - artery / vein - nos - other Procedure - artery / vein - nos - thrombectomy catheter Procedure - cardiac - other Procedure - cardiac assist device - intra - aortic balloon Procedure - cardiac assist device - lvad Procedure - cardioversion Procedure - catheter - arterial - arterial line for monitoring Procedure - catheter - arterial - catheter in aorta Procedure - catheter - arterial - other Procedure - catheter - venous - other - other Procedure - catheter - venous - other - vena cava or selective branch catheter Procedure - central venous catheter - fluoroscopy - guidance Procedure - central venous catheter - insertion Procedure - central venous catheter - removal Procedure - central venous catheter - repair / maintenance Procedure - central venous catheter - replacement Procedure - chest tube / thoracentesis - insertion of chest tube Procedure - chest tube / thoracentesis - thoracentesis Procedure - extracorporeal circulation Procedure - other non - or rx - other non - or skin procedures Procedure - pacemaker / defibrillator - other - pacemaker / defibrillator proced Procedure - pacemaker / defibrillator - transcutaneous pacing Procedure - pacemaker / defibrillator - transesophageal pacing Procedure - pericardial procedures - pericardial window / pericardiectomy Procedure - pericardiocentesis Procedure - peripheral venous catheter Procedure - related supplies - access catheter Procedure - related supplies - catheter Procedure - related supplies - implant Procedure - related supplies - retrieval - device Procedure - sedation Procedure - vascular access - port / pump - insertion Procedure - vein - nos - angioplasty Procedure - vein - vena cava - filter Procedures and Reporting Prosthetics - implant Prosthetics - other

Psychiatry Evaluations **Psychiatry Services** Psychological and psychiatric evaluation and therapy Risk Assessment Robotic Surgery Rx - administration - infusion Rx - administration - injection Rx - allergy - antihistamines / comb Rx - analg/antipy/nsaids - narcotics Rx - analg/antipy/nsaids - nsaids Rx - antibiotics - aminoglycosides Rx - antibiotics - anti-infectives, misc Rx - antibiotics - cephalosporins Rx - antibiotics - macrolides Rx - antibiotics - penicillins Rx - antibiotics - quinolones Rx - antibiotics - sulfonamides / comb Rx - antibiotics - tetracyclines Rx - antibiotics, misc Rx - autonomic rx - nicotine preps Rx - autonomic rx - parasympathomimetics Rx - autonomic rx - sympathomimetic rx Rx - b-lactam antibiotics Rx - blood derivatives Rx - cardiovascular system - antiarrhythmic rx Rx - cardiovascular system - beta blockers Rx - cardiovascular system - cardiac drugs Rx - cardiovascular system - cardiac glycosides Rx - cardiovascular system - hypotensive rx Rx - cardiovascular system - natriuretic peptides Rx - cardiovascular system - vasodilating rx Rx - central nervous system - antidepressants Rx - central nervous system - anxiolytic/sedative/hypnot nec Rx - central nervous system - barbiturates Rx - central nervous system - benzodiazepines Rx - central nervous system - trang/antipsychotics Rx - central nervous system - vascular 5ht1 agonists Rx - coagulation system - anticoagulants Rx - coagulation system - antiheparin agnt Rx - coagulation system - antiplatelet rx Rx - coagulation system - hemostatics Rx - coagulation system - thrombolytic rx Rx - diuretics - diuretic, carb anhydrase inhib

Rx - diuretics, loop diuretics Rx - diuretics, osmotic Rx - diuretics, thiazides / related Rx - electrolytic, caloric, water - calcium supplements Rx - electrolytic, caloric, water - caloric rx dextrose / rel Rx - electrolytic, caloric, water - hydration - unspecfied Rx - electrolytic, caloric, water - multi-mineral prep Rx - electrolytic, caloric, water - potassium supp Rx - electrolytic, caloric, water - replacement preparations, misc Rx - electrolytic, caloric, water - sodium chlor preps Rx - gi - antichol/antispasmodics Rx - gi - antiemetics Rx - gi - h2 antagonists Rx - gi - ppis Rx - hematopoietic system - hematopoietic growth factors Rx - miscellaneous rx Rx - miscellaneous rx - anesthetics, local Rx - miscellaneous rx - enzymes Rx - other Rx - pharmacy fee Rx - respiratory - beta agonists Rx - respiratory - methylxanthines Rx - respiratory - phenylephrine Rx - serums, toxoids, vaccines - serums Rx - vitamins - multivit prep Rx - vitamins - vitamin b / b complex Rx - vitamins - vitamin d Shock / Cardiac Arrest Smoking / Tobacco Cessation Subsequent Physician Services Inpatient Supplies Tests - cardiac - analysis - pace / defib Tests - cardiac - doppler Tests - cardiac - ecg - ecg - 12 lead Tests - cardiac - ecg - other Tests - cardiac - ecg monitoring - event recorder Tests - cardiac - echo - contrast agent Tests - cardiac - echo - intracardiac Tests - cardiac - electrophysiology - other Tests - cardiac - electrophysiology - supplies - other Tests - cardiac - electrophysiology - tilt table evaluation Tests - cardiac - monitoring - chf Tests - cardiac - other

Tests - cardiac - radiopharmaceuticals Tests - cardiac - swan ganz Tests - cardiac stress tests - cardiac perfusion scan - rest / exercise Tests - cardiac stress tests - cardiac stress tests - other Tests - cardiovascular - other Tests - neuro - sleep studies Tests - other cardiac scans Tests - other cardiac scans - infarct scan Tests - pulmonary - other Tests - pulmonary - peak flow Tests - vascular - arterial - extremity Tests - vascular - venous Therapy - behavior - partial hospilization Therapy - cardiac rehab Therapy - habilitation Therapy - neurostimulator - tens - leads Therapy - neurostimulator - tens - supplies Therapy - other Therapy - phlebotomy Therapy - pt - exercises / activities Therapy - transfusion - administration Therapy - transfusion - blood Therapy - transfusion - granulocytes Therapy - transfusion - plasma Therapy - transfusion - platelets Thyroid Function Tests Traction, splints, and other wound care Transitional Care Management Transportation - other transportation Transportation - paramedic Transvenous Pacemaker **Ungrouped Codes** Urine Protein Vaccine for flu or Pneumonia Vitamin K administration Wellness Assessment



Relevant Diagnoses – ICD-10

Acute CHF / pulm edema	Heart Failure unspecified as acute or chronic	Previous heart valve replacement
Acute cor pulmonale	Heart Valve Disorders	Previous PCI
Acute myocardial infarction	Highgrade Heart Block	Recent AMI
Acute pericarditis	History of Sudden Death	Resp - abnormal chest sounds
Artificial Heart, Assist Device	Hypertensive Heart Disease	· · ·
Atrial Flutter / Fibrillation	Hypertensive Heart Disease w Heart Failure	Resp - cyanosis
Cardiomyopathy	Hypertensive Heart Disease w Heart Failure & CKD	Resp - hyperventillation
Cardiovascular Syphilis	Hypotension / Syncope	Resp - shortness of breath
Chronic Heart Failure, Degeneration	Malfunction / Complication of Heart Device	Respiratory Insufficiency
Chronic, adhesive, constrictive pericarditis	Marfan's Syndrome	Shock / Cardiac Arrest
Cngntl - CV - other circulatory - other	Myocarditis	Sinus Node Dysfunction
Congential Heart Disease w Structural Defects	Orthostatic Hypotension / Dizziness	STEMI
Congestive heart failure; nonhypertensive	Other cardiac arrhythmias	Subendocardial Infarct
Coronary Artery Anomaly	Other Cardiovascular Disease	
CV - abnl cv test nec nos	Other Gonococcal Infections	Supraventricular Tachyarrhythmias
CV - abnl ecg	Other Heart Blocks / Conduction Disorders	Sxs - symptoms -other - other
CV - av block - 1st degree	Other heart disease	Tobacco Use
CV - cardiac murmurs	Other lung problems	Transplanted Heart
CV - edema	Other pericarditis	Transplanted Heart w Angina
CV - other CV ds	Pacemaker, Defibrillator in place	Transplanted heart w compl, infection, reject
CV - other heart ds	Poisoning by Assault	Tumor of the Heart
CV - prim pulm ht	Premature Beats	
CV - right bundle branch block	Prev Heart lung trans w cmpl, infect, reject	Unstable angina
CV - s/p tpa rx	Previous CABG	Vascular Prosthetic Device/Graft Complication
Heart Aneurysm and other Sequelae of AMI	Previous Heart Lung transplant	Ventricular Arrhythmias


Complications – ICD-10

Accidental Falls	dic, co
Acute CHF / pulm edema	empy
Acute cor pulmonale	Endo
Acute esophagitis, acute gastritis, duodenitis	Fluid I
Acute Kidney Failure	Foreig
Acute myocardial infarction	Gastro
Adverse effects of drugs	GI Ble
Altered mental status	Gram
arterial thromboembolism	HAC (
Aspiration Pneumonia	HAC (
Bacteremia, SIRS, no organ dysfunction	HAC
C-Difficile Infection	Hemo
Chronic Fungal and Other Pneumonias	Hemo
Coma, persistent vegetative state	Hepat
Complication of genitourinary device	Hyper
Complication of Implanted device, graft	Hypot
Complications after heart procedures	Influe
Complications from Central Line	Inters
Complications from chemotherapy	Malfu
Complications of anesthesia	Menin
complications of medical care	MRSA
complications of surgical procedures	MRSA
Complications of surgical procedures or medical care	Other
Debilitating Viral Pneumonia	Other
Decubitus Ulcer	Other
Dehydration	Other
Delirium, Encephalopathy	other
Dermatitis, Urticaria	Other
Diabetes, poor control	Other

coagulation, hemorrhagic disorders yema, lung abscess ocarditis Electrolyte Acid Base Problems ign body left during procedure roenteritis eed n Negative Pneumonia 02: Air Embolism 04: Stage III and IV Pressure Ulcers 09: Manifestations of Poor Glycemic Control orrhage orrhagic Stroke atorenal Syndrome ertensive Urgency otension / Syncope enza with Pneumonia stitial Emphysema unction / Complication of Heart Device ngitis / Encephalitis A Pneumonia A, Drug Resistant Infections r bacterial infections r Bacterial Pneumonia r cerebral complications r lower respiratory disease · lung complications r lung problems r Mental Disorders

Other Phlebitis, Lymphangitis, varices Other Staph Pneumonia Othr - other Peripheral Angiopathy w Gangrene Peripheral Embolism Phlebitis, Deep vein thrombosis (DVT) Pulmonary Embolism Resp Failure following trauma / surgery Respiratory Failure **Respiratory Insufficiency** rhabdomyolysis Sepsis Severe Sepsis Shock / Cardiac Arrest Shock during or following cardiac surgery Shock during or post-procedure Skin - other STEMI Thromboembolic Stroke Transfusion, Infusion related complications Transient cerebral ischemia, TIA **Urethral Stricture** Urinary Frequency & other symptoms Urinary Tract Infection Vascular Prosthetic Device/Graft Complication Ventilator Associated Pnuemonia Ventilator Dependence Wound Dehiscence Wound Infections



Hip/ Pelvic Fracture (HIPLFR)

The Hip/Pelvic Fracture (HIPLFR) episode is an acute episode. Services with diagnosis codes for signs and symptoms related to the episode, such as pain and swelling, have been defined as typical care for Hip/Pelvic Fracture, while secondary diagnoses on the index stay or other services for conditions such as fluid and electrolyte disturbances and infections have been labeled as complications.



Episode Length – HIPLFR



Episode Triggers – HIPLFR

Trigger Group Name	Code Type	Codes
Closed Fracture Neck of Femur Left	ICD10	M80052S-M8458S, S72002A-S7225XS
Closed Fracture Neck of Femur Right	ICD10	M80051S-M84757S, S72001A- 7224XS
Closed Fracture Neck of Femur Unsp	ICD10	M80059S-M84659S, S72009A-S7226XS
Closed Fracture of Pelvis, Right	ICD10	S32301A-S32431A
Closed Fracture of Pelvis, Unsp	ICD10	S32426A-S32811A, S3289XA, S329XXA
Closed Fracture Pelvis, Left	ICD10	S32302A-S32692A
Closed Fracture Pelvis, Right	ICD10	S32434A-S32691A
Closed Fracture Pelvis, Unsp	ICD10	S32309A-S32423A
Compl of joint prosthesis, orthopedic proced	ICD10	T84010A-T849XXA
Complication of Implanted device, graft	ICD10	T85693A, T8572XA
Open Fracture Neck of Femur Left	ICD10	S72002B-S7225XC
Open Fracture Neck of Femur Right	ICD10	S72001B-S7224XC
Open Fracture Neck of Femur Unsp	ICD10	S72009B-S7226XC





Episode Triggers – HIPLFR

Trigger Group Name	Code Type	Codes
Open Fracture of Pelvis Left	ICD10	S32302B-S32692B
Open Fracture of Pelvis Right	ICD10	S32301B-S32691B
Open Fracture of Pelvis Unsp	ICD10	S32309B-S329XXB
Other Close Fracture Femur Left	ICD10	S72302A-S7292XA
Other Close Fracture Femur Right	ICD10	S72301A-S7291XA
Other Close Fracture Femur Unsp	ICD10	S72309A-S7290XA
Pathologic, stress fracture Left Femur, Pelv	ICD10	M80052A-M84758A
Pathologic, stress fracture Right Femur, Pelv	ICD10	M80051A-M84757A
Pathologic, stress fracture Unsp Femur, Pelv	ICD10	M80059A-M84759A



Trigger Diagnoses – ICD-10

Closed Fracture Neck of Femur Left Closed Fracture Neck of Femur Right **Closed Fracture Neck of Femur Unsp** Closed Fracture of Pelvis, Left Closed Fracture of Pelvis, Right Closed Fracture of Pelvis, Unsp Compl of joint prosthesis, orthopedic proced Complication of Implanted device, graft **Open Fracture Neck of Femur Left** Open Fracture Neck of Femur Right Open Fracture Neck of Femur Unsp Open Fracture of Pelvis Left **Open Fracture of Pelvis Right Open Fracture of Pelvis Unsp** Other Close Fracture Femur Left Other Close Fracture Femur Right Other Close Fracture Femur Unsp Pathologic, stress fracture Left Femur, Pelv Pathologic, stress fracture Right Femur, Pelv Pathologic, stress fracture Unsp Femur, Pelv



Advance care planning Alcohol / Drug Use Screening Ancillary Services Aortic resection, replacement or anastomosis Bleeding Status Blood Count Blood Gases, Pulse Oximetry Blood transfusior Blood Type, Coomb's test Bundled Payment / Medical Home Care Plan Oversight Case Management Services Case Management Services - Behavioral CHEMOTHERAPY CHLAMYDIA SCREENING Chronic Care Management Closed Surg for Hip socket/Pelvis w/manipulat Closed Surg for Neck/Proximal Femur w/manipul Closed Surg for Neck/Proximal Femur, no manip Closed Surg for Shaft or Distal Femur, no man Closed Surg Hip Socket or Pelvis, no manipul Closed Surgery Fracture Head of Femur Closed treatment of Hip Dislocation, post sur Closed treatment of Hip Dislocation, Spontane Closed treatment of Hip Dislocation, Traumat Closed treatment of Slipped Femoral Epiphysis Colonoscopy/Sigmoidoscopy ColorectalCa Screen Diagnostic physical therapy DME - bath / toilet aids DME - beds / accessories DME - heat/cold application DME - mobility aids DME - other DME - patient lifts DME - repair / maintenance DME - restraints DME - safety equipment DME - traction DME - trapeze / other orthopedic device DME - whirlpool - equipment DME - wound therapy DME and supplies Drug Deiivery implantation E & M - consultation E & M - emergency care E & M - home visit

E & M - hospital E & M - nursing home E & M - other E & M - prevention Electrocardiogram - EKG monitoring HbA1C Home Health / Hospice Home Health Services Hormone Therapy Imaging - ct - abdomen - pelvis Imaging - ct - follow - up Imaging - ct - guidance Imaging - ct - other Imaging - ct - study Imaging - mra - lower extremity Imaging - mra - pelvis Imaging - mri - contrast agent Imaging - mri - guidance Imaging - mri - lower extremity Imaging - mri - other Imaging - mri - pelvis Imaging - nuclear - bone scan Imaging - nuclear - localization of inflammation Imaging - nuclear - other Imaging - nuclear - other musculoskeletal Imaging - other imaging Imaging - other imaging - bone density Imaging - other imaging - bone density - dexa Imaging - other imaging - fluoroscopy Imaging - supplies - contrast agent - high osmolar Imaging - supplies - contrast agent - low osmolar Imaging - us - guide - other Imaging - us - other Imaging - venography - extremities Imaging - x-ray - hip - arthrogram Imaging - x-ray - other - bone survey Imaging - x-ray - other - joint survey Imaging Abdomen Joint X-Ravs Lab - chemistry Lab - chemistry and toxicology tests Lab - cytogenetics Lab - cytology Lab - hematology - blood count Lab - hematology - blood count - eosinophil count Lab - hematology - coagulation

Lab - immunology Lab - infectious agent dna Lab - microbiology Lab - microbiology - c & s Lab - microbiology - microscopic exam Lab - microscopic - koh prep Lab - other clinical lab Lab - other hematology Lab - pathology consultation Lab - specimen collection - blood - arterial - arterial puncture Lab - specimen collection - blood - venous - venipuncture Lab - specimen collection - blood - venous - venous port Lab - specimen collection - specimen handling Lab - specimen collection - urine Lab - stat request Lab - surgical pathology Lab - therapeutic drug assav Lab - tissue typing Lab - transfusion medicine Lab - urinalvsis Laboratory - Chemistry and Hematology LEAD SCREENING Lipid Level Monitoring Low dose steroids Markers for Inflammation Medication Assisted Management (MAT) Medication Therapy Management Services Medications (Injections, infusions and other forms) Metabolic Renal Hepatic Chemistry Panel Microscopic examination (bacterial smear, culture, toxicology) NewBorn Blood Tests **Online Management** Open Surgery for Hip socket or Pelvis Open Surgery for Neck or Proximal Femur Open Surgery for Shaft or Distal Femur Open treatment of Hip Dislocation, Spontaneou Open treatment of Hip Dislocation, Traumatic Open treatment of Slipped Femoral Epiphysis Opioid Administration / Dispensing (OTP) Other - non - covered Other care - bladder / bowel care - catheter Other care - bladder / bowel care - drainage bag Other care - bladder / bowel care - other supplies Other care - bladder / bowel care - other supplies - diaper / related Other care - bladder / bowel care - other supplies - skin barrier Other care - chronic edema - appliance - limb compression

Other care - chronic edema - appliance - non - segmental Other care - chronic edema - appliance - segmental Other care - chronic edema - complex therapy Other care - chronic edema - compression stocking Other care - chronic edema - compressor Other care - chronic edema - compressor - non - segmental Other care - chronic edema - compressor - segmental Other care - chronic edema - exterior wrap Other care - chronic edema - sleeve Other care - chronic edema - surgical stockings Other care - diabetes care - glucose monitoring Other care - diabetes care - glucose monitoring - other supplies Other care - diabetes care - insulin pump Other care - diabetes care - shoes Other care - home care - emergency response system Other care - home care - home health aide Other care - home care - meals Other care - home care - nursing care Other care - home care - nursing care - Ipn Other care - home care - nursing care - np Other care - home care - nursing care - rn Other care - home care - other care Other care - home care - other care - attendant care Other care - home care - other care - chore care Other care - home care - other care - day care Other care - home care - other care - homemaker Other care - home care - other care - respite care Other care - home care - physician supervision Other care - home care - rehabilitation - occupational therapy Other care - home care - rehabilitation - physical therapy Other care - home care - rehabilitation - speech therapy Other care - home care - social worker Other care - home care - specialized visit Other care - home care - training Other care - hospice Other care - nutrition - assessment Other care - nutrition - counseling - dietician Other care - nutrition - education Other care - nutrition - enteral Other care - nutrition - medical food Other care - observation Other care - other Other care - other - ancillary services Other care - other - back care Other care - other - exercise classes Other care - other - infection control



Other care - other - interpretation Other care - other - lodging Other care - other - meals Other care - other - medical records Other care - other - pvd - compressor Other care - other - therapeutic riding Other care - other - weight management Other care - pain management - pca / related Other care - prevention - smoking cessation Other care - respiratory - equipment / supplies Other care - respiratory - equipment / supplies - nebulizer Other care - respiratory - equipment / supplies - peak flow meter Other care - respiratory - equipment / supplies - spirometer Other care - respiratory - other Other care - respiratory - oxygen / oxygen concentrator Other care - wound care Other care - wound care - growth factor Other care - wound care - hyperbaric oxygen Other diagnostic cardiovascular procedures Other diagnostic procedures (interview, evaluation, consultation) Other diagnostic radiology and related techniques Other fracture and dislocation procedure Other Laboratory Personal Care Services Physical Therapy / Rehab Physician Services Physician Services - Inpatient Physician Services - Outpatient Preventive Medicine, Care Coordination Procedure - anesthesia Procedure - arthrocentesis Procedure - block - nerve Procedure - bone graft Procedure - casting / splinting - application Procedure - casting / splinting - supplies Procedure - central venous catheter - fluoroscopy - guidance Procedure - central venous catheter - insertion Procedure - central venous catheter - removal Procedure - central venous catheter - repair / maintenance Procedure - central venous catheter - replacement Procedure - debridement - wound / infection / burn - debridement Procedure - destruction - nerve Procedure - excision - skin - remove subcutaneous lesion Procedure - excision - skin - shave skin lesion Procedure - graft Procedure - graft - skin - graft material

Procedure - i&d - skin - drainage - post - op infection Procedure - i&d - skin - drainage of abscess Procedure - i&d - skin - drainage of hematoma Procedure - injection - tendons / joints / etc. Procedure - injection of skin lesion Procedure - lymphadenectomy Procedure - microsurgery Procedure - neuro - other dx - other Procedure - neuro - other non - or rx Procedure - neuro - other or rx Procedure - other dx on musculoskeletal system Procedure - other non - or rx - other non - or skin procedures Procedure - other non - or rx on musculoskeletal system Procedure - other or rx - other or skin procedures Procedure - other or rx - peripheral neurostimulator procedures Procedure - other or rx on bone Procedure - other or rx on joints Procedure - other or rx on musculoskeletal system Procedure - other rx on muscles and tendons Procedure - other spine - rx / dx - injection Procedure - partial excision bone Procedure - peripheral nerve - decompression - other Procedure - peripheral nerve repair / graft Procedure - peripheral venous catheter Procedure - related supplies - ablation - catheter Procedure - related supplies - access catheter Procedure - related supplies - catheter Procedure - related supplies - drainage Procedure - related supplies - graft / repair Procedure - related supplies - other Procedure - removal of pins or fixation Procedure - rx - fracture / dislocation - hip / femur Procedure - sedation Procedure - spinal canal - catheter Procedure - suture - skin - complex wound repair Procedure - suture - skin - delayed wound closure Procedure - vascular access - port / pump - insertion Procedures and Reporting **Psychiatry Evaluations Psychiatry Services** Psychological and psychiatric evaluation and therapy Risk Assessment **Robotic Surgery** Rx - administration - infusion Rx - administration - injection Rx - analg/antipy/nsaids - narcotics

Rx - antibiotics - aminoglycosides Rx - antibiotics - anti-infectives, misc Rx - antibiotics - cephalosporins Rx - antibiotics - chloramphenicol / comb Rx - antibiotics - macrolides Rx - antibiotics - penicillins Rx - antibiotics - quinolones Rx - antibiotics - sulfonamides / comb Rx - antibiotics / antivirals / antifungals - infusion Rx - antibiotics, misc Rx - b-lactam antibiotics Rx - blood derivatives Rx - cardiovascular system - vasodilating agents, nec Rx - cardiovascular system - vasodilating rx Rx - coagulation system - anticoagulants Rx - coagulation system - antiheparin agnt Rx - coagulation system - hemostatics Rx - diagnostic rx - roentgenography Rx - diuretics, loop diuretics Rx - electrolytic, caloric, water - caloric rx dextrose / rel Rx - electrolytic, caloric, water - hydration - unspecfied Rx - electrolytic, caloric, water - multi-mineral prep Rx - electrolytic, caloric, water - potassium supp Rx - electrolytic, caloric, water - sodium chlor preps Rx - gi - antiemetics Rx - gi - ppis Rx - hematopoietic system - hematopoietic growth factors Rx - hematopoietic system - iron / related Rx - miscellaneous rx Rx - miscellaneous rx - enzymes Rx - muscle relaxants - muscle relax, skeletal central Rx - other Rx - pharmacy fee Rx - serums, toxoids, vaccines - serums Rx - vitamins - multivit prep Screen for amino acid disorders Supplies Tests - cardiac - ecg - ecg - 12 lead Tests - cardiac - ecg - other Tests - cardiac - echo - contrast agent Tests - neuro - muscle testing Tests - neuro - ncv / emg Tests - neuro - other Tests - neuro - sleep studies

Tests - pulmonary - co diffusing capacity Tests - pulmonary - exhaled air analysis Tests - pulmonary - other Tests - pulmonary - peak flow Tests - skin Tests - vascular - arterial - extremity Tests - vascular - venous Therapy - accupuncture Therapy - activity therapy Therapy - allergy treatment Therapy - behavior - other Therapy - biofeedback Therapy - chiropractic / osteopathic manipulation Therapy - dialysis - supplies Therapy - habilitation Therapy - hyperbaric oxygen Therapy - neurostimulator - muscle training Therapy - neurostimulator - nausea / vomiting Therapy - neurostimulator - tens - device Therapy - osteogenesis stimulator Therapy - other Therapy - phlebotomy Therapy - pt - exercises / activities Therapy - pt - modalities Therapy - rehabilitation - related supplies / equipment - motion device Therapy - transfusion - administration Therapy - transfusion - blood Therapy - transfusion - granulocytes Therapy - transfusion - plasma Therapy - transfusion - platelets **Thyroid Function Tests** Transitional Care Management Transportation - other transportation Transportation - paramedic Ungrouped Codes Urine Protein Vaccine for flu or Pneumonia Wellness Assessment X-Ray Thoracolumbar Spine / Pelvis



Relevant Diagnoses – ICD-10

Closed Fracture Neck of Femur Left	Open Fracture Neck of Femur Unsp
Closed Fracture Neck of Femur Right	Open Fracture of Pelvis Left
Closed Fracture Neck of Femur Unsp	Open Fracture of Pelvis Right
Closed Fracture of Pelvis, Left	Open Fracture of Pelvis Unsp
Closed Fracture of Pelvis, Right	Other Close Fracture Femur Left
Closed Fracture of Pelvis, Unsp	Other Close Fracture Femur Right
Compl of joint prosthesis, orthopedic proced	Other Close Fracture Femur Unsp
Complication of Implanted device, graft	Pathologic, stress fracture Left Femur, Pelv
Open Fracture Neck of Femur Left	Pathologic, stress fracture Right Femur, Pelv
Open Fracture Neck of Femur Right	Pathologic, stress fracture Unsp Femur, Pelv



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Complications – ICD-10

Accidental Falls	Decubitus Ulcer	Necrotising Fasciitis	Shock / Cardiac Arrest
Acute CHF / pulm edema	Dehydration	Opioid intoxication	Shock during or following cardiac surgery
Acute cor pulmonale	Delirium, Encephalopathy	Opportunistic Infections	Shock during or post-procedure
Acute Kidney Failure	Diabetes, poor control	Orthostatic Hypotension / Dizziness	Skin - other
Acute Osteomyelitis	dic, coagulation, hemorrhagic disorders	Other bacterial infections	STEMI
Adverse effects of drugs	Drug induced Mental Disorder	Other Bacterial Pneumonia	
Altered mental status	empyema, lung abscess	Other cerebral complications	Stimulant intoxication
arterial thromboembolism	Fluid Electrolyte Acid Base Problems	Other lower respiratory disease	Stress Incontinence
Aseptic Necrosis, Left	Foreign body left during procedure	other lung complications	Subendocardial Infarct
Aseptic Necrosis, Right	Gastroenteritis	Other lung problems	Suicide or Self-inflicted Injury
Aseptic Necrosis, Unspecified	GI Bleed	Other Mental Disorders	Thromboembolic Stroke
Aspiration Pneumonia	Gram Negative Pneumonia	Other Phlebitis, Lymphangitis, varices	Toxic Effects of Substances
Bacteremia, SIRS, no organ dysfunction	HAC 02: Air Embolism	Other psychoactive substance intoxication	Tracheostomy Complications
C-Difficile Infection	HAC 04: Stage III and IV Pressure Ulcers	Other Staph Pneumonia	Transfusion, Infusion related complications
Cannabis intoxication	HAC 09: Manifestations of Poor Glycemic Control	Overdose, Poisonings	
Chronic and Unspecified Osteomyelitis	Hallucinogen intoxication	Periprosthetic fracture	Transient cerebral ischemia, TIA
Chronic Fungal and Other Pneumonias	Hemorrhage	Phlebitis, Deep vein thrombosis (DVT)	Urethral Stricture
Chronic Skin Ulcer	Hemorrhagic Stroke	Poisoning by Psychostimulants	Urinary Complications
Coma, persistent vegetative state	Hepatorenal Syndrome	Pulmonary Embolism	Urinary Frequency & other symptoms
Compl of joint prosthesis, orthopedic proced	Hypertensive Urgency	Pyogenic Arthritis	Urinary Incontinence
Complication of genitourinary device	Hypotension / Syncope	Recent AMI	Urinary Retention
Complication of Implanted device, graft	Infective Arthritis	Renovascular and other secondary hypertension	Urinary Tract Infection
Complications from Central Line	Inhalant intoxication	Resp Failure following trauma / surgery	Vascular Prosthetic Device/Graft Complicatio
Complications from chemotherapy	Insulin Pump Complications	Respiratory Failure	
Complications of anesthesia	Intestinal Obstruction	Respiratory Insufficiency	Ventilator Associated Pnuemonia
complications of medical care	IVC & other intra-abd venous thrombosis	rhabdomyolysis	Ventilator Dependence
complications of surgical procedures	Meningitis / Encephalitis	Sedative, hypnotic or anxiolytic intoxication	Viral Pneumonia
Complications of surgical procedures or medical care	MRSA Pneumonia	Sepsis	Wound Dehiscence
Debilitating Viral Pneumonia	MRSA, Drug Resistant Infections	Severe Sepsis	Wound Infections



commission

Hip Replacement & Hip Revision (HIPRPL)

The Hip Replacement & Hip Revision Episode evaluates services that are typical/routine for the expected care for hip replacement & hip revision, and services that are related to associated complications.
Patients are defined as those with a primary procedure code of Hip Replacement or Hip Revision on an inpatient stay service or a trigger procedure code in any position on an outpatient facility/professional service, along with a qualifying diagnosis code. If the Hip Replacement/Hip Revision occurs during the time window of a Hip/Pelvic Fracture episode the Hip Replacement/Hip Revision is related to the Hip/Pelvic Fracture as typical care at the patient level.



Episode Length – HIPRPL





Episode Triggers – HIPRPL

Trigger Group Name	Code Type	Codes
Partial Hip Replacement	CPT	27125
Partial Hip Revision	CPT	27137, 27138
Total Hip Replacement	CPT	27130, 27132
Total Hip Resurfacing	HCPC	S2118
Total Hip Revision	CPT	27134



Trigger Diagnoses – ICD-10

Arthropathy hip, pelvis, thigh, LEFT Arthropathy hip, pelvis, thigh, RIGHT Arthropathy hip, pelvis, thigh, Unspecified Aseptic Necrosis, Left Aseptic Necrosis, Right Aseptic Necrosis, Unspecified Congenital Dislocation of Hip, Bilateral Congenital Dislocation of Hip, Left Congenital Dislocation of Hip, Right Congenital Dislocation of Hip, Unspecified Deformities, Left lower limb Deformities, lower limb Deformities, Right lower limb diabetes mellitus with neurologic manifestations Diabetes, other manifestation Dislocation Hip, Left **Dislocation Hip, Right** Dislocation Hip, Unspecified Fistula. Effusion in Joint Gout and other crystal arthropathies Gout and other crystal arthropathies, Left Gout and other crystal arthropathies, Right Hip / Pelvis deformities, Left Hip / Pelvis deformities, Right Hip / Pelvis deformities, Unspecified Infective Arthritis Infective Arthritis. Left Infective Arthritis, Right Inflammatory Arthropathies, Left Inflammatory Arthropathies, Right Inflammatory Arthropathies, Unspecified

Malunion, Left side Malunion, Right side Malunion, Unspecified MS - bone - nos - chondrodystrophy MS - bone - nos - nec / nos MS - face - acqrd defrmty MS - hip - protrusion of acetabulum MS - hip it replacement MS - joint - nos - effusion MS - joint nos - difficulty walking MS - joint nos - int derangmnt - loose body MS - joint nos - int derangmnt - other MS - joint nos - other arthropathy MS - muscle - nos - muscle atrophy MS - muscle - nos - muscle weakness MS - s / p bone transplant Neoplsm - benign neoplsm - bone / cartilage - nos Neoplsm - benign neoplsm - femur / fibula / tibia Neoplsm - benign neoplsm - lower extremity Nonunion, Left side Nonunion, Right side Nonunion, Unspecified NS - polyneuropathy - collagen vascular disease NS polyneuropathy-collagen vascul disease, LT NS polyneuropathy-collagen vascul disease, RT Open wounds of extremities Osteoarthritis Osteoarthritis, Hip, Left Osteoarthritis, Hip, Right Osteoarthritis, Hip, Unspecified Osteoarthritis, other joints

Osteoporosis, ostetits deformans, Left Osteoporosis, ostetits deformans, Right Osteoporosis, ostetits deformans, Unspecified Other arthropathies Other arthropathies, Left side Other arthropathies, Right side Other Close Fracture Femur Left Other Close Fracture Femur Right Other Close Fracture Femur Unsp Other deformities, limb, other sites, Left Other deformities, limb, other sites, Right Other deformities, limb, other, Unspecified Other osteopathic disorders, Unspecified Partial Hip Replacement Partial Hip Revision Pathologic, stress fracture Left Femur, Pelv Pathologic, stress fracture Right Femur, Pelv Pathologic, stress fracture Unsp Femur, Pelv Periprosthetic fracture Personal history of musculoskeletal disorders Rheumatoid Arthritis and Inflammatory Con, LT Rheumatoid Arthritis and Inflammatory Con, RT Rheumatoid Arthritis and Inflammatory Connective Tissue Disease Rheumatoid Arthritis, Left Rheumatoid Arthritis, Right Rheumatoid Arthritis, Unspecified **Total Hip Replacement** Total Hip Resurfacing **Total Hip Revision** Wasting of Muscles and Neuro Muscular Dystrophy



Advance care planning Alcohol / Drug Use Screening Ancillary Services Anesthesia Anti-TNF agents Aortic resection, replacement or anastomosis Bleeding Status Blood Count Blood Gases, Pulse Oximetry Blood transfusion Blood Type, Coomb's test Bundled Payment / Medical Home Cardiac Stress Test Care Plan Oversight **Case Management Services** Case Management Services - Behavioral CHEMOTHERAPY CHLAMYDIA SCREENING Chronic Care Management Closed Surg for Hip socket/Pelvis w/manipulat Closed Surg for Neck/Proximal Femur w/manipul Closed Surg for Neck/Proximal Femur, no manip Closed Surg for Shaft or Distal Femur, no man Closed Surg Hip Socket or Pelvis, no manipul Closed treatment of Hip Dislocation, post sur Closed treatment of Hip Dislocation, Spontane Closed treatment of Hip Dislocation, Traumat Closed treatment of Slipped Femoral Epiphysis Colonoscopy/Sigmoidoscopy ColorectalCa Screen Diagnostic physical therapy DME - bath / toilet aids DME - beds / accessories DME - heat/cold application DME - mobility aids DME - other DME - patient lifts DME - repair / maintenance DME - safety equipment DME - traction DME - trapeze / other orthopedic device DME - whirlpool - equipment DME - wound therapy DME and supplies Drug Deiiverv implantation E & M - consultation E & M - emergency care E & M - home visit

E & M - hospital E & M - nursing home E & M - other E & M - prevention HbA1C Hip replacement; total and partial Home Health / Hospice Home Health Services Hormone Therapy Imaging - ct - follow - up Imaging - ct - guidance Imaging - ct - lower extremity Imaging - ct - other Imaging - ct - study Imaging - mra - lower extremity Imaging - mra - pelvis Imaging - mri - contrast agent Imaging - mri - guidance Imaging - mri - other Imaging - mri - pelvis Imaging - nuclear - bone scan Imaging - nuclear - other Imaging - nuclear - other musculoskeletal Imaging - other imaging Imaging - other imaging - bone density Imaging - other imaging - bone density - dexa Imaging - other imaging - fluoroscopy Imaging - supplies - contrast agent - high osmolar Imaging - supplies - contrast agent - low osmolar Imaging - us - guide - biopsy Imaging - us - guide - other Imaging - us - other Imaging - x-ray - hip - arthrogram Imaging - x-ray - other - bone survey Imaging - x-ray - other - joint survey Imaging - x-ray - si joints - arthrogram Imaging Abdomen **IMMUNOTHERAPY** Insertion of catheter or spinal stimulator and injection into spinal canal Joint X-Rays Lab - blood gases Lab - chemistry Lab - hematology - blood count Lab - hematology - blood count - eosinophil count Lab - hematology - coagulation Lab - immunology

Lab - infectious agent antibody

Lab - infectious agent antigen Lab - infectious agent dna Lab - microbiology Lab - microbiology - c & s Lab - microbiology - microscopic exam Lab - microbiology - other Lab - other clinical lab Lab - other hematology Lab - pathology consultation Lab - specimen collection - blood - arterial - arterial puncture Lab - specimen collection - blood - venous - venipuncture Lab - specimen collection - blood - venous - venous port Lab - stat request Lab - surgical pathology Lab - therapeutic drug assay Lab - tissue typing Lab - transfusion medicine Lab - urinalvsis Laboratory - Chemistry and Hematology LEAD SCREENING Lipid Level Monitoring Low dose steroids Markers for Inflammation Medication Therapy Management Services Medications (Injections, infusions and other forms) Metabolic Renal Hepatic Chemistry Panel Microscopic examination (bacterial smear, culture, toxicology) NewBorn Blood Tests Online Management Open Surgery for Hip socket or Pelvis Open Surgery for Neck or Proximal Femur Open Surgery for Shaft or Distal Femur Open treatment of Hip Dislocation, Spontaneou Open treatment of Hip Dislocation, Traumatic Open treatment of Slipped Femoral Epiphysis Opioid Administration / Dispensing (OTP) Orthotics - lower extremity Orthotics - orthopedic shoes Orthotics - other Orthotics - upper extremity Other - non - covered Other care - bladder / bowel care - catheter Other care - bladder / bowel care - drainage bag Other care - bladder / bowel care - other supplies Other care - bladder / bowel care - other supplies - diaper / related Other care - bladder / bowel care - other supplies - skin barrier

Other care - chronic edema - appliance - limb compression

Other care - chronic edema - appliance - non - segmental Other care - chronic edema - appliance - segmental Other care - chronic edema - complex therapy Other care - chronic edema - compression stocking Other care - chronic edema - compressor Other care - chronic edema - compressor - non - segmental Other care - chronic edema - compressor - segmental Other care - chronic edema - exterior wrap Other care - chronic edema - gauntlet Other care - chronic edema - sleeve Other care - chronic edema - surgical stockings Other care - home care - emergency response system Other care - home care - home health aide Other care - home care - meals Other care - home care - nursing care Other care - home care - nursing care - Ipn Other care - home care - nursing care - np Other care - home care - nursing care - rn Other care - home care - other care Other care - home care - other care - attendant care Other care - home care - other care - chore care Other care - home care - other care - companion care Other care - home care - other care - day care Other care - home care - other care - homemaker Other care - home care - other care - respite care Other care - home care - physician supervision Other care - home care - rehabilitation - occupational therapy Other care - home care - rehabilitation - physical therapy Other care - home care - social worker Other care - home care - specialized visit Other care - home care - training Other care - hospice Other care - long term care - assisted living Other care - long term care - residential care Other care - nutrition - assessment Other care - nutrition - counseling - dietician Other care - nutrition - education Other care - nutrition - medical food Other care - nutrition - parenteral - all - inclusive Other care - nutrition - parenteral - pump Other care - observation Other care - other Other care - other - ancillary services Other care - other - exercise classes Other care - other - infection control Other care - other - interpretation Other care - other - lodging



Other care - other - meals Other care - other - medical records Other care - other - pvd - compressor Other care - other - weight management Other care - pain management - pca / related Other care - prevention - smoking cessation Other care - respiratory - equipment / supplies Other care - respiratory - equipment / supplies - nebulizer Other care - respiratory - equipment / supplies - peak flow meter Other care - respiratory - equipment / supplies - spirometer Other care - respiratory - other Other care - wound care Other care - wound care - growth factor Other care - wound care - hyperbaric oxygen Other diagnostic cardiovascular procedures Other diagnostic procedures (interview, evaluation, consultation) Other diagnostic radiology and related techniques Other Laboratory Partial Hip Replacement Partial Hip Resurfacing Partial Hip Revision Partial Hip Revision, Left Partial Hip Revision, Right Pathology Personal Care Services Physical Therapy / Rehab Physician Services Physician Services - Inpatient Physician Services - Outpatient Preventive Medicine, Care Coordination Procedure - anesthesia Procedure - arthroscopy - other joints Procedure - block - nerve Procedure - bone graft Procedure - casting / splinting - application Procedure - casting / splinting - supplies Procedure - central venous catheter - insertion Procedure - debridement - wound / infection / burn - debridement Procedure - destruction - nerve Procedure - excision - skin - remove subcutaneous lesion Procedure - excision - skin - shave skin lesion Procedure - gastric neurostimulator - implantation Procedure - graft Procedure - graft - skin - graft material Procedure - i&d - skin - drainage - post - op infection Procedure - i&d - skin - drainage of abscess Procedure - i&d - skin - drainage of hematoma

Procedure - injection - tendons / joints / etc. Procedure - injection of skin lesion Procedure - lymphadenectomy Procedure - microsurgery Procedure - neuro - other non - or rx Procedure - neuro - other or rx Procedure - other dx on musculoskeletal system Procedure - other fracture / dislocation - rx Procedure - other non - or rx - chemodenervation of eccrine glands Procedure - other non - or rx - other non - or skin procedures Procedure - other non - or rx on musculoskeletal system Procedure - other or rx - other or skin procedures Procedure - other or rx - peripheral neurostimulator procedures Procedure - other or rx on bone Procedure - other or rx on joints Procedure - other or rx on musculoskeletal system Procedure - other rx on muscles and tendons Procedure - other spine - rx / dx - injection Procedure - partial excision bone Procedure - peripheral nerve repair / graft Procedure - related supplies - ablation - catheter Procedure - related supplies - access catheter Procedure - related supplies - arthroplasty Procedure - related supplies - graft / repair Procedure - related supplies - implant Procedure - related supplies - other Procedure - removal of pins or fixation Procedure - rx - fracture / dislocation - hip / femur Procedure - spinal canal - catheter Procedure - spinal canal - injection into spinal canal Procedure - spinal canal - other Procedure - suture - skin - complex wound repair Procedure - suture - skin - delaved wound closure Procedure - vascular access - port / pump - insertion Procedures and Reporting Prosthetic Implant Prosthetics - external power Prosthetics - implant Prosthetics - lower extremity Prosthetics - other Prosthetics - repair Prosthetics - upper extremity **Psychiatry Evaluations Psychiatry Services** Psychological and psychiatric evaluation and therapy **Risk Assessment** Robotic Surgery

Rx - administration - infusion Rx - administration - injection Rx - antibiotics - aminoglycosides Rx - antibiotics - anti-infectives, misc Rx - antibiotics - cephalosporins Rx - antibiotics - chloramphenicol / comb Rx - antibiotics - macrolides Rx - antibiotics - penicillins Rx - antibiotics - quinolones Rx - antibiotics - sulfonamides / comb Rx - antibiotics - tetracyclines Rx - antibiotics / antivirals / antifungals - infusion Rx - antibiotics, misc Rx - b-lactam antibiotics Rx - blood derivatives Rx - cardiovascular system - vasodilating agents, nec Rx - cardiovascular system - vasodilating rx Rx - coagulation system - anticoagulants Rx - coagulation system - antiheparin agnt Rx - coagulation system - hemostatics Rx - diagnostic rx - roentgenography Rx - diuretics, loop diuretics Rx - electrolytic, caloric, water - caloric rx dextrose / rel Rx - electrolytic, caloric, water - hydration - unspecfied Rx - electrolytic, caloric, water - multi-mineral prep Rx - electrolytic, caloric, water - potassium supp Rx - gi - antiemetics Rx - gi - ppis Rx - hematopoietic system - hematopoietic growth factors Rx - hematopoietic system - iron / related Rx - miscellaneous rx Rx - miscellaneous rx - enzymes Rx - muscle relaxants - muscle relax, skeletal central Rx - other Rx - pharmacy fee Rx - serums, toxoids, vaccines - serums Rx - vitamins - multivit prep Screen for amino acid disorders Supplies Tests - cardiac - ecg - ecg - 12 lead Tests - cardiac - ecg - other Tests - cardiac stress tests - cardiac perfusion scan - rest / exercise Tests - cardiac stress tests - cardiac stress tests - other Tests - neuro - muscle testing Tests - neuro - ncv / ema Tests - neuro - other Tests - neuro - sleep studies

Tests - pulmonary - exhaled air analysis Tests - pulmonary - other Tests - pulmonary - peak flow Tests - skin Tests - vascular - arterial - extremity Tests - vascular - venous Therapy - accupuncture Therapy - activity therapy Therapy - behavior - partial hospilization Therapy - biofeedback Therapy - chiropractic / osteopathic manipulation Therapy - habilitation Therapy - hyperbaric oxygen Therapy - neurostimulator - muscle training Therapy - neurostimulator - nausea / vomiting Therapy - neurostimulator - tens - device Therapy - osteogenesis stimulator Therapy - other Therapy - phlebotomy Therapy - pt - exercises / activities Therapy - pt - modalities Therapy - rehabilitation - related supplies / equipment - motion device Therapy - transfusion - administration Therapy - transfusion - blood Therapy - transfusion - granulocytes Therapy - transfusion - plasma Therapy - transfusion - platelets Thyroid Function Tests Total Hip Replacement Total Hip Replacement, Left Total Hip Replacement, Right Total Hip Resurfacing Total Hip Revision Total Hip Revision, Left Total Hip Revision, Right Transitional Care Management Transportation - other transportation Transportation - paramedic Ungrouped Codes Urine Protein Vaccine for flu or Pneumonia Wellness Assessment X-Ray Thoracolumbar Spine / Pelvis



Relevant Diagnoses – ICD-10

Arthropathy hip, pelvis, thigh, LEFT Arthropathy hip, pelvis, thigh, RIGHT Arthropathy hip, pelvis, thigh, Unspecified Aseptic Necrosis, Left Aseptic Necrosis, Right Aseptic Necrosis, Unspecified Congenital Dislocation of Hip, Bilateral Congenital Dislocation of Hip, Left Congenital Dislocation of Hip, Right Congenital Dislocation of Hip, Unspecified Deformities, Left lower limb Deformities, lower limb Deformities, Right lower limb diabetes mellitus with neurologic manifestations Diabetes, other manifestation Dislocation Hip, Left **Dislocation Hip, Right Dislocation Hip, Unspecified** Fistula, Effusion in Joint Gout and other crystal arthropathies Gout and other crystal arthropathies, Left Gout and other crystal arthropathies, Right Hip / Pelvis deformities, Left Hip / Pelvis deformities, Right Hip / Pelvis deformities, Unspecified Infective Arthritis Infective Arthritis, Left Infective Arthritis, Right Inflammatory Arthropathies, Left Inflammatory Arthropathies, Right

Inflammatory Arthropathies, Unspecified Malunion, Left side Malunion, Right side Malunion, Unspecified MS - bone - nos - chondrodystrophy MS - bone - nos - nec / nos MS - face - acqrd defrmty MS - hip - protrusion of acetabulum MS - hip it replacement MS - joint - nos - effusion MS - joint nos - difficulty walking MS - joint nos - int derangmnt - loose body MS - joint nos - int derangmnt - other MS - joint nos - other arthropathy MS - muscle - nos - muscle atrophy MS - muscle - nos - muscle weakness MS - s / p bone transplant Neoplsm - benign neoplsm - bone / cartilage - nos Neoplsm - benign neoplsm - femur / fibula / tibia Neoplsm - benign neoplsm - lower extremity Nonunion. Left side Nonunion, Right side Nonunion, Unspecified NS - polyneuropathy - collagen vascular disease NS polyneuropathy-collagen vascul disease, LT NS polyneuropathy-collagen vascul disease, RT Open wounds of extremities Osteoarthritis Osteoarthritis, Hip, Left Osteoarthritis, Hip, Right

Osteoarthritis, Hip, Unspecified Osteoarthritis, other joints Osteoporosis, ostetits deformans, Left Osteoporosis, ostetits deformans, Right Osteoporosis, ostetits deformans, Unspecified Other arthropathies Other arthropathies, Left side Other arthropathies, Right side Other Close Fracture Femur Left Other Close Fracture Femur Right Other Close Fracture Femur Unsp Other deformities, limb, other sites, Left Other deformities, limb, other sites, Right Other deformities, limb, other, Unspecified Other osteopathic disorders, Unspecified Pathologic, stress fracture Left Femur, Pelv Pathologic, stress fracture Right Femur, Pelv Pathologic, stress fracture Unsp Femur, Pelv Periprosthetic fracture Personal history of musculoskeletal disorders Rheumatoid Arthritis and Inflammatory Con, LT Rheumatoid Arthritis and Inflammatory Con, RT Rheumatoid Arthritis and Inflammatory Connective Tissue Disease Rheumatoid Arthritis, Left Rheumatoid Arthritis, Right Rheumatoid Arthritis, Unspecified Wasting of Muscles and Neuro Muscular Dystrophy



Complications – ICD-10

Accidental Falls	Debilitating Viral Pneumonia	Meningitis / Encephalitis	Shock / Cardiac Arrest
Acute CHF / pulm edema	Decubitus Ulcer	MRSA Pneumonia	Shock during or following cardiac surgery
Acute cor pulmonale	Dehydration	MRSA, Drug Resistant Infections	Shock during or post-procedure
Acute esophagitis, acute gastritis, duodenitis	Delirium, Encephalopathy	Opportunistic Infections	Skin - other
Acute Kidney Failure	Dermatitis, Urticaria	Other bacterial infections	Skin and subcutaneous tissue infections
Acute myocardial infarction	Diabetes, poor control	Other Bacterial Pneumonia	
Acute Osteomyelitis	dic, coagulation, hemorrhagic disorders	Other cardiac arrhythmias	STEMI
Adverse effects of drugs	empyema, lung abscess	Other cerebral complications	Subendocardial Infarct
Altered mental status	Esophageal Reflux and Other Esophagitis	Other lower respiratory disease	Supraventricular Tachyarrhythmias
arterial thromboembolism	Fluid Electrolyte Acid Base Problems	other lung complications	Thromboembolic Stroke
Aspiration Pneumonia	Foreign body left during procedure	Other lung problems	Tracheostomy Complications
Atrial Flutter / Fibrillation	Gastroenteritis	Other Mental Disorders	Transfusion, Infusion related complications
Bacteremia, SIRS, no organ dysfunction	GI Bleed	Other Phlebitis, Lymphangitis, varices	Transient cerebral ischemia, TIA
Bladder Dysfunction, hemorrhage	Gram Negative Pneumonia	Other Staph Pneumonia	Urethral Stricture
C-Difficile Infection	HAC 02: Air Embolism	Perforation, Peritonitis, Abd Abscess	
Cellulitis, Skin Infection	HAC 04: Stage III and IV Pressure Ulcers	Periprosthetic fracture	Urinary Complications
Chronic and Unspecified Osteomyelitis	HAC 09: Manifestations of Poor Glycemic Control	Phlebitis, Deep vein thrombosis (DVT)	Urinary Frequency & other symptoms
Chronic Fungal and Other Pneumonias	Hemarthrosis: Bleeding into Joints	Pulmonary Embolism	Urinary Incontinence
Chronic Skin Ulcer	Hemorrhage	Pyoderma	Urinary Tract Infection
Coma, persistent vegetative state	Hemorrhagic Stroke	Pyogenic Arthritis	Vascular Insufficiency of intestine
Compl of joint prosthesis, orthopedic proced	Hepatorenal Syndrome	Recent AMI	Vascular Prosthetic Device/Graft Complication
Complication of genitourinary device	Hypertensive Urgency	Renovascular and other secondary hypertension	Ventilator Associated Pnuemonia
Complication of Implanted device, graft	Hypotension / Syncope	Resp Failure following trauma / surgery	Ventilator Dependence
Complications from Central Line	Infective Arthritis	Respiratory Failure	· · · · · · · · · · · · · · · · · · ·
Complications of anesthesia	Influenza with Pneumonia	Respiratory Insufficiency	Ventricular Arrhythmias
complications of medical care	Intestinal Obstruction	rhabdomyolysis	Viral Pneumonia
complications of surgical procedures	IVC & other intra-abd venous thrombosis	Sepsis	Wound Dehiscence
Complications of surgical procedures or medical car	e Lung disease from opportunistic infections	Severe Sepsis	Wound Infections



Knee Arthroscopy (KNARTH)

The Knee Arthroscopy Episode evaluates services that are typical/routine for the expected care and services that are related to associated complications. Patients are defined as those with a primary procedure code of Knee Arthroscopy on an inpatient stay service or a trigger procedure code in any position on an outpatient facility/professional service, along with a qualifying diagnosis code.



Episode Length – KNARTH



Episode Triggers – KNARTH

Trigger Group Name	Code Type	Codes
ACL Repair Knee	CPT	2988
Arthroscopy Knee Meniscal Transplant / Graft	CPT	29866-29868
Knee Arthroscopy without ligament repair	CPT	29870-29884
Posterior Cruciate Ligament Repair Knee	CPT	29889



Trigger Diagnoses – ICD-10, CPT

ACL Repair Knee	Knee Arthroscopy without ligament repair	MS - knee jt - replacement	Other arthropathies, Right side
Anterior Cruciate Ligament Sprain	Knee deformities, Left	MS - mscl / lgmnt / fscia - nos - nec / nos	Other Close Fracture Femur Left
Arthroscopy Knee Meniscal Transplant / Graft	Knee deformities, Right	MS - synvm / tndn / brsa - nos - bursitis	Other Close Fracture Femur Right
Aseptic Necrosis, Left	Knee deformities, Unspecified	MS - synvm / tndn / brsa - nos - ganglion / cyst	Other Close Fracture Femur Unsp
Aseptic Necrosis, Right	Knee derangements, Left	MS - synvm / tndn / brsa - nos - nec / nos	Other deformities, limb, other sites, Left
Aseptic Necrosis, Unspecified	Knee derangements, Right	MS - synvm / tndn / brsa - nos - rupture - synovium	Other deformities, limb, other sites, Right
Compl of joint prosthesis, orthopedic proced	Knee derangements, Unspecified	MS - synvm / tndn / brsa - nos - rupture - tendon	Other deformities, limb, other, Unspecified
Contracture lower leg joint	Malunion, Left side	MS - synvm / tndn / brsa - nos - synvtis/tensyn	Other osteopathic disorders, Left
Cruciate Ligament Sprain	Malunion, Right side	MS - uppr leg - tendon rupture - quadriceps	Other osteopathic disorders, Right
Deformities, Left lower limb	Malunion, Unspecified	Necrotising Fasciitis	Other osteopathic disorders, Unspecified
Deformities, lower limb	Meniscus Injurt of Knee, Unspecified	Neoplsm - benign neoplsm - bone / cartilage - nos	Patella Injuries and Disorders
Deformities, Right lower limb	Meniscus Injurt of Left Knee	Neoplsm - benign neoplsm - femur / fibula / tibia	Patella Injuries and Disorders, Left
diabetes mellitus with neurologic manifestations	Meniscus Injurt of Right Knee	Neoplsm - benign neoplsm - lower extremity	Patella Injuries and Disorders, Right
Diabetes, other manifestation	MS - bone - nos - chondrodystrophy	Nonunion, Left side	Pathologic, stress fracture Left Femur, Pelv
Dislocation of Knee, Left	MS - bone - nos - nec / nos	Nonunion, Right side	Pathologic, stress fracture Right Femur, Pelv
Dislocation of Knee, Right	MS - bone - nos - service - other	Nonunion, Unspecified	Pathologic, stress fracture Unsp Femur, Pelv
Dislocation of Knee, Unspecified	MS - face - acqrd defrmty	NS - polyneuropathy - collagen vascular disease	Periprosthetic fracture
Disorders of the Knee	MS - joint - nos - effusion	NS polyneuropathy-collagen vascul disease, LT	•
Fistula, Effusion in Joint	MS - joint nos - difficulty walking	NS polyneuropathy-collagen vascul disease, RT	Posterior Cruciate Ligament Repair Knee
Gout and other crystal arthropathies	MS - joint nos - jnt derangmnt - loose body	Open wounds of extremities	Posterior Cruciate Ligament Sprain
Gout and other crystal arthropathies, Left	MS - joint nos - jnt derangmnt - other	Osteoarthritis	Pyogenic Arthritis
Gout and other crystal arthropathies, Right	MS - joint nos - other arthropathy	Osteoarthritis, Knee, Bilateral	Rheumatoid Arthritis and Inflammatory Con, LT
Hemarthrosis: Bleeding into Joints	MS - knee - disloc - pathologic	Osteoarthritis, Knee, Unspecified	Rheumatoid Arthritis and Inflammatory Con, RT
Infective Arthritis	MS - knee - disloc - recurrent	Osteoarthritis, Left Knee	Rheumatoid Arthritis and Inflammatory Connective Tissue
Infective Arthritis, Left	MS - knee - enthesopathy - nec / nos	Osteoarthritis, other joints	Disease
Infective Arthritis, Right	MS - knee - jnt derangmnt - nec / nos	Osteoarthritis, Right Knee	Rheumatoid Arthritis, Left
Inflammatory Arthropathies, Left	MS - knee - other arthropathy	Osteoporosis, ostetits deformans	Rheumatoid Arthritis, Right
Inflammatory Arthropathies, Right	MS - knee - pain	Osteoporosis, ostetits deformans, Left	Rheumatoid Arthritis, Unspecified
Inflammatory Arthropathies, Unspecified	MS - knee - stiffness	Osteoporosis, ostetits deformans, Right	Sprains and Strains
Injury to other ligaments, Knee, Left	MS - knee - synovium rupture	Osteoporosis, ostetits deformans, Unspecified	Wasting of Muscles and Neuro Musc Dystro, LT
Injury to other ligaments, Knee, Right	MS - knee - tendon rupture	Other arthropathies	Wasting of Muscles and Neuro Musc Dystro, RT
Injury to other ligaments, Knee, Unsp	MS - knee - tibial collateral ligament bursitis	Other arthropathies, Left side	Wasting of Muscles and Neuro Muscular Dystrophy
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ACL Repair Knee Advance care planning Alcohol / Drug Use Screening Ancillary Services Anesthesia Aortic resection, replacement or anastomosis Arthroscopy Arthroscopy Knee Meniscal Transplant / Graft Bleeding Status Blood Count Blood Gases, Pulse Oximetry Blood transfusion Blood Type, Coomb's test Bundled Payment / Medical Home Cardiac Stress Test Care Plan Oversight Case Management Services CHEMOTHERAPY CHLAMYDIA SCREENING Chronic Care Management Colonoscopy/Sigmoidoscopy ColorectalCa Screen Diagnostic physical therapy Division of joint capsule, ligament or cartilage DME - bath / toilet aids DME - beds / accessories DME - heat/cold application DME - mobility aids DME - other DME - patient lifts DME - repair / maintenance DME - restraints DME - safety equipment DME - traction DME - trapeze / other orthopedic device DME - whirlpool - equipment DME - wound therapy DME and supplies Drug Deiivery implantation E & M - consultation E & M - emergency care E & M - home visit

E & M - hospital

E & M - nursing home E & M - other E & M - prevention Excision of semilunar cartilage of knee HbA1C Home Health / Hospice Home Health Services Hormone Therapy Imaging - ct - follow - up Imaging - ct - guidance Imaging - ct - lower extremity Imaging - ct - other Imaging - mra - lower extremity Imaging - mri - contrast agent Imaging - mri - guidance Imaging - mri - other Imaging - other imaging Imaging - other imaging - bone density Imaging - other imaging - fluoroscopy Imaging - supplies - contrast agent - high osmolar Imaging - supplies - contrast agent - low osmolar Imaging - us - guide - biopsy Imaging - us - guide - other Imaging - us - other Imaging - x-ray - knee - arthrogram Imaging - x-ray - lower leg Imaging - x-ray - other - bone survey Imaging - x-ray - other - joint survey Insertion of catheter or spinal stimulator and injection into spinal canal Joint X-Ravs Knee Arthroscopy without ligament repair Lab - blood gases Lab - chemistry Lab - chemistry and toxicology tests Lab - hematology - blood count Lab - hematology - blood count - eosinophil count Lab - hematology - coagulation Lab - immunology Lab - infectious agent antibody Lab - infectious agent antigen Lab - infectious agent dna Lab - microbiology

Lab - microbiology - c & s Lab - microbiology - microscopic exam Lab - microbiology - other Lab - other clinical lab Lab - other hematology Lab - pathology consultation Lab - specimen collection - blood - arterial - arterial puncture Lab - specimen collection - blood - venous - venipuncture Lab - specimen collection - blood - venous - venous port Lab - specimen collection - specimen handling Lab - stat request Lab - surgical pathology Lab - therapeutic drug assav Lab - tissue typing Lab - transfusion medicine Lab - urinalysis Laboratory - Chemistry and Hematology LEAD SCREENING Lipid Level Monitoring Low dose steroids Markers for Inflammation Medication Assisted Management (MAT) Medication Therapy Management Services Medications (Injections, infusions and other forms) Metabolic Renal Hepatic Chemistry Panel Microscopic examination (bacterial smear, culture, toxicology) NewBorn Blood Tests **Online Management** Opioid Administration / Dispensing (OTP) Orthotics - lower extremity Orthotics - orthopedic shoes Orthotics - other Other - non - covered Other care - bladder / bowel care - catheter Other care - bladder / bowel care - drainage bag Other care - bladder / bowel care - other supplies Other care - bladder / bowel care - other supplies - diaper / related Other care - bladder / bowel care - other supplies - skin barrier Other care - chronic edema - appliance - limb compression Other care - chronic edema - appliance - non - segmental Other care - chronic edema - appliance - segmental Other care - chronic edema - complex therapy

Other care - chronic edema - compression stocking Other care - chronic edema - compressor Other care - chronic edema - compressor - non - segmental Other care - chronic edema - compressor - segmental Other care - chronic edema - exterior wrap Other care - chronic edema - gauntlet Other care - chronic edema - glove Other care - chronic edema - sleeve Other care - chronic edema - surgical stockings Other care - home care - emergency response system Other care - home care - home health aide Other care - home care - meals Other care - home care - nursing care Other care - home care - nursing care - Ipn Other care - home care - nursing care - np Other care - home care - nursing care - rn Other care - home care - other care Other care - home care - other care - attendant care Other care - home care - other care - chore care Other care - home care - other care - companion care Other care - home care - other care - day care Other care - home care - other care - homemaker Other care - home care - other care - respite care Other care - home care - physician supervision Other care - home care - rehabilitation - occupational therapy Other care - home care - rehabilitation - physical therapy Other care - home care - social worker Other care - home care - specialized visit Other care - home care - training Other care - hospice Other care - long term care - assisted living Other care - long term care - residential care Other care - nutrition - assessment Other care - nutrition - counseling - dietician Other care - nutrition - education Other care - nutrition - medical food Other care - observation Other care - other Other care - other - ancillary services Other care - other - exercise classes Other care - other - infection control Other care - other - interpretation





Other care - other - lead assessment	Procedure - i&d - skin - drainage - post - op infection	Rx - administration - injection	Tests - neuro - other
Other care - other - lodging	Procedure - i&d - skin - drainage of abscess	Rx - antibiotics - aminoglycosides	Tests - neuro - sleep studies
Other care - other - meals	Procedure - i&d - skin - drainage of hematoma	Rx - antibiotics - anti-infectives, misc	Tests - pulmonary - exhaled air analysis
Other care - other - medical records	Procedure - injection - tendons / joints / etc.	Rx - antibiotics - cephalosporins	Tests - pulmonary - other
Other care - other - pvd - compressor	Procedure - injection of skin lesion	Rx - antibiotics - chloramphenicol / comb	Tests - pulmonary - peak flow
Other care - other - weight management	Procedure - microsurgery	Rx - antibiotics - macrolides	
Other care - pain management - pca / related	Procedure - neuro - other non - or rx	Rx - antibiotics - penicillins	Tests - skin
Other care - prevention - smoking cessation	Procedure - neuro - other or rx	Rx - antibiotics - quinolones	Tests - vascular - arterial - extremity
Other care - respiratory - equipment / supplies	Procedure - open excision - knee cartilage	Rx - antibiotics - sulfonamides / comb	Tests - vascular - venous
Other care - respiratory - equipment / supplies - nebulizer	Procedure - other dx on musculoskeletal system	Rx - antibiotics - tetracyclines	Therapy - accupuncture
Other care - respiratory - equipment / supplies - peak flow meter	Procedure - other non - or rx - other non - or skin procedures	Rx - antibiotics, misc	Therapy - activity therapy
ther care - respiratory - equipment / supplies - spirometer	Procedure - other non - or rx on musculoskeletal system	Rx - b-lactam antibiotics	Therapy - allergy treatment
Other care - respiratory - other	Procedure - other or rx on bone	Rx - blood derivatives	Therapy - behavior - partial hospilization
ther care - wound care	Procedure - other or rx on joints	Rx - cardiovascular system - vasodilating agents, nec	Therapy - biofeedback
ther care - wound care - growth factor	Procedure - other or rx on musculoskeletal system	Rx - cardiovascular system - vasodilating rx	Therapy - chiropractic / osteopathic manipulation
ther care - wound care - hyperbaric oxygen	Procedure - other rx on muscles and tendons	Rx - coagulation system - anticoagulants	
ther diagnostic procedures (interview, evaluation, consultation)	Procedure - partial excision bone	Rx - coagulation system - antiheparin agnt	Therapy - habilitation
ther diagnostic procedures on musculoskeletal system	Procedure - peripheral nerve - decompression - other	Rx - coagulation system - hemostatics	Therapy - hyperbaric oxygen
ther Laboratory	Procedure - peripheral nerve repair / graft	Rx - diagnostic rx - roentgenography	Therapy - neurostimulator - muscle training
ther non-OR therapeutic procedures on musculoskeletal system	Procedure - related supplies - ablation - catheter	Rx - diuretics, loop diuretics	Therapy - neurostimulator - nausea / vomiting
ther OR therapeutic procedures on joints	Procedure - related supplies - access catheter	Rx - electrolytic, caloric, water - caloric rx dextrose / rel	Therapy - neurostimulator - tens - device
athology	Procedure - related supplies - graft / repair	Rx - electrolytic, caloric, water - hydration - unspecfied	Therapy - osteogenesis stimulator
ersonal Care Services	Procedure - related supplies - implant	Rx - electrolytic, caloric, water - multi-mineral prep	Therapy - other
hysical Therapy / Rehab	Procedure - related supplies - other	Rx - electrolytic, caloric, water - potassium supp	Therapy - phlebotomy
hysician Services	Procedure - removal of pins or fixation	Rx - gi - antiemetics	Therapy - pt - exercises / activities
hysician Services - Inpatient	Procedure - sedation	Rx - gi - ppis	
hysician Services - Outpatient	Procedure - spinal canal - catheter	Rx - hematopoietic system - hematopoietic growth factors	Therapy - pt - modalities
osterior Cruciate Ligament Repair Knee	Procedure - spinal canal - injection into spinal canal	Rx - miscellaneous rx	Therapy - rehabilitation - related supplies / equipment - motion device
reventive Medicine, Care Coordination	Procedure - spinal canal - other	Rx - miscellaneous rx - enzymes	Therapy - transfusion - administration
rocedure - anesthesia	Procedures and Reporting	Rx - muscle relaxants - muscle relax, skeletal central	Therapy - transfusion - blood
rocedure - arthroscopy - knee - other	Prosthetic Implant	Rx - other	Therapy - transfusion - granulocytes
rocedure - arthroscopy - other joints	Prosthetics - external power	Rx - pharmacy fee	Therapy - transfusion - plasma
rocedure - block - nerve	Prosthetics - implant	Rx - serums, toxoids, vaccines - serums	Therapy - transfusion - platelets
rocedure - bone graft	Prosthetics - lower extremity	Rx - vitamins - multivit prep	Thyroid Function Tests
rocedure - casting / splinting - application	Prosthetics - other	Screen for amino acid disorders	Transitional Care Management
rocedure - casting / splinting - supplies	Prosthetics - repair	Supplies	Transportation - other transportation
rocedure - central venous catheter - insertion	Prosthetics - trusses	Tests - cardiac - ecg - ecg - 12 lead	
rocedure - debridement - wound / infection / burn - debridement	Psychiatry Services	Tests - cardiac - ecg - other	Transportation - paramedic
rocedure - destruction - nerve	Psychological and psychiatric evaluation and therapy	Tests - cardiac stress tests - cardiac perfusion scan - rest / exercise	Ungrouped Codes
rocedure - excision - skin - shave skin lesion	Risk Assessment	Tests - cardiac stress tests - cardiac stress tests - other	Urine Protein
rocedure - graft	Robotic Surgery	Tests - neuro - muscle testing	Vaccine for flu or Pneumonia
rocedure - graft - skin - graft material	Rx - administration - infusion	Tests - neuro - ncv / emg	Wellness Assessment



Relevant Diagnoses – ICD-10

Anterior Cruciate Ligament Sprain	Knee deformities, Right	MS - mscl / Igmnt / fscia - nos - nec / nos	Other arthropathies, Right side
Aseptic Necrosis, Left	Knee deformities, Unspecified	MS - synvm / tndn / brsa - nos - bursitis	Other Close Fracture Femur Left
Aseptic Necrosis, Right	Knee derangements, Left	MS - synvm / tndn / brsa - nos - ganglion / cyst	Other Close Fracture Femur Right
Aseptic Necrosis, Unspecified	Knee derangements, Right	MS - synvm / tndn / brsa - nos - nec / nos	Other Close Fracture Femur Unsp
Compl of joint prosthesis, orthopedic proced	Knee derangements, Unspecified	MS - synvm / tndn / brsa - nos - rupture - synovium	Other deformities, limb, other sites, Left
Contracture lower leg joint	Malunion, Left side	MS - synvm / tndn / brsa - nos - rupture - tendon	Other deformities, limb, other sites, Right
Cruciate Ligament Sprain	Malunion, Right side	MS - synvm / tndn / brsa - nos - synvtis/tensyn	Other deformities, limb, other, Unspecified
Deformities, Left lower limb	Malunion, Unspecified	MS - uppr leg - tendon rupture - quadriceps	Other osteopathic disorders, Left
Deformities, lower limb	Meniscus Injurt of Knee, Unspecified	Necrotising Fasciitis	Other osteopathic disorders, Right
Deformities, Right lower limb	Meniscus Injurt of Left Knee	Neoplsm - benign neoplsm - bone / cartilage - nos	Other osteopathic disorders, Unspecified
diabetes mellitus with neurologic manifestations	Meniscus Injurt of Right Knee	Neoplsm - benign neoplsm - femur / fibula / tibia	Patella Injuries and Disorders
Diabetes, other manifestation	MS - bone - nos - chondrodystrophy	Neoplsm - benign neoplsm - lower extremity	
Dislocation of Knee, Left	MS - bone - nos - nec / nos	Nonunion, Left side	Patella Injuries and Disorders, Left
Dislocation of Knee, Right	MS - bone - nos - service - other	Nonunion, Right side	Patella Injuries and Disorders, Right
Dislocation of Knee, Unspecified	MS - face - acqrd defrmty	Nonunion, Unspecified	Pathologic, stress fracture Left Femur, Pelv
Disorders of the Knee	MS - joint - nos - effusion	NS - polyneuropathy - collagen vascular disease	Pathologic, stress fracture Right Femur, Pelv
Fistula, Effusion in Joint	MS - joint nos - difficulty walking	NS polyneuropathy-collagen vascul disease, LT	Pathologic, stress fracture Unsp Femur, Pelv
Gout and other crystal arthropathies	MS - joint nos - jnt derangmnt - loose body	NS polyneuropathy-collagen vascul disease, RT	Periprosthetic fracture
Gout and other crystal arthropathies, Left	MS - joint nos - jnt derangmnt - other	Open wounds of extremities	Posterior Cruciate Ligament Sprain
Gout and other crystal arthropathies, Right	MS - joint nos - other arthropathy	Osteoarthritis	Pyogenic Arthritis
Hemarthrosis: Bleeding into Joints	MS - knee - disloc - pathologic	Osteoarthritis, Knee, Bilateral	Rheumatoid Arthritis and Inflammatory Con, LT
Infective Arthritis	MS - knee - disloc - recurrent	Osteoarthritis, Knee, Unspecified	Rheumatoid Arthritis and Inflammatory Con, RT
Infective Arthritis, Left	MS - knee - enthesopathy - nec / nos	Osteoarthritis, Left Knee	Rheumatoid Arthritis and Inflammatory Connective Tissue
Infective Arthritis, Right	MS - knee - jnt derangmnt - nec / nos	Osteoarthritis, other joints	Disease
Inflammatory Arthropathies, Left	MS - knee - other arthropathy	Osteoarthritis, Right Knee	Rheumatoid Arthritis, Left
Inflammatory Arthropathies, Right	MS - knee - pain	Osteoporosis, ostetits deformans	Rheumatoid Arthritis, Right
Inflammatory Arthropathies, Unspecified	MS - knee - stiffness	Osteoporosis, ostetits deformans, Left	Rheumatoid Arthritis, Unspecified
Injury to other ligaments, Knee, Left	MS - knee - synovium rupture	Osteoporosis, ostetits deformans, Right	Sprains and Strains
Injury to other ligaments, Knee, Right	MS - knee - tendon rupture	Osteoporosis, ostetits deformans, Unspecified	Wasting of Muscles and Neuro Musc Dystro, LT
Injury to other ligaments, Knee, Unsp	MS - knee - tibial collateral ligament bursitis	Other arthropathies	Wasting of Muscles and Neuro Musc Dystro, RT
Knee deformities, Left	MS - knee jt - replacement	Other arthropathies, Left side	Wasting of Muscles and Neuro Muscular Dystrophy
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Complications – ICD-10

Accidental Falls	Dehydration	Lung diagona from apportuniatic infactions	
		Lung disease from opportunistic infections	Shock / Cardiac Arrest
Acute CHF / pulm edema	Dermatitis, Urticaria	Malfunction / Complication of Heart Device	Shock during or following cardiac surgery
Acute cor pulmonale	Diabetes, poor control	Meningitis / Encephalitis	Shock during or post-procedure
Acute Kidney Failure	dic, coagulation, hemorrhagic disorders	MRSA Pneumonia	Skin - other
Acute Osteomyelitis	Disorders of the Knee	MRSA, Drug Resistant Infections	
Adverse effects of drugs	empyema, lung abscess	Opportunistic Infections	Skin and subcutaneous tissue infections
arterial thromboembolism	Esophageal Reflux and Other Esophagitis	Other bacterial infections	STEMI
Aspiration Pneumonia	Fluid Electrolyte Acid Base Problems	Other Bacterial Pneumonia	Subendocardial Infarct
Bacteremia, SIRS, no organ dysfunction	Foreign body left during procedure	Other cerebral complications	Thromboembolic Stroke
C-Difficile Infection	Gastroenteritis	Other lower respiratory disease	
Cellulitis, Skin Infection	GI Bleed	other lung complications	Tracheostomy Complications
Chronic and Unspecified Osteomyelitis	Gram Negative Pneumonia	Other lung problems	Transfusion, Infusion related complications
Chronic Fungal and Other Pneumonias	HAC 02: Air Embolism	Other Phlebitis, Lymphangitis, varices	Transient cerebral ischemia, TIA
Chronic Skin Ulcer	HAC 04: Stage III and IV Pressure Ulcers	Other Staph Pneumonia	Urethral Stricture
Compl of joint prosthesis, orthopedic proced	HAC 09: Manifestations of Poor Glycemic	Periprosthetic fracture	Urinary Complications
Complication of genitourinary device	Control	Phlebitis, Deep vein thrombosis (DVT)	
Complication of Implanted device, graft	Hemorrhage	Pulmonary Embolism	Urinary Frequency & other symptoms
Complication of nervous system device	Hemorrhagic Stroke		Urinary Incontinence
Complications from Central Line	Hepatorenal Syndrome	Pyoderma	Urinary Tract Infection
Complications from chemotherapy	Hypertensive Urgency	Pyogenic Arthritis	Vascular Prosthetic Device/Graft
Complications of anesthesia	Hypotension / Syncope	Recent AMI	Complication
complications of medical care	Infective Arthritis	Resp Failure following trauma / surgery	Ventilator Associated Pnuemonia
complications of surgical procedures	Infective Arthritis, Left	Respiratory Failure	Ventilator Dependence
Complications of surgical procedures or medical	Infective Arthritis, Right	Respiratory Insufficiency	
care	Influenza with Pneumonia	rhabdomyolysis	Viral Pneumonia
Debilitating Viral Pneumonia	Intestinal Obstruction	Sepsis	Wound Dehiscence
Decubitus Ulcer	IVC & other intra-abd venous thrombosis	Severe Sepsis	Wound Infections





The Knee Replacement & Knee Revision Episode evaluates services that are typical/routine for the expected care and services that are related to associated complications. Patients are defined as those with a primary procedure code of Knee Replacement or Knee Revision on an inpatient stay service or a trigger procedure code in any position on an outpatient facility/professional service, along with a qualifying diagnosis code.



Episode Length – KNRPL



Duration Pre-	Duration Post-	
Trigger Window	Trigger Window	
30 Days	90 Days	





Episode Triggers – KNRPL

Trigger Group Name	Code Type	Codes
Partial Knee Replacement (primary)	CPT	27446
Partial Knee Revision	CPT	27486
Total Knee Replacement (primary)	CPT	27447
Total Knee Revision	CPT	27487



Trigger Diagnoses – ICD-10, CPT

Aseptic Necrosis, Left	Knee deformities, Unspecified	MS - muscle - nos - muscle weakness	Other arthropathies
Aseptic Necrosis, Right	Knee derangements, Left	MS - muscle - nos - other ds	Other arthropathies, Left side
Aseptic Necrosis, Unspecified	Knee derangements, Right	MS - synvm / tndn / brsa - nos - bursitis	Other arthropathies, Right side
Compl of joint prosthesis, orthopedic proced	Knee derangements, Unspecified	MS - synvm / tndn / brsa - nos - ganglion / cyst	Other deformities, limb, other sites, Left
Contracture lower leg joint	Malunion, Left side	MS - synvm / tndn / brsa - nos - nec / nos	Other deformities, limb, other sites, Right
Deformities, Left lower limb	Malunion, Right side	MS - synvm / tndn / brsa - nos - rupture - synovium	Other deformities, limb, other, Unspecified
Deformities, lower limb	Malunion, Unspecified	MS - synvm / tndn / brsa - nos - rupture - tendon	
Deformities, Right lower limb	MS - bone - nos - chondrodystrophy	MS - synvm / tndn / brsa - nos - synvtis/tensyn	Other osteopathic disorders, Left
diabetes mellitus with neurologic manifestations	MS - bone - nos - nec / nos	MS - uppr leg - tendon rupture - quadriceps	Other osteopathic disorders, Right
Diabetes, other manifestation	MS - face - acqrd defrmty	Neoplsm - benign neoplsm - bone / cartilage - nos	Other osteopathic disorders, Unspecified
Dislocation of Knee, Left	MS - joint - nos - effusion	Neoplsm - benign neoplsm - femur / fibula / tibia	Partial Knee Replacement (primary)
Dislocation of Knee, Right	MS - joint nos - difficulty walking	Nonunion, Left side	Partial Knee Revision
Dislocation of Knee, Unspecified	MS - joint nos - jnt derangmnt - loose body	Nonunion, Right side	Periprosthetic fracture
Disorders of the Knee	MS - joint nos - jnt derangmnt - other	Nonunion, Unspecified	Personal history of musculoskeletal disorders
Fistula, Effusion in Joint	MS - joint nos - other arthropathy	NS - polyneuropathy - collagen vascular disease	Rheumatoid Arthritis and Inflammatory Con, LT
Gout and other crystal arthropathies	MS - knee - disloc - pathologic	NS polyneuropathy-collagen vascul disease, LT	Rheumatoid Arthritis and Inflammatory Con, RT
Gout and other crystal arthropathies, Left	MS - knee - disloc - recurrent	NS polyneuropathy-collagen vascul disease, RT	Rheumatoid Arthritis and Inflammatory Connective
Gout and other crystal arthropathies, Right	MS - knee - enthesopathy - nec / nos	Osteoarthritis	Tissue Disease
Hemarthrosis: Bleeding into Joints	MS - knee - jnt derangmnt - nec / nos	Osteoarthritis, Knee, Bilateral	Rheumatoid Arthritis, Left
Infective Arthritis	MS - knee - other arthropathy	Osteoarthritis, Knee, Unspecified	Rheumatoid Arthritis, Right
Infective Arthritis, Left	MS - knee - pain	Osteoarthritis, Left Knee	-
Infective Arthritis, Right	MS - knee - stiffness	Osteoarthritis, other joints	Rheumatoid Arthritis, Unspecified
Inflammatory Arthropathies, Left	MS - knee - synovium rupture	Osteoarthritis, Right Knee	Total Knee Replacement (primary)
Inflammatory Arthropathies, Right	MS - knee - tendon rupture	Osteoporosis, ostetits deformans	Total Knee Revision
Inflammatory Arthropathies, Unspecified	MS - knee - tibial collateral ligament bursitis	Osteoporosis, ostetits deformans, Left	Wasting of Muscles and Neuro Musc Dystro, LT
Knee deformities, Left	MS - mscl / lgmnt / fscia - nos - nec / nos	Osteoporosis, ostetits deformans, Right	Wasting of Muscles and Neuro Musc Dystro, RT
Knee deformities, Right	MS - muscle - nos - muscle atrophy	Osteoporosis, ostetits deformans, Unspecified	Wasting of Muscles and Neuro Muscular Dystrophy



HbA1C Advance care planning Alcohol / Drug Use Screening Home Health / Hospice Home Health Services Hormone Therapy Imaging - ct - cardiac Aortic resection, replacement or anastomosis Imaging - ct - follow - up Imaging - ct - guidance Imaging - ct - lower extremity Imaging - ct - other Imaging - mra - lower extremity Blood Type, Coomb's test Imaging - mra - pelvis Bundled Payment / Medical Home Imaging - mri - contrast agent Imaging - mri - guidance Care Plan Oversight Imaging - mri - other Imaging - mri - pelvis Case Management Services Case Management Services - Behavioral Imaging - other imaging Imaging - other imaging - bone density CHLAMYDIA SCREENING Imaging - other imaging - fluoroscopy Chronic Care Management Imaging - supplies - contrast agent - high osmolar Colonoscopy/Sigmoidoscopy ColorectalCa Screen Imaging - supplies - contrast agent - low osmolar Diagnostic physical therapy Imaging - us - guide - biopsy DME - bath / toilet aids Imaging - us - guide - other DME - beds / accessories Imaging - us - other DME - heat/cold application Imaging - x-ray - knee - arthrogram Imaging - x-ray - lower leg Imaging - x-ray - myelogram Imaging - x-ray - other - bone survey DME - repair / maintenance Imaging - x-ray - other - joint survey Imaging - x-ray - si joints - arthrogram Imaging Abdomen DME - safety equipment Insertion of catheter or spinal stimulator and injection into spinal canal DME - trapeze / other orthopedic device Joint X-Rays Knee Arthroscopy without ligament repair DME - whirlpool - equipment DME - wound therapy Lab - blood gases Lab - chemistry Drug Deiivery implantation Lab - chemistry and toxicology tests Lab - hematology - blood count E & M - consultation E & M - emergency care Lab - hematology - blood count - eosinophil count Lab - hematology - coagulation Lab - immunology E & M - nursing home Lab - infectious agent antibody Lab - infectious agent antigen Lab - infectious agent dna

Ancillary Services

Anti-TNF agents

Arthroplasty knee

Blood transfusion

Cardiac Stress Test

CHEMOTHERAPY

DME - mobility aids

DME - patient lifts

DME - restraints

DME - traction

DME and supplies

E & M - home visit

E & M - prevention

E & M - hospital

E & M - other

DME - other

Bleeding Status

Blood Count

Anesthesia

Lab - microbiology Lab - microbiology - c & s Lab - microbiology - microscopic exam Lab - microbiology - other Lab - microscopic - koh prep Lab - other clinical lab Lab - other hematology Lab - pathology consultation Lab - specimen collection - blood - arterial - arterial puncture Lab - specimen collection - blood - venous - venipuncture Lab - specimen collection - blood - venous - venous port Lab - stat request Lab - surgical pathology Lab - therapeutic drug assay Lab - tissue typing Lab - transfusion medicine Lab - urinalysis LEAD SCREENING Lipid Level Monitoring Low dose steroids Markers for Inflammation Medication Assisted Management (MAT) Medication Therapy Management Services Medications (Injections, infusions and other forms) Metabolic Renal Hepatic Chemistry Panel Microscopic examination (bacterial smear, culture, toxicology) **Online Management** Opioid Administration / Dispensing (OTP) Orthotics - lower extremity Orthotics - orthopedic shoes Orthotics - other Orthotics - spine Orthotics - upper extremity Other - non - covered Other care - bladder / bowel care - catheter Other care - bladder / bowel care - drainage bag Other care - bladder / bowel care - other supplies Other care - bladder / bowel care - other supplies - diaper / related Other care - bladder / bowel care - other supplies - skin barrier Other care - chronic edema - appliance - limb compression Other care - chronic edema - appliance - non - segmental Other care - chronic edema - appliance - segmental Other care - chronic edema - complex therapy

Other care - chronic edema - compression stocking Other care - chronic edema - compressor Other care - chronic edema - compressor - non - segmental Other care - chronic edema - compressor - segmental Other care - chronic edema - exterior wrap Other care - chronic edema - gauntlet Other care - chronic edema - glove Other care - chronic edema - sleeve Other care - chronic edema - surgical stockings Other care - home care - emergency response system Other care - home care - home health aide Other care - home care - meals Other care - home care - nursing care Other care - home care - nursing care - Ipn Other care - home care - nursing care - np Other care - home care - nursing care - rn Other care - home care - other care Other care - home care - other care - attendant care Other care - home care - other care - chore care Other care - home care - other care - companion care Other care - home care - other care - day care Other care - home care - other care - homemaker Other care - home care - other care - respite care Other care - home care - physician supervision Other care - home care - rehabilitation - occupational therapy Other care - home care - rehabilitation - physical therapy Other care - home care - social worker Other care - home care - specialized visit Other care - home care - training Other care - hospice Other care - long term care - assisted living Other care - long term care - residential care Other care - nutrition - assessment Other care - nutrition - counseling - dietician Other care - nutrition - education Other care - nutrition - medical food Other care - observation Other care - other Other care - other - ancillary services Other care - other - exercise classes Other care - other - infection control Other care - other - interpretation Other care - other - lodging





Other care - other - meals	Procedure - i&d - skin - drainage of abscess	Robotic Surgery	Tests - neuro - muscle testing
Other care - other - medical records	Procedure - i&d - skin - drainage of hematoma	Rx - administration - infusion	Tests - neuro - ncv / emg
Other care - other - pvd - compressor	Procedure - injection - tendons / joints / etc.	Rx - administration - injection	Tests - neuro - other
Other care - other - weight management	Procedure - injection of skin lesion	Rx - antibiotics - aminoglycosides	Tests - neuro - sleep studies
Other care - pain management - pca / related	Procedure - microsurgery	Rx - antibiotics - anti-infectives, misc	Tests - pulmonary - exhaled air analysis
Other care - prevention - smoking cessation	Procedure - obesity procedure - restriction	Rx - antibiotics - cephalosporins	Tests - pulmonary - other
Other care - respiratory - equipment / supplies	Procedure - open excision - knee cartilage	Rx - antibiotics - chloramphenicol / comb	Tests - pulmonary - peak flow
Other care - respiratory - equipment / supplies - nebulizer	Procedure - other dx on musculoskeletal system	Rx - antibiotics - macrolides	Tests - skin
Other care - respiratory - equipment / supplies - peak flow meter	Procedure - other knee arthroplasty	Rx - antibiotics - penicillins	Tests - vascular - arterial - extremity
Other care - respiratory - equipment / supplies - spirometer	Procedure - other non - or rx - other non - or skin procedures	Rx - antibiotics - quinolones	Tests - vascular - venous
Other care - respiratory - other	Procedure - other non - or rx on musculoskeletal system	Rx - antibiotics - sulfonamides / comb	
Other care - respiratory - oxygen / oxygen concentrator	Procedure - other or rx - peripheral neurostimulator procedures	Rx - antibiotics - tetracyclines	Therapy - accupuncture
Other care - wound care	Procedure - other or rx on bone	Rx - antibiotics / antivirals / antifungals - infusion	Therapy - activity therapy
Other care - wound care - growth factor	Procedure - other or rx on joints	Rx - antibiotics, misc	Therapy - behavior - partial hospilization
Other care - wound care - hyperbaric oxygen	Procedure - other or rx on musculoskeletal system	Rx - b-lactam antibiotics	Therapy - biofeedback
Other diagnostic procedures (interview, evaluation, consultation)	Procedure - other rx on muscles and tendons	Rx - blood derivatives	Therapy - chiropractic / osteopathic manipulation
Other diagnostic radiology and related techniques	Procedure - partial excision bone	Rx - cardiovascular system - vasodilating agents, nec	Therapy - habilitation
Other Laboratory	Procedure - related supplies - access catheter	Rx - cardiovascular system - vasodilating rx	Therapy - hyperbaric oxygen
Partial Knee Replacement (primary)	Procedure - related supplies - arthroplasty	Rx - coagulation system - anticoagulants	Therapy - neurostimulator - muscle training
Partial Knee Revision	Procedure - related supplies - graft / repair	Rx - coagulation system - antiheparin agnt	Therapy - neurostimulator - nausea / vomiting
Partial Knee Revision, Left	Procedure - related supplies - implant	Rx - coagulation system - hemostatics	Therapy - neurostimulator - tens - device
Partial Knee Revision, Right	Procedure - related supplies - other	Rx - diagnostic rx - roentgenography	Therapy - osteogenesis stimulator
Pathology	Procedure - removal of pins or fixation	Rx - diuretics, loop diuretics	Therapy - other
Personal Care Services	Procedure - rx - fracture / dislocation - lower extremity	Rx - electrolytic, caloric, water - caloric rx dextrose / rel	Therapy - phlebotomy
Physical Therapy / Rehab	Procedure - spinal canal - catheter	Rx - electrolytic, caloric, water - hydration - unspecfied	Therapy - pt - exercises / activities
Physician Services	Procedure - spinal canal - injection into spinal canal	Rx - electrolytic, caloric, water - multi-mineral prep	Therapy - pt - modalities
Physician Services - Inpatient	Procedure - spinal canal - other	Rx - electrolytic, caloric, water - potassium supp	Therapy - rehabilitation - related supplies / equipment - motion device
Physician Services - Outpatient	Procedure - suture - skin - complex wound repair	Rx - gi - antiemetics	Therapy - transfusion - administration
Preventive Medicine, Care Coordination	Procedure - suture - skin - delayed wound closure	Rx - gi - ppis	
Procedure - anesthesia	Procedure - vascular access - port / pump - insertion	Rx - hematopoietic system - hematopoietic growth factors	Therapy - transfusion - blood
Procedure - arthrocentesis	Procedures and Reporting	Rx - miscellaneous rx	Therapy - transfusion - plasma
Procedure - arthroscopy - knee - other	Prosthetic Implant	Rx - miscellaneous rx - enzymes	Therapy - transfusion - platelets
Procedure - arthroscopy - other joints	Prosthetics - external power	Rx - muscle relaxants - muscle relax, skeletal central	Thyroid Function Tests
Procedure - block - nerve	Prosthetics - implant	Rx - other	Total Knee Replacement (primary)
Procedure - bone graft	Prosthetics - lower extremity	Rx - pharmacy fee	Total Knee Revision
Procedure - casting / splinting - application	Prosthetics - other	Rx - serums, toxoids, vaccines - serums	Transitional Care Management
Procedure - casting / splinting - supplies	Prosthetics - repair	Rx - vitamins - multivit prep	Transportation - other transportation
Procedure - central venous catheter - insertion	Prosthetics - trusses	Screen for amino acid disorders	Transportation - paramedic
Procedure - debridement - wound / infection / burn - debridement	Prosthetics - upper extremity	Supplies	Ungrouped Codes
Procedure - destruction - nerve	Psychiatry Evaluations	Tests - cardiac - ecg - ecg - 12 lead	Urine Protein
Procedure - excision - skin - shave skin lesion	Psychiatry Services	Tests - cardiac - ecg - other	Vaccine for flu or Pneumonia
Procedure - graft - skin - graft material	Psychological and psychiatric evaluation and therapy	Tests - cardiac stress tests - cardiac perfusion scan - rest / exercise	Wellness Assessment
Procedure - i&d - skin - drainage - post - op infection	Risk Assessment	Tests - cardiac stress tests - cardiac stress tests - other	X-Ray Thoracolumbar Spine / Pelvis
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Relevant Diagnoses – ICD-10

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Aseptic Necrosis, Left	Knee deformities, Right	MS - mscl / lgmnt / fscia - nos - nec / nos	Osteoporosis, ostetits deformans, Left
Aseptic Necrosis, Right	Knee deformities, Unspecified	MS - muscle - nos - muscle atrophy	Osteoporosis, ostetits deformans, Right
Aseptic Necrosis, Unspecified	Knee derangements, Left	MS - muscle - nos - muscle weakness	Osteoporosis, ostetits deformans, Unspecified
Compl of joint prosthesis, orthopedic proced	Knee derangements, Right	MS - muscle - nos - other ds	Other arthropathies
Contracture lower leg joint	Knee derangements, Unspecified	MS - synvm / tndn / brsa - nos - bursitis	
Deformities, Left lower limb	Malunion, Left side	MS - synvm / tndn / brsa - nos - ganglion / cyst	Other arthropathies, Left side
Deformities, lower limb	Malunion, Right side	MS - synvm / tndn / brsa - nos - nec / nos	Other arthropathies, Right side
Deformities, Right lower limb	Malunion, Unspecified	MS - synvm / tndn / brsa - nos - rupture -	Other deformities, limb, other sites, Left
diabetes mellitus with neurologic	MS - bone - nos - chondrodystrophy	synovium	Other deformities, limb, other sites, Right
manifestations	MS - bone - nos - nec / nos	MS - synvm / tndn / brsa - nos - rupture - tendon	Other deformities, limb, other, Unspecified
Diabetes, other manifestation	MS - face - acqrd defrmty	MS - synvm / tndn / brsa - nos - synvtis/tensyn	Other osteopathic disorders, Left
Dislocation of Knee, Left	MS - joint - nos - effusion	MS - uppr leg - tendon rupture - quadriceps	Other osteopathic disorders, Right
Dislocation of Knee, Right	MS - joint nos - difficulty walking	Neoplsm - benign neoplsm - bone / cartilage - nos	Other osteopathic disorders, Unspecified
Dislocation of Knee, Unspecified	MS - joint nos - jnt derangmnt - loose body	Neoplsm - benign neoplsm - femur / fibula / tibia	Periprosthetic fracture
Disorders of the Knee	MS - joint nos - jnt derangmit - loose body MS - joint nos - jnt derangmit - other	Nonunion, Left side	· · ·
Fistula, Effusion in Joint		Nonunion, Right side	Personal history of musculoskeletal disorders
Gout and other crystal arthropathies	MS - joint nos - other arthropathy	Nonunion, Unspecified	Rheumatoid Arthritis and Inflammatory Con, LT
Gout and other crystal arthropathies, Left	MS - knee - disloc - pathologic	NS - polyneuropathy - collagen vascular disease	Rheumatoid Arthritis and Inflammatory Con, RT
Gout and other crystal arthropathies, Right	MS - knee - disloc - recurrent	NS polyneuropathy-collagen vascul disease, LT	Rheumatoid Arthritis and Inflammatory Connective
Hemarthrosis: Bleeding into Joints	MS - knee - enthesopathy - nec / nos	NS polyneuropathy-collagen vascul disease, RT	Tissue Disease
Infective Arthritis	MS - knee - jnt derangmnt - nec / nos	Osteoarthritis	Rheumatoid Arthritis, Left
Infective Arthritis, Left	MS - knee - other arthropathy	Osteoarthritis, Knee, Bilateral	Rheumatoid Arthritis, Right
Infective Arthritis, Right	MS - knee - pain	Osteoarthritis, Knee, Unspecified	
Inflammatory Arthropathies, Left	MS - knee - stiffness	Osteoarthritis, Left Knee	Rheumatoid Arthritis, Unspecified
Inflammatory Arthropathies, Right	MS - knee - synovium rupture	Osteoarthritis, other joints	Wasting of Muscles and Neuro Musc Dystro, LT
Inflammatory Arthropathies, Unspecified	MS - knee - tendon rupture	Osteoarthritis, Right Knee	Wasting of Muscles and Neuro Musc Dystro, RT
Knee deformities, Left	MS - knee - tibial collateral ligament bursitis	Osteoporosis, ostetits deformans	Wasting of Muscles and Neuro Muscular Dystrophy



Complications – ICD-10

Accidental Falls	Debilitating Viral Pneumonia	Hypotension / Syncope	Respiratory Insufficiency
Acute CHF / pulm edema	Decubitus Ulcer	Influenza with Pneumonia	rhabdomyolysis
Acute cor pulmonale	Dehydration	Intestinal Obstruction	Sepsis
Acute Kidney Failure	Delirium, Encephalopathy	IVC & other intra-abd venous thrombosis	Severe Sepsis
Acute myocardial infarction	Dermatitis, Urticaria	Meningitis / Encephalitis	
Acute Osteomyelitis	Diabetes, poor control	MRSA Pneumonia	Shock / Cardiac Arrest
Adverse effects of drugs	dic, coagulation, hemorrhagic disorders	MRSA, Drug Resistant Infections	Shock during or post-procedure
Altered mental status	Dislocation of Knee, Left	Opportunistic Infections	Skin - other
arterial thromboembolism	Dislocation of Knee, Right	Orthostatic Hypotension / Dizziness	STEMI
Aspiration Pneumonia	Dislocation of Knee, Unspecified	Other bacterial infections	Subendocardial Infarct
Bacteremia, SIRS, no organ dysfunction	Disorders of the Knee	Other Bacterial Pneumonia	Thromboembolic Stroke
C-Difficile Infection	empyema, lung abscess	Other cerebral complications	Tracheostomy Complications
Chronic and Unspecified Osteomyelitis	Fluid Electrolyte Acid Base Problems	Other lower respiratory disease	
Chronic Fungal and Other Pneumonias	Foreign body left during procedure	other lung complications	Transfusion, Infusion related complications
Chronic Skin Ulcer	Gastroenteritis		Transient cerebral ischemia, TIA
Coma, persistent vegetative state		Other lung problems	Urethral Stricture
Compl of joint prosthesis, orthopedic proced	Gram Negative Pneumonia	Other Phlebitis, Lymphangitis, varices	Urinary Complications
Complication of genitourinary device	HAC 02: Air Embolism	Other Staph Pneumonia	Urinary Frequency & other symptoms
Complication of Implanted device, graft	HAC 04: Stage III and IV Pressure Ulcers	Periprosthetic fracture	Urinary Tract Infection
Complications from Central Line			Ventilator Associated Pnuemonia
Complications of anesthesia	Hemarthrosis: Bleeding into Joints	Pulmonary Embolism	
complications of medical care	Hemorrhage	Pyogenic Arthritis	Ventilator Dependence
complications of surgical procedures	Hemorrhagic Stroke	Recent AMI	Viral Pneumonia
Complications of surgical procedures or medical	Hepatorenal Syndrome	Resp Failure following trauma / surgery	Wound Dehiscence
care	Hypertensive Urgency	Respiratory Failure	Wound Infections



Lumbar Laminectomy (LBRLAM)

The Lumbar Laminectomy Episode evaluates services that are typical/routine for the expected care and services that are related to associated complications. Patients are defined as those with a primary procedure code of Lumbar Laminectomy on an inpatient stay service or a procedure code in any position on an outpatient facility/professional service, along with a qualifying diagnosis code.



Episode Length – LBRLAM


Episode Triggers – LBRLAM

Trigger Group Name	Code Type	Codes
Decompression / Discectomy	CPT HCPC	63030-63057 S2350-S2351
Laminectomy	CPT	63005-63047



Trigger Diagnoses – ICD-10, CPT, HCPC

Backache
Decompression / Discectomy
Inflammatory spondylopathies
Laminectomy
Low Back Pain, Radiculopathy
Low Back Pain, Radiculopathy, Myelopathy
Major Neurological Deficit
MS - pelvis - sprn/strn
Other arthropathies
Other Back Pain, Radiculopathy, Myelopathy
Other bone infections
Other injuries and conditions due to external
Other Spine Problems
Post Laminectomy Syndrome
Spina Bifida
Spondylosis; intervertebral disc disorders; other back problems
Sprain Lower Back
Sprains and Strains
Stiff Spine



Advance care planning
Alcohol / Drug Use Screening
Ancillary Services
Anesthesia
Aortic resection, replacement or anastomosis
Bleeding Status
Blood Count
Blood transfusion
Blood Type, Coomb's test
Bundled Payment / Medical Home
Cardiac Stress Test
Care Plan Oversight
Case Management Services
Case Management Services - Behavioral
CHEMOTHERAPY
Chest X-Ray
CHLAMYDIA SCREENING
Chronic Care Management
Colonoscopy/Sigmoidoscopy ColorectalCa Screen
Decompression / Discectomy
Diagnostic physical therapy
DME - bath / toilet aids
DME - beds / accessories
DME - heat/cold application
DME - mobility aids
DME - other
DME - patient lifts
DME - repair / maintenance
DME - restraints
DME - safety equipment
DME - traction
DME - trapeze / other orthopedic device
DME - whirlpool - equipment
DME and supplies
Drug Deiivery implantation
E & M - consultation
E & M - emergency care
E & M - home visit
E & M - hospital

E & M - nursing home
E & M - other
E & M - prevention
Electrocardiogram - EKG monitoring
HbA1C
Home Health / Hospice
Home Health Services
Hormone Therapy
Imaging - ct - follow - up
Imaging - ct - lower extremity
Imaging - ct - other
Imaging - ct - study
Imaging - mra - lower extremity
Imaging - mra - pelvis
Imaging - mri - contrast agent
Imaging - mri - lumbar spine
Imaging - mri - other
Imaging - mri - pelvis
Imaging - nuclear - bone scan
Imaging - nuclear - localization of inflammation
Imaging - nuclear - other
Imaging - nuclear - other musculoskeletal
Imaging - other imaging
Imaging - other imaging - bone density - dexa
Imaging - other imaging - fluoroscopy
Imaging - supplies - contrast agent - high osmolar
Imaging - supplies - contrast agent - low osmolar
Imaging - us - guide - other
Imaging - us - other
Imaging - x-ray - chest - other
Imaging - x-ray - discography
Imaging - x-ray - myelogram
Imaging - x-ray - si joints - arthrogram
Imaging Abdomen
Insertion of catheter or spinal stimulator and injection
Lab - blood gases
Lab - chemistry
Lab - chemistry and toxicology tests

Lab - hematology - blood count

Lab - hematology - blood count - eosinophil count Lab - hematology - coagulation Lab - immunology Lab - infectious agent dna Lab - microbiology Lab - microbiology - c & s Lab - microbiology - microscopic exam Lab - microscopic - koh prep Lab - other hematology Lab - pathology consultation Lab - specimen collection - blood - arterial - arterial puncture Lab - specimen collection - blood - venous - venipuncture Lab - specimen collection - blood - venous - venous port Lab - specimen collection - specimen handling Lab - stat request Lab - surgical pathology Lab - therapeutic drug assay Lab - transfusion medicine Lab - urinalysis Laboratory - Chemistry and Hematology Laminectomy Laminectomy, excision intervertebral disc LEAD SCREENING Lipid Level Monitoring Low dose steroids Lumbar Laminectomy Markers for Inflammation Medication Assisted Management (MAT) Medication Therapy Management Services Medications (Injections, infusions and other forms) Metabolic Renal Hepatic Chemistry Panel Microscopic examination (bacterial smear, culture, toxicology) NewBorn Blood Tests **Online Management** n into spinal canal Opioid Administration / Dispensing (OTP) Orthotics - orthopedic shoes Orthotics - other Orthotics - spine Other care - bladder / bowel care - cathete

Other care - bladder / bowel care - drainage bag Other care - bladder / bowel care - other supplies Other care - bladder / bowel care - other supplies - diaper / related Other care - bladder / bowel care - other supplies - skin barrier Other care - chronic edema - appliance - limb compression Other care - chronic edema - appliance - non - segmental Other care - chronic edema - appliance - segmental Other care - chronic edema - complex therapy Other care - chronic edema - compression stocking Other care - chronic edema - compressor Other care - chronic edema - compressor - non - segmental Other care - chronic edema - compressor - segmental Other care - chronic edema - exterior wrap Other care - chronic edema - gauntlet Other care - chronic edema - sleeve Other care - chronic edema - surgical stockings Other care - home care - emergency response system Other care - home care - home health aide Other care - home care - meals Other care - home care - nursing care Other care - home care - nursing care - Ipn Other care - home care - nursing care - np Other care - home care - nursing care - rn Other care - home care - other care Other care - home care - other care - attendant care Other care - home care - other care - chore care Other care - home care - other care - companion care Other care - home care - other care - day care Other care - home care - other care - homemaker Other care - home care - other care - respite care Other care - home care - physician supervision Other care - home care - rehabilitation - occupational therapy Other care - home care - rehabilitation - physical therapy Other care - home care - rehabilitation - speech therapy Other care - home care - social worker Other care - home care - specialized visit Other care - home care - training Other care - hospice Other care - long term care - assisted living



Other care - long term care - residential care	Physician Services - Outpatient	Procedure - spinal canal - injection into spinal canal	Spinal fusion
Other care - nutrition - assessment	Preventive Medicine, Care Coordination	Procedure - spinal canal - other	Supplies
Other care - nutrition - counseling - dietician	Procedure - anesthesia	Procedure - suture - skin - complex wound repair	Tests - cardiac - ecg - ecg - 12 lead
Other care - nutrition - education	Procedure - block - nerve	Procedure - suture - skin - delayed wound closure	Tests - cardiac - ecg - other
Other care - nutrition - enteral	Procedure - casting / splinting - application	Procedure - transplant - bone marrow - harvest stem cells	Tests - cardiac stress tests - cardiac perfusion scan - rest / exercise
Other care - nutrition - medical food	Procedure - casting / splinting - supplies	Procedure - vascular access - port / pump - insertion	
Other care - nutrition - parenteral - all - inclusive	Procedure - central venous catheter - insertion	Procedures and Reporting	Tests - cardiac stress tests - cardiac stress tests - other
Other care - nutrition - parenteral - pump	Procedure - debridement - wound / infection / burn - debridement	Prosthetics - external power	Tests - neuro - muscle testing
Other care - observation	Procedure - destruction - nerve	Prosthetics - implant	Tests - neuro - ncv / emg
Other care - other	Procedure - excision - skin - shave skin lesion	Psychiatry Evaluations	Tests - neuro - other
Other care - other - ancillary services	Procedure - graft	Psychiatry Services	Tests - pulmonary - peak flow
Other care - other - back care	Procedure - graft - skin - graft material	Psychological and psychiatric evaluation and therapy	Tests - skin
Other care - other - exercise classes	Procedure - i&d - skin - drainage - post - op infection	Risk Assessment	Tests - vascular - arterial - extremity
Other care - other - infection control	Procedure - i&d - skin - drainage of abscess	Robotic Surgery	Tests - vascular - venous
Other care - other - lodging	Procedure - i&d - skin - drainage of hematoma	Rx - administration - infusion	
Other care - other - meals	Procedure - injection - tendons / joints / etc.	Rx - administration - injection	Therapy - accupuncture
Other care - other - medical records	Procedure - injection of skin lesion	Rx - analg/antipy/nsaids - narcotics	Therapy - activity therapy
Other care - other - pvd - compressor	Procedure - laminectomy / related	Rx - antibiotics - anti-infectives, misc	Therapy - biofeedback
Other care - other - therapeutic riding	Procedure - microsurgery	Rx - antibiotics - cephalosporins	Therapy - chiropractic / osteopathic manipulation
Other care - other - weight management	Procedure - neuro - other non - or rx	Rx - antibiotics / antivirals / antifungals - infusion	Therapy - habilitation
Other care - pain management - pca / related	Procedure - obesity procedure - restriction	Rx - autonomic rx - parasympathomimetics	Therapy - hyperbaric oxygen
Other care - prevention - smoking cessation	Procedure - other dx on musculoskeletal system	Rx - central nervous system - benzodiazepines	Therapy - neurostimulator - muscle training
Other care - respiratory - equipment / supplies	Procedure - other non - or rx - chemodenervation of eccrine glands	Rx - coagulation system - anticoagulants	Therapy - neurostimulator - tens - device
Other care - wound care	Procedure - other non - or rx - other non - or skin procedures	Rx - coagulation system - hemostatics	
Other care - wound care - growth factor	Procedure - other non - or rx on musculoskeletal system	Rx - diagnostic rx - roentgenography	Therapy - osteogenesis stimulator
Other care - wound care - hyperbaric oxygen	Procedure - other or rx - other or skin procedures	Rx - electrolytic, caloric, water - caloric rx dextrose / rel	Therapy - other
Other diagnostic cardiovascular procedures	Procedure - other or rx on bone	Rx - electrolytic, caloric, water - hydration - unspecfied	Therapy - pt - exercises / activities
Other diagnostic nervous system procedures	Procedure - other or rx on joints	Rx - electrolytic, caloric, water - multi-mineral prep	Therapy - pt - modalities
Other diagnostic procedures (interview, evaluation, consultation)	Procedure - other rx on muscles and tendons	Rx - electrolytic, caloric, water - potassium supp	Therapy - rehabilitation - related supplies / equipment - motion device
Other diagnostic radiology and related techniques	Procedure - other spine - rx / dx - injection	Rx - gi - antiemetics	Thyroid Function Tests
Other Laboratory	Procedure - partial excision bone	Rx - hematopoietic system - hematopoietic growth factors	Transitional Care Management
Other OR therapeutic procedures on musculoskeletal system	Procedure - related supplies - ablation - catheter	Rx - miscellaneous rx	Transportation - other transportation
Other Spine Problems	Procedure - related supplies - access catheter	Rx - miscellaneous rx - enzymes	
Other therapeutic procedures	Procedure - related supplies - graft / repair	Rx - muscle relaxants - muscle relax, skeletal central	Transportation - paramedic
Pathology	Procedure - related supplies - implant	Rx - other	Ungrouped Codes
Personal Care Services	Procedure - related supplies - other	Rx - pharmacy fee	Urine Protein
Physical Therapy / Rehab	Procedure - removal of pins or fixation	Rx - serums, toxoids, vaccines - serums	Vaccine for flu or Pneumonia
Physician Services	Procedure - sedation	Rx - vitamins - multivit prep	Wellness Assessment
Physician Services - Inpatient	Procedure - spinal canal - catheter	Screen for amino acid disorders	X-Ray Thoracolumbar Spine / Pelvis



Relevant Diagnoses – ICD-10

Backache	Other injuries and conditions due to external
Inflammatory spondylopathies	Other Spine Problems
Low Back Pain, Radiculopathy	Post Laminectomy Syndrome
Low Back Pain, Radiculopathy, Myelopathy	Spina Bifida
Major Neurological Deficit	Spondylosis; intervertebral disc disorders; other back
MS - pelvis - sprn/strn	problems
Other arthropathies	Sprain Lower Back
Other Back Pain, Radiculopathy, Myelopathy	Sprains and Strains
Other bone infections	Stiff Spine



Complications – ICD-10

Accidental Falls	Decubitus Ulcer	MRSA Pneumonia	Sepsis
Acute CHF / pulm edema	Dehydration	MRSA, Drug Resistant Infections	Severe Sepsis
Acute cor pulmonale	Delirium, Encephalopathy	Opportunistic Infections	Shock / Cardiac Arrest
Acute esophagitis, acute gastritis, duodenitis	Dermatitis, Urticaria	Other bacterial infections	Shock during or following cardiac surgery
Acute Kidney Failure	Diabetes, poor control	Other Bacterial Pneumonia	Shock during or post-procedure
Acute Osteomyelitis	dic, coagulation, hemorrhagic disorders	Other bone infections	Sinus Node Dysfunction
Adverse effects of drugs	empyema, lung abscess	Other cardiac arrhythmias	Skin - other
Altered mental status	Esophageal Reflux and Other Esophagitis	Other cerebral complications	Skin and subcutaneous tissue infections
Anal and rectal conditions	Fluid Electrolyte Acid Base Problems	Other lower respiratory disease	STEMI
Aspiration Pneumonia	Foreign body left during procedure	other lung complications	Subendocardial Infarct
Atrial Flutter / Fibrillation	Gastroenteritis	Other lung problems	Suicide or Self-inflicted Injury
Bacteremia, SIRS, no organ dysfunction	GI Bleed	Other Mental Disorders	Supraventricular Tachyarrhythmias
Bladder Dysfunction, hemorrhage	Gram Negative Pneumonia	Other Phlebitis, Lymphangitis, varices	Thromboembolic Stroke
C-Difficile Infection	HAC 02: Air Embolism	Other Staph Pneumonia	Toxic Effects of Substances
Cellulitis, Skin Infection	HAC 04: Stage III and IV Pressure Ulcers	Overdose, Poisonings	Transfusion, Infusion related complications
Chronic and Unspecified Osteomyelitis	HAC 09: Manifestations of Poor Glycemic Control	Perforation, Peritonitis, Abd Abscess	Transient cerebral ischemia, TIA
Chronic Fungal and Other Pneumonias	Hemorrhage	Periprosthetic fracture	Urethral Stricture
Coma, persistent vegetative state	Hemorrhagic Stroke	Phlebitis, Deep vein thrombosis (DVT)	Urinary Complications
Compl of joint prosthesis, orthopedic proced	Hepatorenal Syndrome	Poisoning by Opiates	Urinary Frequency & other symptoms
Complication of genitourinary device	Hypertensive Urgency	Poisoning by Psychostimulants	Urinary Incontinence
Complication of Implanted device, graft	Hypotension / Syncope	Post Laminectomy Syndrome	Urinary Tract Infection
Complication of nervous system device	Infective Arthritis	Pulmonary Embolism	Vascular Insufficiency of intestine
Complications from Central Line	Influenza with Pneumonia	Pyoderma	Vascular Prosthetic Device/Graft Complication
Complications from chemotherapy	Intestinal Obstruction	Pyogenic Arthritis	Ventilator Associated Pnuemonia
Complications of anesthesia	Intraspinal abscess	Recent AMI	Ventilator Dependence
complications of medical care	IVC & other intra-abd venous thrombosis	Resp Failure following trauma / surgery	Ventricular Arrhythmias
complications of surgical procedures	Lung disease from opportunistic infections	Respiratory Failure	Viral Pneumonia
Complications of surgical procedures or medical care	Malfunction / Complication of Heart Device	Respiratory Insufficiency	Wound Dehiscence
Debilitating Viral Pneumonia	Meningitis / Encephalitis	Retroperitoneal Abscess	Wound Infections



Lumbar Spine Fusion (FUSION)

The Lumbar Spine Fusion Episode evaluates services that are typical/routine for the expected care and services that are related to associated complications. Patients are defined as those with a primary procedure code of Lumbar Spine Fusion on an inpatient stay service or a procedure code in any position on an outpatient facility/professional service, along with a qualifying diagnosis code.



Episode Length – FUSION



Episode Triggers – FUSION

Trigger Group Name	Code Type	Codes
Spinal Fusion	CPT	23533, 22558, 22612, 22630, 22633, 22800



Trigger Diagnoses – ICD-10, CPT

Back	ache
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Inflammatory spondylopathies

Low Back Pain, Radiculopathy

Low Back Pain, Radiculopathy, Myelopathy

Major Neurological Deficit

MS - pelvis - sprn/strn

Other arthropathies

Other Back Pain, Radiculopathy, Myelopathy

Other bone infections

Other Spine Problems

Post Laminectomy Syndrome

Spina Bifida

Spinal fusion

Spondylosis; intervertebral disc disorders; other back problems

Sprain Lower Back

Sprains and Strains

Stiff Spine



Advance care planning	E & M - nursing home
Alcohol / Drug Use Screening	E & M - other
Ancillary Services	E & M - prevention
Anesthesia	Electrocardiogram - EKG monitoring
Aortic resection, replacement or anastomosis	HbA1C
Bleeding Status	Home Health / Hospice
Blood Count	Home Health Services
Blood transfusion	Hormone Therapy
Blood Type, Coomb's test	Imaging - ct - follow - up
Bone Graft / Insertion of Spacers, Devices	Imaging - ct - lower extremity
Bundled Payment / Medical Home	Imaging - ct - other
Cardiac Stress Test	Imaging - ct - study
Care Plan Oversight	Imaging - mra - lower extremity
Case Management Services	Imaging - mra - pelvis
Case Management Services - Behavioral	Imaging - mri - contrast agent
CHEMOTHERAPY	Imaging - mri - lumbar spine
Chest X-Ray	Imaging - mri - other
CHLAMYDIA SCREENING	Imaging - mri - pelvis
Chronic Care Management	Imaging - nuclear - bone scan
Colonoscopy/Sigmoidoscopy ColorectalCa Screen	Imaging - nuclear - localization of inflammation
Decompression / Discectomy	Imaging - nuclear - other
Diagnostic physical therapy	Imaging - nuclear - other musculoskeletal
DME - bath / toilet aids	Imaging - other imaging
DME - beds / accessories	Imaging - other imaging - bone density - dexa
DME - heat/cold application	Imaging - other imaging - fluoroscopy
DME - mobility aids	Imaging - supplies - contrast agent - high osmolar
DME - other	Imaging - supplies - contrast agent - low osmolar
DME - patient lifts	Imaging - us - guide - other
DME - repair / maintenance	Imaging - us - other
DME - safety equipment	Imaging - x-ray - chest - other
DME - traction	Imaging - x-ray - discography
DME - trapeze / other orthopedic device	Imaging - x-ray - myelogram
DME - whirlpool - equipment	Imaging - x-ray - si joints - arthrogram
DME and supplies	Imaging Abdomen
Drug Deiivery implantation	Insertion of catheter or spinal stimulator and injection into spinal canal
E & M - consultation	Lab - blood gases
E & M - emergency care	Lab - chemistry
E & M - home visit	Lab - chemistry and toxicology tests
E & M - hospital	Lab - hematology - blood count

Lab - hematology - blood count - eosinophil count Lab - hematology - coagulation Lab - immunology Lab - infectious agent dna Lab - microbiology Lab - microbiology - c & s Lab - microbiology - microscopic exam Lab - microscopic - koh prep Lab - other hematology Lab - pathology consultation Lab - specimen collection - blood - arterial - arterial puncture Lab - specimen collection - blood - venous - venipuncture Lab - specimen collection - blood - venous - venous port Lab - specimen collection - specimen handling Lab - stat request Lab - surgical pathology Lab - therapeutic drug assay Lab - transfusion medicine Lab - urinalysis Laboratory - Chemistry and Hematology Laminectomy Laminectomy, excision intervertebral disc LEAD SCREENING Lipid Level Monitoring Low dose steroids Markers for Inflammation Medication Assisted Management (MAT) Medication Therapy Management Services Medications (Injections, infusions and other forms) Metabolic Renal Hepatic Chemistry Panel Microscopic examination (bacterial smear, culture, toxicology) NewBorn Blood Tests **Online Management** Opioid Administration / Dispensing (OTP) Orthotics - orthopedic shoes Orthotics - other Orthotics - spine Other care - bladder / bowel care - catheter Other care - bladder / bowel care - drainage bag

Other care - bladder / bowel care - other supplies Other care - bladder / bowel care - other supplies - diaper / related Other care - bladder / bowel care - other supplies - skin barrier Other care - chronic edema - appliance - limb compression Other care - chronic edema - appliance - non - segmental Other care - chronic edema - appliance - segmental Other care - chronic edema - complex therapy Other care - chronic edema - compression stocking Other care - chronic edema - compressor Other care - chronic edema - compressor - non - segmental Other care - chronic edema - compressor - segmental Other care - chronic edema - exterior wrap Other care - chronic edema - gauntlet Other care - chronic edema - glove Other care - chronic edema - sleeve Other care - chronic edema - surgical stockings Other care - home care - emergency response system Other care - home care - home health aide Other care - home care - meals Other care - home care - nursing care Other care - home care - nursing care - Ipn Other care - home care - nursing care - np Other care - home care - nursing care - rn Other care - home care - other care Other care - home care - other care - attendant care Other care - home care - other care - chore care Other care - home care - other care - companion care Other care - home care - other care - day care Other care - home care - other care - homemaker Other care - home care - other care - respite care Other care - home care - physician supervision Other care - home care - rehabilitation - occupational therapy Other care - home care - rehabilitation - physical therapy Other care - home care - rehabilitation - speech therapy Other care - home care - social worker Other care - home care - specialized visit Other care - home care - training Other care - hospice Other care - long term care - assisted living



Other care - long term care - residential care	Physician Services - Outpatient	Procedure - spinal canal - injection into spinal canal	Spinal fusion
Other care - nutrition - assessment	Preventive Medicine, Care Coordination	Procedure - spinal canal - other	Spinal Instrumentation / Stabilization
Other care - nutrition - counseling - dietician	Procedure - anesthesia	Procedure - suture - skin - complex wound repair	Supplies
Other care - nutrition - education	Procedure - block - nerve	Procedure - suture - skin - delayed wound closure	Tests - cardiac - ecg - ecg - 12 lead
Other care - nutrition - enteral	Procedure - casting / splinting - application	Procedure - transplant - bone marrow - harvest stem cells	Tests - cardiac - ecg - other
Other care - nutrition - medical food	Procedure - casting / splinting - supplies	Procedure - vascular access - port / pump - insertion	Tests - cardiac stress tests - cardiac perfusion scan - rest / exercise
Other care - nutrition - parenteral - all - inclusive	Procedure - central venous catheter - insertion	Procedures and Reporting	Tests - cardiac stress tests - cardiac stress tests - other
Other care - nutrition - parenteral - pump	Procedure - debridement - wound / infection / burn - debridement	Prosthetic Implant	
Other care - observation	Procedure - destruction - nerve	Prosthetics - external power	Tests - neuro - muscle testing
Other care - other	Procedure - excision - skin - shave skin lesion	Prosthetics - implant	Tests - neuro - ncv / emg
Other care - other - ancillary services	Procedure - graft	Psychiatry Evaluations	Tests - neuro - other
Other care - other - back care	Procedure - graft - skin - graft material	Psychiatry Services	Tests - pulmonary - peak flow
Other care - other - exercise classes	Procedure - i&d - skin - drainage - post - op infection	Psychological and psychiatric evaluation and therapy	Tests - skin
Other care - other - infection control	Procedure - i&d - skin - drainage of abscess	Removal of Spinal Instrumentation Hardware	Tests - vascular - arterial - extremity
Other care - other - lodging	Procedure - i&d - skin - drainage of hematoma	Risk Assessment	Tests - vascular - venous
Other care - other - meals	Procedure - injection - tendons / joints / etc.	Robotic Surgery	Therapy - accupuncture
Other care - other - medical records	Procedure - injection of skin lesion	Rx - administration - infusion	Therapy - activity therapy
Other care - other - pvd - compressor	Procedure - laminectomy / related	Rx - administration - injection	Therapy - biofeedback
Other care - other - therapeutic riding	Procedure - microsurgery	Rx - antibiotics - anti-infectives, misc	
Other care - other - weight management	Procedure - neuro - other non - or rx	Rx - antibiotics - cephalosporins	Therapy - chiropractic / osteopathic manipulation
Other care - pain management - pca / related	Procedure - obesity procedure - restriction	Rx - antibiotics / antivirals / antifungals - infusion	Therapy - habilitation
Other care - prevention - smoking cessation	Procedure - other dx on musculoskeletal system	Rx - coagulation system - anticoagulants	Therapy - hyperbaric oxygen
Other care - respiratory - equipment / supplies	Procedure - other non - or rx - chemodenervation of eccrine glands	Rx - coagulation system - hemostatics	Therapy - neurostimulator - muscle training
Other care - wound care	Procedure - other non - or rx - other non - or skin procedures	Rx - diagnostic rx - roentgenography	Therapy - neurostimulator - tens - device
Other care - wound care - growth factor	Procedure - other non - or rx on musculoskeletal system	Rx - electrolytic, caloric, water - caloric rx dextrose / rel	Therapy - osteogenesis stimulator
Other care - wound care - hyperbaric oxygen	Procedure - other or rx - other or skin procedures	Rx - electrolytic, caloric, water - hydration - unspecfied	Therapy - other
Other diagnostic cardiovascular procedures	Procedure - other or rx on bone	Rx - electrolytic, caloric, water - multi-mineral prep	Therapy - pt - exercises / activities
Other diagnostic nervous system procedures	Procedure - other or rx on joints	Rx - electrolytic, caloric, water - potassium supp	Therapy - pt - modalities
Other diagnostic procedures (interview, evaluation, consultation)	Procedure - other rx on muscles and tendons	Rx - gi - antiemetics	Therapy - rehabilitation - related supplies / equipment - motion device
Other diagnostic radiology and related techniques	Procedure - other spine - rx / dx - injection	Rx - hematopoietic system - hematopoietic growth factors	Thyroid Function Tests
Other Laboratory	Procedure - partial excision bone	Rx - hematopoietic system - iron / related	
Other OR therapeutic procedures on musculoskeletal system	Procedure - related supplies - ablation - catheter	Rx - miscellaneous rx	Transitional Care Management
Other Spine Problems	Procedure - related supplies - access catheter	Rx - miscellaneous rx - enzymes	Transportation - other transportation
Other therapeutic procedures	Procedure - related supplies - graft / repair	Rx - muscle relaxants - muscle relax, skeletal central	Transportation - paramedic
Pathology	Procedure - related supplies - implant	Rx - other	Ungrouped Codes
Personal Care Services	Procedure - related supplies - other	Rx - pharmacy fee	Urine Protein
Physical Therapy / Rehab	Procedure - removal of pins or fixation	Rx - serums, toxoids, vaccines - serums	Vaccine for flu or Pneumonia
Physician Services	Procedure - sedation	Rx - vitamins - multivit prep	Wellness Assessment
Physician Services - Inpatient	Procedure - spinal canal - catheter	Screen for amino acid disorders	X-Ray Thoracolumbar Spine / Pelvis
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Relevant Diagnoses – ICD-10

Backache	Other bone infections	
Inflammatory spondylopathies	Other Spine Problems	
Low Back Pain, Radiculopathy	Post Laminectomy Syndrome	
Low Back Pain, Radiculopathy, Myelopathy	Spina Bifida	
	Spondylosis; intervertebral disc disorders; other back	
Major Neurological Deficit	problems	
MS - pelvis - sprn/strn	Sprain Lower Back	
Other arthropathies	Sprains and Strains	
Other Back Pain, Radiculopathy, Myelopathy	Stiff Spine	

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Complications – ICD-10

Accidental Falls	Dermatitis, Urticaria	Other bacterial infections	Shock / Cardiac Arrest
Acute cor pulmonale	Diabetes, poor control	Other Bacterial Pneumonia	Shock during or following cardiac surgery
Acute Kidney Failure	dic, coagulation, hemorrhagic disorders	Other bone infections	Shock during or post-procedure
Acute Osteomyelitis	empyema, lung abscess	Other cardiac arrhythmias	Sinus Node Dysfunction
Adverse effects of drugs	Esophageal Reflux and Other Esophagitis	Other cerebral complications	Skin - other
Altered mental status	Fluid Electrolyte Acid Base Problems	Other lower respiratory disease	Skin and subcutaneous tissue infections
Anal and rectal conditions	Foreign body left during procedure	other lung complications	STEMI
Aspiration Pneumonia	Gastroenteritis	Other lung problems	Subendocardial Infarct
Atrial Flutter / Fibrillation	GI Bleed	Other Mental Disorders	Suicide or Self-inflicted Injury
Bacteremia, SIRS, no organ dysfunction	Gram Negative Pneumonia	Other Phlebitis, Lymphangitis, varices	Supraventricular Tachyarrhythmias
Bladder Dysfunction, hemorrhage	HAC 02: Air Embolism	Other Staph Pneumonia	Thromboembolic Stroke
C-Difficile Infection	HAC 04: Stage III and IV Pressure Ulcers	Overdose, Poisonings	Toxic Effects of Substances
Cellulitis, Skin Infection	HAC 09: Manifestations of Poor Glycemic Control	Perforation, Peritonitis, Abd Abscess	Transfusion, Infusion related complications
Chronic and Unspecified Osteomyelitis	Hemorrhage	Phlebitis, Deep vein thrombosis (DVT)	Transient cerebral ischemia, TIA
Chronic Fungal and Other Pneumonias	Hemorrhagic Stroke	Poisoning by Opiates	Urethral Stricture
Coma, persistent vegetative state	Hepatorenal Syndrome	Poisoning by Psychostimulants	
Compl of joint prosthesis, orthopedic proced	Hypertensive Urgency	Post Laminectomy Syndrome	Urinary Complications
Complication of genitourinary device	Hypotension / Syncope	Pulmonary Embolism	Urinary Frequency & other symptoms
Complication of Implanted device, graft	Infective Arthritis	Pyoderma	Urinary Incontinence
Complications from Central Line	Influenza with Pneumonia	Pyogenic Arthritis	Urinary Tract Infection
Complications of anesthesia	Intestinal Obstruction	Recent AMI	Vascular Insufficiency of intestine
complications of medical care	Intraspinal abscess	Renovascular and other secondary hypertension	Vascular Prosthetic Device/Graft Complication
complications of surgical procedures	IVC & other intra-abd venous thrombosis	Resp Failure following trauma / surgery	Ventilator Associated Pnuemonia
Complications of surgical procedures or medical care	Lung disease from opportunistic infections	Respiratory Failure	Ventilator Dependence
Debilitating Viral Pneumonia	Meningitis / Encephalitis	Respiratory Insufficiency	Ventricular Arrhythmias
Decubitus Ulcer	MRSA Pneumonia	Retroperitoneal Abscess	Viral Pneumonia
Dehydration	MRSA, Drug Resistant Infections	Sepsis	Wound Dehiscence
Delirium, Encephalopathy	Opportunistic Infections	Severe Sepsis	Wound Infections



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Shoulder Replacement (SHLDRP)

The Shoulder Replacement Episode evaluates services that are typical/routine for the expected care and services that are related to associated complications. Patients are defined as those with a primary procedure code of Shoulder Replacement on an inpatient stay service or a trigger procedure code in any position on an outpatient facility/professional service, along with a qualifying diagnosis code.



Episode Length – SHLDRP



Episode Triggers – SHLDRP

Trigger Group Name	Code Type	Codes
Partial Shoulder Replacement	CPT	23470
Revision of Shoulder Replacement	CPT	23473-23474
Total Shoulder Replacement	CPT	23472



Trigger Diagnoses – ICD-10, CPT

Aseptic Necrosis, Left	MS - extrmty - nonallo	Neoplsm - benign neoplsm - bone / cartilage - nos	Other osteopathic disorders, Left
Aseptic Necrosis, Right	MS - extrmty - other deformity	Neoplsm - benign neoplsm - humerus / radius /	Other osteopathic disorders, Right
Aseptic Necrosis, Unspecified	MS - face - acqrd defrmty	scapula / ulna	Other osteopathic disorders, Unspecified
diabetes mellitus with neurologic manifestations	MS - joint - nos - effusion	Neoplsm - benign neoplsm - upper extremity	Other Shoulder Derangements, Left
Diabetes, other manifestation	MS - joint nos - discloc - recurrent	Nonunion, Left side	Other Shoulder Derangements, Right
Fistula, Effusion in Joint	MS - joint nos - jnt derangmnt - loose body	Nonunion, Right side	Other Shoulder Derangements, Unspecified
Gout and other crystal arthropathies	MS - joint nos - jnt derangmnt - other	Nonunion, Unspecified	Partial Shoulder Replacement
Gout and other crystal arthropathies, Left	MS - joint nos - other arthropathy	NS - polyneuropathy - collagen vascular disease	Revision of Shoulder Replacement
Gout and other crystal arthropathies, Right	MS - mscl / Igmnt / fscia - nos - nec / nos	NS polyneuropathy-collagen vascul disease, LT	Rheumatoid Arthritis and Inflammatory Con, LT
Hemarthrosis: Bleeding into Joints	MS - muscle - nos - muscle atrophy	NS polyneuropathy-collagen vascul disease, RT	Rheumatoid Arthritis and Inflammatory Con, RT
Infective Arthritis	MS - muscle - nos - other ds	Osteoarthritis	Rheumatoid Arthritis and Inflammatory Connective
Infective Arthritis, Left	MS - shldr jt replacement	Osteoarthritis, other joints	Tissue Disease
Infective Arthritis, Right	MS - synvm / tndn / brsa - nos - bursitis	Osteoarthritis, Shoulder	Rheumatoid Arthritis, Left
Inflammatory Arthropathies, Left	MS - synvm / thdn / brsa - nos - ganglion / cyst	Osteoporosis, ostetits deformans, Left	Rheumatoid Arthritis, Right
		Osteoporosis, ostetits deformans, Right	Rheumatoid Arthritis, Unspecified
Inflammatory Arthropathies, Right	MS - synvm / tndn / brsa - nos - nec / nos	Osteoporosis, ostetits deformans, Unspecified	Rotator Cuff Strain, Tear and tendonitis Unsp
Inflammatory Arthropathies, Unspecified	MS - synvm / tndn / brsa - nos - rupture - synovium	Other arthropathies	Rotator Cuff Strain, Tear and tendonitis, LT
Malunion, Left side	MS - synvm / tndn / brsa - nos - rupture - tendon	Other arthropathies, Left side	Rotator Cuff Strain, Tear and tendonitis, RT
Malunion, Right side	MS - synvm / tndn / brsa - nos - synvtis/tensyn	Other arthropathies, Right side	Total Shoulder Replacement
Malunion, Unspecified	MS - uppr arm - fx - humerus - pathologic	Other deformities, limb, other sites, Left	Wasting of Muscles and Neuro Musc Dystro, LT
MS - bone - nos - chondrodystrophy	MS - uppr extrm - nos - ostchndrpthy	Other deformities, limb, other sites, Right	Wasting of Muscles and Neuro Musc Dystro, RT
MS - bone - nos - nec / nos	MS - uppr extrm - other deformity	Other deformities, limb, other, Unspecified	Wasting of Muscles and Neuro Muscular Dystrophy



Alcohol / Drug Use Screening	E & M - other	Lab - other hematology	
		Lub outer noniduology	Other care - home care - meals
Ancillary Services	E & M - prevention	Lab - pathology consultation	Other care - home care - nursing care
Anesthesia	Electrocardiogram - EKG monitoring	Lab - specimen collection - blood - arterial - arterial puncture	Other care - home care - nursing care - Ipn
Aortic resection, replacement or anastomosis	HbA1C	Lab - specimen collection - blood - venous - venipuncture	Other care - home care - nursing care - np
Bleeding Status	Home Health / Hospice	Lab - specimen collection - blood - venous - venous port	Other care - home care - nursing care - rn
Blood Count	Home Health Services	Lab - stat request	Other care - home care - other care
Blood Gases, Pulse Oximetry	Hormone Therapy	Lab - surgical pathology	Other care - home care - other care - attendant care
Blood transfusion	Imaging - ct - follow - up	Lab - therapeutic drug assay	Other care - home care - other care - chore care
Blood Type, Coomb's test	Imaging - ct - guidance	Lab - transfusion medicine	Other care - home care - other care - companion care
Bundled Payment / Medical Home	Imaging - ct - other	Lab - urinalysis	Other care - home care - other care - day care
Cardiac Stress Test	Imaging - ct - upper extremity	Laboratory - Chemistry and Hematology	Other care - home care - other care - respite care
Care Plan Oversight	Imaging - mra - upper extremity	LEAD SCREENING	Other care - home care - physician supervision
Case Management Services	Imaging - mri - contrast agent	Lipid Level Monitoring	Other care - home care - rehabilitation - occupational therapy
Case Management Services - Behavioral	Imaging - mri - guidance	Low dose steroids	Other care - home care - rehabilitation - physical therapy
CHEMOTHERAPY	Imaging - mri - other	Markers for Inflammation	Other care - home care - social worker
CHLAMYDIA SCREENING	Imaging - mri - upper extremity	Medication Assisted Management (MAT)	Other care - home care - specialized visit
Chronic Care Management	Imaging - other imaging	Medication Therapy Management Services	Other care - home care - training
Colonoscopy/Sigmoidoscopy ColorectalCa Screen	Imaging - other imaging - bone density	Medications (Injections, infusions and other forms)	Other care - hospice
Diagnostic physical therapy	Imaging - other imaging - fluoroscopy	Metabolic Renal Hepatic Chemistry Panel	Other care - long term care - assisted living
DME - bath / toilet aids	Imaging - supplies - contrast agent - high osmolar	Microscopic examination (bacterial smear, culture, toxicology)	Other care - long term care - residential care
DME - beds / accessories	Imaging - supplies - contrast agent - low osmolar	Online Management	Other care - nutrition - assessment
DME - heat/cold application	Imaging - us - guide - biopsy	Opioid Administration / Dispensing (OTP)	Other care - nutrition - counseling - dietician
DME - mobility aids	Imaging - us - guide - other	Orthotics - other	Other care - nutrition - education
DME - other	Imaging - us - other	Orthotics - upper extremity	Other care - nutrition - medical food
DME - patient lifts	Imaging - x-ray - other - joint survey	Other - non - covered	Other care - nutrition - parenteral - all - inclusive
DME - safety equipment	Imaging - x-ray - shoulder - arthrogram	Other care - bladder / bowel care - other supplies - skin barrier	Other care - nutrition - parenteral - pump
DME - traction	Imaging Abdomen	Other care - chronic edema - appliance - limb compression	Other care - observation
DME - trapeze / other orthopedic device	IMMUNOTHERAPY	Other care - chronic edema - appliance - segmental	Other care - other
DME - wound therapy	Lab - chemistry	Other care - chronic edema - compressor	Other care - other - ancillary services
DME and supplies	Lab - hematology - blood count	Other care - chronic edema - compressor - non - segmental	Other care - other - exercise classes
Drug Deiivery implantation	Lab - hematology - coagulation	Other care - chronic edema - compressor - segmental	Other care - other - infection control
E & M - consultation	Lab - immunology	Other care - chronic edema - exterior wrap	Other care - other - lodging
E & M - emergency care	Lab - infectious agent dna	Other care - chronic edema - gauntlet	Other care - other - meals
E & M - home visit	Lab - microbiology	Other care - chronic edema - glove	Other care - other - medical records
E & M - hospital	Lab - microbiology - c & s	Other care - chronic edema - sleeve	Other care - other - pvd - compressor



Other care - pain management - pca / related	Procedure - indwelling catheter	Prosthetics - repair	Tests - cardiac - ecg - ecg - 12 lead
Other care - respiratory - equipment / supplies	Procedure - injection - tendons / joints / etc.	Prosthetics - upper extremity	Tests - cardiac stress tests - cardiac perfusion scan - rest / exercise
Other care - respiratory - equipment / supplies - peak flow meter	Procedure - injection of skin lesion	Psychiatry Evaluations	Tests - cardiac stress tests - cardiac stress tests - other
Other care - respiratory - equipment / supplies - spirometer	Procedure - microsurgery	Psychological and psychiatric evaluation and therapy	Tests - neuro - ncv / emg
Other care - respiratory - other	Procedure - neuro - other non - or rx	Revision of Shoulder Joint	Tests - neuro - other
Other care - wound care	Procedure - neuro - other or rx	Revision of Shoulder Replacement	Tests - pulmonary - peak flow
Other care - wound care - growth factor	Procedure - obesity procedure - restriction	Risk Assessment	Tests - vascular - arterial - extremity
Other care - wound care - hyperbaric oxygen	Procedure - other dx on musculoskeletal system	Robotic Surgery	Tests - vascular - venous
Other diagnostic cardiovascular procedures	Procedure - other fracture / dislocation - rx	Rx - administration - infusion	Therapy - accupuncture
Other diagnostic procedures (interview, evaluation, consultation)	Procedure - other non - or rx - chemodenervation of eccrine glands	Rx - administration - injection	Therapy - behavior - partial hospilization
Other Laboratory	Procedure - other non - or rx - other non - or skin procedures	Rx - analg/antipy/nsaids - narcotics	Therapy - biofeedback
Partial Shoulder Replacement	Procedure - other non - or rx on musculoskeletal system	Rx - analg/antipy/nsaids - nsaids	Therapy - chiropractic / osteopathic manipulation
Pathology	Procedure - other or rx - peripheral neurostimulator procedures	Rx - antibiotics - anti-infectives, misc	Therapy - dialysis - supplies
Personal Care Services	Procedure - other or rx on bone	Rx - antibiotics - cephalosporins	Therapy - habilitation
Physical Therapy / Rehab	Procedure - other or rx on joints	Rx - antibiotics / antivirals / antifungals - infusion	Therapy - hyperbaric oxygen
Physician Services	Procedure - other or rx on musculoskeletal system	Rx - blood derivatives	Therapy - neurostimulator - muscle training
Physician Services - Inpatient	Procedure - other rx on muscles and tendons	Rx - coagulation system - anticoagulants	Therapy - neurostimulator - nausea / vomiting
Physician Services - Outpatient	Procedure - partial excision bone	Rx - coagulation system - antiheparin agnt	Therapy - neurostimulator - tens - device
Preventive Medicine, Care Coordination	Procedure - peripheral venous catheter	Rx - coagulation system - hemostatics	Therapy - osteogenesis stimulator
Procedure - anesthesia	Procedure - related supplies - ablation - catheter	Rx - diagnostic rx - roentgenography	Therapy - other
Procedure - arthroscopy - other joints	Procedure - related supplies - access catheter	Rx - electrolytic, caloric, water - caloric rx dextrose / rel	Therapy - phlebotomy
Procedure - block - nerve	Procedure - related supplies - arthroplasty	Rx - electrolytic, caloric, water - hydration - unspecfied	Therapy - pt - exercises / activities
Procedure - bone graft	Procedure - related supplies - graft / repair	Rx - electrolytic, caloric, water - multi-mineral prep	Therapy - pt - modalities
Procedure - casting / splinting - application	Procedure - related supplies - implant	Rx - electrolytic, caloric, water - potassium supp	Therapy - rehabilitation - related supplies / equipment - motion device
Procedure - casting / splinting - supplies	Procedure - related supplies - other	Rx - gi - antiemetics	Therapy - transfusion - administration
Procedure - catheter - arterial - arterial line for monitoring	Procedure - removal of pins or fixation	Rx - gi - ppis	Therapy - transfusion - blood
Procedure - central venous catheter - insertion	Procedure - sedation	Rx - hematopoietic system - hematopoietic growth factors	Therapy - transfusion - plasma
Procedure - central venous catheter - removal	Procedure - spinal canal - catheter	Rx - miscellaneous rx	Therapy - transfusion - platelets
Procedure - debridement - wound / infection / burn - debridement	Procedure - suture - skin - delayed wound closure	Rx - miscellaneous rx - enzymes	Total Shoulder Replacement
Procedure - destruction - nerve	Procedure - suture - skin - repair of superficial wound	Rx - muscle relaxants - muscle relax, skeletal central	Transportation - other transportation
Procedure - excision - skin - shave skin lesion	Procedure - vascular access - port / pump - insertion	Rx - other	Transportation - paramedic
Procedure - graft	Procedures and Reporting	Rx - pharmacy fee	Ungrouped Codes
Procedure - graft - skin - graft material	Prosthetic Implant	Rx - serums, toxoids, vaccines - serums	Urine Protein
Procedure - i&d - skin - drainage - post - op infection	Prosthetics - external power	Rx - vitamins - multivit prep	Vaccine for flu or Pneumonia
Procedure - i&d - skin - drainage of abscess	Prosthetics - implant	Screen for amino acid disorders	Wellness Assessment
Procedure - i&d - skin - drainage of hematoma	Prosthetics - other	Supplies	X-Ray Shoulder Scapula Clavicle



Relevant Diagnoses – ICD-10

Aseptic Necrosis, Left	MS - extrmty - nonallo	Neoplsm - benign neoplsm - bone / cartilage - nos	Other osteopathic disorders, Left
Aseptic Necrosis, Right		Neoplsm - benign neoplsm - humerus / radius /	Other osteopathic disorders, Right
Aseptic Necrosis, Unspecified	MS - face - acqrd defrmty	scapula / ulna	Other osteopathic disorders, Unspecified
diabetes mellitus with neurologic manifestations	MS - joint - nos - effusion	Neoplsm - benign neoplsm - upper extremity	Other Shoulder Derangements, Left
Diabetes, other manifestation	MS - joint nos - discloc - recurrent	Nonunion, Left side	Other Shoulder Derangements, Right
Fistula, Effusion in Joint		Nonunion, Right side	Other Shoulder Derangements, Unspecified
		Nonunion, Unspecified	Rheumatoid Arthritis and Inflammatory Con,
Gout and other crystal arthropathies		NS - polyneuropathy - collagen vascular disease	
Gout and other crystal arthropathies, Left		NS polyneuropathy-collagen vascul disease, LT	Rheumatoid Arthritis and Inflammatory Con, RT
Gout and other crystal arthropathies, Right		NS polyneuropathy-collagen vascul disease, RT	Rheumatoid Arthritis and Inflammatory
Hemarthrosis: Bleeding into Joints		Osteoarthritis	Connective Tissue Disease
Infective Arthritis		Osteoarthritis, other joints	Rheumatoid Arthritis, Left
Infective Arthritis, Left		Osteoarthritis, Shoulder	Rheumatoid Arthritis, Right
Infective Arthritis, Right	MS - Synvin / than / bisa - hos - buisius	Osteoporosis, ostetits deformans, Left	Rheumatoid Arthritis, Unspecified
Inflammatory Arthropathies, Left	MS - synvm / tndn / brsa - nos - ganglion / cyst	Osteoporosis, ostetits deformans, Right	Rotator Cuff Strain, Tear and tendonitis Uns
Inflammatory Arthropathies, Right	NO - Synvin / thui / bisa - hos - hec / hos	Osteoporosis, ostetits deformans, Unspecified	Rotator Cuff Strain, Tear and tendonitis, LT
Inflammatory Arthropathies, Unspecified	MS - synvm / tndn / brsa - nos - rupture - synovium	Other arthropathies	Rotator Cuff Strain, Tear and tendonitis, RT
Malunion, Left side	MS - synvm / tndn / brsa - nos - rupture - tendon		Wasting of Muscles and Neuro Musc Dystro,
Malunion, Right side		Other arthropathies, Right side	LT
Malunion, Unspecified		Other deformities, limb, other sites, Left	Wasting of Muscles and Neuro Musc Dystro RT
MS - bone - nos - chondrodystrophy	MS - uppr extrm - nos - ostchndrpthy	Other deformities, limb, other sites, Right	Wasting of Muscles and Neuro Muscular
MS - bone - nos - nec / nos		Other deformities, limb, other, Unspecified	Dystrophy



Complications – ICD-10

Accidental Falls	Complications of surgical procedures or medical	Intestinal Obstruction	Respiratory Failure
Acute CHF / pulm edema	care	Meningitis / Encephalitis	Respiratory Insufficiency
Acute cor pulmonale	Decubitus Ulcer	MRSA Pneumonia	rhabdomyolysis
Acute esophagitis, acute gastritis, duodenitis	Dehydration	MRSA, Drug Resistant Infections	Sepsis
Acute Kidney Failure	Delirium, Encephalopathy	Other bacterial infections	Severe Sepsis
Acute Osteomyelitis	Dermatitis, Urticaria	Other Bacterial Pneumonia	Shock / Cardiac Arrest
Adverse effects of drugs	Diabetes, poor control	Other cardiac arrhythmias	Shock during or post-procedure
Altered mental status	dic, coagulation, hemorrhagic disorders	Other injuries and conditions due to external	Skin - other
arterial thromboembolism	empyema, lung abscess	Other lower respiratory disease	
Aspiration Pneumonia	Esophageal Reflux and Other Esophagitis	other lung complications	Skin and subcutaneous tissue infections
Atrial Flutter / Fibrillation	Fluid Electrolyte Acid Base Problems	Other lung problems	STEMI
Bacteremia, SIRS, no organ dysfunction	Foreign body left during procedure	Other Phlebitis, Lymphangitis, varices	Subendocardial Infarct
Cellulitis, Skin Infection	Frostbite Chillblains	Other Staph Pneumonia	Supraventricular Tachyarrhythmias
Chronic and Unspecified Osteomyelitis	GI Bleed	Overdose, Poisonings	Thromboembolic Stroke
Chronic Fungal and Other Pneumonias	Gram Negative Pneumonia	Periprosthetic fracture	Transfusion, Infusion related complications
Chronic Skin Ulcer	HAC 02: Air Embolism	Phlebitis, Deep vein thrombosis (DVT)	Urethral Stricture
Compl of joint prosthesis, orthopedic proced	HAC 04: Stage III and IV Pressure Ulcers	Poisoning by Cannabis	Urinary Frequency & other symptoms
Complication of genitourinary device	HAC 09: Manifestations of Poor Glycemic Control Hemorrhage	Poisoning by Opiates	Urinary Incontinence
Complication of Implanted device, graft	0	Poisoning by Psychostimulants	Urinary Tract Infection
Complication of nervous system device	Hemorrhagic Stroke	Pulmonary Embolism	Ventilator Associated Pnuemonia
Complications from Central Line	Hepatorenal Syndrome	Pyoderma	Ventilator Dependence
Complications of anesthesia	Hypertensive Urgency	Pyogenic Arthritis	Ventricular Arrhythmias
complications of medical care	Hypotension / Syncope Influenza with Pneumonia	Recent AMI	Wound Dehiscence
complications of surgical procedures		Resp Failure following trauma / surgery	Wound Infections
complications of surgical procedules	Injury to nerves, shoulder region	Resp railure following trauma / surgery	







The COLOS Episode focuses on screening, surveillance and diagnostic colonoscopies. It evaluates services that are typical/routine for the expected care and services that are related to associated complications. Patients are defined as those with a procedure code of Colonoscopy on an outpatient facility/professional service, along with a qualifying diagnosis code.



Episode Length – COLOS



Episode Triggers – COLOS

Trigger Group Name	Code Type	Codes
Colonoscopy	CPT	45378, 45381
Colonoscopy through Stoma	CPT	44388,44403-44404
Colonoscopy thru stoma w biopsy, polypectomy	CPT	44389, 44392, 44395
Colonoscopy w biopsy, polypectomy	CPT	45380, 45384-45385
Colonoscopy/Sigmoidoscopy ColorectalCa Screen	HCPC ICD10	G0104-G0106, G120-G0122
Flexible Sigmoidoscopy /Colonoscopy	CPT	45390
Other therapeutic Sigmoidoscopy	CPT	45335
Sigmoidoscopy	CPT	45330
Sigmoidoscopy w biopsy, polypectomy	CPT	45331, 45333, 45338

health services



Trigger Diagnoses – ICD-10

Allergia Distatia Essinanhilia Castrosotaritia	Diverticulitie colitie	
Allergic, Dietetic, Eosinophilic Gastroenteritis	Diverticulitis, colitis	Neoplsm - screening - small intestine
Angiodysplasia of intestine	Diverticulosis, Meckel's diverticulum, Angiodyspalsia	Neuroendocrine, Myeloproliferative Cancers
Benign Carcinoid Tumor of the GI tract	Gastroenteritis	Nonspecific Gastroenteritis
Cancer in situ, Anorectal	GI - family hx of GI disease	Personal history of cancer
Cancer in situ, Colon	GI - flatulence / gas pain	
Cancer of colon	GI - personal hx of GI disease	Personal history of GI cancer
Cancer of other GI organs; peritoneum	GI Bleed	Post GI Surgery Syndromes
Cancer of rectum and anus	Hx of colon polyps, family Hx of colon cancer	Premalignancy anus/rectum
Cancer; other and unspecified primary	Intestinal Malabsorption, Celiac Disease	Previous bowel surgery, ostomy status
Congenital GI Problems in NB	Intestinal Obstruction	Pseudopolyposis of colon
Crohn's Disease	Iron deficiency and other anemias	Secondary malignancies, Unspecified
Crohn's Disease w Abscess	Irritable Bowel and other functional GI disor	Thyroid Cancer
Crohn's Disease w Fistula	Metastatic Cancer and Acute Leukemia	Toxic Effects of Radiation
Crohn's disease w intestinal obstruction	Neoplasms of unspecified nature or uncertain behavior	Toxic Gastroenteritis
Crohn's disease w other complications	Neoplsm - gi - premalignant - anus / rectum	Ulc Colitis w Abscess
Crohn's disease w rectal bleeding	Neoplsm - hemangioma - gi - nos	
Digestive congenital anomalies	Neoplsm - lipoma - gi - nos	Ulc Colitis w Fistula
Digestive system complications	Neoplsm - screening - colon - nos	Ulc Colitis w Obstruction
Disseminated Metastatic Cancer	Neoplsm - screening - gi - nos	Ulcerative Colitis
Diverticulitis w Perf, Abscess	Neoplsm - screening - nos	Ulcerative colitis w other complications
Diverticulitis with hemorrhage	Neoplsm - screening - rectum	Ulcerative colitis w rectal bleeding



Advance care planning Alcohol / Drug Use Management Alcohol / Drug Use Screening Ancillary Services Anesthesia Aortic resection, replacement or anastomosis **Bleeding Status** Blood Count Blood Gases, Pulse Oximetry Blood transfusion Blood Type, Coomb's test Bundled Payment / Medical Home Care Plan Oversight **Case Management Services** Case Management Services - Oncology CHEMOTHERAPY CHLAMYDIA SCREENING Chronic Care Management Colon Cancer, Unknown Disease Status Colonoscopy Colonoscopy - therapeutic Colonoscopy through Stoma Colonoscopy thru stoma w biopsy, polypectomy Colonoscopy w biopsy, polypectomy Colonoscopy/Sigmoidoscopy ColorectalCa Screen Coordinated Care Fees/Services Diagnostic physical therapy Diagnostic ultrasound of abdomen or retroperitoneum DME - bath / toilet aids DME - beds / accessories DME - heat/cold application DME - mobility aids DME - other DME - patient lifts DME - rehabilitation

DME - repair / maintenance **DME** - restraints DME - safety equipment DME and supplies Drug Deiivery implantation E & M - consultation E & M - emergency care E & M - home visit E & M - hospital E & M - nursing home E & M - other E & M - prevention Electrocardiogram - EKG monitoring Esophageal Motility and Diagnostic Workup Flexible Sigmoidoscopy /Colonoscopy HbA1C Hemorrhoid procedures Hepatitis B vaccine High dose steroids Home Health / Hospice Home Health Services Hormone Therapy HPV VACCINE Imaging - ct - follow - up Imaging - ct - guidance Imaging - ct - other Imaging - mri - contrast agent Imaging - mri - guidance Imaging - mri - other Imaging - nuclear - blood / plasma volume - scan Imaging - nuclear - gi blood loss Imaging - nuclear - localization of inflammation Imaging - nuclear - lymphatics Imaging - nuclear - other - automated data add - on

Imaging - nuclear - other blood / related

Imaging - nuclear - other gi Lab - chemistry Imaging - nuclear - platelet kinetics Imaging - nuclear - radiopharmaceutical - radiopharmaceutical -Lab - cytogenetics other Lab - cytology Imaging - nuclear - red cell survival Lab - endocrine Imaging - nuclear - shilling test Imaging - nuclear - shilling test - radiopharmaceutical Imaging - nuclear - tumor localization Imaging - nuclear - venous thrombosis - radiopharmaceutical Lab - gi - fat absorption Imaging - nuclear - venous thrombosis - scan Imaging - other imaging Imaging - other imaging - fluoroscopy Imaging - other imaging - fluoroscopy - guidance Lab - immunology Imaging - pet - colorectal cancer - recurrence / metastasis Imaging - pet - lymphoma - staging Imaging - pet - other Lab - infectious agent dna Imaging - pet - tumor imaging Imaging - supplies - contrast agent - high osmolar Lab - microbiology Imaging - supplies - contrast agent - low osmolar Lab - microbiology - c & s Imaging - supplies - ultrasound related Imaging - therapeutic procedure - abscess drainage Lab - microbiology - other Imaging - us - guide - biopsy Imaging - us - guide - other Imaging - us - other Imaging - us - retroperitoneum Imaging - us - transrectal Lab - other clinical lab Imaging - x-ray - abdomen Lab - other hematology Imaging - x-ray - lower gi - large bowel - contrast Imaging - x-ray - other - joint survey Imaging - x-ray - upper gi - duodenogram Imaging - x-ray - upper gi - esophagus - contrast Imaging - x-ray - upper gi - other Lab - stat request Imaging - x-ray - upper gi - small bowel - contrast Lab - surgical pathology Imaging Abdomen Insertion of catheter or spinal stimulator and injection into spinal canal Lab - tissue typing Lab - blood gases Lab - transfusion medicine

Lab - chemistry and toxicology tests Lab - endocrine response test Lab - genetic testing - brugada syndrome Lab - genetic testing - cardiac ion channel syndrome Lab - hematology - blood count Lab - hematology - blood count - eosinophil count Lab - hematology - coagulation Lab - infectious agent antibody Lab - infectious agent antigen Lab - microbiology - microscopic exam Lab - microbiology - viral culture Lab - microscopic - koh prep Lab - microscopic - pinworm Lab - microscopic - wet mount Lab - pathology consultation Lab - specimen collection - blood - venous - venipuncture Lab - specimen collection - specimen handling Lab - specimen collection - urine Lab - therapeutic drug assay



Lab - tumor marker Lab - urinalysis	Other care - home care - nursing care - rn	Other care - other - infection control	Procedure - hemorrhoidectomy
,			
	Other care - home care - other care	Other care - other - irrigation	Procedure - maintenance - cns / spinal pump / port
Laboratory - Chemistry and Hematology	Other care - home care - other care - attendant care	Other care - other - lead assessment	Procedure - other anal / rectal procedures - other procedures -
LEAD SCREENING	Other care - home care - other care - chore care	Other care - other - lodging	rectum / anus
Lipid Level Monitoring	Other care - home care - other care - companion care	Other care - other - meals	Procedure - other gi dx
Low dose steroids	Other care - home care - other care - day care	Other care - other - medical records	Procedure - other hemorrhoid procedures
Lung Function Tests		Other care - other - weight management	Procedure - other lower gi procedures - other bowel dx
Markers for Inflammation	Other care - home care - other care - respite care	Other care - pain management - pca / related	Procedure - other lower gi procedures - other non - or rx
Medication Assisted Management (MAT)	Other care - home care - physician supervision	Other care - prevention - smoking cessation	Procedure - other lower gi procedures - other or rx
Medication Therapy Management Services		Other care - respiratory - equipment / supplies	Procedure - other non - or rx - other non - or skin procedures
Medications (Injections, infusions and other forms)		Other care - respiratory - equipment / supplies - apnea monitor	Procedure - other procedures - pancreas
Metabolic Renal Hepatic Chemistry Panel		Other care - respiratory - equipment / supplies - nebulizer	Procedure - proctoscopy - screening
NewBorn Blood Tests		Other care - respiratory - equipment / supplies - nebulizer	Procedure - proctoscopy / anoscopy - other
Online Management	Other care - home care - specialized visit	Other care - respiratory - equipment / supplies - peak now meter	Procedure - proctosigmoidoscopy - dx
Opioid Administration / Dispensing (OTP)	0		Procedure - proctosigmoidoscopy - rx
Other - non - covered		Other care - respiratory - oxygen / oxygen concentrator	Procedure - related supplies - access catheter
Other bowel diagnostic procedures		Other care - respiratory therapy	Procedure - related supplies - catheter
Other care - bladder / bowel care - catheter	Other care - long term care - residential care	Other diagnostic procedures (interview, evaluation, consultation)	Procedure - related supplies - dilation / stenting
Other care - bladder / bowel care - drainage bag		Other Laboratory	Procedure - related supplies - drainage
Other care - bladder / bowel care - other supplies	Other care - nutrition - counseling - dietician	Other therapeutic Sigmoidoscopy	Procedure - related supplies - implant
Other care - bladder / bowel care - other supplies - diaper /	Other care - nutrition - education	Partial Colectomy	Procedure - related supplies - other
related	Other care - nutrition - enteral	Pathology	Procedure - sedation
Other care - bladder / bowel care - other supplies - skin barrie		Peer Services	Procedure - ugi endoscopy - other
Other care - child care - foster care	Other care - nutrition - enteral - formula	Personal Care Services	Procedure - ugi endoscopy - small bowel endoscopy
Other care - chronic edema - appliance - segmental	Other care - nutrition - enteral - pump	Physical Therapy / Rehab	Procedure - vascular access - port / pump - insertion
Other care - chronic edema - surgical stockings	Other care - nutrition - enteral - tubing	Physician Services	Procedures and Reporting
Other care - diabetes care - glucose monitoring	Other care - nutrition - medical food	Physician Services - Inpatient	Prophylactic vaccinations and inoculations
Other care - diabetes care - glucose monitoring - lancet Other care - diabetes care - glucose monitoring - other	Other care - nutrition - parenteral	Physician Services - Outpatient	Prosthetics - other
supplies	Other care - nutrition - parenteral - all - inclusive	PQRI	Psychiatry Evaluations
Other care - diabetes care - insulin pump	Other care - nutrition - parenteral - nutrition solution	Preventive Medicine, Care Coordination	Psychiatry Services
Other care - home care - emergency response system	Other care - nutrition - parenteral - pump	Procedure - anesthesia	Psychological and psychiatric evaluation and therapy
Other care - home care - home health aide	Other care - observation	Procedure - anoscopy	Robotic Surgery
Other care - home care - meals	Other care - other	Procedure - central venous catheter - fluoroscopy - guidance	Routine Immunizations
Other care - home care - nursing care	Other care - other - ancillary services	Procedure - central venous catheter - insertion	Rx - administration - infusion
Other care - home care - nursing care - Ipn		Procedure - esophageal / gastric intubation	Rx - administration - injection
Other care - home care - nursing care - np	Other care - other - exercise classes	Procedure - hemorrhoid destruction / ligation	Rx - allergy - antihistamines / comb



Rx - analg/antipy/nsaids - narcotics	Rx - diagnostic rx - gastric function	Rx - respiratory - beta agonists	Therapy - behavior - other
Rx - analg/antipy/nsaids - nsaids	Rx - diagnostic rx - roentgenography	Rx - respiratory - methylxanthines	Therapy - behavior - partial hospilization
Rx - antibiotics - anti-infectives, misc	Rx - diagnostic rx, misc	Rx - respiratory - mucolytics/cold comb	Therapy - dialysis - supplies
Rx - antibiotics - cephalosporins	Rx - diuretics - diuretic, carb anhydrase inhib	Rx - respiratory - phenylephrine	Therapy - habilitation
Rx - antibiotics - chloramphenicol / comb	Rx - diuretics, loop diuretics	Rx - serums, toxoids, vaccines - serums	Therapy - neurostimulator - nausea / vomiting
Rx - antibiotics - macrolides	Rx - diuretics, osmotic	Rx - serums, toxoids, vaccines - toxins	Therapy - neurostimulator - tens - leads
Rx - antibiotics - penicillins	Rx - diuretics, thiazides / related	Rx - skin / mucous membrane - antiinflam s/mm agnts /	Therapy - nonoperative removal of foreign body
Rx - antibiotics - quinolones	Rx - electrolytic, caloric, water - calcium supplements	comb nec	Therapy - other
Rx - antibiotics - sulfonamides / comb	Rx - electrolytic, caloric, water - caloric rx dextrose / rel	Rx - skin / mucous membrane - s/mm miscellaneous	
Rx - antibiotics - tetracyclines	Rx - electrolytic, caloric, water - caloric rx, amino acid prep	Rx - vitamins - multivit prep	Therapy - phlebotomy
Rx - antibiotics / antivirals / antifungals - infusion	Rx - electrolytic, caloric, water - hydration - unspecfied	Rx - vitamins - vitamin b / b complex	Therapy - pt - exercises / activities
Rx - antibiotics, misc	Rx - electrolytic, caloric, water - multi-mineral prep	Rx - vitamins - vitamin d	Therapy - pt - modalities
Rx - antidiabetic rx - insulins	Rx - electrolytic, caloric, water - potassium supp	Screen for amino acid disorders	Therapy - rehabilitation - other
Rx - antidiabetic rx, misc	Rx - electrolytic, caloric, water - replacement preparations,	Sigmoidoscopy	Therapy - transfusion - blood
Rx - antifungals	misc	Sigmoidoscopy w biopsy, polypectomy	Therapy - transfusion - granulocytes
Rx - autonomic rx - sympathomimetic rx	Rx - electrolytic, caloric, water - sodium chlor preps	Smoking / Tobacco Cessation	Therapy - transfusion - plasma
Rx - b-lactam antibiotics	Rx - endocrine - other - parathyroid hormones	Supplies	Therapy - transfusion - platelets
Rx - blood derivatives	Rx - gi - antichol/antispasmodics	Tests - allergy tests - intradermal	Therapy - vaccination - chicken pox
Rx - cardiovascular system - beta blockers	Rx - gi - antiemetics	Tests - allergy tests - other	Therapy - vaccination - dtp / related
Rx - cardiovascular system - cardiac glycosides	Rx - gi - h2 antagonists	Tests - allergy tests - patch	Therapy - vaccination - hepatitis a vaccine
Rx - cardiovascular system - natriuretic peptides	Rx - gi - ppis	Tests - allergy tests - percutaneous	Therapy - vaccination - hepatitis b
Rx - cardiovascular system - vasodilating agents, nec	Rx - gi drug misc,nec	Tests - cardiac - ecg - ecg - 12 lead	Therapy - vaccination - hib vaccine
Rx - cardiovascular system - vasodilating rx	Rx - gu - other - bladder rx	Tests - cardiac - radiopharmaceuticals	
Rx - central nervous system - amphetamines	Rx - hematopoietic system - hematopoietic growth factors	•	Therapy - vaccination - mmr / related
Rx - central nervous system - antidepressants	Rx - hematopoietic system - iron / related	Tests - ent - swallowing evaluation	Therapy - vaccination - other vaccine
Rx - central nervous system -	Rx - hematopoietic system - other	Tests - gi - duodeneal motility study	Therapy - vaccination - poliovirus vaccine
anxiolytic/sedative/hypnot nec	Rx - immune system - interferons	Tests - gi - esophageal balloon distension test	Therapy - vaccination - vaccine administration
Rx - central nervous system - barbiturates	Rx - miscellaneous rx	Tests - gi - gastric motility study	Thyroid Function Tests
Rx - central nervous system - benzodiazepines	Rx - miscellaneous rx - anesthetics, local	Tests - gi - other dx	Transportation - other transportation
Rx - central nervous system - non-amphetamine stimulants	Rx - miscellaneous rx - enzymes	Tests - neuro - sleep studies	Transportation - paramedic
Rx - central nervous system - trang/antipsychotics	Rx - miscellaneous rx - heavy metal antagonists	Tests - pulmonary - other	Ungrouped Codes
Rx - coagulation system - anticoagulants	Rx - muscle relaxants - muscle relax, neuromusc block	Tests - pulmonary - peak flow	Upper GI endoscopy
Rx - coagulation system - antiheparin agnt	Rx - muscle relaxants - muscle relax, neuronnuse pieck	Therapy - accupuncture	Urine Protein
Rx - coagulation system - antiplatelet rx	Rx - muscle relaxants - muscle relax, skeletal, misc	Therapy - activity therapy	Vaccine for flu or Pneumonia
Rx - coagulation system - hemostatics	Rx - other	Therapy - allergy treatment	Vitamin K administration
Rx - coagulation system - thrombolytic rx	Rx - pharmacy fee	Therapy - behavior - evaluation and therapy	Wellness Assessment
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Relevant Diagnoses – ICD-10

Allergic, Dietetic, Eosinophilic Gastroenteritis	Diverticulitis, colitis	Neoplsm - screening - small intestine
Angiodysplasia of intestine	Diverticulosis, Meckel's diverticulum,	Neuroendocrine, Myeloproliferative Cancers
Benign Carcinoid Tumor of the GI tract	Angiodyspalsia	Nonspecific Gastroenteritis
Cancer in situ, Anorectal	Gastroenteritis	Personal history of cancer
Cancer in situ, Colon	GI - family hx of GI disease GI - flatulence / gas pain	
Cancer of colon	GI - personal hx of GI disease	Personal history of GI cancer
Cancer of other GI organs; peritoneum	GI Bleed	Post GI Surgery Syndromes
Cancer of rectum and anus	Hx of colon polyps, family Hx of colon cancer	Premalignancy anus/rectum
Cancer; other and unspecified primary	Intestinal Malabsorption, Celiac Disease	Previous bowel surgery, ostomy status
Congenital GI Problems in NB	Intestinal Obstruction	Pseudopolyposis of colon
Crohn's Disease	Iron deficiency and other anemias	Secondary malignancies, Unspecified
Crohn's Disease w Abscess	Irritable Bowel and other functional GI disor	Thyroid Cancer
Crohn's Disease w Fistula	Metastatic Cancer and Acute Leukemia	Toxic Effects of Radiation
Crohn's disease w intestinal obstruction	Neoplasms of unspecified nature or uncertain	Toxic Gastroenteritis
Crohn's disease w other complications	behavior Neoplsm - gi - premalignant - anus / rectum	Ulc Colitis w Abscess
Crohn's disease w rectal bleeding	Neoplsm - hemangioma - gi - nos	
Digestive congenital anomalies	Neoplsm - lipoma - gi - nos	Ulc Colitis w Fistula
Digestive system complications	Neoplsm - screening - colon - nos	Ulc Colitis w Obstruction
Disseminated Metastatic Cancer	Neoplsm - screening - gi - nos	Ulcerative Colitis
Diverticulitis w Perf, Abscess	Neoplsm - screening - nos	Ulcerative colitis w other complications
Diverticulitis with hemorrhage	Neoplsm - screening - rectum	Ulcerative colitis w rectal bleeding



Complications – ICD-10

Acute cor pulmonale Acute Kidney Failure Adverse effects of drugs Altered mental status **Aspiration Pneumonia** Atrial Flutter / Fibrillation Bacteremia, SIRS, no organ dysfunction **C-Difficile Infection Chronic Fungal and Other Pneumonias Complications from Central Line** Complications of anesthesia Complications of colostomy, enterostomy complications of medical care complications of surgical procedures Complications of surgical procedures or medical care **Debilitating Viral Pneumonia** Dehydration Delirium, Encephalopathy Dermatitis, Urticaria dic, coagulation, hemorrhagic disorders Digestive system complications empyema, lung abscess Fluid Electrolyte Acid Base Problems Foreign body left during procedure Gram Negative Pneumonia

HAC 02: Air Embolism Hemoperitoneum Hemorrhage Hemorrhagic Stroke Hypertensive Urgency Hypotension / Syncope Influenza with Pneumonia IVC & other intra-abd venous thrombosis Meningitis / Encephalitis **MRSA** Pneumonia MRSA, Drug Resistant Infections **Opportunistic Infections** Other bacterial infections Other Bacterial Pneumonia Other cardiac arrhythmias Other lower respiratory disease other lung complications Other lung problems Other Phlebitis, Lymphangitis, varices Other Staph Pneumonia Perforation, Peritonitis, Abd Abscess Phlebitis, Deep vein thrombosis (DVT) **Pulmonary Embolism** Recent AMI Resp Failure following trauma / surgery **Respiratory Failure Respiratory Insufficiency**

Retroperitoneal Abscess Sepsis Severe Sepsis Shock / Cardiac Arrest Shock during or post-procedure Sinus Node Dysfunction STEMI Subendocardial Infarct Supraventricular Tachyarrhythmias Thromboembolic Stroke Transfusion, Infusion related complications Transient cerebral ischemia, TIA **Urethral Stricture Urinary Complications Urinary Tract Infection** Ventilator Associated Pnuemonia Ventilator Dependence Ventricular Arrhythmias Viral Pneumonia Wound Dehiscence Wound Infections



Colorectal Resection (COLON)

The COLON Episode evaluates services that are typical/routine for the expected care and services that are related to associated complications. Patients are identified as those with a primary procedure code of colon resection on an inpatient stay service or a colon resection procedure code in any position on an outpatient facility/professional service, along with a qualifying diagnosis code.



Episode Length – COLON



Episode Triggers – COLON

Trigger Group Name	Code Type	Codes
Abdominoperineal Resection	CPT	45110-45119
Colectomy with proctectomy	CPT	44155-44158
Laparoscopic colectomy with proctectomy	CPT	44211-44212, 45395, 45397
Laparoscopic partial colectomy	CPT	44204-44208
Laparoscopic total intra-abd colectomy	CPT	44210
Partial Colectomy	CPT	44140-44160
Pelvic Exenteration	CPT	45126
Procedure - colorectal resection – other	CPT	45160
Procedure - other anal / rectal procedures - other procedures - rectum / anus	CPT	45170-45172
Rectal Resection	CPT	45111-45123
Total intra-Abdominal colectomy	CPT	44150-44151



Trigger Diagnoses – ICD-10, CPT

Abdominal mass	Diverticulitis with hemorrhage	Nonspecific Gastroenteritis	
Abdominal pain	Diverticulitis, colitis	Partial Colectomy	
Abdominal tenderness	Diverticulosis, Meckel's diverticulum, Angiodyspalsia	Pelvic Exenteration	
Abdominoperineal Resection	Gastroenteritis	Perforation, Peritonitis, Abd Abscess	
Allergic, Dietetic, Eosinophilic Gastroenteritis	GI - abdominal mass	Personal history of cancer	
Anal and rectal conditions	GI - abdominal pain	Personal history of GI cancer	
Angiodysplasia of intestine	GI - abdominal tenderness	Previous bowel surgery, ostomy status	
Cancer in situ, Anorectal	GI - abnormal abdominal imaging study	Procedure - colorectal resection - other	
Cancer in situ, Colon	GI - abnormal gi imaging study	Procedure - other anal / rectal procedures - other procedures - rectum /	
Cancer of colon	GI - constipation	anus	
Cancer of other GI organs; peritoneum	GI - peritoneal ds - nec / nos	Pseudopolyposis of colon	
Cancer of rectum and anus	GI - symptoms - nec / nos	Rectal Resection	
Cancer small bowel	GI Bleed	Retroperitoneal Abscess	
Cancer; other and unspecified primary	GI inflammation from chemotherapy	Secondary malignancies, Unspecified	
Colectomy with proctectomy	Hemoperitoneum	Thyroid Cancer	
Congenital GI Problems in NB	Hx of colon polyps, family Hx of colon cancer	Total intra-Abdominal colectomy	
Crohn's Disease	Inj - anus / rectum - other	Toxic Effects of Radiation	
Crohn's Disease w Abscess	Inj - gi tract - foreign body	Toxic Gastroenteritis	
Crohn's Disease w Fistula	Intestinal Malabsorption, Celiac Disease	Ulc Colitis w Abscess	
Crohn's disease w intestinal obstruction	Intestinal Obstruction	Ulc Colitis w Fistula	
Crohn's disease w other complications	Irritable Bowel and other functional GI disor	Ulc Colitis w Obstruction	
Crohn's disease w rectal bleeding	Laparoscopic colectomy with proctectomy	Ulceration of Intestine	
Digestive congenital anomalies	Laparoscopic partial colectomy	Ulcerative Colitis	
Digestive system complications	Laparoscopic total intra-abd colectomy	Ulcerative colitis w other complications	
Disseminated Metastatic Cancer	Neoplasms of unspecified nature or uncertain behavior	Ulcerative colitis w other complications Ulcerative colitis w rectal bleeding	
Diverticulitis w Perf, Abscess	Neuroendocrine, Myeloproliferative Cancers	Vascular Insufficiency of intestine	



Abdominoperineal Resection	DME and supplies	Imaging - therapeutic procedure - other therapeutic	Medication Assisted Management (MAT)
Advance care planning	Drainage of Abdominal Abscess	procedure	Medication Therapy Management Services
Alcohol / Drug Use Screening	Drug Deiivery implantation	Imaging - us - guide - biopsy	Medications (Injections, infusions and other forms)
Ancillary Services	E & M - emergency care	Imaging - us - guide - other	Metabolic Renal Hepatic Chemistry Panel
Anesthesia	E & M - home visit	Imaging - us - other	Online Management
Aortic resection, replacement or anastomosis	E & M - hospital	Imaging - us - retroperitoneum	Other care - bladder / bowel care - drainage bag
Bleeding Status	E & M - nursing home	Imaging - venography - extremities	Other care - bladder / bowel care - other supplies - diaper
Blood Gases, Pulse Oximetry	E & M - other	Imaging - x-ray - abdomen	/ related
Blood transfusion	E & M - prevention	Imaging - x-ray - lower gi - large bowel - contrast	Other care - bladder / bowel care - other supplies - skin barrier
Blood Type, Coomb's test	Esophageal Motility and Diagnostic Workup	lmaging - x-ray - upper gi - duodenogram	Other care - chronic edema - surgical stockings
Bundled Payment / Medical Home	Flexible Sigmoidoscopy /Colonoscopy	Imaging - x-ray - upper gi - other	Other care - home care - physician supervision
Cardiac Stress Test	Home Health / Hospice	Imaging - x-ray - upper gi - small bowel - contrast	Other care - home care - specialized visit
	Home Health Services	Imaging Abdomen	Other care - nutrition - assessment
Care Plan Oversight	Hormone Therapy	Lab - blood gases	Other care - observation
Case Management Services	Image guided drainage of abdominal abscess	Lab - chemistry	Other care - ostomy - nursing care
Case Management Services - Behavioral	Imaging - ct - follow - up	Lab - infectious agent dna	Other care - ostomy - supplies
Case Management Services - Oncology	Imaging - ct - other	Lab - microbiology - c & s	Other care - other - ancillary services
CHEMOTHERAPY		Lab - microbiology - other	Other care - respiratory - ventillator management
Chronic Care Management		Lab - other clinical lab	Other care - wound care
Colectomy with proctectomy		Lab - pathology consultation	Other care - wound care - hyperbaric oxygen
Colon Cancer, Unknown Disease Status		Lab - specimen collection - specimen handling	Other diagnostic cardiovascular procedures
Colonoscopy - therapeutic		Lab - surgical pathology	Other diagnostic procedures (interview, evaluation,
Colonoscopy through Stoma	Imaging - nuclear - other gi	Lab - therapeutic drug assay	consultation)
Colonoscopy/Sigmoidoscopy ColorectalCa Screen	Imaging - nuclear - radiopharmaceutical -	Lab - transfusion medicine	Other Laboratory
Colorectal resection		Lab - urinalysis	Other OR lower GI therapeutic procedures
Diagnostic physical therapy	•	Laparoscopic colectomy with proctectomy	Other therapeutic Sigmoidoscopy
Diagnostic ultrasound of abdomen or retroperitoneum		Laparoscopic partial colectomy	Partial Colectomy
DME - bath / toilet aids	5 5	Laparoscopic total intra-abd colectomy	Pathology Pelvic Exenteration
DME - beds / accessories	Imaging - therapeutic procedure - abscess drainage		Personal Care Services
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Physical Therapy / Rehab	Procedure - laparoscopy - abdomen - biopsy	Procedure - proctoscopy / anoscopy - other	Rx - hematopoietic system - hematopoietic growth
Physician Services	Procedure - laparoscopy - abdomen - dx	Procedure - proctosigmoidoscopy - dx	factors
Physician Services - Inpatient	Procedure - laparoscopy - gi - other	Procedure - proctosigmoidoscopy - rx	Rx - miscellaneous rx
Physician Services - Outpatient	Procedure - laparotomy / related	Procedure - related supplies - graft / repair	Rx - miscellaneous rx - enzymes
Preventive Medicine, Care Coordination	Procedure - lymphadenectomy	Procedure - related supplies - implant	
Procedure - anesthesia	Procedure - lysis of adhesions	Procedure - repair - cystocele / rectocele	Rx - other
Procedure - anoscopy	Procedure - neuro - other non - or rx	Procedure - small bowel resection	Rx - serums, toxoids, vaccines - serums
Procedure - appendectomy / related - appendectomy	Procedure - neuro - other or rx		Smoking / Tobacco Cessation
Procedure - appendectomy / related - drainage of	Procedure - obesity procedure - restriction	Procedure - spinal canal - injection into spinal canal	Supplies
appendiceal abscess	Procedure - other anal / rectal procedures - other	Procedure - spinal canal - other	
Procedure - artery - extremity - injection of thrombin	procedures - rectum / anus	Procedure - ugi endoscopy - other	Tests - cardiac stress tests - cardiac perfusion scan - rest / exercise
Procedure - catheter - arterial - arterial line for	Procedure - other dx on musculoskeletal system		
monitoring Procedure - catheter - arterial - other	Procedure - other gi dx Procedure - other hemorrhoid procedures	Procedure - ugi endoscopy - small bowel endoscopy	Tests - cardiac stress tests - cardiac stress tests -
Procedure - catheter - arterial - other Procedure - catheter - arterial - pulmonary artery	Procedure - other lower gi procedures - closure of	Procedure - vascular access - port / pump - insertion	other
catheter	enterostomy		Tests - gi - other dx
Procedure - catheter - arterial - selective branch	Procedure - other lower gi procedures - other bowel dx	Procedure - vascular access - port / pump - removal	Therapy - accupuncture
catheter	Procedure - other lower gi procedures - other non - or	Procedure - vascular access - port / pump - revision	Therapy - dialysis - supplies
Procedure - catheter - venous - other - other	rx	Procedures and Reporting	Therapy - habilitation
Procedure - catheter - venous - other - vena cava or	Procedure - other lower gi procedures - other or rx	Psychiatry Evaluations	
selective branch catheter	Procedure - other non - or rx - other non - or skin	Psychiatry Services	Therapy - nasogastric tube
Procedure - colorectal resection - other	procedures		Therapy - nonoperative removal of foreign body
Procedure - colorectal resection - partial w / ostomy	Procedure - other or gi rx - excision of lesion -	Psychological and psychiatric evaluation and therapy	[/] Therapy - other
Procedure - colostomy	abdomen / retroperitoneum	RADIATION TREATMENTS	Therapy - phlebotomy
Procedure - debridement - wound / infection / burn -	Procedure - other or gi rx - other procedure - abdomen	Rectal Resection	Therapy - pt - exercises / activities
debridement	Procedure - other or rx - drainage / excision of pilonidal	Risk Assessment	
Procedure - gastrostomy	cyst	Robotic Surgery	Therapy - transfusion - administration
Procedure - heme / lymph - other rx	Procedure - other or rx on musculoskeletal system	Rx - administration - infusion	Therapy - transfusion - blood
Procedure - hemorrhoid destruction / ligation	Procedure - other procedures - pancreas	Rx - administration - injection	Total intra-Abdominal colectomy
Procedure - hemorrhoidectomy	Procedure - other procedures - stomach	Rx - b-lactam antibiotics	Transitional Care Management
Procedure - i&d - skin - drainage - post - op infection	Procedure - other rx on muscles and tendons		Transportation - other transportation
Procedure - ileostomy / other enterostomy	Procedure - paracentesis	Rx - coagulation system - anticoagulants	
Procedure - injection - tendons / joints / etc.	Procedure - peripheral venous catheter	Rx - coagulation system - hemostatics	Ungrouped Codes
Procedure - laminectomy / related	Procedure - proctoscopy - screening	Rx - gi - antiemetics	Urine Protein



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Relevant Diagnoses – ICD-10

Abdominal mass	Disseminated Metastatic Cancer	Irritable Bowel and other functional GI disor
Abdominal pain	Diverticulitis w Perf, Abscess	Neoplasms of unspecified nature or uncertain behavior
Abdominal tenderness	Diverticulitis with hemorrhage	Neuroendocrine, Myeloproliferative Cancers
Allergic, Dietetic, Eosinophilic Gastroenteritis	Diverticulitis, colitis	Nonspecific Gastroenteritis
Anal and rectal conditions	Diverticulosis, Meckel's diverticulum, Angiodyspalsia	Perforation, Peritonitis, Abd Abscess
Angiodysplasia of intestine	Gastroenteritis	Personal history of cancer
Cancer in situ, Anorectal	GI - abdominal mass	Personal history of GI cancer
Cancer in situ, Colon	GI - abdominal pain	Previous bowel surgery, ostomy status
Cancer of colon	GI - abdominal tenderness	Pseudopolyposis of colon
Cancer of other GI organs; peritoneum	GI - abnormal abdominal imaging study	Retroperitoneal Abscess
Cancer of rectum and anus	GI - abnormal gi imaging study	Secondary malignancies, Unspecified
Cancer small bowel	GI - constipation	Thyroid Cancer
Cancer; other and unspecified primary	GI - peritoneal ds - nec / nos	Toxic Effects of Radiation
Congenital GI Problems in NB	GI - symptoms - nec / nos	Toxic Gastroenteritis
Crohn's Disease	GI Bleed	Ulc Colitis w Abscess
Crohn's Disease w Abscess	GI inflammation from chemotherapy	Ulc Colitis w Fistula
Crohn's Disease w Fistula	Hemoperitoneum	Ulc Colitis w Obstruction
Crohn's disease w intestinal obstruction	Hx of colon polyps, family Hx of colon cancer	Ulceration of Intestine
Crohn's disease w other complications	Inj - anus / rectum - other	Ulcerative Colitis
Crohn's disease w rectal bleeding	lnj - gi tract - foreign body	Ulcerative colitis w other complications
Digestive congenital anomalies	Intestinal Malabsorption, Celiac Disease	Ulcerative colitis w rectal bleeding
Digestive system complications	Intestinal Obstruction	Vascular Insufficiency of intestine



Complications – ICD-10

Abdominal Hernia w Gangrene/Obstruction	Delirium, Encephalopathy	Marginal Ulcer	Sepsis
Abdominal Hernia w/out Gangrene/Obstruction	Dermatitis, Urticaria	Marginal Ulcer w hmg / obstr / perf	Severe Sepsis
Accidental Falls	Diabetes, poor control	MRSA Pneumonia	Shock / Cardiac Arrest
Acute cor pulmonale	dic, coagulation, hemorrhagic disorders	MRSA, Drug Resistant Infections	Shock during or following cardiac surgery
Acute esophagitis, acute gastritis, duodenitis	Digestive system complications	Opportunistic Infections	Shock during or post-procedure
Acute Kidney Failure	empyema, lung abscess	Other bacterial infections	Sinus Node Dysfunction
Adverse effects of drugs	Esophageal Reflux and Other Esophagitis	Other Bacterial Pneumonia	Skin - other
Anal and rectal conditions	Fistula GI tract	Other cardiac arrhythmias	
Aspiration Pneumonia	Fluid Electrolyte Acid Base Problems	Other cerebral complications	STEMI
Bacteremia, SIRS, no organ dysfunction	Foreign body left during procedure	Other lower respiratory disease	Subendocardial Infarct
C-Difficile Infection	Gastroenteritis	other lung complications	Supraventricular Tachyarrhythmias
Chronic Fungal and Other Pneumonias	GI Bleed	Other lung problems	Thromboembolic Stroke
Chronic Skin Ulcer	Gram Negative Pneumonia	Other Phlebitis, Lymphangitis, varices	Transfusion, Infusion related complications
Coma, persistent vegetative state	HAC 02: Air Embolism	Other Staph Pneumonia	Transient cerebral ischemia, TIA
Complication of genitourinary device	HAC 04: Stage III and IV Pressure Ulcers	Perforation, Peritonitis, Abd Abscess	Urethral Stricture
Complication of Implanted device, graft	HAC 09: Manifestations of Poor Glycemic	Perianal disease	Urinary Complications
Complications from Central Line	Control	Phlebitis, Deep vein thrombosis (DVT)	Urinary Frequency & other symptoms
Complications from chemotherapy	Hemoperitoneum	Postop adhesions	Urinary Tract Infection
Complications of anesthesia	Hemorrhage	Pulmonary Embolism	Urogenital fistula
Complications of colostomy, enterostomy	Hemorrhagic Stroke	Recent AMI	Vascular Prosthetic Device/Graft Complication
complications of medical care	Hepatorenal Syndrome	Renovascular and other secondary	Ventilator Associated Pnuemonia
complications of surgical procedures	Hypertensive Urgency	hypertension	
Complications of surgical procedures or medical	Hypotension / Syncope	Resp Failure following trauma / surgery	Ventilator Dependence
care	Influenza with Pneumonia	Respiratory Failure	Ventricular Arrhythmias
Debilitating Viral Pneumonia	Intestinal infection	Respiratory Insufficiency	Viral Pneumonia
Decubitus Ulcer	Intestinal Obstruction	Retroperitoneal Abscess	Wound Dehiscence
Dehydration	IVC & other intra-abd venous thrombosis	rhabdomyolysis	Wound Infections



Gall Bladder Surgery (GBSURG)

The GBSURG Episode evaluates services that are typical/routine for the expected care and services that are related to associated complications. Patients are identified as those with a primary procedure code of Gall Bladder Surgery on an inpatient stay service or a Gall Bladder Surgery procedure code in any position on an outpatient facility/professional service, along with a qualifying diagnosis code.



Episode Length – GBSURG



Episode Triggers – GBSURG

Trigger Group Name	Code Type	Codes
Laparoscopic Cholecystectomy	CPT	47562-47564
Open Cholecystectomy w/wout CBD expl	CPT	47600-47620



Trigger Diagnoses – ICD-10, CPT

Abdominal mass	GI - abnormal gi imaging study
Abdominal pain	GI - diarrhea
Abdominal tenderness	GI - esophagitis
Acute Cholecystitis	GI - flatulence / gas pain
Alcoholic Fatty Liver	GI - symptoms - nec / nos
Allergic, Dietetic, Eosinophilic Gastroenteritis	GI - visible peristalsis
Cancer GB, Hepatobiliary Region	Heartburn
Cholangitis, Cholelithiasis with Obstruction	Hepatitis, Cirrhosis, Other Liver Disorders
Chronic cholecystitis, other GB disease	Intestinal Malabsorption, Celiac Disease
diabetes mellitus with neurologic manifestations	Intestinal Obstruction
Diseases of GB, Biliary Tract, Pancreas	Irritable Bowel and other functional GI disor
Dyspepsia	Laparoscopic Cholecystectomy
Esophageal Reflux and Other Esophagitis	Nausea, vomiting
Gall Bladder related complications	Open Cholecystectomy w/wout CBD expl
Gastroenteritis	Other abn of GB, pancreas, liver
Gastroperesis	Other bacterial infections
GI - abnormal abdominal imaging study	Other disorders of stomach and duodenum
GI - abnormal bowel sounds	Pancreatic Disease
GI - abnormal feces	Perforation, Peritonitis, Abd Abscess



Advance care planning	E & M - nursing home	Imaging - other imaging	Lab - microbiology - other
Alcohol / Drug Use Management	E & M - other	Imaging - other imaging - fluoroscopy	Lab - microbiology - viral culture
Alcohol / Drug Use Screening	E & M - prevention	Imaging - other imaging - fluoroscopy - guidance	Lab - microscopic - koh prep
Ancillary Services	Endoscopic retrograde cannulation of pancreas (ERCP)	Imaging - supplies - contrast agent - high osmolar	Lab - microscopic - wet mount
Anesthesia	Esophageal Motility and Diagnostic Workup	Imaging - supplies - contrast agent - low osmolar	Lab - other clinical lab
Aortic resection, replacement or anastomosis	HbA1C	Imaging - supplies - ultrasound related	Lab - other hematology
Bleeding Status	Hepatitis B vaccine	Imaging - therapeutic procedure - abscess drainage	Lab - pathology consultation
Blood Count	High dose steroids	Imaging - therapeutic procedure - other therapeutic procedure	Lab - specimen collection - blood - venous - venipuncture
Blood Gases, Pulse Oximetry	Home Health / Hospice	Imaging - us - guide - biopsy	Lab - specimen collection - specimen handling
Blood transfusion	Home Health Services	Imaging - us - guide - other	Lab - specimen collection - urine
Blood Type, Coomb's test	Hormone Therapy	Imaging - us - intravascular	Lab - stat request
Bundled Payment / Medical Home	HPV VACCINE	Imaging - us - other	Lab - surgical pathology
Cardiac Stress Test	Image guided drainage of abdominal abscess	Imaging - us - retroperitoneum	Lab - therapeutic drug assay
Care Plan Oversight	Imaging - arteriography - other	Imaging - venography - other	Lab - transfusion medicine
Case Management Services	Imaging - ct - cardiac	Imaging - x-ray - abdomen	Lab - urinalysis
CHEMOTHERAPY	Imaging - ct - follow - up	Imaging - x-ray - biliary tract - cholangiogram - intraoperative	Laboratory - Chemistry and Hematology
CHLAMYDIA SCREENING	Imaging - ct - guidance	Imaging - x-ray - biliary tract - other	Laparoscopic Cholecystectomy
Chronic Care Management	Imaging - ct - other	Imaging - x-ray - lower gi - large bowel - contrast	LEAD SCREENING
Colonoscopy/Sigmoidoscopy ColorectalCa Screen	Imaging - cta - other	Imaging - x-ray - other - joint survey	Lipid Level Monitoring
Coordinated Care Fees/Services	Imaging - lymphangiography	Imaging - x-ray - upper gi - duodenogram	Low dose steroids
Counseling Services	Imaging - mra - chest	Imaging - x-ray - upper gi - esophagus - contrast	Lung Function Tests
Diagnostic physical therapy	Imaging - mri - chest	Imaging - x-ray - upper gi - other	Markers for Inflammation
Diagnostic ultrasound of abdomen or retroperitoneum	Imaging - mri - contrast agent	Imaging - x-ray - upper gi - small bowel - contrast	Medication Assisted Management (MAT)
DME - bath / toilet aids	Imaging - mri - guidance	Imaging Abdomen	Medication Therapy Management Services
DME - beds / accessories	Imaging - mri - other	Lab - blood gases	Medications (Injections, infusions and other forms)
DME - heat/cold application	Imaging - nuclear - bladder / ureter	Lab - chemistry	Metabolic Renal Hepatic Chemistry Panel
DME - mobility aids	Imaging - nuclear - gi blood loss	Lab - chemistry and toxicology tests	NewBorn Blood Tests
DME - other	Imaging - nuclear - hepatobiliary ductal scan	Lab - cytology	Online Management
DME - patient lifts	Imaging - nuclear - hepatobiliary ductal scan - radiopharmaceutical	Lab - endocrine	Open Cholecystectomy w/wout CBD expl
DME - rehabilitation	Imaging - nuclear - liver	Lab - endocrine response test	Opioid Administration / Dispensing (OTP)
DME - repair / maintenance	Imaging - nuclear - localization of inflammation	Lab - gi - fat absorption	Other - non - covered
DME - safety equipment	Imaging - nuclear - lung scan	Lab - hematology - blood count	Other care - bladder / bowel care - catheter
DME - whirlpool - equipment	Imaging - nuclear - lymphatics	Lab - hematology - blood count - eosinophil count	Other care - bladder / bowel care - drainage bag
DME - wound therapy	Imaging - nuclear - other	Lab - hematology - coagulation	Other care - bladder / bowel care - other supplies
DME and supplies	Imaging - nuclear - other - automated data add - on	Lab - immunology	Other care - bladder / bowel care - other supplies - diaper / related
Drainage of Abdominal Abscess	Imaging - nuclear - other gi	Lab - infectious agent antibody	Other care - bladder / bower care - other supplies - diaper / related
Drug Deiivery implantation	Imaging publicar radiopharmacoutical radiopharmacoutical atter	о́,	Other care - chronic edema - appliance - segmental
E & M - consultation	Imaging - nuclear - radiopharmaceutical - radiopharmaceutical - other	Lab - infectious agent dna	Other care - chronic edema - appliance - segmental
	Imaging - nuclear - shilling test	· · · · · · · · · · · · · · · · · · ·	· ·
E & M - emergency care	Imaging - nuclear - shilling test - radiopharmaceutical	Lab - microbiology	Other care - diabetes care - glucose monitoring
E & M - home visit	Imaging - nuclear - venous thrombosis - radiopharmaceutical	Lab - microbiology - c & s	Other care - diabetes care - glucose monitoring - lancet
E & M - hospital	Imaging - nuclear - venous thrombosis - scan	Lab - microbiology - microscopic exam	Other care - diabetes care - glucose monitoring - other supplies



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Other care - diabetes care - insulin pump Other care - home care - emergency response system Other care - home care - home health aide Other care - home care - meals Other care - home care - nursing care Other care - home care - nursing care - Ipn Other care - home care - nursing care - np Other care - home care - nursing care - rn Other care - home care - other care Other care - home care - other care - attendant care Other care - home care - other care - chore care Other care - home care - other care - companion care Other care - home care - other care - day care Other care - home care - other care - homemaker Other care - home care - other care - respite care Other care - home care - physician supervision Other care - home care - rehabilitation - occupational therapy Other care - home care - rehabilitation - physical therapy Other care - home care - rehabilitation - speech therapy Other care - home care - social worker Other care - home care - specialized visit Other care - home care - training Other care - hospice Other care - long term care - assisted living Other care - long term care - residential care Other care - nutrition - assessment Other care - nutrition - counseling - dietician Other care - nutrition - education Other care - nutrition - enteral Other care - nutrition - enteral - administration Other care - nutrition - enteral - formula Other care - nutrition - enteral - pump Other care - nutrition - enteral - tubing Other care - nutrition - medical food Other care - nutrition - parenteral Other care - nutrition - parenteral - all - inclusive Other care - nutrition - parenteral - nutrition solution Other care - nutrition - parenteral - pump Other care - observation Other care - other Other care - other - ancillary services

Other care - other - education Other care - other - exercise classes Other care - other - infection control Other care - other - irrigation Other care - other - lead assessment Other care - other - lightbox Other care - other - lodging Other care - other - meals Other care - other - medical records Other care - other - weight management Other care - pain management - pca / related Other care - prevention - smoking cessation Other care - respiratory - equipment / supplies Other care - respiratory - equipment / supplies - apnea monitor Other care - respiratory - equipment / supplies - nebulizer Other care - respiratory - equipment / supplies - peak flow meter Other care - respiratory - equipment / supplies - spirometer Other care - respiratory - other Other care - respiratory - oxygen / oxygen concentrator Other care - respiratory - ventillator management Other care - respiratory therapy Other care - wound care Other care - wound care - electromagnetic therapy Other care - wound care - growth factor Other care - wound care - hyperbaric oxygen Other diagnostic cardiovascular procedures Other diagnostic procedures (interview, evaluation, consultation) Other diagnostic radiology and related techniques Other gastrointestinal diagnostic procedures Other Laboratory Other non-OR gastrointestinal therapeutic procedures Other OR gastrointestinal therapeutic procedures Other OR upper GI therapeutic procedures Peer Services Personal Care Services Physical Therapy / Rehab **Physician Services Physician Services - Inpatient** Physician Services - Outpatient PORI Preventive Medicine, Care Coordination

Procedure - anesthesia Procedure - artery - nos - angioplasty / stenting Procedure - artery - nos - thrombolysis Procedure - artery / vein - nos - other Procedure - artery / vein - nos - thrombectomy catheter Procedure - biopsy - liver - needle biopsy of liver Procedure - biopsy - liver - wedge biopsy of liver Procedure - central venous catheter - fluoroscopy - guidance Procedure - central venous catheter - insertion Procedure - central venous catheter - repair / maintenance Procedure - colostomy Procedure - debridement - wound / infection / burn - debridement Procedure - debridement of nails Procedure - drainage pancreatic cvst / pseudocvst Procedure - ercp - dx Procedure - ercp - other rx Procedure - ercp - radiology component Procedure - ercp w / sphinterotomy or dilation Procedure - ercp w / stent Procedure - ercp w / stone removal / destruction Procedure - esophageal / gastric intubation Procedure - eswl - biliary tract Procedure - gastrostomy Procedure - graft - skin - graft material Procedure - au - other non - or rx Procedure - heme / lymph - other rx Procedure - i&d - skin - drainage - post - op infection Procedure - ileostomy / other enterostomy Procedure - injection - tendons / joints / etc. Procedure - laparoscopy - abdomen - biopsy Procedure - laparoscopy - abdomen - dx Procedure - laparoscopy - gi - other Procedure - laparotomy / related Procedure - lysis of adhesions Procedure - obesity procedure - restriction Procedure - other anal / rectal procedures - other procedures - rectum / anus Procedure - other dx on musculoskeletal system Procedure - other gi dx Procedure - other lower gi procedures - closure of enterostomy Procedure - other lower gi procedures - other bowel dx

Procedure - other lower gi procedures - other non - or rx

Procedure - other lower ai procedures - other or rx Procedure - other non - or rx - other non - or skin procedures Procedure - other or gi rx - other procedure - abdomen Procedure - other procedures - biliary tract Procedure - other procedures - pancreas Procedure - other procedures - stomach Procedure - pancreas - biopsy Procedure - pancreatectomy Procedure - paracentesis Procedure - related supplies - ablation - catheter Procedure - related supplies - access catheter Procedure - related supplies - catheter Procedure - related supplies - drainage Procedure - related supplies - graft - tendon repair Procedure - related supplies - graft / repair Procedure - related supplies - implant Procedure - related supplies - other Procedure - sedation Procedure - small bowel resection Procedure - spinal canal - catheter Procedure - suture - skin - repair of superficial wound Procedure - ugi endoscopy - other Procedure - vascular - occlusion / embolization - transcatheter Procedure - vascular - related supplies - occlusion catheter Procedure - vascular access - port / pump - insertion Procedure - vein - nos - angioplasty Procedure - vein - vena cava - filte Procedures and Reporting Prophylactic vaccinations and inoculations **Psychiatry Evaluations** Psychiatry Services Psychological and psychiatric evaluation and therapy **Risk Assessment** Robotic Surgery Routine Immunizations Rx - administration - infusion Rx - administration - injection Rx - allergy - antihistamines / comb Rx - analg/antipy/nsaids - narcotics Rx - analg/antipy/nsaids - nsaids Rx - antibiotics - aminoglycosides



Rx - antibiotics - anti-infectives, misc	Rx - diuretics, loop diuretics	Rx - vitamins - vitamin b / b complex	Therapy - neurostimulator - incontinence
Rx - antibiotics - cephalosporins	Rx - diuretics, osmotic	Rx - vitamins - vitamin d	Therapy - neurostimulator - nausea / vomiting
Rx - antibiotics - chloramphenicol / comb	Rx - diuretics, thiazides / related	Screen for amino acid disorders	
Rx - antibiotics - macrolides	Rx - eent - topical - eye/ear/nose/throat misc	Smoking / Tobacco Cessation	Therapy - neurostimulator - other
Rx - antibiotics - penicillins	Rx - electrolytic, caloric, water - calcium supplements	Supplies	Therapy - neurostimulator - tens - device
Rx - antibiotics - quinolones	Rx - electrolytic, caloric, water - caloric rx dextrose / rel	Tests - allergy tests - intradermal	Therapy - neurostimulator - tens - leads
Rx - antibiotics - sulfonamides / comb	Rx - electrolytic, caloric, water - caloric rx, amino acid prep	Tests - allergy tests - other	
Rx - antibiotics - tetracyclines	Rx - electrolytic, caloric, water - hydration - unspecfied	Tests - allergy tests - patch	Therapy - neurostimulator - tens - supplies
Rx - antibiotics / antivirals / antifungals - infusion Rx - antibiotics. misc	Rx - electrolytic, caloric, water - multi-mineral prep		Therapy - other
Rx - antidiotics, misc Rx - antidiabetic rx - insulins	Rx - electrolytic, caloric, water - potassium supp	Tests - allergy tests - percutaneous	Therapy - phlebotomy
Rx - antidiabetic rx - insuins Rx - antidiabetic rx, misc	Rx - electrolytic, caloric, water - replacement preparations, misc Rx - electrolytic, caloric, water - sodium chlor preps	Tests - cardiac - echo - contrast agent	
Rx - antifungals	Rx - gi - antichol/antispasmodics	Tests - cardiac - radiopharmaceuticals	Therapy - pt - exercises / activities
Rx - antivirals	Rx - gi - antiemetics	Tests - cardiac stress tests - cardiac perfusion scan - rest /	Therapy - pt - modalities
Rx - autonomic rx - parasympathomimetics	Rx - gi - h2 antagonists		Therapy - rehabilitation
Rx - autonomic rx - sympathomimetic rx	Rx - qi - ppis	Tests - cardiac stress tests - cardiac stress tests - other	Therapy - rehabilitation - other
Rx - b-lactam antibiotics	Rx - gi drug misc,nec	Tests - cardiovascular - other	
Rx - blood derivatives	Rx - gu - other - bladder rx	Tests - ent - other dx	Therapy - transfusion - blood
Rx - cardiovascular system - antiarrhythmic rx	Rx - hematopoietic system - hematopoietic growth factors	Tests - ent - swallowing evaluation	Therapy - transfusion - granulocytes
Rx - cardiovascular system - beta blockers	Rx - hematopoietic system - iron / related	Tests - gi - duodeneal motility study	Therapy - transfusion - plasma
Rx - cardiovascular system - cardiac drugs	Rx - hematopoietic system - other	Tests - gi - esophageal balloon distension test	17 1
Rx - cardiovascular system - cardiac glycosides	Rx - immune system - interferons	Tests - gi - gastric motility study	Therapy - transfusion - platelets
Rx - cardiovascular system - hypotensive rx	Rx - miscellaneous rx	Tests - gi - other dx	Therapy - vaccination - hepatitis a vaccine
Rx - cardiovascular system - natriuretic peptides	Rx - miscellaneous rx - anesthetics, local	Tests - neuro - sleep studies	Therapy - vaccination - hepatitis b
Rx - cardiovascular system - vasodilating agents, nec	Rx - miscellaneous rx - enzymes	Tests - pulmonary - other	
Rx - cardiovascular system - vasodilating rx	Rx - miscellaneous rx - heavy metal antagonists	Tests - pulmonary - peak flow	Therapy - vaccination - other vaccine
Rx - central nervous system - antidepressants	Rx - muscle relaxants - muscle relax, neuromusc block	Tests - vascular - other	Therapy - vaccination - vaccine administration
Rx - central nervous system - anxiolytic/sedative/hypnot nec	Rx - muscle relaxants - muscle relax, skeletal central	Tests - vascular - venous	Thyroid Function Tests
Rx - central nervous system - barbiturates	Rx - muscle relaxants - muscle relax, skeletal, misc	Therapy - accupuncture	Transitional Care Management
Rx - central nervous system - benzodiazepines	Rx - other	Therapy - activity therapy	0
Rx - central nervous system - tranq/antipsychotics	Rx - other anti-infectives - antimalarials		Transportation - other transportation
Rx - coagulation system - anticoagulants Rx - coagulation system - antiheparin agnt	Rx - pharmacy fee Rx - respiratory - beta agonists	Therapy - apheresis	Transportation - paramedic
Rx - coagulation system - antiplatelet rx	Rx - respiratory - beta agoinsts Rx - respiratory - methylxanthines	Therapy - behavior - evaluation and therapy	Ungrouped Codes
Rx - coagulation system - hemostatics	Rx - respiratory - mucolytics/cold comb	Therapy - behavior - other	5 1
Rx - coagulation system - thrombolytic rx	Rx - respiratory - phenylephrine	Therapy - behavior - partial hospilization	Upper GI endoscopy
Rx - diagnostic rx - gastric function	Rx - serums, toxoids, vaccines - serums	Therapy - biofeedback	Urine Protein
Rx - diagnostic rx - roentgenography	Rx - serums, toxoids, vaccines - toxins	Therapy - dialysis - supplies	Vaccine for flu or Pneumonia
Rx - diagnostic rx - thyroid function	Rx - skin / mucous membrane - antiinflam s/mm agnts / comb nec	Therapy - habilitation	
Rx - diagnostic rx, misc	Rx - skin / mucous membrane - s/mm miscellaneous	Therapy - hyperbaric oxygen	Vitamin K administration
Rx - diuretics - diuretic, carb anhydrase inhib	Rx - vitamins - multivit prep	Therapy - nasogastric tube	Wellness Assessment



Relevant Diagnoses – ICD-10

Abdominal massGI - abnormal fecesAbdominal painGI - abnormal gi imaging studyAbdominal tendernessGI - diarrheaAcute CholecystitisGI - esophagitisAlcoholic Fatty LiverGI - flatulence / gas painAllergic, Dietetic, Eosinophilic GastroenteritisGI - symptoms - nec / nosCancer GB, Hepatobiliary RegionGI - visible peristalsisCholangitis, Cholelithiasis with ObstructionHeartburnChronic cholecystitis, other GB diseaseHepatitis, Cirrhosis, Other Liver Disordersdiabetes mellitus with neurologic manifestationsIntestinal Malabsorption, Celiac DiseaseDiseases of GB, Biliary Tract, PancreasIntestinal ObstructionEsophageal Reflux and Other EsophagitisNausea, vomitingGall Bladder related complicationsOther abn of GB, pancreas, liverGastroenteritisOther pacterial infectionsGastroperesisOther disorders of stomach and duodenum
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Gall Bladder related complicationsOther abn of GB, pancreas, liverGastroenteritisOther bacterial infections
Gastroenteritis Other bacterial infections
Gastroperesis Other disorders of stomach and duodenum
GI - abnormal abdominal imaging study Pancreatic Disease
GI - abnormal bowel sounds Perforation, Peritonitis, Abd Abscess





Complications – ICD-10

Abdeminal Harnie w Congrane/Obstruction	Desubitus I llear		
Abdominal Hernia w Gangrene/Obstruction	Decubitus Ulcer	Intestinal Obstruction	Severe Sepsis
Abdominal Hernia w/out Gangrene/Obstruction	Dehydration	IVC & other intra-abd venous thrombosis	Shock / Cardiac Arrest
Accidental Falls	Delirium, Encephalopathy	Malfunction / Complication of Heart Device	Shock during or following cardiac surgery
Acute CHF / pulm edema	Dermatitis, Urticaria	Meningitis / Encephalitis	Shock during or post-procedure
Acute cor pulmonale	Diabetes, poor control	MRSA Pneumonia	
Acute esophagitis, acute gastritis, duodenitis	dic, coagulation, hemorrhagic disorders	MRSA, Drug Resistant Infections	Skin - other
Acute Kidney Failure	Digestive system complications	Opportunistic Infections	STEMI
Acute Pancreatitis, pseudo cyst	empyema, lung abscess	Other bacterial infections	Subendocardial Infarct
Adverse effects of drugs	Fluid Electrolyte Acid Base Problems	Other Bacterial Pneumonia	Suicide or Self-inflicted Injury
Altered mental status	Foreign body left during procedure	Other cardiac arrhythmias	Supraventricular Tachyarrhythmias
Aspiration Pneumonia	Gall Bladder related complications	Other lower respiratory disease	Thromboembolic Stroke
Atrial Flutter / Fibrillation	Gastroenteritis	other lung complications	
Bacteremia, SIRS, no organ dysfunction	GERD, Hiatal Hernia, Other Upper GI Disorders	Other lung problems	Transfusion, Infusion related complications
C-Difficile Infection	GI Bleed	Other Mental Disorders	Transient cerebral ischemia, TIA
Chronic Fungal and Other Pneumonias	Gram Negative Pneumonia	Other Phlebitis, Lymphangitis, varices	Urethral Stricture
Chronic Skin Ulcer	HAC 02: Air Embolism	Other Staph Pneumonia	Urinary Complications
Complication of genitourinary device	HAC 04: Stage III and IV Pressure Ulcers	Perforation, Peritonitis, Abd Abscess	Urinary Frequency & other symptoms
Complication of Implanted device, graft	HAC 09: Manifestations of Poor Glycemic Control		Urinary Tract Infection
Complications from Central Line Complications from chemotherapy	Hemoperitoneum	Postop adhesions	Vascular Insufficiency of intestine
Complications of anesthesia	Hemorrhage	Pulmonary Embolism	Ventilator Associated Pnuemonia
Complications of colostomy, enterostomy	Hemorrhagic Stroke	Recent AMI	
complications of medical care	Hepatorenal Syndrome	Resp Failure following trauma / surgery	Ventilator Dependence
	Hypertensive Urgency	Respiratory Failure	Ventricular Arrhythmias
complications of surgical procedures	Hypotension / Syncope		Viral Pneumonia
Complications of surgical procedures or medical	Influenza with Pneumonia	Respiratory Insufficiency	Wound Dehiscence
care Debilitating Viral Pneumonia	Intestinal infection	Retroperitoneal Abscess	Wound Infections
		Sepsis	



Upper GI Endoscopy (EGD)

The EGD Episode evaluates services that are typical/routine for the expected care and services that are related to associated complications. Patients are identified as those with a procedure code of endoscopy in any position on an outpatient facility/professional service, along with a qualifying diagnosis code. Upper GI Endoscopy is associated to Gall Bladder Surgery as typical when it occurs up to 30 days prior to the procedural episodes.



Episode Length – EGD



Episode Triggers – EGD

Trigger Group Name	Code Type	Codes
Barrett's ablation	CPT	43228, 43257
EGD w biopsy	CPT	43238-43242
EGD w Dilation	CPT	43233-43248
Esophagoscopy w additional procedures	CPT	43201-43229
Esophagoscopy w Dilatation	CPT	43213-43249
Esophagoscopy w treatment of varices	CPT	43204-43244
Flexible Esophagoscopy	CPT	43200-43232
Flexible Esophagoscopy w biopsy	CPT	43202
Upper GI endoscopy	CPT	43234-43252
Upper GI endoscopy w additional procedures	CPT	43236-43270



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Trigger Diagnoses – ICD-10, CPT

Abdominal Hernia w/out Gangrene/Obstruction	Congenital GI Problems in NB	Gastroperesis	Neoplsm - benign neoplsm - small intestine
Abdominal mass (Crohn's Disease w Fistula	GERD, Hiatal Hernia, Other Upper GI Disorders	Neoplsm - benign neoplsm - stomach
Abdominal pain d	diabetes mellitus with neurologic manifestations	GI - abnormal abdominal imaging study	Neuroendocrine, Myeloproliferative Cancers
Abdominal tenderness	Diaphragmatic Hernia	GI - abnormal bowel sounds	Nonspecific Gastroenteritis
Abnormal weight loss	Digestive congenital anomalies	GI - abnormal gi imaging study	Observation/Examination
Achalasia, Esophageal Spasm, Stricture, Dysphagia	Digestive system complications	GI - diarrhea	Opportunistic Infections
A sector sector be added as a sector sector because the fitter sector sector sector.	Disseminated Metastatic Cancer	GI - esophagitis	Other abn of GB, pancreas, liver
Acute Gastroduodenal Ulcer	Diverticulitis, colitis	GI - flatulence / gas pain	Other bacterial infections
Acute Gastroduodenal Ulcer w Perforation /	Diverticulosis, Meckel's diverticulum, Angiodyspalsia	GI - personal hx of GI disease	Other disorders of stomach and duodenum
Obstruction	Dyspepsia	GI - symptoms - nec / nos	Other Esophageal conditions
Acute Peptic Ulcer with Bleed	Dysphagia	GI - visible peristalsis	Other somatoform disorders
Alconolic Gastritis	EGD w biopsy	GI Bleed	Parasitic Infections: Amebiasis, Giardiasis
Allergic, Dietetic, Eosinophilic Gastroenterius	EGD w Dilation	GI inflammation from chemotherapy	Perforation, Peritonitis, Abd Abscess
Angiodysplasia of intestine	empyema, lung abscess	Heartburn	Personal history of cancer
Aspiration Fileumonia	Esophageal Complications	Hx of colon polyps, family Hx of colon cancer	Personal history of GI cancer
	Esophageal Reflux and Other Esophagitis	Intestinal infection	Post GI Surgery Syndromes
Darrett's Esopriagus	Esophageal Varices	Intestinal Malabsorption, Celiac Disease	Previous bowel surgery, ostomy status
	Esophagoscopy w additional procedures	Intestinal Obstruction	Secondary malignancies, Unspecified
	Esophagoscopy w Dilatation	Iron deficiency and other anemias	Sxs - symptoms -other
	Esophagoscopy w treatment of varices	Irritable Bowel and other functional GI disor	Thyroid Cancer
Surfer et et gane, perteneant	Fistula GI tract	Marginal Ulcer	Toxic Effects of Radiation
	Flexible Esophagoscopy	Marginal Ulcer w hmg / obstr / perf	Toxic Gastroenteritis
	Flexible Esophagoscopy w biopsy	Metastatic Cancer and Acute Leukemia	Ulceration of Intestine
	Gastroduodenal Ulcer	Nausea, vomiting	Upper GI endoscopy
	Gastroduodenal Ulcer w Perforation / Obstruction	Neoplasms of unspecified nature or uncertain behavior	Upper GI endoscopy w additional procedures
	Gastroenteritis		Vascular Insufficiency of intestine
complications of surgical procedures	Gasiloenieniis	Neoplsm - benign neoplsm - esophagus	vascular insummency of intestine



Advance care planning	DME - safety equipment
Alcohol / Drug Use Management	DME - whirlpool - equipment
Alcohol / Drug Use Screening	DME and supplies
Ancillary Services	Drug Deiivery implantation
Anesthesia	E & M - consultation
Aortic resection, replacement or anastomosis	E & M - emergency care
Azathioprine / Mercaptopurine	E & M - home visit
Barrett's ablation	E & M - hospital
Bleeding Status	E & M - nursing home
Blood Count	E & M - other
Blood Gases, Pulse Oximetry	E & M - prevention
Blood transfusion	EGD w biopsy
Blood Type, Coomb's test	EGD w Dilation
Bundled Payment / Medical Home	Esophageal Motility and Diagnostic Workup
Care Plan Oversight	Esophagoscopy w additional procedures
Case Management Services	Esophagoscopy w Dilatation
Case Management Services - Educational	Esophagoscopy w treatment of varices
CHEMOTHERAPY	Flexible Esophagoscopy
Chest X-Ray	Flexible Esophagoscopy w biopsy
CHLAMYDIA SCREENING	HbA1C
Chronic Care Management	Hepatitis B vaccine
Colonoscopy and biopsy	High dose steroids
Colonoscopy/Sigmoidoscopy ColorectalCa Screen	Home Health / Hospice
Coordinated Care Fees/Services	Home Health Services
Counseling Services	Hormone Therapy
Cyclosporin	HPV VACCINE
Diagnostic physical therapy	Imaging - ct - follow - up
Diagnostic ultrasound of abdomen or retroperitoneum	Imaging - ct - guidance
DME - bath / toilet aids	Imaging - ct - other
DME - beds / accessories	Imaging - cta - chest
DME - heat/cold application	Imaging - cta - other
DME - mobility aids	Imaging - mra - chest
DME - other	Imaging - mri - contrast agent
DME - patient lifts	Imaging - mri - guidance
DME - rehabilitation	Imaging - mri - other
DME - repair / maintenance	Imaging - nuclear - csf - radiopharmaceutical
DME - restraints	Imaging - nuclear - gi blood loss

Imaging - nuclear - hepatobiliary ductal scan -	Lab - hematology - blood count
radiopharmaceutical	Lab - hematology - blood count - eosinophil count
Imaging - nuclear - kidney - radiopharmaceutical	Lab - hematology - coagulation
Imaging - nuclear - localization of inflammation	Lab - immunology
Imaging - nuclear - lung scan	Lab - infectious agent antibody
Imaging - nuclear - lymphoma - radiolabeled antibody	Lab - infectious agent antigen
imaging - nuclear - other	Lab - infectious agent dna
imaging - nuclear - other - automated data add - on	Lab - microbiology
Imaging - nuclear - other gi Imaging - nuclear - radiopharmaceutical - radiopharmaceutical -	Lab - microbiology - c & s
other	Lab - microbiology - microscopic exam
Imaging - nuclear - thyroid - radiopharmaceutical	Lab - microbiology - other
	Lab - microbiology - viral culture
	Lab - microscopic - koh prep
Imaging - other imaging	Lab - microscopic - wet mount
Imaging - other imaging - fluoroscopy	Lab - other clinical lab
Imaging - other imaging - fluoroscopy - guidance	Lab - other hematology
Imaging - pet - other	Lab - pathology consultation
Incoring ourplies contract erent high complex	Lab - specimen collection - blood - venous - venipuncture
Imaging supplies contract agent low compler	Lab - specimen collection - specimen handling
Imaging - supplies - ultrasound related	Lab - specimen collection - urine
Imaging - us - guide - biopsy	Lab - stat request
Imaging - us - guide - other	Lab - star request Lab - surgical pathology
Imaging - us - other	
Imaging - x-ray - other - joint survey	Lab - therapeutic drug assay
Imaging - x-ray - upper gi - duodenogram	Lab - transfusion medicine
Imaging - x-ray - upper gi - esophagus - contrast	Lab - tumor marker
Imaging - x-ray - upper gi - other	Lab - urinalysis
Imaging - x-ray - upper gi - small bowel - contrast	Laboratory - Chemistry and Hematology
Imaging Abdomen	LEAD SCREENING
Lab - blood gases	Lipid Level Monitoring
Lab - chemistry	Low dose steroids
Lab - chemistry and toxicology tests	Lung Function Tests
Lab - cytogenetics	Markers for Inflammation
Lab - cytology	Medication Assisted Management (MAT)
Lab - endocrine	Medication Therapy Management Services
Lab - genetic testing - brugada syndrome	Medications (Injections, infusions and other forms)
Lab - genetic testing - cardiac ion channel syndrome	Metabolic Renal Hepatic Chemistry Panel
Lab - gi - fat absorption	NewBorn Blood Tests

Imaging - nuclear - henatobiliary ductal scar





Online Management
Opioid Administration / Dispensing (OTP)
Other - non - covered
Other bowel diagnostic procedures
Other care - bladder / bowel care - catheter
Other care - bladder / bowel care - drainage bag
Other care - bladder / bowel care - other supplies
Other care - bladder / bowel care - other supplies - diaper / relat
Other care - bladder / bowel care - other supplies - skin barrier
Other care - child care - specialized
Other care - chronic edema - appliance - segmental
Other care - chronic edema - surgical stockings
Other care - diabetes care - glucose monitoring
Other care - diabetes care - glucose monitoring - lancet
Other care - diabetes care - glucose monitoring - other supplies
Other care - home care - emergency response system
Other care - home care - home health aide
Other care - home care - meals
Other care - home care - nursing care
Other care - home care - nursing care - lpn
Other care - home care - nursing care - np
Other care - home care - nursing care - rn
Other care - home care - other care
Other care - home care - other care - attendant care
Other care - home care - other care - chore care
Other care - home care - other care - companion care
Other care - home care - other care - day care
Other care - home care - other care - homemaker
Other care - home care - other care - respite care
Other care - home care - physician supervision
Other care - home care - rehabilitation - occupational therapy
Other care - home care - rehabilitation - physical therapy
Other care - home care - rehabilitation - speech therapy
Other care - home care - social worker
Other care - home care - specialized visit
Other care - home care - training
Other care - hospice

Other care - long term care - assisted living Other care - long term care - residential care Other care - newborn - jaundice - phototherapy Other care - nutrition - assessment Other care - nutrition - counseling - dietician Other care - nutrition - education Other care - nutrition - enteral ted Other care - nutrition - enteral - administration Other care - nutrition - enteral - formula Other care - nutrition - enteral - pump Other care - nutrition - enteral - tubing Other care - nutrition - medical food Other care - nutrition - parenteral Other care - nutrition - parenteral - all - inclusive Other care - nutrition - parenteral - nutrition solution Other care - nutrition - parenteral - pump Other care - observation Other care - other Other care - other - ancillary services Other care - other - education Other care - other - exercise classes Other care - other - infection control Other care - other - irrigation Other care - other - lead assessment Other care - other - lightbox Other care - other - lodging Other care - other - meals Other care - other - medical records Other care - other - weight management Other care - pain management - pca / related Other care - prevention - smoking cessation Other care - respiratory - equipment / supplies Other care - respiratory - equipment / supplies - apnea monitor Other care - respiratory - equipment / supplies - nebulizer Other care - respiratory - equipment / supplies - peak flow meter Procedure - related supplies - implant Other care - respiratory - equipment / supplies - spirometer Other care - respiratory - oxygen / oxygen concentrator

Other care - respiratory therapy Other care - special needs children Other diagnostic procedures (interview, evaluation, consultation) Other gastrointestinal diagnostic procedures Other Laboratory Other non-OR upper GI therapeutic procedures Other OR upper GI therapeutic procedures Peer Services Personal Care Services Physical Therapy / Rehab Physician Services Physician Services - Inpatient Physician Services - Outpatient PORI Preventive Medicine, Care Coordination Procedure - anesthesia Procedure - central venous catheter - insertion Procedure - dilation - esophagus Procedure - esophageal / gastric intubation Procedure - gastrostomy Procedure - graft - skin - graft material Procedure - injection / ligation - esophageal varices Procedure - nasopharyngoscopy - dx Procedure - obesity procedure - restriction Procedure - other lower gi procedures - other bowel dx Procedure - other lower gi procedures - other non - or rx Procedure - other procedures - esophagus Procedure - peripheral nerve repair / graft - graft / guide Procedure - related supplies - ablation - catheter Procedure - related supplies - access catheter Procedure - related supplies - catheter Procedure - related supplies - drainage Procedure - related supplies - graft - tendon repair Procedure - related supplies - graft / repair Procedure - related supplies - other Procedure - related supplies - resection - morcellator

Procedure - related supplies - retrieval - device Procedure - sedation Procedure - spinal canal - catheter Procedure - thyroid ablation - radionucleotide Procedure - ugi endoscopy - other Procedure - ugi endoscopy - small bowel endoscopy Procedure - vascular - related supplies - occlusion catheter Procedure - vascular access - port / pump - insertion Procedures and Reporting Prophylactic vaccinations and inoculations Prosthetics - other Psychiatry Evaluations **Psychiatry Services** Psychological and psychiatric evaluation and therapy Routine Immunizations Rx - administration - infusion Rx - administration - injection Rx - allergy - antihistamines / comb Rx - analg/antipy/nsaids - narcotics Rx - analg/antipy/nsaids - nsaids Rx - antibiotics - aminoglycosides Rx - antibiotics - anti-infectives, misc Rx - antibiotics - cephalosporins Rx - antibiotics - chloramphenicol / comb Rx - antibiotics - macrolides Rx - antibiotics - penicillins Rx - antibiotics - quinolones Rx - antibiotics - sulfonamides / comb Rx - antibiotics - tetracyclines Rx - antibiotics / antivirals / antifungals - infusion Rx - antibiotics, misc Rx - antidiabetic rx - insulins Rx - antidiabetic rx. misc Rx - antifungals Rx - antivirals Rx - autonomic rx - nicotine preps Rx - autonomic rx - parasympathomimetics



Rx - autonomic rx - sympathomimetic rx	Rx - electrolytic, caloric, water - caloric rx, amino acid prep	Rx - vitamins - multivit prep	Therapy - other
Rx - b-lactam antibiotics	Rx - electrolytic, caloric, water - hydration - unspecfied	Rx - vitamins - vitamin b / b complex	Therapy - phlebotomy
Rx - blood derivatives	Rx - electrolytic, caloric, water - multi-mineral prep	Rx - vitamins - vitamin d	Therapy - rehabilitation - other
Rx - cardiovascular system - antiarrhythmic rx	Rx - electrolytic, caloric, water - potassium supp		
Rx - cardiovascular system - beta blockers	Rx - electrolytic, caloric, water - replacement preparations, misc	Screen for amino acid disorders	Therapy - transfusion - blood
Rx - cardiovascular system - cardiac drugs	Rx - electrolytic, caloric, water - sodium chlor preps	Smoking / Tobacco Cessation	Therapy - transfusion - granulocytes
Rx - cardiovascular system - cardiac glycosides	Rx - endocrine - other - parathyroid hormones	Supplies	Therapy - transfusion - plasma
Rx - cardiovascular system - hypotensive rx	Rx - gi - antichol/antispasmodics	Tests - cardiac - ecg - ecg - 12 lead	Therapy - transfusion - platelets
Rx - cardiovascular system - natriuretic peptides Rx - cardiovascular system - vasodilating agents, nec	Rx - gi - antiemetics Rx - gi - h2 antagonists		
Rx - cardiovascular system - vasodilating rx	Rx - gi - ppis	Tests - cardiac - echo - contrast agent	Therapy - ultraviolet light therapy
Rx - central nervous system - amphetamines	Rx - gi drug misc,nec	Tests - cardiac - radiopharmaceuticals	Therapy - vaccination - chicken pox
Rx - central nervous system - anticonvulsants	Rx - gu - other - bladder rx	Tests - ent - swallowing evaluation	Therapy - vaccination - dtp / related
Rx - central nervous system - antidepressants	Rx - hematopoietic system - hematopoietic growth factors	Tests - gi - duodeneal motility study	Therapy - vaccination - hepatitis a vaccine
Rx - central nervous system - anxiolytic/sedative/hypnot nec	Rx - hematopoietic system - iron / related	Tests - gi - esophageal balloon distension test	Therapy - vaccination - hepatitis b
Rx - central nervous system - barbiturates	Rx - hematopoietic system - other		
Rx - central nervous system - benzodiazepines	Rx - immune system - gold compounds	Tests - gi - gastric motility study	Therapy - vaccination - hib vaccine
Rx - central nervous system - non-amphetamine stimulants	Rx - immune system - immunosuppressants	Tests - gi - other dx	Therapy - vaccination - mmr / related
Rx - central nervous system - parkinson's rx	Rx - immune system - interferons	Tests - neuro - sleep studies	Therapy - vaccination - other vaccine
Rx - central nervous system - symnpatholytic rx	Rx - miscellaneous rx	Tests - pulmonary - peak flow	Therapy - vaccination - poliovirus vaccine
Rx - central nervous system - tranq/antipsychotics	Rx - miscellaneous rx - anesthetics, local	Therapy - accupuncture	Therapy - vaccination - vaccine administration
Rx - coagulation system - anticoagulants	Rx - miscellaneous rx - enzymes		17
Rx - coagulation system - antiheparin agnt	Rx - miscellaneous rx - heavy metal antagonists	Therapy - activity therapy	Thyroid Function Tests
Rx - coagulation system - antiplatelet rx	Rx - muscle relaxants - muscle relax, neuromusc block	Therapy - behavior - evaluation and therapy	Transportation - other transportation
Rx - coagulation system - hemostatics	Rx - muscle relaxants - muscle relax, skeletal central	Therapy - behavior - other	Transportation - paramedic
Rx - coagulation system - thrombolytic rx	Rx - muscle relaxants - muscle relax, skeletal, misc	Therapy - behavior - partial hospilization	Ungrouped Codes
Rx - diagnostic rx - gastric function	Rx - other Rx - other anti-infectives - antimalarials	Therapy - dialysis - supplies	Upper gastrointestinal endoscopy, biopsy
Rx - diagnostic rx - roentgenography Rx - diagnostic rx - thyroid function	Rx - pharmacy fee		
Rx - diagnostic rx, misc	Rx - respiratory - beta agonists	Therapy - habilitation	Upper gastrointestinal endoscopy; biopsy
Rx - diuretics - diuretic, carb anhydrase inhib	Rx - respiratory - methylxanthines	Therapy - hyperbaric oxygen	Upper GI endoscopy
Rx - diuretics, loop diuretics	Rx - respiratory - mucolytics/cold comb	Therapy - neurostimulator - nausea / vomiting	Upper GI endoscopy w additional procedures
Rx - diuretics, osmotic	Rx - respiratory - phenylephrine	Therapy - neurostimulator - other	Urine Protein
Rx - diuretics, thiazides / related	Rx - serums, toxoids, vaccines - serums	Therapy - neurostimulator - tens - device	Vaccine for flu or Pneumonia
Rx - eent - topical - eye/ear/nose/throat misc	Rx - serums, toxoids, vaccines - toxins		
Rx - electrolytic, caloric, water - calcium supplements	Rx - skin / mucous membrane - antiinflam s/mm agnts / comb neo	Therapy - neurostimulator - tens - leads	Vitamin K administration
Rx - electrolytic, caloric, water - caloric rx dextrose / rel	Rx - skin / mucous membrane - s/mm miscellaneous	Therapy - neurostimulator - tens - supplies	Wellness Assessment



Relevant Diagnoses – ICD-10

Abdominal Hernia w/out Gangrene/Obstruction	Diverticulitis, colitis	Irritable Bowel and other functional GI disor
Abdominal mass	Diverticulosis, Meckel's diverticulum, Angiodyspalsia	Marginal Ulcer
Abdominal pain	Dyspepsia	Marginal Ulcer w hmg / obstr / perf
Abdominal tenderness	Dysphagia	Metastatic Cancer and Acute Leukemia
Abnormal weight loss	empyema, lung abscess	Nausea, vomiting
Achalasia, Esophageal Spasm, Stricture, Dysphagia	Esophageal Complications	Neoplasms of unspecified nature or uncertain behavio
Acute esophagitis, acute gastritis, duodenitis	Esophageal Reflux and Other Esophagitis	Neoplsm - benign neoplsm - esophagus
Acute Gastroduodenal Ulcer	Esophageal Varices	Neoplsm - benign neoplsm - small intestine
Acute Gastroduodenal Ulcer w Perforation / Obstruction	Fistula GI tract	Neoplsm - benign neoplsm - stomach
Acute Peptic Ulcer with Bleed	Gastroduodenal Ulcer	Neuroendocrine, Myeloproliferative Cancers
Alcoholic Gastritis	Gastroduodenal Ulcer w Perforation / Obstruction	Nonspecific Gastroenteritis
Allergic, Dietetic, Eosinophilic Gastroenteritis	Gastroenteritis	Observation/Examination
Angiodysplasia of intestine	Gastroperesis	Opportunistic Infections
Aspiration Pneumonia	GERD, Hiatal Hernia, Other Upper GI Disorders	Other abn of GB, pancreas, liver
Barrett's Esophagus	GI - abnormal abdominal imaging study	Other bacterial infections
Cancer in situ, Esophagus	GI - abnormal bowel sounds	Other disorders of stomach and duodenum
Cancer in situ, Stomach	GI - abnormal gi imaging study	Other Esophageal conditions
Cancer of esophagus	GI - diarrhea	Other somatoform disorders
Cancer of other GI organs; peritoneum	GI - esophagitis	Parasitic Infections: Amebiasis, Giardiasis
Cancer of stomach		· ·
Cancer small bowel	GI - flatulence / gas pain	Perforation, Peritonitis, Abd Abscess
Cancer; other and unspecified primary	GI - personal hx of GI disease	Personal history of cancer
Chronic Peptic Ulcer with Bleed	GI - symptoms - nec / nos	Personal history of GI cancer
Complicated Hiatal Hernia	GI - visible peristalsis	Post GI Surgery Syndromes
complications of surgical procedures	GI Bleed	Previous bowel surgery, ostomy status
Congenital GI Problems in NB	GI inflammation from chemotherapy	Secondary malignancies, Unspecified
Crohn's Disease w Fistula	Heartburn	Sxs - symptoms -other
diabetes mellitus with neurologic manifestations	Hx of colon polyps, family Hx of colon cancer	Thyroid Cancer
Diaphragmatic Hernia	Intestinal infection	Toxic Effects of Radiation
Digestive congenital anomalies	Intestinal Malabsorption, Celiac Disease	Toxic Gastroenteritis
Digestive system complications	Intestinal Obstruction	Ulceration of Intestine
Disseminated Metastatic Cancer	Iron deficiency and other anemias	Vascular Insufficiency of intestine





Complications – ICD-10

Acute Kidney Failure	Gram Negative Pneumonia	Recent AMI
Adverse effects of drugs	HAC 02: Air Embolism	Resp Failure following trauma / surgery
Aspiration Pneumonia	Hemoperitoneum	Respiratory Failure
Bacteremia, SIRS, no organ dysfunction	Hemorrhage	Respiratory Insufficiency
C-Difficile Infection	Hemorrhagic Stroke	Retroperitoneal Abscess
Chronic Fungal and Other Pneumonias	Hypotension / Syncope	Sepsis
Complications from Central Line	Influenza with Pneumonia	Severe Sepsis Shock / Cardiac Arrest
Complications of anesthesia	Intestinal Obstruction	Shock during or following cardiac surgery
Complications of colostomy, enterostomy	Meningitis / Encephalitis	Shock during or post-procedure
complications of medical care	MRSA Pneumonia	Sinus Node Dysfunction
complications of surgical procedures	MRSA, Drug Resistant Infections	STEMI
Complications of surgical procedures or medical care	Opportunistic Infections	Subendocardial Infarct
Debilitating Viral Pneumonia	Other bacterial infections	Supraventricular Tachyarrhythmias
Dehydration	Other Bacterial Pneumonia	Thromboembolic Stroke
Dermatitis, Urticaria	Other cardiac arrhythmias	Transient cerebral ischemia, TIA
dic, coagulation, hemorrhagic disorders	Other lower respiratory disease	Urethral Stricture
Digestive system complications	other lung complications	Urinary Tract Infection
	Other lung problems	Ventilator Associated Pnuemonia
empyema, lung abscess		Ventilator Dependence
Esophageal Complications	Other Phlebitis, Lymphangitis, varices	Ventricular Arrhythmias
Fluid Electrolyte Acid Base Problems	Other Staph Pneumonia	Viral Pneumonia
Foreign body left during procedure	Perforation, Peritonitis, Abd Abscess	Wound Dehiscence
Gastroenteritis	Phlebitis, Deep vein thrombosis (DVT)	Wound Infections

