



maryland  
**health services**  
cost review commission

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## Episode Quality Improvement Program Subgroup

September 17<sup>th</sup>, 2021

# Agenda for Today

- Enrollment Next Steps
- Care Partner Arrangement Walkthrough
- EQIP Episode Playbook: Navigating the Prometheus Episode Definitions
- Questions and Discussion



# Enrollment Next Steps

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# EQIP Enrollment Process



September 1<sup>st</sup>, 2021

- Deadline for Submission of Care Partners in EEP for CMS vetting

September 2021

- EQIP Entities finalize their episode and intervention selection
- EQIP Entities may split or combine with others if their Care Partners were included in vetting to CMS

October 15<sup>th</sup>, 2021

- CMS Vetting Results are available in EEP
- Care Partner Arrangements Distributed

October – December 2021

- EQIP Entities follow-up with their Care Partners to ensure Arrangement signature

December 31<sup>st</sup>, 2021

- All Care Partners who signed their Arrangement will be determined 'enrolled'
- Care Partners who do not sign their Arrangements are removed from EQIP Entities for Performance

# September 2021 Enrollment Activities

- EQIP Entities finalize their episode and intervention selection
  - Selections will be considered final on 10/15 so that Care Partner Arrangements can be filled
- EQIP Entities may split or combine with others if their Care Partners were included in vetting to CMS – 10/15 Deadline
  - Care Partners may only be in one EQIP Entity
  - If a new Entity needs to be created, there will need to be a new lead Care Partner designated to create the Entity in EEP
- De-duplication of Care Partners across EQIP Entities is final as of today (9/17)
  - If a Care Partner did not attest to a preference for one Entity and neither Entity claimed the Care Partner, the Care Partner will be assigned to the smallest volume Entity
  - EQIP Entities should adjust their Care Partner lists in the EEP dashboard accordingly, please reach out to [EQIP@crisphealth.org](mailto:EQIP@crisphealth.org) if you have questions or issues

# Episode and Intervention Selection

- Episode and intervention selections for each EQIP entity will be considered as final in EEP as of 10/15/21
- For episode selection:
  - EQIP Entities should have received an NPI-specific breakdown of costs per clinical episode category based on EEP submission of Care Partners
  - Further detail on variation in episodes, potentially avoidable costs and other relevant reports will be provided to interested EQIP Entities, reach out to [EQIP@crisphealth.org](mailto:EQIP@crisphealth.org)
- For intervention selection:
  - Only one intervention category needs to be selected for each clinical episode category
  - EQIP Entities are expected to keep record of the interventions, but no further submission is necessary into EEP or to CMS

# Care Partner Arrangements

- As per the State and UMMC's Agreement with CMS, Incentive Payments may not be distributed to an "individual or entity other than a Care Partner with whom the Hospital has a fully executed written Care Partner Arrangement."
- For EQIP, the HSCRC has written a standardized Care Partner Arrangement **required for all Care Partners intending to participate in an EQIP Entity**
  - All Care Partners who pass vetting and are not removed from the Care Partner dashboard in EEP prior to October 8<sup>th</sup>, 2021\* will have an Arrangement generated to digitally sign
  - Care Partners will have the opportunity to sign their Care Partner Arrangement through December 31<sup>st</sup>, 2021.
  - Care Partners who fail to sign prior to the start of the performance year will be removed from the EQIP Entity and will not be certified to CMS as participating in an AAPM.
  - \*This timeline is dependent on when CMS returns results of vetting and the HSCRC will communicate any delays or changes to Lead Care Partners and Administrative Proxies.



# Selected Care Partner Arrangement Sections

- **Introduction and Overview**
  - Outlines the purpose of EQIP and its legal structure under the Care Redesign Program
  - Will include EQIP Entity's name and Clinical Episode Categories for participation
- **Care Partner Eligibility**
  - Care Partner shall meet requirements of 42 CFR 424.500 et seq., including having a valid and active National Provider Identifier (NPI) and reporting all changes to enrollment information to CMS consistent with 42 CFR 424.516.
  - Utilization of certified, electronic health (medical) records (CEHRT) and CRISP is required.
  - Other standards for enrollment and participation.
- **CRP Entity Responsibilities – University of Maryland Medical Center**
  - Limited to administration only, no access to proprietary data
  - No other contractual agreement with UMMC Required



# Selected Care Partner Arrangement Sections

- EQIP Incentive Payments
  - Includes payment remission recipient and the EQIP Entity's intervention selections
  - Distribution of payments, agreement to EQIP methodology outlined in User Guide, 25% stop-gain
- Dissavings Accountability – Dissavings offset year over year and EQIP Entity removal for two consecutive years of dissavings
- Quality Accountability – Probation for performance under the 20<sup>th</sup> percentile benchmark statewide and EQIP Entity removal for two consecutive years on probation
- Care Partner Integrity – There will be no change in the Care Partner's discretion as a provider and Care Partners will provide direction on their care team and patients.

## Section: Patient Rights

- Maryland Medicare Beneficiaries have the right to Medically Necessary services made available by their Care Partners.
- Maryland Medicare Beneficiaries and their assignees can appeal claims determinations in accordance with 42 CFR part 405.
- Care Partners cannot avoid treating “at risk beneficiaries” (as defined at 42 CFR §425.20) or to target certain beneficiaries for any reason that could compromise the integrity of the CRP, the Maryland TCOC Model, the Medicare Program or other federal health programs, or the safety of Medicare beneficiaries.
- Care Partners cannot include CRP Interventions that discourage medically necessary services in the most appropriate setting.

## Section: Beneficiary Choice and Notice

- Care Partners cannot obstruct the choice of Maryland Medicare Beneficiaries to obtain health services from providers outside from the participating hospital or its Care Partners.
- Medicare beneficiaries receiving care from the EQIP Care Partner will be given notice stating that the Care Partner, the EQIP Entity and its medical staff are participating in EQIP.
- EQIP does not allow beneficiaries to “opt out” of the payment methodology. These notices may be requested by the HSCRC for verification and compliance purposes.

## Section: Care Redesign Program Committee

- The State and HSCRC will work with the CRP Entity, the University of Maryland Medical Center, to maintain a Care Redesign Program Committee that ensures compliance with the Care Redesign Program requirements.
- “The Care Redesign Program Committee will:
  - Provide oversight on the implementation of the care redesign and quality improvement components of the Care Redesign Program(s), including options for the EQIP Entity’s selection of Care Redesign Interventions,
  - Provide a forum for sharing ideas, identifying problems, and developing solutions,
  - Offer feedback to the internal program framework and leadership to ensure the integrity of and opportunity for success of the Care Redesign Program(s), and,
  - Monitor participation in the Care Redesign Program(s) to ensure compliance with applicable requirements of the participant hospital’s GBR Agreement and the All-Payer Model.”
- All Care Partners and EQIP Entities in EQIP are invited to participate in the Care Redesign Program Committee meetings, which will effectively take place during this subgroup

# Selected Care Partner Arrangement Sections

- **State Reporting Requirements to CMS**
  - To ensure that then State can satisfy its obligations to CMS, you, your employees and contractors may be required to provide data and sufficient access to records upon request.
  - At this time, EEP is designed to intake all reporting required for the program, any additional requests would be ad-hoc.
- **Program Integrity**
  - State or CMS oversight of the program may result in the imposition of a Performance Improvement Plan (PIP) or corrective action plan for your EQIP Entity.
  - The CRP Entity and State will collectively terminate this Care Partner Arrangement as required by CMS or the State if CMS or the State determines that the Care Partner has breached the arrangement, failed to comply with a PIP, threatened the health or safety of a Medicare beneficiary or other patient or are subject to federal or state corrective actions

# Care Partner Arrangement Signature Process

- Each individual Care Partner who passes CMS vetting and remains on the EQIP Entity's Care Partner List will be required to sign an EQIP Care Partner Arrangement by December 31<sup>st</sup>, 2021
  - Arrangements will be emailed directly to each Care Partner from UMMC, with administrative proxies cc'd
  - No further follow-up will be done with Care Partners directly from UMMC
  - EQIP Entities and their administrative proxies will be able to track which Care Partners have signed their Agreements in EEP, based on UMMC reporting
  - All follow-up and reminders will flow through EQIP Entities and their administrative proxies
- Questions about the Care Partner Arrangement and process can be sent to [EQIP@crisphealth.org](mailto:EQIP@crisphealth.org)

# Data and Analytics

- HSCRC and CRISP are working to develop reporting within EEP to inform participants of performance analytics, program summaries and opportunity
- Planned areas of detail include NPI-specific views of:
  - Unplanned Admissions
  - Place of service – Where the trigger procedure was performed
  - Type of service – Where the spending is within the episode pre- and post-trigger windows
  - Opportunity summary and complication rates – includes analysis of avoidable complication spend and type
- Detailed claims will be available for download
- Expected go-live is 3/31/21, for performance year reporting





# EQIP Episode Playbook

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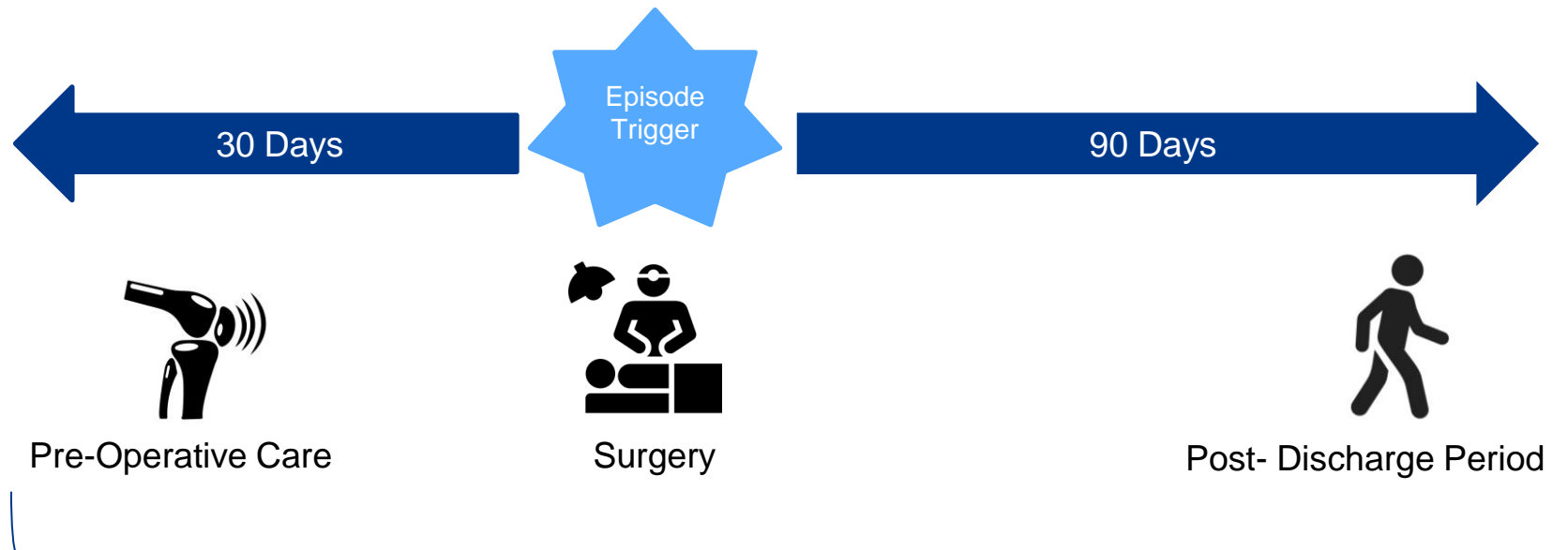
# EQIP Episode Playbook

- Prometheus Episodes are only created when claims for health services contain specific codes to trigger episodes and then assign 'relevant' episode costs
- HSCRC staff developed summaries for all 15 episodes in performance year one, which indicate:
  - 'Trigger' codes that initiate an episode
  - 'Trigger Diagnosis' codes, which must be on a triggering claim to confirm
  - 'Relevant Diagnosis' codes that flag claims relevant to be included in episode costs
  - 'Relevant Procedure' codes that flag claims relevant to be included in episode costs
  - 'Complication' codes that flag claims for insights on complications and potentially avoidable events

## EXAMPLE: 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



Total Episode Cost= All expected services and complication costs associated during the entire index period of Hip Replacement/ Hip Revision Episode

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

# Episode Triggers

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	Malunion, Left side	Osteoporosis, osteitis deformans, Left
Arthropathy hip, pelvis, thigh, RIGHT	Malunion, Right side	Osteoporosis, osteitis deformans, Right
Arthropathy hip, pelvis, thigh, Unspecified	Malunion, Unspecified	Osteoporosis, osteitis deformans, Unspecified
Aseptic Necrosis, Left	MS - bone - nos - chondrodystrophy	Other arthropathies
Aseptic Necrosis, Right	MS - bone - nos - nec / nos	Other arthropathies, Left side
Aseptic Necrosis, Unspecified	MS - face - acqrd defrmt	Other arthropathies, Right side
Congenital Dislocation of Hip, Bilateral	MS - hip - protrusion of acetabulum	Other Close Fracture Femur Left
Congenital Dislocation of Hip, Left	MS - hip jt replacement	Other Close Fracture Femur Right
Congenital Dislocation of Hip, Right	MS - joint - nos - effusion	Other Close Fracture Femur Unsp
Congenital Dislocation of Hip, Unspecified	MS - joint nos - difficulty walking	Other deformities, limb, other sites, Left
Deformities, Left lower limb	MS - joint nos - jnt derangmnt - loose body	Other deformities, limb, other sites, Right
Deformities, lower limb	MS - joint nos - jnt derangmnt - other	Other deformities, limb, other, Unspecified
Deformities, Right lower limb	MS - joint nos - other arthropathy	Other osteopathic disorders, Unspecified
diabetes mellitus with neurologic manifestations	MS - muscle - nos - muscle atrophy	Partial Hip Replacement
Diabetes, other manifestation	MS - muscle - nos - muscle weakness	Partial Hip Revision
Dislocation Hip, Left	MS - s / p bone transplant	Pathologic, stress fracture Left Femur, Pelv
Dislocation Hip, Right	Neoplsm - benign neoplsm - bone / cartilage - nos	Pathologic, stress fracture Right Femur, Pelv
Dislocation Hip, Unspecified	Neoplsm - benign neoplsm - femur / fibula / tibia	Pathologic, stress fracture Unsp Femur, Pelv
Fistula, Effusion in Joint	Neoplsm - benign neoplsm - lower extremity	Periprosthetic fracture
Gout and other crystal arthropathies	Nonunion, Left side	Personal history of musculoskeletal disorders
Gout and other crystal arthropathies, Left	Nonunion, Right side	Rheumatoid Arthritis and Inflammatory Con, LT
Gout and other crystal arthropathies, Right	Nonunion, Unspecified	Rheumatoid Arthritis and Inflammatory Con, RT
Hip / Pelvis deformities, Left	NS - polyneuropathy - collagen vascular disease	Rheumatoid Arthritis and Inflammatory Connective Tissue Disease
Hip / Pelvis deformities, Right	NS polyneuropathy-collagen vascul disease, LT	Rheumatoid Arthritis, Left
Hip / Pelvis deformities, Unspecified	NS polyneuropathy-collagen vascul disease, RT	Rheumatoid Arthritis, Right
Infective Arthritis	Open wounds of extremities	Rheumatoid Arthritis, Unspecified
Infective Arthritis, Left	Osteoarthritis	Total Hip Replacement
Infective Arthritis, Right	Osteoarthritis, Hip, Left	Total Hip Resurfacing
Inflammatory Arthropathies, Left	Osteoarthritis, Hip, Right	Total Hip Revision
Inflammatory Arthropathies, Right	Osteoarthritis, Hip, Unspecified	Wasting of Muscles and Neuro Muscular Dystrophy
Inflammatory Arthropathies, Unspecified	Osteoarthritis, other joints	



# Relevant Procedures – ICD-10, CPT and HCPCS

Advance care planning	Imaging - ct - follow - up	Laboratory - Chemistry and Hematology	Other care - home care - rehabilitation - physical therapy	Procedure - central venous catheter - insertion	Risk Assessment	Therapy - activity therapy
Alcohol / Drug Use Screening	Imaging - ct - guidance	LEAD SCREENING	Other care - home care - social worker	Procedure - debridement - wound / infection / burn - debridement	Robotic Surgery	
Ancillary Services	Imaging - ct - lower extremity	Lipid Level Monitoring	Other care - home care - specialized visit	Procedure - destruction - nerve	Rx - administration - infusion	Therapy - behavior - partial hospitalization
Anesthesia	Imaging - ct - other	Low dose steroids	Other care - home care - training	Procedure - excision - skin - remove subcutaneous lesion	Rx - administration - injection	
Anti-TNF agents	Imaging - ct - study	Markers for Inflammation	Other care - hospice	Procedure - excision - skin - shave skin lesion	Rx - antibiotics - aminoglycosides	Therapy - biofeedback
Aortic resection, replacement or anastomosis	Imaging - mra - lower extremity	Medication Therapy Management Services	Other care - long term care - assisted living	Procedure - gastric neurostimulator - implantation	Rx - antibiotics - anti-infectives, misc	Therapy - chiropractic / osteopathic manipulation
Bleeding Status	Imaging - mra - pelvis	Medications (Injections, infusions and other forms)	Other care - long term care - residential care	Procedure - graft	Rx - antibiotics - cephalosporins	
Blood Count	Imaging - mri - contrast agent	Metabolic Renal Hepatic Chemistry Panel	Other care - nutrition - assessment	Procedure - graft - skin - graft material	Rx - antibiotics - chloramphenicol / comb	Therapy - habilitation
Blood Gases, Pulse Oximetry	Imaging - mri - guidance	Microscopic examination (bacterial smear, culture, toxicology)	Other care - nutrition - counseling - dietician	Procedure - i&d - skin - drainage - post - op infection	Rx - antibiotics - macrolides	Therapy - hyperbaric oxygen
Blood transfusion	Imaging - mri - other	NewBorn Blood Tests	Other care - nutrition - education	Procedure - i&d - skin - drainage of abscess	Rx - antibiotics - penicillins	Therapy - neurostimulator - muscle training
Blood Type, Coomb's test	Imaging - mri - pelvis	Online Management	Other care - nutrition - medical food	Procedure - i&d - skin - drainage of hematoma	Rx - antibiotics - sulfonamides / comb	
Bundled Payment / Medical Home	Imaging - nuclear - bone scan	Open Surgery for Hip socket or Pelvis	Other care - nutrition - parenteral - all - inclusive	Procedure - injection - tendons / joints / etc.	Rx - antibiotics - tetracyclines	Therapy - neurostimulator - nausea / vomiting
Cardiac Stress Test	Imaging - nuclear - other	Open Surgery for Neck or Proximal Femur	Other care - nutrition - parenteral - pump	Procedure - injection of skin lesion	Rx - antibiotics - antivirals / antifungals - infusion	
Care Plan Oversight	Imaging - nuclear - other musculoskeletal	Open Surgery for Shaft or Distal Femur	Other care - observation	Procedure - lymphadenectomy	Rx - antibiotics, misc	Therapy - neurostimulator - tens - device
Case Management Services	Imaging - other imaging - bone density	Open treatment of Hip Dislocation, Spontaneous	Other care - other	Procedure - microsurgery	Rx - b-lactam antibiotics	
Case Management Services - Behavioral	Imaging - other imaging - bone density - dexa	Open treatment of Hip Dislocation, Traumatic	Other care - other - ancillary services	Procedure - neuro - other non - or rx	Rx - blood derivatives	Therapy - neurostimulator - tens - device
CHEMOTHERAPY	Imaging - other imaging - fluoroscopy	Open treatment of Slipped Femoral Epiphysis	Other care - other - exercise classes	Procedure - neuro - other or rx	Rx - cardiovascular system - vasodilating agents, nec	Therapy - osteogenesis stimulator
CHLAMYDIA SCREENING	Imaging - supplies - contrast agent - high osmolar	Opioid Administration / Dispensing (OTP)	Other care - other - infection control	Procedure - other dx on musculoskeletal system	Rx - coagulation system - anticoagulants	Therapy - other
Chronic Care Management	Imaging - supplies - contrast agent - low osmolar	Orthotics - lower extremity	Other care - other - interpretation	Procedure - other fracture / dislocation - rx	Rx - coagulation system - antiheparin agnt	Therapy - phlebotomy
Closed Surg for Hip socket/Pelvis w/manipulat	Imaging - us - guide - biopsy	Orthotics - orthopedic shoes	Other care - other - lodging	Procedure - other non - or rx - chemodeneration of eccrine glands	Rx - coagulation system - hemostatics	Therapy - pt - exercises / activities
Closed Surg for Neck/Proximal Femur w/manipul	Imaging - us - guide - other	Orthotics - other	Other care - other - meals	Procedure - other non - or rx - other non - or skin procedures	Rx - diagnostic rx - roentgenography	Therapy - pt - modalities
Closed Surg for Neck/Proximal Femur, no manip	Imaging - us - other	Orthotics - upper extremity	Other care - other - medical records	Procedure - other non - or rx on musculoskeletal system	Rx - diuretics, loop diuretics	Therapy - rehabilitation - related supplies / equipment - motion device
Closed Surg for Shaft or Distal Femur, no man	Imaging - x-ray - hip - arthrogram	Other - non - covered	Other care - other - pvd - compressor	Procedure - other or rx - other or skin procedures	Rx - electrolytic, caloric, water - caloric rx dextrose / rel	Therapy - transfusion - administration
Closed Surg Hip Socket or Pelvis, no manipul	Imaging - x-ray - other - bone survey	Other care - bladder / bowel care - catheter	Other care - other - weight management	Procedure - other or rx - peripheral neurostimulator procedures	Rx - electrolytic, caloric, water - hydration - unspecified	Therapy - transfusion - blood
Closed treatment of Hip Dislocation, post sur	Imaging - x-ray - other - joint survey	Other care - bladder / bowel care - drainage bag	Other care - pain management - pca / related	Procedure - other or rx on bone	Rx - electrolytic, caloric, water - multi-mineral prep	Therapy - transfusion - granulocytes
Closed treatment of Hip Dislocation, Spontane	Imaging - x-ray - si joints - arthrogram	Other care - bladder / bowel care - other supplies	Other care - prevention - smoking cessation	Procedure - other or rx on joints	Rx - electrolytic, caloric, water - potassium supp	Therapy - transfusion - plasma
Closed treatment of Hip Dislocation, Traumat	Imaging Abdomen	Other care - bladder / bowel care - other supplies - diaper / related	Other care - respiratory - smoking cessation	Procedure - other or rx on muscles and tendons	Rx - gi - antiemetics	Therapy - transfusion - platelets
Closed treatment of Slipped Femoral Epiphysis	IMMUNOTHERAPY	Other care - bladder / bowel care - other supplies - skin barrier	Other care - respiratory - equipment / supplies	Procedure - other rx on musculoskeletal system	Rx - gi - ppis	Thyroid Function Tests
Colonoscopy/Sigmoidoscopy ColorectalCa Screen	Insertion of catheter or spinal stimulator and injection into spinal canal	Other care - chronic edema - appliance - limb compression	Other care - respiratory - equipment / supplies - nebulizer	Procedure - other rx on muscles and tendons	Rx - hematopoietic system - hematopoietic growth factors	Total Hip Replacement
Diagnostic physical therapy	Joint X-Rays	Other care - chronic edema - appliance - non - segmental	Other care - respiratory - equipment / supplies - spirometer	Procedure - other spine - rx / dx - injection	Rx - hematopoietic system - iron / related	Total Hip Replacement, Left
DME - bath / toilet aids	Lab - blood gases	Other care - chronic edema - appliance - segmental	Other care - respiratory - other	Procedure - partial excision bone	Rx - miscellaneous rx	Total Hip Replacement, Right
DME - beds / accessories	Lab - chemistry	Other care - chronic edema - complex therapy	Other care - wound care	Procedure - peripheral nerve repair / graft	Rx - miscellaneous rx - enzymes	Total Hip Resurfacing
DME - heat/cold application	Lab - hematology - blood count	Other care - chronic edema - compression stocking	Other care - wound care - growth factor	Procedure - related supplies - ablation - catheter	Rx - muscle relaxants - muscle relax, skeletal central	Total Hip Revision
DME - mobility aids	Lab - hematology - blood count - eosinophil count	Other care - chronic edema - compressor	Other care - wound care - hyperbaric oxygen	Procedure - related supplies - access catheter	Rx - other	Total Hip Revision, Left
DME - other	Lab - hematology - coagulation	Other care - chronic edema - compressor - non - segmental	Other diagnostic cardiovascular procedures	Procedure - related supplies - arthroplasty	Rx - pharmacy fee	Total Hip Revision, Right
DME - patient lifts	Lab - immunology	Other care - chronic edema - compressor - segmental	Other diagnostic procedures (interview, evaluation, consultation)	Procedure - related supplies - graft / repair	Rx - serums, toxoids, vaccines - serums	Transitional Care Management
DME - repair / maintenance	Lab - infectious agent antibody	Other care - chronic edema - compressor - segmental	Other diagnostic radiology and related techniques	Procedure - related supplies - implant	Rx - vitamins - multivit prep	Transportation - other transportation
DME - safety equipment	Lab - infectious agent antigen	Other care - chronic edema - exterior wrap	Other Laboratory	Procedure - related supplies - other	Screen for amino acid disorders	Transportation - paramedic
DME - traction	Lab - infectious agent dna	Other care - chronic edema - gauntlet	Partial Hip Replacement	Procedure - removal of pins or fixation	Supplies	Ungrouped Codes
DME - trapeze / other orthopedic device	Lab - microbiology	Other care - chronic edema - sleeve	Partial Hip Resurfacing	Procedure - rx - fracture / dislocation - hip / femur	Tests - cardiac - ecg - ekg - 12 lead	Urine Protein
DME - whirlpool - equipment	Lab - microbiology - c & s	Other care - chronic edema - surgical stockings	Partial Hip Revision	Procedure - spinal canal - catheter	Tests - cardiac - ecg - other	Vaccine for flu or Pneumonia
DME - wound therapy	Lab - microbiology - microscopic exam	Other care - chronic edema - surgical stockings	Partial Hip Revision, Left	Procedure - spinal canal - injection into spinal canal	Tests - cardiac stress tests - cardiac perfusion scan - rest / exercise	Wellness Assessment
DME and supplies	Lab - microbiology - other	Other care - chronic edema - surgical stockings	Partial Hip Revision, Right	Procedure - spinal canal - injection into spinal canal	Tests - cardiac stress tests - cardiac stress tests - other	X-Ray Thoracolumbar Spine / Pelvis
Drug Delivery implantation	Lab - other clinical lab	Other care - chronic edema - surgical stockings	Pathology	Procedure - suture - skin - complex wound repair	Tests - neuro - ncv / emg	
E & M - consultation	Lab - other hematology	Other care - chronic edema - surgical stockings	Personal Care Services	Procedure - suture - skin - delayed wound closure	Tests - neuro - other	
E & M - emergency care	Lab - pathology consultation	Other care - chronic edema - surgical stockings	Physical Therapy / Rehab	Procedure - suture - skin - delayed wound closure	Tests - neuro - sleep studies	
E & M - home visit	Lab - specimen collection - blood - arterial - arterial puncture	Other care - chronic edema - surgical stockings	Physician Services	Procedure - suture - skin - delayed wound closure	Tests - pulmonary - exhaled air analysis	
E & M - hospital	Lab - specimen collection - blood - venous - venipuncture	Other care - chronic edema - surgical stockings	Physician Services - Inpatient	Procedure - suture - skin - delayed wound closure	Tests - pulmonary - other	
E & M - nursing home	Lab - specimen collection - blood - venous - venous port	Other care - chronic edema - surgical stockings	Physician Services - Outpatient	Procedure - suture - skin - delayed wound closure	Tests - pulmonary - peak flow	
E & M - other	Lab - stat request	Other care - chronic edema - surgical stockings	Preventive Medicine, Care Coordination	Procedure - suture - skin - delayed wound closure	Tests - skin	
E & M - prevention	Lab - surgical pathology	Other care - chronic edema - surgical stockings	Procedure - anesthesia	Procedure - suture - skin - delayed wound closure	Tests - vascular - arterial - extremity	
HbA1C	Lab - therapeutic drug assay	Other care - chronic edema - surgical stockings	Procedure - arthroscopy - other joints	Procedure - suture - skin - delayed wound closure	Tests - vascular - venous	
Hip replacement; total and partial	Lab - tissue typing	Other care - chronic edema - surgical stockings	Procedure - block - nerve	Procedure - vascular access - port / pump - insertion	Therapy - acupuncture	
Home Health / Hospice	Lab - transfusion medicine	Other care - chronic edema - surgical stockings	Procedure - bone graft	Procedures and Reporting		
Home Health Services	Lab - urinalysis	Other care - chronic edema - surgical stockings	Procedure - casting / splinting - application	Prosthetic Implant		
Hormone Therapy		Other care - chronic edema - surgical stockings	Procedure - casting / splinting - supplies	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		



# Relevant Diagnoses – ICD-10

Arthropathy hip, pelvis, thigh, LEFT	Inflammatory Arthropathies, Unspecified	Osteoarthritis, Hip, Unspecified
Arthropathy hip, pelvis, thigh, RIGHT	Malunion, Left side	Osteoarthritis, other joints
Arthropathy hip, pelvis, thigh, Unspecified	Malunion, Right side	Osteoporosis, osteitis deformans, Left
Aseptic Necrosis, Left	Malunion, Unspecified	Osteoporosis, osteitis deformans, Right
Aseptic Necrosis, Right	MS - bone - nos - chondrodystrophy	Osteoporosis, osteitis deformans, Unspecified
Aseptic Necrosis, Unspecified	MS - bone - nos - nec / nos	Other arthropathies
Congenital Dislocation of Hip, Bilateral	MS - face - acqrd defrmty	Other arthropathies, Left side
Congenital Dislocation of Hip, Left	MS - hip - protrusion of acetabulum	Other arthropathies, Right side
Congenital Dislocation of Hip, Right	MS - hip jt replacement	Other Close Fracture Femur Left
Congenital Dislocation of Hip, Unspecified	MS - joint - nos - effusion	Other Close Fracture Femur Right
Deformities, Left lower limb	MS - joint nos - difficulty walking	Other Close Fracture Femur Unsp
Deformities, lower limb	MS - joint nos - jnt derangmnt - loose body	Other deformities, limb, other sites, Left
Deformities, Right lower limb	MS - joint nos - jnt derangmnt - other	Other deformities, limb, other sites, Right
diabetes mellitus with neurologic manifestations	MS - joint nos - other arthropathy	Other deformities, limb, other, Unspecified
Diabetes, other manifestation	MS - muscle - nos - muscle atrophy	Other osteopathic disorders, Unspecified
Dislocation Hip, Left	MS - muscle - nos - muscle weakness	Pathologic, stress fracture Left Femur, Pelv
Dislocation Hip, Right	MS - s / p bone transplant	Pathologic, stress fracture Right Femur, Pelv
Dislocation Hip, Unspecified	Neoplsm - benign neoplsm - bone / cartilage - nos	Pathologic, stress fracture Unsp Femur, Pelv
Fistula, Effusion in Joint	Neoplsm - benign neoplsm - femur / fibula / tibia	Periprosthetic fracture
Gout and other crystal arthropathies	Neoplsm - benign neoplsm - lower extremity	Personal history of musculoskeletal disorders
Gout and other crystal arthropathies, Left	Nonunion, Left side	Rheumatoid Arthritis and Inflammatory Con, LT
Gout and other crystal arthropathies, Right	Nonunion, Right side	Rheumatoid Arthritis and Inflammatory Con, RT
Hip / Pelvis deformities, Left	Nonunion, Unspecified	Rheumatoid Arthritis and Inflammatory Connective Tissue Disease
Hip / Pelvis deformities, Right	NS - polyneuropathy - collagen vascular disease	Rheumatoid Arthritis, Left
Hip / Pelvis deformities, Unspecified	NS polyneuropathy-collagen vascul disease, LT	Rheumatoid Arthritis, Right
Infective Arthritis	NS polyneuropathy-collagen vascul disease, RT	Rheumatoid Arthritis, Unspecified
Infective Arthritis, Left	Open wounds of extremities	Wasting of Muscles and Neuro Muscular Dystrophy
Infective Arthritis, Right	Osteoarthritis	
Inflammatory Arthropathies, Left	Osteoarthritis, Hip, Left	
Inflammatory Arthropathies, Right	Osteoarthritis, Hip, Right	

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

## Next Steps and Discussion

- The Prometheus Episode Playbook is available on the HSCRC Webpage: <https://hscrc.maryland.gov/Pages/Episode-Quality-Improvement-Program.aspx>
- Please reach out to [EQIP@crisphealth.org](mailto:EQIP@crisphealth.org) with any questions, comments, or requests for technical assistance
- Next EQIP Subgroup: October 22<sup>nd</sup>, 2021 from 9-11 am
- Questions, comments, concerns?