

Quality  
Data Validation Criteria

Quality Measures High Level Supporting Documentation (Exclusive of QCDR measures) This document provides at a summary level the types of information required for the various quality measures, exclusive of QCDR measures. Documentation such as medical records, etc. to support the HCPCS, CPT, and ICD-10 codes may be requested to support data validation or auditing which is provided in "Supporting Documentation Guidance for Quality Performance Category August 2017" subregulatory guidance.							Supporting Documentation (inclusive of dates during the selected continuous 90-day or year long reporting period and clinician identification, e.g., National Provider Identifier (NPI), CMS Certification Number (CCN), etc.) <sup>1)</sup> The quality-data codes do not need to be submitted for registry-based submissions; however, these codes may be submitted for those registries that use claims data						
Quality Measure ID	Measure Name	Measure Description	Measure Type	Data Submission Method	Primary Measure Steward	Specialty Measure Set	Twelve Consecutive Months	Age Range	HCPCS/ CPT Codes	ICD-10 Codes	Drug Prescription (may include, e.g., duration, number of fills)	QDC	Other Notable Supporting Documentation
93	Acute Otitis Externa (AOE): Systemic Antimicrobial Therapy - Avoidance of Inappropriate Use	Percentage of patients aged 2 years and older with a diagnosis of AOE who were not prescribed systemic antimicrobial therapy	Process	Claims,Registry	American Academy of Otolaryngology-Head and Neck Surgery	Emergency Medicine,Otolaryngology,General Practice/Family Medicine,Pediatrics		Yes	Yes	Yes		Yes <sup>1)</sup>	
91	Acute Otitis Externa (AOE): Topical Therapy	Percentage of patients aged 2 years and older with a diagnosis of AOE who were prescribed topical preparations	Process	Claims,Registry	American Academy of Otolaryngology-Head and Neck Surgery	Emergency Medicine,Otolaryngology,Pediatrics		Yes	Yes	Yes	Yes	Yes <sup>1)</sup>	
366	ADHD: Follow-Up Care for Children Prescribed Attention-Deficit/Hyperactivity Disorder (ADHD) Medication	Percentage of children 6-12 years of age and newly dispensed a medication for attention deficit/hyperactivity disorder (ADHD) who had appropriate follow-up care. Two rates are reported. a. Percentage of children who had one follow-up visit with a practitioner with prescribing authority during the 30-Day Initiation Phase. b. Percentage of children who remained on ADHD medication for at least 210 days and who, in addition to the visit in the Initiation Phase, had at least two additional follow-up visits with a practitioner within 270 days (9 months) after the Initiation Phase ended.	Process	EHR	National Committee for Quality Assurance	Mental/Behavioral Health,Pediatrics		Yes	Yes	Yes	Yes		
383	Adherence to Antipsychotic Medications For Individuals with Schizophrenia	Percentage of individuals at least 18 years of age as of the beginning of the measurement period with schizophrenia or schizoaffective disorder who had at least two prescriptions filled for any antipsychotic medication and who had a Proportion of Days Covered (PDC) of at least 0.8 for antipsychotic medications during the measurement period (12 consecutive months)	Intermediate Outcome	Registry	Health Services Advisory Group	Mental/Behavioral Health	Yes	Yes	Yes	Yes	Yes	Yes <sup>1)</sup>	
122	Adult Kidney Disease: Blood Pressure Management	Percentage of patient visits for those patients aged 18 years and older with a diagnosis of chronic kidney disease (CKD) (stage 3, 4, or 5, not receiving Renal Replacement Therapy [RRT]) with a blood pressure < 140/90 mmHg OR >= 140/90 mmHg with a documented plan of care	Intermediate Outcome	Registry	Renal Physicians Association			Yes	Yes	Yes		Yes <sup>1)</sup>	
329	Adult Kidney Disease: Catheter Use at Initiation of Hemodialysis	Percentage of patients aged 18 years and older with a diagnosis of End Stage Renal Disease (ESRD) who initiate maintenance hemodialysis during the measurement period, whose mode of vascular access is a catheter at the time maintenance hemodialysis is initiated	Outcome	Registry	Renal Physicians Association			Yes	Yes	Yes		Yes <sup>1)</sup>	
330	Adult Kidney Disease: Catheter Use for Greater Than or Equal to 90 Days	Percentage of patients aged 18 years and older with a diagnosis of End Stage Renal Disease (ESRD) receiving maintenance hemodialysis for greater than or equal to 90 days whose mode of vascular access is a catheter	Outcome	Registry	Renal Physicians Association			Yes	Yes	Yes		Yes <sup>1)</sup>	
403	Adult Kidney Disease: Referral to Hospice	Percentage of patients aged 18 years and older with a diagnosis of ESRD who withdraw from hemodialysis or peritoneal dialysis who are referred to hospice care	Process	Registry	Renal Physicians Association			Yes	Yes	Yes		Yes <sup>1)</sup>	
325	Adult Major Depressive Disorder (MDD): Coordination of Care of Patients with Specific Comorbid Conditions	Percentage of medical records of patients aged 18 years and older with a diagnosis of major depressive disorder (MDD) and a specific diagnosed comorbid condition (diabetes, coronary artery disease, ischemic stroke, intracranial hemorrhage, chronic kidney disease [stages 4 or 5], End Stage Renal Disease [ESRD] or congestive heart failure) being treated by another clinician with communication to the clinician treating the comorbid condition	Process	Registry	American Psychiatric Association	Mental/Behavioral Health		Yes	Yes	Yes		Yes <sup>1)</sup>	
107	Adult Major Depressive Disorder (MDD): Suicide Risk Assessment	Percentage of patients aged 18 years and older with a diagnosis of major depressive disorder (MDD) with a suicide risk assessment completed during the visit in which a new diagnosis or recurrent episode was identified	Process	EHR	Physician Consortium for Performance Improvement			Yes	Yes	Yes			

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384	Adult Primary Rhegmatogenous Retinal Detachment Surgery: No Return to the Operating Room Within 90 Days of Surgery	Patients aged 18 years and older who had surgery for primary rhegmatogenous retinal detachment who did not require a return to the operating room within 90 days of surgery	Outcome	Registry	American Academy of Ophthalmology	Ophthalmology		Yes	Yes			Yes	
385	Adult Primary Rhegmatogenous Retinal Detachment Surgery: Visual Acuity Improvement Within 90 Days of Surgery	Patients aged 18 years and older who had surgery for primary rhegmatogenous retinal detachment and achieved an improvement in their visual acuity, from their preoperative level, within 90 days of surgery in the operative eye	Outcome	Registry	American Academy of Ophthalmology	Ophthalmology		Yes	Yes			Yes	
331	Adult Sinusitis: Antibiotic Prescribed for Acute Sinusitis (Overuse)	Percentage of patients, aged 18 years and older, with a diagnosis of acute sinusitis who were prescribed an antibiotic within 10 days after onset of symptoms	Process	Registry	American Academy of Otolaryngology-Head and Neck Surgery	Allergy/Immunology, Internal Medicine, Otolaryngology, General Practice/Family Medicine		Yes	Yes	Yes	Yes	Yes <sup>1)</sup>	
332	Adult Sinusitis: Appropriate Choice of Antibiotic: Amoxicillin With or Without Clavulanate Prescribed for Patients with Acute Bacterial Sinusitis (Appropriate Use)	Percentage of patients aged 18 years and older with a diagnosis of acute bacterial sinusitis that were prescribed amoxicillin, with or without clavulanate, as a first line antibiotic at the time of diagnosis	Process	Registry	American Academy of Otolaryngology-Head and Neck Surgery	Allergy/Immunology, Internal Medicine, Otolaryngology, General Practice/Family Medicine		Yes	Yes	Yes	Yes	Yes <sup>1)</sup>	
333	Adult Sinusitis: Computerized Tomography (CT) for Acute Sinusitis (Overuse)	Percentage of patients aged 18 years and older, with a diagnosis of acute sinusitis who had a computerized tomography (CT) scan of the paranasal sinuses ordered at the time of diagnosis or received within 28 days after date of diagnosis	Efficiency	Registry	American Academy of Otolaryngology-Head and Neck Surgery	Allergy/Immunology, Internal Medicine, Otolaryngology, General Practice/Family Medicine		Yes	Yes	Yes		Yes <sup>1)</sup>	
334	Adult Sinusitis: More than One Computerized Tomography (CT) Scan Within 90 Days for Chronic Sinusitis (Overuse)	Percentage of patients aged 18 years and older with a diagnosis of chronic sinusitis who had more than one CT scan of the paranasal sinuses ordered or received within 90 days after the date of diagnosis	Efficiency	Registry	American Academy of Otolaryngology-Head and Neck Surgery	Allergy/Immunology, Internal Medicine, Otolaryngology, General Practice/Family Medicine		Yes	Yes	Yes		Yes <sup>1)</sup>	
439	Age Appropriate Screening Colonoscopy	The percentage of patients greater than 85 years of age who received a screening colonoscopy from January 1 to December 31	Efficiency	Registry	American Gastroenterological Association	Gastroenterology		Yes	Yes			Yes <sup>1)</sup>	
140	Age-Related Macular Degeneration (AMD): Counseling on Antioxidant Supplement	Percentage of patients aged 50 years and older with a diagnosis of age-related macular degeneration (AMD) or their caregiver(s) who were counseled within 12 months on the benefits and/or risks of the Age-Related Eye Disease Study (AREDS) formulation for preventing progression of AMD	Process	Claims, Registry	American Academy of Ophthalmology	Ophthalmology		Yes	Yes	Yes		Yes <sup>1)</sup>	
14	Age-Related Macular Degeneration (AMD): Dilated Macular Examination	Percentage of patients aged 50 years and older with a diagnosis of age-related macular degeneration (AMD) who had a dilated macular examination performed which included documentation of the presence or absence of macular thickening or hemorrhage AND the level of macular degeneration severity during one or more office visits within 12 months	Process	Claims, Registry	American Academy of Ophthalmology	Ophthalmology		Yes	Yes	Yes		Yes <sup>1)</sup>	
458	All-cause Hospital Readmission	The 30-day All-Cause Hospital Readmission measure is a risk-standardized readmission rate for beneficiaries age 65 or older who were hospitalized at a short-stay acute care hospital and experienced an unplanned readmission for any cause to an acute care hospital within 30 days of discharge.	Outcome	Administrative Claims	Yale University			Yes	Yes	Yes			
386	Amyotrophic Lateral Sclerosis (ALS) Patient Care Preferences	Percentage of patients diagnosed with Amyotrophic Lateral Sclerosis (ALS) who were offered assistance in planning for end of life issues (e.g., advance directives, invasive ventilation, hospice) at least once annually	Process	Registry	American Academy of Neurology	Neurology			Yes	Yes		Yes <sup>1)</sup>	
354	Anastomotic Leak Intervention	Percentage of patients aged 18 years and older who required an anastomotic leak intervention following gastric bypass or colectomy surgery	Outcome	Registry	American College of Surgeons	General Surgery		Yes	Yes			Yes <sup>1)</sup>	
404	Anesthesiology Smoking Abstinence	The percentage of current smokers who abstain from cigarettes prior to anesthesia on the day of elective surgery or procedure	Intermediate Outcome	Registry	American Society of Anesthesiologists	Anesthesiology			Yes				

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387	Annual Hepatitis C Virus (HCV) Screening for Patients who are Active Injection Drug Users	Percentage of patients, regardless of age, who are active injection drug users who received screening for HCV infection within the 12 month reporting period	Process	Registry	Physician Consortium for Performance Improvement	Internal Medicine, General Practice/Family Medicine	Yes		Yes	Yes		Yes <sup>1)</sup>	
9	Anti-Depressant Medication Management	Percentage of patients 18 years of age and older who were treated with antidepressant medication, had a diagnosis of major depression, and who remained on an antidepressant medication treatment. Two rates are reported. a. Percentage of patients who remained on an antidepressant medication for at least 84 days (12 weeks). b. Percentage of patients who remained on an antidepressant medication for at least 180 days (6 months).	Process	EHR	National Committee for Quality Assurance	Internal Medicine, Mental/Behavioral Health, General Practice/Family Medicine		Yes	Yes	Yes	Yes		
421	Appropriate Assessment of Retrievable Inferior Vena Cava (IVC) Filters for Removal	Percentage of patients in whom a retrievable IVC filter is placed who, within 3 months post-placement, have a documented assessment for the appropriateness of continued filtration, device removal or the inability to contact the patient with at least two attempts	Process	Registry	Society of Interventional Radiology				Yes			Yes <sup>1)</sup>	
405	Appropriate Follow-up Imaging for Incidental Abdominal Lesions	Percentage of final reports for abdominal imaging studies for asymptomatic patients aged 18 years and older with one or more of the following noted incidentally with follow-up imaging recommended: Liver lesion <= 0.5 cm Cystic kidney lesion < 1.0 cm Adrenal lesion <= 1.0 cm	Process	Claims, Registry	American College of Radiology	Diagnostic Radiology		Yes	Yes			Yes <sup>1)</sup>	
406	Appropriate Follow-up Imaging for Incidental Thyroid Nodules in Patients	Percentage of final reports for computed tomography (CT), CT angiography (CTA) or magnetic resonance imaging (MRI) or magnetic resonance angiogram (MRA) studies of the chest or neck or ultrasound of the neck for patients aged 18 years and older with no known thyroid disease with a thyroid nodule < 1.0 cm noted incidentally with follow-up imaging recommended	Process	Claims, Registry	American College of Radiology	Diagnostic Radiology		Yes	Yes			Yes <sup>1)</sup>	
320	Appropriate Follow-Up Interval for Normal Colonoscopy in Average Risk Patients	Percentage of patients aged 50 to 75 years of age receiving a screening colonoscopy without biopsy or polypectomy who had a recommended follow-up interval of at least 10 years for repeat colonoscopy documented in their colonoscopy report	Process	Claims, Registry	American Gastroenterological Association	Gastroenterology		Yes	Yes	Yes		Yes <sup>1)</sup>	
66	Appropriate Testing for Children with Pharyngitis	Percentage of children 3-18 years of age who were diagnosed with pharyngitis, ordered an antibiotic and received a group A streptococcus (strep) test for the episode	Process	EHR, Registry	National Committee for Quality Assurance	Emergency Medicine, General Practice/Family Medicine, Pediatrics		Yes	Yes	Yes	Yes	Yes <sup>1)</sup>	
65	Appropriate Treatment for Children with Upper Respiratory Infection (URI)	Percentage of children 3 months-18 years of age who were diagnosed with upper respiratory infection (URI) and were not dispensed an antibiotic prescription on or three days after the episode	Process	EHR, Registry	National Committee for Quality Assurance	General Practice/Family Medicine, Pediatrics		Yes	Yes	Yes	Yes	Yes <sup>1)</sup>	
407	Appropriate Treatment of Methicillin-Sensitive Staphylococcus Aureus (MSSA) Bacteremia	Percentage of patients with sepsis due to MSSA bacteremia who received beta-lactam antibiotic (e.g. nafcillin, oxacillin or cefazolin) as definitive therapy	Process	Claims, Registry	Infectious Diseases Society of America	Hospitalists			Yes	Yes	Yes	Yes <sup>1)</sup>	
448	Appropriate Workup Prior to Endometrial Ablation	Percentage of women, aged 18 years and older, who undergo endometrial sampling or hysteroscopy with biopsy before undergoing an endometrial ablation	Process	Registry	Centers for Medicare & Medicaid Services	Obstetrics/Gynecology		Yes	Yes	Yes		Yes <sup>1)</sup>	
326	Atrial Fibrillation and Atrial Flutter: Chronic Anticoagulation Therapy	Percentage of patients aged 18 years and older with a diagnosis of nonvalvular atrial fibrillation (AF) or atrial flutter whose assessment of the specified thromboembolic risk factors indicate one or more high-risk factors or more than one moderate risk factor, as determined by CHADS2 risk stratification, who are prescribed warfarin OR another oral anticoagulant drug that is FDA approved for the prevention of thromboembolism	Process	Claims, Registry	American College of Cardiology	Internal Medicine, Cardiology, General Practice/Family Medicine		Yes	Yes	Yes		Yes <sup>1)</sup>	
116	Avoidance of Antibiotic Treatment in Adults With Acute Bronchitis	The percentage of adults 18-64 years of age with a diagnosis of acute bronchitis who were not dispensed an antibiotic prescription	Process	Registry	National Committee for Quality Assurance	Internal Medicine, Emergency Medicine, General Practice/Family Medicine		Yes	Yes	Yes	Yes	Yes <sup>1)</sup>	
249	Barrett's Esophagus	Percentage of esophageal biopsy reports that document the presence of Barrett's mucosa that also include a statement about dysplasia	Process	Claims, Registry	College of American Pathologists	Pathology			Yes	Yes		Yes <sup>1)</sup>	
440	Basal Cell Carcinoma (BCC)/Squamous Cell Carcinoma: Biopsy Reporting Time - Pathologist to Clinician	Percentage of biopsies with a diagnosis of cutaneous Basal Cell Carcinoma (BCC) and Squamous Cell Carcinoma (SCC) (including in situ disease) in which the pathologist communicates results to the clinician within 7 days of biopsy date	Process	Registry	American Academy of Dermatology				Yes	Yes		Yes <sup>1)</sup>	

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265	Biopsy Follow-Up	Percentage of new patients whose biopsy results have been reviewed and communicated to the primary care/referring physician and patient by the performing physician	Process	Registry	American Academy of Dermatology	Dermatology, Interventional Radiology, Obstetrics/Gynecology, Urology			Yes			Yes <sup>1)</sup>	
367	Bipolar Disorder and Major Depression: Appraisal for alcohol or chemical substance use	Percentage of patients with depression or bipolar disorder with evidence of an initial assessment that includes an appraisal for alcohol or chemical substance use	Process	EHR	Center for Quality Assessment and Improvement in Mental Health				Yes	Yes			
99	Breast Cancer Resection Pathology Reporting: pT Category (Primary Tumor) and pN Category (Regional Lymph Nodes) with Histologic Grade	Percentage of breast cancer resection pathology reports that include the pT category (primary tumor), the pN category (regional lymph nodes), and the histologic grade	Process	Claims, Registry	College of American Pathologists	Pathology			Yes	Yes		Yes <sup>1)</sup>	
112	Breast Cancer Screening	Percentage of women 50-74 years of age who had a mammogram to screen for breast cancer.	Process	Claims, CMS WI, EHR, Registry	National Committee for Quality Assurance	Internal Medicine, Obstetrics/Gynecology, Preventive Medicine, General Practice/Family Medicine		Yes	Yes			Yes <sup>1)</sup>	
321	CAHPS for MIPS Clinician/Group Survey	Getting timely care, appointments, and information; How well providers Communicate; Patient's Rating of Provider; Access to Specialists; Health Promotion & Education; Shared Decision Making; Health Status/Functional Status; Courteous and Helpful Office Staff; Care Coordination; Between Visit Communication; Helping Your to Take Medication as Directed; and Stewardship of Patient Resources	Patient Engagement/Experience	CSV	Agency for Healthcare Research & Quality	General Practice/Family Medicine							CAHPS
243	Cardiac Rehabilitation Patient Referral from an Outpatient Setting	Percentage of patients evaluated in an outpatient setting who within the previous 12 months have experienced an acute myocardial infarction (MI), coronary artery bypass graft (CABG) surgery, a percutaneous coronary intervention (PCI), cardiac valve surgery, or cardiac transplantation, or who have chronic stable angina (CSA) and have not already participated in an early outpatient cardiac rehabilitation/secondary prevention (CR) program for the qualifying event/diagnosis who were referred to a CR program	Process	Registry	American College of Cardiology Foundation		Yes		Yes	Yes		Yes <sup>1)</sup>	
322	Cardiac Stress Imaging Not Meeting Appropriate Use Criteria: Preoperative Evaluation in Low Risk Surgery Patients	Percentage of stress single-photon emission computed tomography (SPECT) myocardial perfusion imaging (MPI), stress echocardiogram (ECHO), cardiac computed tomography angiography (CCTA), or cardiac magnetic resonance (CMR) performed in low risk surgery patients 18 years or older for preoperative evaluation during the 12-month reporting period	Efficiency	Registry	American College of Cardiology	Cardiology	Yes	Yes	Yes			Yes <sup>1)</sup>	
323	Cardiac Stress Imaging Not Meeting Appropriate Use Criteria: Routine Testing After Percutaneous Coronary Intervention (PCI)	Percentage of all stress single-photon emission computed tomography (SPECT) myocardial perfusion imaging (MPI), stress echocardiogram (ECHO), cardiac computed tomography angiography (CCTA), and cardiovascular magnetic resonance (CMR) performed in patients aged 18 years and older routinely after percutaneous coronary intervention (PCI), with reference to timing of test after PCI and symptom status	Efficiency	Registry	American College of Cardiology	Cardiology		Yes				Yes <sup>1)</sup>	
324	Cardiac Stress Imaging Not Meeting Appropriate Use Criteria: Testing in Asymptomatic, Low-Risk Patients	Percentage of all stress single-photon emission computed tomography (SPECT) myocardial perfusion imaging (MPI), stress echocardiogram (ECHO), cardiac computed tomography angiography (CCTA), and cardiovascular magnetic resonance (CMR) performed in asymptomatic, low coronary heart disease (CHD) risk patients 18 years and older for initial detection and risk assessment	Efficiency	Registry	American College of Cardiology	Cardiology		Yes				Yes <sup>1)</sup>	

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47	Care Plan	Percentage of patients aged 65 years and older who have an advance care plan or surrogate decision maker documented in the medical record or documentation in the medical record that an advance care plan was discussed but the patient did not wish or was not able to name a surrogate decision maker or provide an advance care plan	Process	Claims,Registry	National Committee for Quality Assurance	Internal Medicine,Cardiology, Emergency Medicine,Gastroenterology,General Surgery,General Oncology,Hospitalists, Neurology,Obstetrics/ Gynecology,Ophthalmology,Orthopedic Surgery,Otolaryngology,Physical Medicine,Preventive Medicine,Rheumatology,Thoracic Surgery,Urology,Vascular Surgery,Mental/Behavioral Health,Plastic Surgery,General Practice/Family Medicine		Yes	Yes			Yes <sup>1)</sup>	
388	Cataract Surgery with Intra-Operative Complications (Unplanned Rupture of Posterior Capsule Requiring Unplanned Vitrectomy)	Percentage of patients aged 18 years and older who had cataract surgery performed and had an unplanned rupture of the posterior capsule requiring vitrectomy	Outcome	Registry	American Academy of Ophthalmology	Ophthalmology		Yes	Yes			Yes <sup>1)</sup>	
389	Cataract Surgery: Difference Between Planned and Final Refraction	Percentage of patients aged 18 years and older who had cataract surgery performed and who achieved a final refraction within +/- 1.0 diopters of their planned (target) refraction	Outcome	Registry	American Academy of Ophthalmology	Ophthalmology		Yes	Yes			Yes <sup>1)</sup>	
191	Cataracts: 20/40 or Better Visual Acuity within 90 Days Following Cataract Surgery	Percentage of patients aged 18 years and older with a diagnosis of uncomplicated cataract who had cataract surgery and no significant ocular conditions impacting the visual outcome of surgery and had best-corrected visual acuity of 20/40 or better (distance or near) achieved within 90 days following the cataract surgery	Outcome	EHR,Registry	Physician Consortium for Performance Improvement	Ophthalmology		Yes	Yes			Yes <sup>1)</sup>	
192	Cataracts: Complications within 30 Days Following Cataract Surgery Requiring Additional Surgical Procedures	Percentage of patients aged 18 years and older with a diagnosis of uncomplicated cataract who had cataract surgery and had any of a specified list of surgical procedures in the 30 days following cataract surgery which would indicate the occurrence of any of the following major complications: retained nuclear fragments, endophthalmitis, dislocated or wrong power IOL, retinal detachment, or wound dehiscence	Outcome	EHR,Registry	Physician Consortium for Performance Improvement	Ophthalmology		Yes	Yes	Yes		Yes <sup>1)</sup>	
303	Cataracts: Improvement in Patient's Visual Function within 90 Days Following Cataract Surgery	Percentage of patients aged 18 years and older who had cataract surgery and had improvement in visual function achieved within 90 days following the cataract surgery, based on completing a pre-operative and post-operative visual function survey	Outcome	Registry	American Academy of Ophthalmology	Ophthalmology		Yes	Yes			Yes <sup>1)</sup>	
304	Cataracts: Patient Satisfaction within 90 Days Following Cataract Surgery	Percentage of patients aged 18 years and older who had cataract surgery and were satisfied with their care within 90 days following the cataract surgery, based on completion of the Consumer Assessment of Healthcare Providers and Systems Surgical Care Survey	Outcome	Registry	American Academy of Ophthalmology	Ophthalmology		Yes	Yes			Yes <sup>1)</sup>	
309	Cervical Cancer Screening	Percentage of women 21-64 years of age who were screened for cervical cancer using either of the following criteria: * Women age 21-64 who had cervical cytology performed every 3 years * Women age 30-64 who had cervical cytology/human papillomavirus (HPV) co-testing performed every 5 years	Process	EHR	National Committee for Quality Assurance	Obstetrics/Gynecology,General Practice/Family Medicine		Yes	Yes				
382	Child and Adolescent Major Depressive Disorder (MDD): Suicide Risk Assessment	Percentage of patient visits for those patients aged 6 through 17 years with a diagnosis of major depressive disorder with an assessment for suicide risk	Process	EHR	Physician Consortium for Performance Improvement	Mental/Behavioral Health,Pediatrics		Yes	Yes	Yes			

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240	Childhood Immunization Status	Percentage of children 2 years of age who had four diphtheria, tetanus and acellular pertussis (DTaP); three polio (IPV), one measles, mumps and rubella (MMR); three H influenza type B (HiB); three hepatitis B (Hep B); one chicken pox (VZV); four pneumococcal conjugate (PCV); one hepatitis A (Hep A); two or three rotavirus (RV); and two influenza (flu) vaccines by their second birthday	Process	EHR	National Committee for Quality Assurance	Pediatrics		Yes	Yes				
378	Children Who Have Dental Decay or Cavities	Percentage of children, age 0-20 years, who have had tooth decay or cavities during the measurement period	Outcome	EHR	Centers for Medicare & Medicaid Services			Yes	Yes	Yes			
447	Chlamydia Screening and Follow Up	The percentage of female adolescents 16 years of age who had a chlamydia screening test with proper follow-up during the measurement period	Process	Registry	National Committee for Quality Assurance	Obstetrics/Gynecology		Yes	Yes			Yes <sup>1)</sup>	
310	Chlamydia Screening for Women	Percentage of women 16-24 years of age who were identified as sexually active and who had at least one test for chlamydia during the measurement period	Process	EHR	National Committee for Quality Assurance	Obstetrics/Gynecology, Pediatrics		Yes	Yes	Yes			
52	Chronic Obstructive Pulmonary Disease (COPD): Long-Acting Inhaled Bronchodilator Therapy	Percentage of patients aged 18 years and older with a diagnosis of COPD (FEV1/FVC < 70%) and who have an FEV1 less than 60% predicted and have symptoms who were prescribed an long-acting inhaled bronchodilator	Process	Claims, Registry	American Thoracic Society			Yes	Yes	Yes		Yes <sup>1)</sup>	
51	Chronic Obstructive Pulmonary Disease (COPD): Spirometry Evaluation	Percentage of patients aged 18 years and older with a diagnosis of COPD who had spirometry results documented	Process	Claims, Registry	American Thoracic Society			Yes	Yes	Yes		Yes <sup>1)</sup>	
409	Clinical Outcome Post Endovascular Stroke Treatment	Percentage of patients with a mRs score of 0 to 2 at 90 days following endovascular stroke intervention	Outcome	Registry	Society of Interventional Radiology				Yes	Yes		Yes <sup>1)</sup>	
374	Closing the Referral Loop: Receipt of Specialist Report	Percentage of patients with referrals, regardless of age, for which the referring provider receives a report from the provider to whom the patient was referred	Process	EHR	Centers for Medicare & Medicaid Services	Allergy/Immunology, Cardiology, Dermatology, Emergency Medicine, Gastroenterology, General Surgery, General Oncology, Hospitalists, Neurology, Obstetrics/Gynecology, Ophthalmology, Orthopedic Surgery, Otolaryngology, Physical Medicine, Preventive Medicine, Rheumatology, Thoracic Surgery, Urology, Vascular Surgery, Mental/Behavioral Health, Plastic Surgery			Yes	Yes			
185	Colonoscopy Interval for Patients with a History of Adenomatous Polyps - Avoidance of Inappropriate Use	Percentage of patients aged 18 years and older receiving a surveillance colonoscopy, with a history of a prior adenomatous polyp(s) in previous colonoscopy findings, which had an interval of 3 or more years since their last colonoscopy	Process	Claims, Registry	American Gastroenterological Association	Gastroenterology		Yes	Yes	Yes		Yes <sup>1)</sup>	
100	Colorectal Cancer Resection Pathology Reporting: pT Category (Primary Tumor) and pN Category (Regional Lymph Nodes) with Histologic Grade	Percentage of colon and rectum cancer resection pathology reports that include the pT category (primary tumor), the pN category (regional lymph nodes) and the histologic grade	Process	Claims, Registry	College of American Pathologists	Pathology			Yes	Yes		Yes <sup>1)</sup>	
113	Colorectal Cancer Screening	Percentage of adults 50-75 years of age who had appropriate screening for colorectal cancer.	Process	Claims, CMS WI, EHR, Registry	National Committee for Quality Assurance	Internal Medicine, General Practice/Family Medicine	Yes	Yes	Yes			Yes <sup>1)</sup>	

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24	Communication with the Physician or Other Clinician Managing On-going Care Post-Fracture for Men and Women Aged 50 Years and Older	Percentage of patients aged 50 years and older treated for a fracture with documentation of communication, between the physician treating the fracture and the physician or other clinician managing the patient's on-going care, that a fracture occurred and that the patient was or should be considered for osteoporosis treatment or testing. This measure is reported by the physician who treats the fracture and who therefore is held accountable for the communication	Process	Claims,Registry	National Committee for Quality Assurance	Preventive Medicine		Yes	Yes	Yes		Yes <sup>1)</sup>	
236	Controlling High Blood Pressure	Percentage of patients 18-85 years of age who had a diagnosis of hypertension and whose blood pressure was adequately controlled (<140/90mmHg) during the measurement period	Intermediate Outcome	Claims,CMS WI,EHR,Registry	National Committee for Quality Assurance	Internal Medicine,Cardiology, Obstetrics/Gynecology,Preventive Medicine,Thoracic Surgery,Vascular Surgery,General Practice/Family Medicine	Yes	Yes	Yes	Yes		Yes <sup>1)</sup>	
165	Coronary Artery Bypass Graft (CABG): Deep Sternal Wound Infection Rate	Percentage of patients aged 18 years and older undergoing isolated CABG surgery who, within 30 days postoperatively, develop deep sternal wound infection involving muscle, bone, and/or mediastinum requiring operative intervention	Outcome	Registry	Society of Thoracic Surgeons	Thoracic Surgery		Yes	Yes			Yes <sup>1)</sup>	
167	Coronary Artery Bypass Graft (CABG): Postoperative Renal Failure	Percentage of patients aged 18 years and older undergoing isolated CABG surgery (without pre-existing renal failure) who develop postoperative renal failure or require dialysis	Outcome	Registry	Society of Thoracic Surgeons	Thoracic Surgery		Yes	Yes			Yes <sup>1)</sup>	
44	Coronary Artery Bypass Graft (CABG): Preoperative Beta-Blocker in Patients with Isolated CABG Surgery	Percentage of isolated Coronary Artery Bypass Graft (CABG) surgeries for patients aged 18 years and older who received a beta-blocker within 24 hours prior to surgical incision	Process	Registry	Centers for Medicare & Medicaid Services	Anesthesiology		Yes	Yes		Yes	Yes <sup>1)</sup>	
164	Coronary Artery Bypass Graft (CABG): Prolonged Intubation	Percentage of patients aged 18 years and older undergoing isolated CABG surgery who require postoperative intubation > 24 hours	Outcome	Registry	Society of Thoracic Surgeons	Thoracic Surgery		Yes	Yes			Yes <sup>1)</sup>	
166	Coronary Artery Bypass Graft (CABG): Stroke	Percentage of patients aged 18 years and older undergoing isolated CABG surgery who have a postoperative stroke (i.e., any confirmed neurological deficit of abrupt onset caused by a disturbance in blood supply to the brain) that did not resolve within 24 hours	Outcome	Registry	Society of Thoracic Surgeons	Thoracic Surgery		Yes	Yes			Yes <sup>1)</sup>	
168	Coronary Artery Bypass Graft (CABG): Surgical Re-Exploration	Percentage of patients aged 18 years and older undergoing isolated CABG surgery who require a return to the operating room (OR) during the current hospitalization for mediastinal bleeding with or without tamponade, graft occlusion, valve dysfunction, or other cardiac reason	Outcome	Registry	Society of Thoracic Surgeons	Thoracic Surgery		Yes	Yes			Yes <sup>1)</sup>	
43	Coronary Artery Bypass Graft (CABG): Use of Internal Mammary Artery (IMA) in Patients with Isolated CABG Surgery	Percentage of patients aged 18 years and older undergoing isolated CABG surgery who received an IMA graft	Process	Registry	Society of Thoracic Surgeons			Yes	Yes			Yes <sup>1)</sup>	
118	Coronary Artery Disease (CAD): Angiotensin-Converting Enzyme (ACE) Inhibitor or Angiotensin Receptor Blocker (ARB) Therapy - Diabetes or Left Ventricular Systolic Dysfunction (LVEF < 40%)	Percentage of patients aged 18 years and older with a diagnosis of coronary artery disease seen within a 12 month period who also have diabetes OR a current or prior Left Ventricular Ejection Fraction (LVEF) < 40% who were prescribed ACE inhibitor or ARB therapy	Process	Registry	American Heart Association	Cardiology		Yes	Yes	Yes		Yes <sup>1)</sup>	
6	Coronary Artery Disease (CAD): Antiplatelet Therapy	Percentage of patients aged 18 years and older with a diagnosis of coronary artery disease (CAD) seen within a 12 month period who were prescribed aspirin or clopidogrel	Process	Registry	American Heart Association	Cardiology	Yes	Yes	Yes	Yes		Yes <sup>1)</sup>	
7	Coronary Artery Disease (CAD): Beta-Blocker Therapy-Prior Myocardial Infarction (MI) or Left Ventricular Systolic Dysfunction (LVEF <40%)	Percentage of patients aged 18 years and older with a diagnosis of coronary artery disease seen within a 12 month period who also have a prior MI or a current or prior LVEF <40% who were prescribed beta-blocker therapy	Process	EHR,Registry	Physician Consortium for Performance Improvement	Cardiology,General Practice/Family Medicine	Yes	Yes	Yes	Yes		Yes <sup>1)</sup>	
288	Dementia: Caregiver Education and Support	Percentage of patients, regardless of age, with a diagnosis of dementia whose caregiver(s) were provided with education on dementia disease management and health behavior changes AND referred to additional resources for support within a 12 month period	Process	Registry	American Academy of Neurology	Neurology,Mental/Behavioral Health	Yes		Yes	Yes		Yes <sup>1)</sup>	

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281	Dementia: Cognitive Assessment	Percentage of patients, regardless of age, with a diagnosis of dementia for whom an assessment of cognition is performed and the results reviewed at least once within a 12 month period	Process	EHR	Physician Consortium for Performance Improvement	Neurology,Mental/Behavioral Health	Yes		Yes	Yes			
286	Dementia: Counseling Regarding Safety Concerns	Percentage of patients, regardless of age, with a diagnosis of dementia or their caregiver(s) who were counseled or referred for counseling regarding safety concerns within a 12 month period	Process	Registry	American Academy of Neurology	Neurology,Mental/Behavioral Health	Yes		Yes	Yes		Yes <sup>1)</sup>	
282	Dementia: Functional Status Assessment	Percentage of patients, regardless of age, with a diagnosis of dementia for whom an assessment of functional status is performed and the results reviewed at least once within a 12 month period	Process	Registry	American Academy of Neurology	Neurology,Mental/Behavioral Health	Yes		Yes	Yes		Yes <sup>1)</sup>	
284	Dementia: Management of Neuropsychiatric Symptoms	Percentage of patients, regardless of age, with a diagnosis of dementia who have one or more neuropsychiatric symptoms who received or were recommended to receive an intervention for neuropsychiatric symptoms within a 12 month period	Process	Registry	American Academy of Neurology	Neurology,Mental/Behavioral Health	Yes		Yes	Yes		Yes <sup>1)</sup>	
283	Dementia: Neuropsychiatric Symptom Assessment	Percentage of patients, regardless of age, with a diagnosis of dementia and for whom an assessment of neuropsychiatric symptoms is performed and results reviewed at least once in a 12 month period	Process	Registry	American Academy of Neurology	Neurology,Mental/Behavioral Health	Yes		Yes	Yes		Yes <sup>1)</sup>	
411	Depression Remission at Six Months	Adult patients age 18 years and older with major depression or dysthymia and an initial PHQ-9 score > 9 who demonstrate remission at six months defined as a PHQ-9 score less than 5. This measure applies to both patients with newly diagnosed and existing depression whose current PHQ-9 score indicates a need for treatment. This measure additionally promotes ongoing contact between the patient and provider as patients who do not have a follow-up PHQ-9 score at six months (+/- 30 days) are also included in the denominator	Outcome	Registry	Minnesota Community Measurement	Mental/Behavioral Health		Yes	Yes	Yes		Yes <sup>1)</sup>	
370	Depression Remission at Twelve Months	Patients age 18 and older with major depression or dysthymia and an initial Patient Health Questionnaire (PHQ-9) score greater than nine who demonstrate remission at twelve months (+/- 30 days after an index visit) defined as a PHQ-9 score less than five. This measure applies to both patients with newly diagnosed and existing depression whose current PHQ-9 score indicates a need for treatment.	Outcome	CMS WI,EHR,Registry	Minnesota Community Measurement	Mental/Behavioral Health,General Practice/Family Medicine	Yes	Yes	Yes	Yes		Yes <sup>1)</sup>	
371	Depression Utilization of the PHQ-9 Tool	Patients age 18 and older with the diagnosis of major depression or dysthymia who have a Patient Health Questionnaire (PHQ-9) tool administered at least once during a 4-month period in which there was a qualifying visit	Process	EHR	Minnesota Community Measurement	Mental/Behavioral Health		Yes	Yes	Yes			
126	Diabetes Mellitus: Diabetic Foot and Ankle Care, Peripheral Neuropathy - Neurological Evaluation	Percentage of patients aged 18 years and older with a diagnosis of diabetes mellitus who had a neurological examination of their lower extremities within 12 months	Process	Registry	American Podiatric Medical Association		Yes	Yes	Yes	Yes		Yes <sup>1)</sup>	
127	Diabetes Mellitus: Diabetic Foot and Ankle Care, Ulcer Prevention - Evaluation of Footwear	Percentage of patients aged 18 years and older with a diagnosis of diabetes mellitus who were evaluated for proper footwear and sizing	Process	Registry	American Podiatric Medical Association			Yes	Yes	Yes		Yes <sup>1)</sup>	
117	Diabetes: Eye Exam	Percentage of patients 18-75 years of age with diabetes who had a retinal or dilated eye exam by an eye care professional during the measurement period or a negative retinal exam (no evidence of retinopathy) in the 12 months prior to the measurement period	Process	Claims,CMS WI,EHR,Registry	National Committee for Quality Assurance	Internal Medicine,Ophthalmology,General Practice/Family Medicine	Yes	Yes	Yes	Yes		Yes <sup>1)</sup>	
163	Diabetes: Foot Exam	The percentage of patients 18-75 years of age with diabetes (type 1 and type 2) who received a foot exam (visual inspection and sensory exam with mono filament and a pulse exam) during the measurement year	Process	EHR	National Committee for Quality Assurance	Internal Medicine,General Practice/Family Medicine		Yes	Yes	Yes			
1	Diabetes: Hemoglobin A1c (HbA1c) Poor Control (>9%)	Percentage of patients 18-75 years of age with diabetes who had hemoglobin A1c > 9.0% during the measurement period	Intermediate Outcome	Claims,CMS WI,EHR,Registry	National Committee for Quality Assurance	Internal Medicine,Preventive Medicine,General Practice/Family Medicine		Yes	Yes	Yes		Yes <sup>1)</sup>	
119	Diabetes: Medical Attention for Nephropathy	The percentage of patients 18-75 years of age with diabetes who had a nephropathy screening test or evidence of nephropathy during the measurement period.	Process	EHR,Registry	National Committee for Quality Assurance	General Practice/Family Medicine		Yes	Yes	Yes		Yes <sup>1)</sup>	



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19	Diabetic Retinopathy: Communication with the Physician Managing Ongoing Diabetes Care	Percentage of patients aged 18 years and older with a diagnosis of diabetic retinopathy who had a dilated macular or fundus exam performed with documented communication to the physician who manages the ongoing care of the patient with diabetes mellitus regarding the findings of the macular or fundus exam at least once within 12 months	Process	Claims,EHR,Registry	Physician Consortium for Performance Improvement	Ophthalmology	Yes	Yes	Yes	Yes		Yes <sup>1)</sup>	
18	Diabetic Retinopathy: Documentation of Presence or Absence of Macular Edema and Level of Severity of Retinopathy	Percentage of patients aged 18 years and older with a diagnosis of diabetic retinopathy who had a dilated macular or fundus exam performed which included documentation of the level of severity of retinopathy and the presence or absence of macular edema during one or more office visits within 12 months	Process	EHR	Physician Consortium for Performance Improvement	Ophthalmology	Yes	Yes	Yes	Yes			
130	Documentation of Current Medications in the Medical Record	Percentage of visits for patients aged 18 years and older for which the eligible professional attests to documenting a list of current medications using all immediate resources available on the date of the encounter. This list must include ALL known prescriptions, over-the-counters, herbals, and vitamin/mineral/dietary (nutritional) supplements AND must contain the medications' name, dosage, frequency and route of administration.	Process	Claims,EHR,Registry	Centers for Medicare & Medicaid Services	Allergy/Immunology,Internal Medicine,Anesthesiology,Cardiology,Dermatology,Emergency Medicine,Gastroenterology,General Surgery,General Oncology,Hospitalists,Neurology,Obstetrics/Gynecology,Ophthalmology,Orthopedic Surgery,Otolaryngology,Physical Medicine,Preventive Medicine,Rheumatology,Thoracic Surgery,Urology,Vascular Surgery,Mental/Behavioral Health,Plastic Surgery,General Practice/Family Medicine	Yes	Yes	Yes			Yes <sup>1)</sup>	
412	Documentation of Signed Opioid Treatment Agreement	All patients 18 and older prescribed opiates for longer than six weeks duration who signed an opioid treatment agreement at least once during Opioid Therapy documented in the medical record.	Process	Registry	American Academy of Neurology	Internal Medicine,Neurology,Physical Medicine,General Practice/Family Medicine		Yes	Yes			Yes <sup>1)</sup>	
413	Door to Puncture Time for Endovascular Stroke Treatment	Percentage of patients undergoing endovascular stroke treatment who have a door to puncture time of less than two hours	Intermediate Outcome	Registry	Society of Interventional Radiology				Yes	Yes		Yes <sup>1)</sup>	
181	Elder Maltreatment Screen and Follow-Up Plan	Percentage of patients aged 65 years and older with a documented elder maltreatment screen using an Elder Maltreatment Screening tool on the date of encounter AND a documented follow-up plan on the date of the positive screen	Process	Claims,Registry	Centers for Medicare & Medicaid Services	Internal Medicine,Mental/Behavioral Health,General Practice/Family Medicine		Yes	Yes			Yes <sup>1)</sup>	
415	Emergency Medicine: Emergency Department Utilization of CT for Minor Blunt Head Trauma for Patients Aged 18 Years and Older	Percentage of emergency department visits for patients aged 18 years and older who presented within 24 hours of a minor blunt head trauma with a Glasgow Coma Scale (GCS) score of 15 and who had a head CT for trauma ordered by an emergency care provider who have an indication for a head CT	Efficiency	Claims,Registry	American College of Emergency Physicians	Emergency Medicine		Yes	Yes	Yes		Yes <sup>1)</sup>	

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416	Emergency Medicine: Emergency Department Utilization of CT for Minor Blunt Head Trauma for Patients Aged 2 Through 17 Years	Percentage of emergency department visits for patients aged 2 through 17 years who presented within 24 hours of a minor blunt head trauma with a Glasgow Coma Scale (GCS) score of 15 and who had a head CT for trauma ordered by an emergency care provider who are classified as low risk according to the Pediatric Emergency Care Applied Research Network (PECARN) prediction rules for traumatic brain injury	Efficiency	Claims,Registry	American College of Emergency Physicians	Emergency Medicine		Yes	Yes	Yes		Yes <sup>1)</sup>	
268	Epilepsy: Counseling for Women of Childbearing Potential with Epilepsy	All female patients of childbearing potential (12 - 44 years old) diagnosed with epilepsy who were counseled or referred for counseling for how epilepsy and its treatment may affect contraception OR pregnancy at least once a year	Process	Claims,Registry	American Academy of Neurology	Neurology		Yes	Yes	Yes		Yes <sup>1)</sup>	
414	Evaluation or Interview for Risk of Opioid Misuse	All patients 18 and older prescribed opiates for longer than six weeks duration evaluated for risk of opioid misuse using a brief validated instrument (e.g. Opioid Risk Tool, SOAPP-R) or patient interview documented at least once during Opioid Therapy in the medical record	Process	Registry	American Academy of Neurology	Internal Medicine,Neurology,Physical Medicine,General Practice/Family Medicine		Yes	Yes			Yes <sup>1)</sup>	
155	Falls: Plan of Care	Percentage of patients aged 65 years and older with a history of falls that had a plan of care for falls documented within 12 months	Process	Claims,Registry	National Committee for Quality Assurance	Internal Medicine,General Practice/Family Medicine	Yes	Yes	Yes			Yes <sup>1)</sup>	
154	Falls: Risk Assessment	Percentage of patients aged 65 years and older with a history of falls that had a risk assessment for falls completed within 12 months	Process	Claims,Registry	National Committee for Quality Assurance	Internal Medicine,General Practice/Family Medicine	Yes	Yes	Yes	Yes			
318	Falls: Screening for Future Fall Risk	Percentage of patients 65 years of age and older who were screened for future fall risk during the measurement period.	Process	CMS WI,EHR	National Committee for Quality Assurance		Yes	Yes	Yes				
391	Follow-Up After Hospitalization for Mental Illness (FUH)	The percentage of discharges for patients 6 years of age and older who were hospitalized for treatment of selected mental illness diagnoses and who had an outpatient visit, an intensive outpatient encounter or partial hospitalization with a mental health practitioner. Two rates are reported: The percentage of discharges for which the patient received follow-up within 30 days of discharge. The percentage of discharges for which the patient received follow-up within 7 days of discharge	Process	Registry	National Committee for Quality Assurance	Mental/Behavioral Health,Pediatrics		Yes	Yes	Yes		Yes <sup>1)</sup>	
182	Functional Outcome Assessment	Percentage of visits for patients aged 18 years and older with documentation of a current functional outcome assessment using a standardized functional outcome assessment tool on the date of the encounter AND documentation of a care plan based on identified functional outcome deficiencies on the date of the identified deficiencies	Process	Claims,Registry	Centers for Medicare & Medicaid Services	Physical Medicine		Yes	Yes			Yes <sup>1)</sup>	
376	Functional Status Assessment for Total Hip Replacement	Percentage of patients 18 years of age and older with primary total hip arthroplasty (THA) who completed baseline and follow-up patient-reported functional status assessments	Process	EHR	Centers for Medicare & Medicaid Services	Orthopedic Surgery		Yes	Yes	Yes			
375	Functional Status Assessment for Total Knee Replacement	Percentage of patients 18 years of age and older with primary total knee arthroplasty (TKA) who completed baseline and follow-up patient-reported functional status assessments	Process	EHR	Centers for Medicare & Medicaid Services	Orthopedic Surgery		Yes	Yes	Yes			
377	Functional Status Assessments for Congestive Heart Failure	Percentage of patients 65 years of age and older with congestive heart failure who completed initial and follow-up patient-reported functional status assessments	Process	EHR	Centers for Medicare & Medicaid Services			Yes	Yes	Yes			
222	Functional Status Change for Patients with Elbow, Wrist or Hand Impairments	A self-report outcome measure of functional status (FS) for patients 14 years+ with elbow, wrist or hand impairments. The change in FS assessed using FOTO (elbow, wrist and hand) PROM (patient reported outcomes measure) is adjusted to patient characteristics known to be associated with FS outcomes (risk adjusted) and used as a performance measure at the patient level, at the individual clinician, and at the clinic level to assess quality	Outcome	Registry	Focus on Therapeutic Outcomes, Inc.			Yes	Yes			Yes <sup>1)</sup>	

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219	Functional Status Change for Patients with Foot or Ankle Impairments	A self-report measure of change in functional status (FS) for patients 14 years+ with foot and ankle impairments. The change in functional status (FS) assessed using FOTO's (foot and ankle) PROM (patient reported outcomes measure) is adjusted to patient characteristics known to be associated with FS outcomes (risk adjusted) and used as a performance measure at the patient level, at the individual clinician, and at the clinic level to assess quality	Outcome	Registry	Focus on Therapeutic Outcomes, Inc.			Yes	Yes			Yes <sup>1)</sup>	
223	Functional Status Change for Patients with General Orthopaedic Impairments	A self-report outcome measure of functional status (FS) for patients 14 years+ with general orthopaedic impairments (neck, cranium, mandible, thoracic spine, ribs or other general orthopaedic impairment). The change in FS assessed using FOTO (general orthopaedic) PROM (patient reported outcomes measure) is adjusted to patient characteristics known to be associated with FS outcomes (risk adjusted) and used as a performance measure at the patient level, at the individual clinician, and at the clinic level by to assess quality	Outcome	Registry	Focus on Therapeutic Outcomes, Inc.			Yes	Yes			Yes <sup>1)</sup>	
218	Functional Status Change for Patients with Hip Impairments	A self-report measure of change in functional status (FS) for patients 14 years+ with hip impairments. The change in functional status (FS) assessed using FOTO's (hip) PROM (patient- reported outcomes measure) is adjusted to patient characteristics known to be associated with FS outcomes (risk adjusted) and used as a performance measure at the patient level, at the individual clinician, and at the clinic level to assess quality	Outcome	Registry	Focus on Therapeutic Outcomes, Inc.			Yes	Yes			Yes <sup>1)</sup>	
217	Functional Status Change for Patients with Knee Impairments	A self-report measure of change in functional status for patients 14 year+ with knee impairments. The change in functional status (FS) assessed using FOTO's (knee ) PROM (patient-reported outcomes measure) is adjusted to patient characteristics known to be associated with FS outcomes (risk adjusted) and used as a performance measure at the patient level, at the individual clinician, and at the clinic level to assess quality	Outcome	Registry	Focus on Therapeutic Outcomes, Inc.			Yes	Yes			Yes <sup>1)</sup>	
220	Functional Status Change for Patients with Lumbar Impairments	A self-report outcome measure of change in functional status for patients 14 years+ with lumbar impairments. The change in functional status (FS) assessed using FOTO (lumbar) PROM (patient reported outcome measure) is adjusted to patient characteristics known to be associated with FS outcomes (risk adjusted) and used as a performance measure at the patient level, at the individual clinician, and at the clinic level by to assess quality	Outcome	Registry	Focus on Therapeutic Outcomes, Inc.			Yes	Yes			Yes <sup>1)</sup>	
221	Functional Status Change for Patients with Shoulder Impairments	A self-report outcome measure of change in functional status (FS) for patients 14 years+ with shoulder impairments. The change in functional status (FS) assessed using FOTO's (shoulder) PROM (patient reported outcomes measure) is adjusted to patient characteristics known to be associated with FS outcomes (risk adjusted) and used as a performance measure at the patient level, at the individual clinician, and at the clinic level to assess quality	Outcome	Registry	Focus on Therapeutic Outcomes, Inc.			Yes	Yes			Yes <sup>1)</sup>	
5	Heart Failure (HF): Angiotensin-Converting Enzyme (ACE) Inhibitor or Angiotensin Receptor Blocker (ARB) Therapy for Left Ventricular Systolic Dysfunction (LVSD)	Percentage of patients aged 18 years and older with a diagnosis of heart failure (HF) with a current or prior left ventricular ejection fraction (LVEF) < 40% who were prescribed ACE inhibitor or ARB therapy either within a 12 month period when seen in the outpatient setting OR at each hospital discharge	Process	EHR,Registry	Physician Consortium for Performance Improvement	Internal Medicine,Cardiology, Hospitalists,General Practice/Family Medicine	Yes	Yes	Yes	Yes		Yes <sup>1)</sup>	
8	Heart Failure (HF): Beta-Blocker Therapy for Left Ventricular Systolic Dysfunction (LVSD)	Percentage of patients aged 18 years and older with a diagnosis of heart failure (HF) with a current or prior left ventricular ejection fraction (LVEF) < 40% who were prescribed beta-blocker therapy either within a 12 month period when seen in the outpatient setting OR at each hospital discharge	Process	EHR,Registry	Physician Consortium for Performance Improvement	Cardiology,Hospitalists,General Practice/Family Medicine	Yes	Yes	Yes	Yes		Yes <sup>1)</sup>	
70	Hematology: Chronic Lymphocytic Leukemia (CLL): Baseline Flow Cytometry	Percentage of patients aged 18 years and older, seen within a 12 month reporting period, with a diagnosis of chronic lymphocytic leukemia (CLL) made at any time during or prior to the reporting period who had baseline flow cytometry studies performed and documented in the chart	Process	Registry	Physician Consortium for Performance Improvement			Yes	Yes	Yes		Yes <sup>1)</sup>	
69	Hematology: Multiple Myeloma: Treatment with Bisphosphonates	Percentage of patients aged 18 years and older with a diagnosis of multiple myeloma, not in remission, who were prescribed or received intravenous bisphosphonate therapy within the 12 month reporting period	Process	Registry	American Society of Hematology		Yes	Yes	Yes	Yes		Yes <sup>1)</sup>	

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67	Hematology: Myelodysplastic Syndrome (MDS) and Acute Leukemias: Baseline Cytogenetic Testing Performed on Bone Marrow	Percentage of patients aged 18 years and older with a diagnosis of myelodysplastic syndrome (MDS) or an acute leukemia who had baseline cytogenetic testing performed on bone marrow	Process	Registry	American Society of Hematology			Yes	Yes	Yes		Yes <sup>1)</sup>	
68	Hematology: Myelodysplastic Syndrome (MDS): Documentation of Iron Stores in Patients Receiving Erythropoietin Therapy	Percentage of patients aged 18 years and older with a diagnosis of myelodysplastic syndrome (MDS) who are receiving erythropoietin therapy with documentation of iron stores within 60 days prior to initiating erythropoietin therapy	Process	Registry	American Society of Hematology			Yes	Yes	Yes		Yes <sup>1)</sup>	
390	Hepatitis C: Discussion and Shared Decision Making Surrounding Treatment Options	Percentage of patients aged 18 years and older with a diagnosis of hepatitis C with whom a physician or other qualified healthcare professional reviewed the range of treatment options appropriate to their genotype and demonstrated a shared decision making approach with the patient. To meet the measure, there must be documentation in the patient record of a discussion between the physician or other qualified healthcare professional and the patient that includes all of the following: treatment choices appropriate to genotype, risks and benefits, evidence of effectiveness, and patient preferences toward treatment	Process	Registry	American Gastroenterological Association	Gastroenterology		Yes	Yes	Yes		Yes <sup>1)</sup>	
401	Hepatitis C: Screening for Hepatocellular Carcinoma (HCC) in Patients with Cirrhosis	Percentage of patients aged 18 years and older with a diagnosis of chronic hepatitis C cirrhosis who underwent imaging with either ultrasound, contrast enhanced CT or MRI for hepatocellular carcinoma (HCC) at least once within the 12 month reporting period	Process	Registry	American Gastroenterological Association	Internal Medicine, Gastroenterology, General Practice/Family Medicine	Yes	Yes	Yes	Yes		Yes <sup>1)</sup>	
449	HER2 Negative or Undocumented Breast Cancer Patients Spared Treatment with HER2-Targeted Therapies	Proportion of female patients (aged 18 years and older) with breast cancer who are human epidermal growth factor receptor 2 (HER2)/neu negative who are not administered HER2-targeted therapies	Process	Registry	American Society of Clinical Oncology	General Oncology		Yes	Yes	Yes		Yes <sup>1)</sup>	
340	HIV Medical Visit Frequency	Percentage of patients, regardless of age with a diagnosis of HIV who had at least one medical visit in each 6 month period of the 24 month measurement period, with a minimum of 60 days between medical visits	Process	Registry	Health Resources and Services Administration				Yes	Yes		Yes <sup>1)</sup>	
338	HIV Viral Load Suppression	The percentage of patients, regardless of age, with a diagnosis of HIV with a HIV viral load less than 200 copies/mL at last HIV viral load test during the measurement year	Outcome	Registry	Health Resources and Services Administration	General Practice/Family Medicine			Yes	Yes		Yes <sup>1)</sup>	
160	HIV/AIDS: Pneumocystis Jiroveci Pneumonia (PCP) Prophylaxis	Percentage of patients aged 6 weeks and older with a diagnosis of HIV/AIDS who were prescribed Pneumocystis jiroveci pneumonia (PCP) prophylaxis	Process	EHR	National Committee for Quality Assurance	Allergy/Immunology, Pediatrics		Yes	Yes	Yes	Yes		
205	HIV/AIDS: Sexually Transmitted Disease Screening for Chlamydia, Gonorrhea, and Syphilis	Percentage of patients aged 13 years and older with a diagnosis of HIV/AIDS for whom chlamydia, gonorrhea, and syphilis screenings were performed at least once since the diagnosis of HIV infection	Process	Registry	National Committee for Quality Assurance	Pediatrics		Yes	Yes	Yes		Yes <sup>1)</sup>	
392	HRS-12: Cardiac Tamponade and/or Pericardiocentesis Following Atrial Fibrillation Ablation	Rate of cardiac tamponade and/or pericardiocentesis following atrial fibrillation ablation This measure is reported as four rates stratified by age and gender: Reporting Age Criteria 1: Females 18-64 years of age Reporting Age Criteria 2: Males 18-64 years of age Reporting Age Criteria 3: Females 65 years of age and older Reporting Age Criteria 4: Males 65 years of age and older	Outcome	Registry	The Heart Rhythm Society	Electrophysiology Cardiac Specialist		Yes		Yes		Yes <sup>1)</sup>	
348	HRS-3: Implantable Cardioverter-Defibrillator (ICD) Complications Rate	Patients with physician-specific risk-standardized rates of procedural complications following the first time implantation of an ICD	Outcome	Registry	The Heart Rhythm Society	Electrophysiology Cardiac Specialist			Yes	Yes		Yes <sup>1)</sup>	
393	HRS-9: Infection within 180 Days of Cardiac Implantable Electronic Device (CIED) Implantation, Replacement, or Revision	Infection rate following CIED device implantation, replacement, or revision	Outcome	Registry	The Heart Rhythm Society	Electrophysiology Cardiac Specialist			Yes	Yes		Yes <sup>1)</sup>	
373	Hypertension: Improvement in Blood Pressure	Percentage of patients aged 18-85 years of age with a diagnosis of hypertension whose blood pressure improved during the measurement period.	Intermediate Outcome	EHR	Centers for Medicare & Medicaid Services			Yes	Yes	Yes			

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262	Image Confirmation of Successful Excision of Image-Localized Breast Lesion	Image confirmation of lesion(s) targeted for image guided excisional biopsy or image guided partial mastectomy in patients with nonpalpable, image-detected breast lesion(s). Lesions may include: microcalcifications, mammographic or sonographic mass or architectural distortion, focal suspicious abnormalities on magnetic resonance imaging (MRI) or other breast imaging amenable to localization such as positron emission tomography (PET) mammography, or a biopsy marker demarcating site of confirmed pathology as established by previous core biopsy	Process	Registry	American Society of Breast Surgeons				Yes	Yes		Yes <sup>1)</sup>	
394	Immunizations for Adolescents	The percentage of adolescents 13 years of age who had the recommended immunizations by their 13th birthday	Process	Registry	National Committee for Quality Assurance	General Practice/Family Medicine, Pediatrics		Yes	Yes			Yes <sup>1)</sup>	
275	Inflammatory Bowel Disease (IBD): Assessment of Hepatitis B Virus (HBV) Status Before Initiating Anti-TNF (Tumor Necrosis Factor) Therapy	Percentage of patients aged 18 years and older with a diagnosis of inflammatory bowel disease (IBD) who had Hepatitis B Virus (HBV) status assessed and results interpreted within one year prior to receiving a first course of anti-TNF (tumor necrosis factor) therapy	Process	Registry	American Gastroenterological Association	Gastroenterology		Yes	Yes	Yes		Yes <sup>1)</sup>	
271	Inflammatory Bowel Disease (IBD): Preventive Care: Corticosteroid Related Iatrogenic Injury - Bone Loss Assessment	Percentage of patients aged 18 years and older with an inflammatory bowel disease encounter who were prescribed prednisone equivalents greater than or equal to 10 mg/day for 60 or greater consecutive days or a single prescription equating to 600 mg prednisone or greater for all fills and were documented for risk of bone loss once during the reporting year or the previous calendar year	Process	Registry	American Gastroenterological Association	Gastroenterology		Yes	Yes	Yes	Yes	Yes <sup>1)</sup>	
305	Initiation and Engagement of Alcohol and Other Drug Dependence Treatment	Percentage of patients 13 years of age and older with a new episode of alcohol and other drug (AOD) dependence who received the following. Two rates are reported. a. Percentage of patients who initiated treatment within 14 days of the diagnosis. b. Percentage of patients who initiated treatment and who had two or more additional services with an AOD diagnosis within 30 days of the initiation visit.	Process	EHR	National Committee for Quality Assurance			Yes	Yes	Yes			
441	Ischemic Vascular Disease (IVD) All or None Outcome Measure (Optimal Control)	The IVD All-or-None Measure is one outcome measure (optimal control). The measure contains four goals. All four goals within a measure must be reached in order to meet that measure. The numerator for the all-or-none measure should be collected from the organization's total IVD denominator. All-or-None Outcome Measure (Optimal Control) - Using the IVD denominator optimal results include: Most recent blood pressure (BP) measurement is less than 140/90 mm Hg -- And Most recent tobacco status is Tobacco Free -- And Daily Aspirin or Other Antiplatelet Unless Contraindicated -- And Statin Use	Intermediate Outcome	Registry	Wisconsin Collaborative for Healthcare Quality				Yes	Yes		Yes <sup>1)</sup>	
204	Ischemic Vascular Disease (IVD): Use of Aspirin or Another Antiplatelet	Percentage of patients 18 years of age and older who were diagnosed with acute myocardial infarction (AMI), coronary artery bypass graft (CABG) or percutaneous coronary interventions (PCI) in the 12 months prior to the measurement period, or who had an active diagnosis of ischemic vascular disease (IVD) during the measurement period, and who had documentation of use of aspirin or another antiplatelet during the measurement period.	Process	Claims, CMS WI, Registry	National Committee for Quality Assurance	Internal Medicine, Cardiology, General Practice/Family Medicine	Yes	Yes	Yes	Yes		Yes <sup>1)</sup>	
451	KRAS Gene Mutation Testing Performed for Patients with Metastatic Colorectal Cancer who receive Anti-epidermal Growth Factor Receptor (EGFR) Monoclonal Antibody Therapy	Percentage of adult patients (aged 18 or over) with metastatic colorectal cancer who receive anti-epidermal growth factor receptor monoclonal antibody therapy for whom KRAS gene mutation testing was performed	Process	Registry	American Society of Clinical Oncology	General Oncology		Yes	Yes	Yes		Yes <sup>1)</sup>	
395	Lung Cancer Reporting (Biopsy/Cytology Specimens)	Pathology reports based on biopsy and/or cytology specimens with a diagnosis of primary non-small cell lung cancer classified into specific histologic type or classified as NSCLC-NOS with an explanation included in the pathology report	Outcome	Claims, Registry	College of American Pathologists	Pathology			Yes	Yes		Yes <sup>1)</sup>	
396	Lung Cancer Reporting (Resection Specimens)	Pathology reports based on resection specimens with a diagnosis of primary lung carcinoma that include the pT category, pN category and for non-small cell lung cancer, histologic type	Outcome	Claims, Registry	College of American Pathologists	Pathology			Yes	Yes		Yes <sup>1)</sup>	
372	Maternal Depression Screening	The percentage of children who turned 6 months of age during the measurement year, who had a face-to-face visit between the clinician and the child during child's first 6 months, and who had a maternal depression screening for the mother at least once between 0 and 6 months of life.	Process	EHR	National Committee for Quality Assurance			Yes	Yes	Yes			

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335	Maternity Care: Elective Delivery or Early Induction Without Medical Indication at >= 37 and < 39 Weeks (Overuse)	Percentage of patients, regardless of age, who gave birth during a 12-month period who delivered a live singleton at >= 37 and < 39 weeks of gestation completed who had elective deliveries or early inductions without medical indication	Outcome	Registry	Centers for Medicare & Medicaid Services		Yes		Yes	Yes		Yes <sup>1)</sup>	
336	Maternity Care: Post-Partum Follow-Up and Care Coordination	Percentage of patients, regardless of age, who gave birth during a 12-month period who were seen for post-partum care within 8 weeks of giving birth who received a breast feeding evaluation and education, post-partum depression screening, post-partum glucose screening for gestational diabetes patients, and family and contraceptive planning	Process	Registry	Centers for Medicare & Medicaid Services		Yes		Yes	Yes		Yes <sup>1)</sup>	
444	Medication Management for People with Asthma	The percentage of patients 5-64 years of age during the measurement year who were identified as having persistent asthma and were dispensed appropriate medications that they remained on for at least 75% of their treatment period	Process	Registry	National Committee for Quality Assurance	Allergy/Immunology, General Practice/Family Medicine, Pediatrics	Yes	Yes	Yes	Yes	Yes	Yes <sup>1)</sup>	
46	Medication Reconciliation Post-Discharge	The percentage of discharges from any inpatient facility (e.g. hospital, skilled nursing facility, or rehabilitation facility) for patients 18 years and older of age seen within 30 days following discharge in the office by the physician, prescribing practitioner, registered nurse, or clinical pharmacist providing on-going care for whom the discharge medication list was reconciled with the current medication list in the outpatient medical record. This measure is reported as three rates stratified by age group: Reporting Criteria 1: 18-64 years of age Reporting Criteria 2: 65 years and older Total Rate: All patients 18 years of age and older	Process	Claims, CMS WI, Registry	National Committee for Quality Assurance			Yes	Yes			Yes <sup>1)</sup>	
397	Melanoma Reporting	Pathology reports for primary malignant cutaneous melanoma that include the pT category and a statement on thickness and ulceration and for pT1, mitotic rate	Outcome	Claims, Registry	College of American Pathologists	Pathology			Yes	Yes		Yes <sup>1)</sup>	
137	Melanoma: Continuity of Care - Recall System	Percentage of patients, regardless of age, with a current diagnosis of melanoma or a history of melanoma whose information was entered, at least once within a 12 month period, into a recall system that includes: A target date for the next complete physical skin exam, AND A process to follow up with patients who either did not make an appointment within the specified timeframe or who missed a scheduled appointment	Structure	Registry	American Academy of Dermatology	Dermatology	Yes		Yes	Yes		Yes <sup>1)</sup>	
138	Melanoma: Coordination of Care	Percentage of patient visits, regardless of age, with a new occurrence of melanoma who have a treatment plan documented in the chart that was communicated to the physician(s) providing continuing care within one month of diagnosis	Process	Registry	American Academy of Dermatology	Dermatology			Yes	Yes		Yes <sup>1)</sup>	
224	Melanoma: Overutilization of Imaging Studies in Melanoma	Percentage of patients, regardless of age, with a current diagnosis of Stage 0 through IIC melanoma or a history of melanoma of any stage, without signs or symptoms suggesting systemic spread, seen for an office visit during the one-year measurement period, for whom no diagnostic imaging studies were ordered	Process	Registry	American Academy of Dermatology	Dermatology			Yes	Yes		Yes <sup>1)</sup>	
443	Non-Recommended Cervical Cancer Screening in Adolescent Females	The percentage of adolescent females 16-20 years of age who were screened unnecessarily for cervical cancer	Process	Registry	National Committee for Quality Assurance	Obstetrics/Gynecology, General Practice/Family Medicine		Yes	Yes			Yes <sup>1)</sup>	
147	Nuclear Medicine: Correlation with Existing Imaging Studies for All Patients Undergoing Bone Scintigraphy	Percentage of final reports for all patients, regardless of age, undergoing bone scintigraphy that include physician documentation of correlation with existing relevant imaging studies (e.g., x-ray, MRI, CT, etc.) that were performed	Process	Claims, Registry	Society of Nuclear Medicine and Molecular Imaging	Diagnostic Radiology			Yes			Yes <sup>1)</sup>	
143	Oncology: Medical and Radiation - Pain Intensity Quantified	Percentage of patient visits, regardless of patient age, with a diagnosis of cancer currently receiving chemotherapy or radiation therapy in which pain intensity is quantified	Process	EHR, Registry	Physician Consortium for Performance Improvement	General Oncology, Radiation Oncology			Yes	Yes		Yes <sup>1)</sup>	
144	Oncology: Medical and Radiation - Plan of Care for Pain	Percentage of visits for patients, regardless of age, with a diagnosis of cancer currently receiving chemotherapy or radiation therapy who report having pain with a documented plan of care to address pain	Process	Registry	American Society of Clinical Oncology	Radiation Oncology			Yes	Yes		Yes <sup>1)</sup>	
156	Oncology: Radiation Dose Limits to Normal Tissues	Percentage of patients, regardless of age, with a diagnosis of breast, rectal, pancreatic or lung cancer receiving 3D conformal radiation therapy who had documentation in medical record that radiation dose limits to normal tissues were established prior to the initiation of a course of 3D conformal radiation for a minimum of two tissues	Process	Claims, Registry	American Society for Radiation Oncology	Radiation Oncology			Yes	Yes		Yes <sup>1)</sup>	

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400	One-Time Screening for Hepatitis C Virus (HCV) for Patients at Risk	Percentage of patients aged 18 years and older with one or more of the following: a history of injection drug use, receipt of a blood transfusion prior to 1992, receiving maintenance hemodialysis, OR birthdate in the years 1945-1965 who received one-time screening for hepatitis C virus (HCV) infection	Process	Registry	Physician Consortium for Performance Improvement	Internal Medicine, General Practice/Family Medicine		Yes	Yes			Yes <sup>1)</sup>	
446	Operative Mortality Stratified by the Five STS-EACTS Mortality Categories	Percent of patients undergoing index pediatric and/or congenital heart surgery who die, including both 1) all deaths occurring during the hospitalization in which the procedure was performed, even if after 30 days (including patients transferred to other acute care facilities), and 2) those deaths occurring after discharge from the hospital, but within 30 days of the procedure, stratified by the five STAT Mortality Levels, a multi-institutional validated complexity stratification tool	Outcome	Registry	Society of Thoracic Surgeons				Yes	Yes		Yes <sup>1)</sup>	
408	Opioid Therapy Follow-up Evaluation	All patients 18 and older prescribed opiates for longer than six weeks duration who had a follow-up evaluation conducted at least every three months during Opioid Therapy documented in the medical record	Process	Registry	American Academy of Neurology	Internal Medicine, Neurology, Physical Medicine, General Practice/Family Medicine		Yes	Yes			Yes <sup>1)</sup>	
398	Optimal Asthma Control	Composite measure of the percentage of pediatric and adult patients whose asthma is well-controlled as demonstrated by one of three age appropriate patient reported outcome tools and not at risk for exacerbation	Outcome	Registry	Minnesota Community Measurement	Allergy/Immunology, General Practice/Family Medicine			Yes	Yes		Yes <sup>1)</sup>	
364	Optimizing Patient Exposure to Ionizing Radiation: Appropriateness: Follow-up CT Imaging for Incidentally Detected Pulmonary Nodules According to Recommended Guidelines	Percentage of final reports for computed tomography (CT) imaging studies of the thorax for patients aged 18 years and older with documented follow-up recommendations for incidentally detected pulmonary nodules (e.g., follow-up CT imaging studies needed or that no follow-up is needed) based at a minimum on nodule size AND patient risk factors	Process	Registry	American College of Radiology	Diagnostic Radiology		Yes	Yes			Yes <sup>1)</sup>	
362	Optimizing Patient Exposure to Ionizing Radiation: Computed Tomography (CT) Images Available for Patient Follow-up and Comparison Purposes	Percentage of final reports for computed tomography (CT) studies performed for all patients, regardless of age, which document that Digital Imaging and Communications in Medicine (DICOM) format image data are available to non-affiliated external healthcare facilities or entities on a secure, media free, reciprocally searchable basis with patient authorization for at least a 12-month period after the study	Structure	Registry	American College of Radiology	Diagnostic Radiology			Yes			Yes <sup>1)</sup>	
360	Optimizing Patient Exposure to Ionizing Radiation: Count of Potential High Dose Radiation Imaging Studies: Computed Tomography (CT) and Cardiac Nuclear Medicine Studies	Percentage of computed tomography (CT) and cardiac nuclear medicine (myocardial perfusion studies) imaging reports for all patients, regardless of age, that document a count of known previous CT (any type of CT) and cardiac nuclear medicine (myocardial perfusion) studies that the patient has received in the 12-month period prior to the current study	Process	Registry	American College of Radiology	Diagnostic Radiology			Yes			Yes <sup>1)</sup>	
361	Optimizing Patient Exposure to Ionizing Radiation: Reporting to a Radiation Dose Index Registry	Percentage of total computed tomography (CT) studies performed for all patients, regardless of age, that are reported to a radiation dose index registry that is capable of collecting at a minimum selected data elements	Structure	Registry	American College of Radiology	Diagnostic Radiology			Yes			Yes <sup>1)</sup>	
363	Optimizing Patient Exposure to Ionizing Radiation: Search for Prior Computed Tomography (CT) Studies Through a Secure, Authorized, Media-Free, Shared Archive	Percentage of final reports of computed tomography (CT) studies performed for all patients, regardless of age, which document that a search for Digital Imaging and Communications in Medicine (DICOM) format images was conducted for prior patient CT imaging studies completed at non-affiliated external healthcare facilities or entities within the past 12-months and are available through a secure, authorized, media-free, shared archive prior to an imaging study being performed	Structure	Registry	American College of Radiology	Diagnostic Radiology	Yes		Yes			Yes <sup>1)</sup>	
359	Optimizing Patient Exposure to Ionizing Radiation: Utilization of a Standardized Nomenclature for Computed Tomography (CT) Imaging Description	Percentage of computed tomography (CT) imaging reports for all patients, regardless of age, with the imaging study named according to a standardized nomenclature and the standardized nomenclature is used in institution's computer systems	Process	Registry	American College of Radiology	Diagnostic Radiology			Yes			Yes <sup>1)</sup>	

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109	Osteoarthritis (OA): Function and Pain Assessment	Percentage of patient visits for patients aged 21 years and older with a diagnosis of osteoarthritis (OA) with assessment for function and pain	Process	Claims,Registry	American Academy of Orthopedic Surgeons	Internal Medicine,Orthopedic Surgery,Physical Medicine,Preventive Medicine,General Practice/Family Medicine		Yes	Yes	Yes		Yes <sup>1)</sup>	
418	Osteoporosis Management in Women Who Had a Fracture	The percentage of women age 50-85 who suffered a fracture and who either had a bone mineral density test or received a prescription for a drug to treat osteoporosis in the six months after the fracture	Process	Claims,Registry	National Committee for Quality Assurance	Internal Medicine,Obstetrics/Gynecology,General Practice/Family Medicine		Yes	Yes	Yes	Yes	Yes <sup>1)</sup>	
419	Overuse Of Neuroimaging For Patients With Primary Headache And A Normal Neurological Examination	Percentage of patients with a diagnosis of primary headache disorder whom advanced brain imaging was not ordered	Efficiency	Claims,Registry	American Academy of Neurology	Neurology			Yes	Yes		Yes <sup>1)</sup>	
131	Pain Assessment and Follow-Up	Percentage of visits for patients aged 18 years and older with documentation of a pain assessment using a standardized tool(s) on each visit AND documentation of a follow-up plan when pain is present	Process	Claims,Registry	Centers for Medicare & Medicaid Services	Physical Medicine		Yes	Yes	Yes		Yes <sup>1)</sup>	
342	Pain Brought Under Control Within 48 Hours	Patients aged 18 and older who report being uncomfortable because of pain at the initial assessment (after admission to palliative care services) that report pain was brought to a comfortable level within 48 hours	Outcome	Registry	National Hospice and Palliative Care Organization	General Practice/Family Medicine		Yes	Yes	Yes		Yes <sup>1)</sup>	
291	Parkinson's Disease: Cognitive Impairment or Dysfunction Assessment	All patients with a diagnosis of Parkinson's disease who were assessed for cognitive impairment or dysfunction in the last 12 months	Process	Registry	American Academy of Neurology	Neurology	Yes		Yes	Yes		Yes <sup>1)</sup>	
294	Parkinson's Disease: Parkinson's Disease Medical and Surgical Treatment Options Reviewed	All patients with a diagnosis of Parkinson's disease (or caregiver(s), as appropriate) who had the Parkinson's disease treatment options (e.g., non-pharmacological treatment, pharmacological treatment, or surgical treatment) reviewed at least annually	Process	Registry	American Academy of Neurology	Neurology			Yes	Yes		Yes <sup>1)</sup>	
290	Parkinson's Disease: Psychiatric Symptoms Assessment for Patients with Parkinson's Disease	All patients with a diagnosis of Parkinson's disease who were assessed for psychiatric symptoms (e.g., psychosis, depression, anxiety disorder, apathy, or impulse control disorder) in the last 12 months	Process	Registry	American Academy of Neurology	Neurology	Yes		Yes	Yes		Yes <sup>1)</sup>	
293	Parkinson's Disease: Rehabilitative Therapy Options	All patients with a diagnosis of Parkinson's Disease (or caregiver(s), as appropriate) who had rehabilitative therapy options (e.g., physical, occupational, or speech therapy) discussed in the last 12 months	Process	Registry	American Academy of Neurology	Neurology	Yes		Yes	Yes		Yes <sup>1)</sup>	
358	Patient-Centered Surgical Risk Assessment and Communication	Percentage of patients who underwent a non-emergency surgery who had their personalized risks of postoperative complications assessed by their surgical team prior to surgery using a clinical data-based, patient-specific risk calculator and who received personal discussion of those risks with the surgeon	Process	Registry	American College of Surgeons	General Surgery,Orthopedic Surgery,Otolaryngology,Thoracic Surgery,Urology,Plastic Surgery			Yes			Yes <sup>1)</sup>	
452	Patients with Metastatic Colorectal Cancer and KRAS Gene Mutation Spared Treatment with Anti-epidermal Growth Factor Receptor (EGFR) Monoclonal Antibodies	Percentage of adult patients (aged 18 or over) with metastatic colorectal cancer and KRAS gene mutation spared treatment with anti-EGFR monoclonal antibodies	Process	Registry	American Society of Clinical Oncology	General Oncology		Yes	Yes	Yes		Yes <sup>1)</sup>	
327	Pediatric Kidney Disease: Adequacy of Volume Management	Percentage of calendar months within a 12-month period during which patients aged 17 years and younger with a diagnosis of End Stage Renal Disease (ESRD) undergoing maintenance hemodialysis in an outpatient dialysis facility have an assessment of the adequacy of volume management from a nephrologist	Process	Registry	Renal Physicians Association		Yes	Yes	Yes	Yes		Yes <sup>1)</sup>	
328	Pediatric Kidney Disease: ESRD Patients Receiving Dialysis: Hemoglobin Level < 10 g/dL	Percentage of calendar months within a 12-month period during which patients aged 17 years and younger with a diagnosis of End Stage Renal Disease (ESRD) receiving hemodialysis or peritoneal dialysis have a hemoglobin level < 10 g/dL	Intermediate Outcome	Registry	Renal Physicians Association		Yes	Yes	Yes	Yes		Yes <sup>1)</sup>	
428	Pelvic Organ Prolapse: Preoperative Assessment of Occult Stress Urinary Incontinence	Percentage of patients undergoing appropriate preoperative evaluation of stress urinary incontinence prior to pelvic organ prolapse surgery per ACOG/AUGS/AUA guidelines	Process	Registry	American Urogynecologic Society				Yes	Yes		Yes <sup>1)</sup>	



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429	Pelvic Organ Prolapse: Preoperative Screening for Uterine Malignancy	Percentage of patients who are screened for uterine malignancy prior to vaginal closure or obliterative surgery for pelvic organ prolapse	Process	Claims,Registry	American Urogynecologic Society				Yes			Yes <sup>1)</sup>	
422	Performing Cystoscopy at the Time of Hysterectomy for Pelvic Organ Prolapse to Detect Lower Urinary Tract Injury	Percentage of patients who undergo cystoscopy to evaluate for lower urinary tract injury at the time of hysterectomy for pelvic organ prolapse	Process	Claims,Registry	American Urogynecologic Society	Obstetrics/Gynecology			Yes	Yes		Yes <sup>1)</sup>	
423	Perioperative Anti-platelet Therapy for Patients Undergoing Carotid Endarterectomy	Percentage of patients undergoing carotid endarterectomy (CEA) who are taking an anti-platelet agent within 48 hours prior to surgery and are prescribed this medication at hospital discharge following surgery	Process	Claims,Registry	Society for Vascular Surgeons				Yes		Yes	Yes <sup>1)</sup>	
21	Perioperative Care: Selection of Prophylactic Antibiotic - First OR Second Generation Cephalosporin	Percentage of surgical patients aged 18 years and older undergoing procedures with the indications for a first OR second generation cephalosporin prophylactic antibiotic who had an order for a first OR second generation cephalosporin for antimicrobial prophylaxis	Process	Claims,Registry	American Society of Plastic Surgeons	General Surgery,Orthopedic Surgery,Otolaryngology,Thoracic Surgery,Plastic Surgery		Yes	Yes		Yes	Yes <sup>1)</sup>	
23	Perioperative Care: Venous Thromboembolism (VTE) Prophylaxis (When Indicated in ALL Patients)	Percentage of surgical patients aged 18 years and older undergoing procedures for which venous thromboembolism (VTE) prophylaxis is indicated in all patients, who had an order for Low Molecular Weight Heparin (LMWH), Low- Dose Unfractionated Heparin (LDUH), adjusted-dose warfarin, fondaparinux or mechanical prophylaxis to be given within 24 hours prior to incision time or within 24 hours after surgery end time	Process	Claims,Registry	American Society of Plastic Surgeons	General Surgery,Orthopedic Surgery,Otolaryngology,Thoracic Surgery,Plastic Surgery		Yes	Yes			Yes <sup>1)</sup>	
424	Perioperative Temperature Management	Percentage of patients, regardless of age, who undergo surgical or therapeutic procedures under general or neuraxial anesthesia of 60 minutes duration or longer for whom at least one body temperature greater than or equal to 35.5 degrees Celsius (or 95.9 degrees Fahrenheit) was recorded within the 30 minutes immediately before or the 15 minutes immediately after anesthesia end time	Outcome	Registry	American Society of Anesthesiologists	Anesthesiology			Yes			Yes <sup>1)</sup>	
442	Persistence of Beta-Blocker Treatment After a Heart Attack	The percentage of patients 18 years of age and older during the measurement year who were hospitalized and discharged from July 1 of the year prior to the measurement year to June 30 of the measurement year with a diagnosis of acute myocardial infarction (AMI) and who were prescribed persistent beta-blocker treatment for six months after discharge	Process	Registry	National Committee for Quality Assurance	General Practice/Family Medicine	Yes	Yes	Yes	Yes	Yes	Yes <sup>1)</sup>	
425	Photodocumentation of Cecal Intubation	The rate of screening and surveillance colonoscopies for which photodocumentation of landmarks of cecal intubation is performed to establish a complete examination	Process	Claims,Registry	American Society for Gastrointestinal Endoscopy				Yes			Yes <sup>1)</sup>	
111	Pneumococcal Vaccination Status for Older Adults	Percentage of patients 65 years of age and older who have ever received a pneumococcal vaccine.	Process	Claims,CMS WI,EHR,Registry	National Committee for Quality Assurance	Allergy/Immunology,Preventive Medicine		Yes	Yes			Yes <sup>1)</sup>	
426	Post-Anesthetic Transfer of Care Measure: Procedure Room to a Post Anesthesia Care Unit (PACU)	Percentage of patients, regardless of age, who are under the care of an anesthesia practitioner and are admitted to a PACU in which a post-anesthetic formal transfer of care protocol or checklist which includes the key transfer of care elements is utilized	Process	Registry	American Society of Anesthesiologists	Anesthesiology			Yes			Yes <sup>1)</sup>	
427	Post-Anesthetic Transfer of Care: Use of Checklist or Protocol for Direct Transfer of Care from Procedure Room to Intensive Care Unit (ICU)	Percentage of patients, regardless of age, who undergo a procedure under anesthesia and are admitted to an Intensive Care Unit (ICU) directly from the anesthetizing location, who have a documented use of a checklist or protocol for the transfer of care from the responsible anesthesia practitioner to the responsible ICU team or team member	Process	Registry	American Society of Anesthesiologists	Anesthesiology			Yes			Yes <sup>1)</sup>	
369	Pregnant women that had HBsAg testing	This measure identifies pregnant women who had a HBsAg (hepatitis B) test during their pregnancy	Process	EHR	OptumInsight				Yes	Yes			
263	Preoperative Diagnosis of Breast Cancer	The percent of patients undergoing breast cancer operations who obtained the diagnosis of breast cancer preoperatively by a minimally invasive biopsy method	Process	Registry	American Society of Breast Surgeons				Yes	Yes		Yes <sup>1)</sup>	
76	Prevention of Central Venous Catheter (CVC) - Related Bloodstream Infections	Percentage of patients, regardless of age, who undergo central venous catheter (CVC) insertion for whom CVC was inserted with all elements of maximal sterile barrier technique, hand hygiene, skin preparation and, if ultrasound is used, sterile ultrasound techniques followed	Process	Claims,Registry	American Society of Anesthesiologists	Anesthesiology,Hospitalists			Yes			Yes <sup>1)</sup>	

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430	Prevention of Post-Operative Nausea and Vomiting (PONV) - Combination Therapy	Percentage of patients, aged 18 years and older, who undergo a procedure under an inhalational general anesthetic, AND who have three or more risk factors for post-operative nausea and vomiting (PONV), who receive combination therapy consisting of at least two prophylactic pharmacologic antiemetic agents of different classes preoperatively or intraoperatively	Process	Registry	American Society of Anesthesiologists	Anesthesiology		Yes	Yes		Yes	Yes <sup>1)</sup>	
128	Preventive Care and Screening: Body Mass Index (BMI) Screening and Follow-Up Plan	Percentage of patients aged 18 years and older with a BMI documented during the current encounter or during the previous six months AND with a BMI outside of normal parameters, a follow-up plan is documented during the encounter or during the previous six months of the current encounter Normal Parameters: Age 18 years and older BMI => 18.5 and < 25 kg/m2	Process	Claims,CMS WI,EHR,Registry	Centers for Medicare & Medicaid Services	Internal Medicine,Cardiology, Gastroenterology,General Surgery,Hospitalists,Neurology,Obstetrics/Gynecology,Orthopedic Surgery,Otolaryngology,Physical Medicine,Preventive Medicine,Rheumatology,Vascular Surgery,Mental/Behavioral Health,Plastic Surgery,General Practice/Family Medicine		Yes	Yes			Yes <sup>1)</sup>	
110	Preventive Care and Screening: Influenza Immunization	Percentage of patients aged 6 months and older seen for a visit between October 1 and March 31 who received an influenza immunization OR who reported previous receipt of an influenza immunization	Process	Claims,CMS WI,EHR,Registry	Physician Consortium for Performance Improvement	Allergy/Immunology,Internal Medicine,Obstetrics/Gynecology,Preventive Medicine,General Practice/Family Medicine,Pediatrics		Yes	Yes			Yes <sup>1)</sup>	
134	Preventive Care and Screening: Screening for Clinical Depression and Follow-Up Plan	Percentage of patients aged 12 years and older screened for depression on the date of the encounter using an age appropriate standardized depression screening tool AND if positive, a follow-up plan is documented on the date of the positive screen	Process	Claims,CMS WI,EHR,Registry	Centers for Medicare & Medicaid Services	Internal Medicine,Mental/Behavioral Health,General Practice/Family Medicine,Pediatrics		Yes	Yes			Yes <sup>1)</sup>	

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317	Preventive Care and Screening: Screening for High Blood Pressure and Follow-Up Documented	Percentage of patients aged 18 years and older seen during the reporting period who were screened for high blood pressure AND a recommended follow-up plan is documented based on the current blood pressure (BP) reading as indicated	Process	Claims,EHR,Registry	Centers for Medicare & Medicaid Services	Allergy/Immunology,Internal Medicine,Anesthesiology,Cardiology,Dermatology,Emergency Medicine,Gastroenterology,General Surgery,General Oncology,Hospitalists,Neurology,Obstetrics/Gynecology,Ophthalmology,Orthopedic Surgery,Otolaryngology,Physical Medicine,Preventive Medicine,Rheumatology,Thoracic Surgery,Urology,Vascular Surgery,Mental/Behavioral Health,Plastic Surgery,General Practice/Family Medicine		Yes	Yes			Yes <sup>1)</sup>	
226	Preventive Care and Screening: Tobacco Use: Screening and Cessation Intervention	Percentage of patients aged 18 years and older who were screened for tobacco use one or more times within 24 months AND who received cessation counseling intervention if identified as a tobacco user	Process	Claims,CMS WI,EHR,Registry	Physician Consortium for Performance Improvement	Allergy/Immunology,Internal Medicine,Cardiology,Dermatology,Emergency Medicine,Gastroenterology,General Surgery,General Oncology,Hospitalists,Neurology,Obstetrics/Gynecology,Ophthalmology,Orthopedic Surgery,Otolaryngology,Physical Medicine,Preventive Medicine,Rheumatology,Thoracic Surgery,Urology,Vascular Surgery,Mental/Behavioral Health,Plastic Surgery,General Practice/Family Medicine		Yes	Yes			Yes <sup>1)</sup>	

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431	Preventive Care and Screening: Unhealthy Alcohol Use: Screening & Brief Counseling	Percentage of patients aged 18 years and older who were screened for unhealthy alcohol use using a systematic screening method at least once within the last 24 months AND who received brief counseling if identified as an unhealthy alcohol user	Process	Registry	Physician Consortium for Performance Improvement	Internal Medicine,Cardiology, Emergency Medicine,Gastroenterology,General Oncology,Hospitalists, Neurology,Obstetrics/Gynecology,Otolaryngology,Physical Medicine,Preventive Medicine,Mental/Behavioral Health,General Practice/Family Medicine	Yes	Yes	Yes			Yes <sup>1)</sup>	
379	Primary Caries Prevention Intervention as Offered by Primary Care Providers, including Dentists	Percentage of children, age 0-20 years, who received a fluoride varnish application during the measurement period.	Process	EHR	Centers for Medicare & Medicaid Services	Pediatrics		Yes	Yes				
12	Primary Open-Angle Glaucoma (POAG): Optic Nerve Evaluation	Percentage of patients aged 18 years and older with a diagnosis of primary open-angle glaucoma (POAG) who have an optic nerve head evaluation during one or more office visits within 12 months	Process	Claims,EHR,Registry	Physician Consortium for Performance Improvement	Ophthalmology	Yes	Yes	Yes	Yes		Yes <sup>1)</sup>	
141	Primary Open-Angle Glaucoma (POAG): Reduction of Intraocular Pressure (IOP) by 15% OR Documentation of a Plan of Care	Percentage of patients aged 18 years and older with a diagnosis of primary open-angle glaucoma (POAG) whose glaucoma treatment has not failed (the most recent IOP was reduced by at least 15% from the pre-intervention level) OR if the most recent IOP was not reduced by at least 15% from the pre-intervention level, a plan of care was documented within 12 months	Outcome	Claims,Registry	American Academy of Ophthalmology	Ophthalmology	Yes	Yes	Yes	Yes		Yes <sup>1)</sup>	
457	Proportion Admitted to Hospice for less than 3 days	Proportion of patients who died from cancer, and admitted to hospice and spent less than 3 days there	Outcome	Registry	American Society of Clinical Oncology	General Oncology			Yes	Yes		Yes <sup>1)</sup>	
455	Proportion Admitted to the Intensive Care Unit (ICU) in the Last 30 Days of Life	Proportion of patients who died from cancer admitted to the ICU in the last 30 days of life	Outcome	Registry	American Society of Clinical Oncology	General Oncology			Yes	Yes		Yes <sup>1)</sup>	
456	Proportion Not Admitted To Hospice	Proportion of patients who died from cancer not admitted to hospice	Process	Registry	American Society of Clinical Oncology	General Oncology			Yes	Yes		Yes <sup>1)</sup>	
432	Proportion of Patients Sustaining a Bladder Injury at the Time of any Pelvic Organ Prolapse Repair	Percentage of patients undergoing any surgery to repair pelvic organ prolapse who sustains an injury to the bladder recognized either during or within 1 month after surgery	Outcome	Registry	American Urogynecologic Society	Obstetrics/Gynecology	Yes		Yes			Yes <sup>1)</sup>	
433	Proportion of Patients Sustaining a Bowel Injury at the time of any Pelvic Organ Prolapse Repair	Percentage of patients undergoing surgical repair of pelvic organ prolapse that is complicated by a bowel injury at the time of index surgery that is recognized intraoperatively or within 1 month after surgery	Outcome	Registry	American Urogynecologic Society	Obstetrics/Gynecology	Yes		Yes			Yes <sup>1)</sup>	
434	Proportion of Patients Sustaining a Ureter Injury at the Time of any Pelvic Organ Prolapse Repair	Percentage of patients undergoing pelvic organ prolapse repairs who sustain an injury to the ureter recognized either during or within 1 month after surgery	Outcome	Registry	American Urogynecologic Society	Obstetrics/Gynecology	Yes		Yes			Yes <sup>1)</sup>	
454	Proportion of Patients who Died from Cancer with more than One Emergency Department Visit in the Last 30 Days of Life	Proportion of patients who died from cancer with more than one emergency department visit in the last 30 days of life	Outcome	Registry	American Society of Clinical Oncology	General Oncology			Yes	Yes		Yes <sup>1)</sup>	
453	Proportion Receiving Chemotherapy in the Last 14 Days of Life	Proportion of patients who died from cancer receiving chemotherapy in the last 14 days of life	Process	Registry	American Society of Clinical Oncology	General Oncology			Yes	Yes		Yes <sup>1)</sup>	

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104	Prostate Cancer: Adjuvant Hormonal Therapy for High Risk or Very High Risk Prostate Cancer	Percentage of patients, regardless of age, with a diagnosis of prostate cancer at high or very high risk of recurrence receiving external beam radiotherapy to the prostate who were prescribed adjuvant hormonal therapy (GnRH [gonadotropin-releasing hormone] agonist or antagonist)	Process	Registry	American Urological Association Education and Research	Urology			Yes	Yes		Yes <sup>1)</sup>	
102	Prostate Cancer: Avoidance of Overuse of Bone Scan for Staging Low Risk Prostate Cancer Patients	Percentage of patients, regardless of age, with a diagnosis of prostate cancer at low (or very low) risk of recurrence receiving interstitial prostate brachytherapy, OR external beam radiotherapy to the prostate, OR radical prostatectomy, OR cryotherapy who did not have a bone scan performed at any time since diagnosis of prostate cancer	Process	EHR,Registry	Physician Consortium for Performance Improvement	General Oncology,Radiation Oncology,Urology			Yes	Yes		Yes <sup>1)</sup>	
410	Psoriasis: Clinical Response to Oral Systemic or Biologic Medications	Percentage of psoriasis patients receiving oral systemic or biologic therapy who meet minimal physician-or patient- reported disease activity levels. It is implied that establishment and maintenance of an established minimum level of disease control as measured by physician-and/or patient-reported outcomes will increase patient satisfaction with and adherence to treatment	Outcome	Claims,Registry	American Academy of Dermatology	Dermatology			Yes	Yes		Yes <sup>1)</sup>	
435	Quality of Life Assessment For Patients With Primary Headache Disorders	Percentage of patients with a diagnosis of primary headache disorder whose health related quality of life (HRQoL) was assessed with a tool(s) during at least two visits during the 12 month measurement period AND whose health related quality of life score stayed the same or improved	Outcome	Claims,Registry	American Academy of Neurology	Neurology	Yes		Yes	Yes		Yes <sup>1)</sup>	
251	Quantitative Immunohistochemical (IHC) Evaluation of Human Epidermal Growth Factor Receptor 2 Testing (HER2) for Breast Cancer Patients	This is a measure based on whether quantitative evaluation of Human Epidermal Growth Factor Receptor 2 Testing (HER2) by immunohistochemistry (IHC) uses the system recommended in the current ASCO/CAP Guidelines for Human Epidermal Growth Factor Receptor 2 Testing in breast cancer	Structure	Claims,Registry	College of American Pathologists	Pathology			Yes	Yes		Yes <sup>1)</sup>	
436	Radiation Consideration for Adult CT: Utilization of Dose Lowering Techniques	Percentage of final reports for patients aged 18 years and older undergoing CT with documentation that one or more of the following dose reduction techniques were used: Automated exposure control Adjustment of the mA and/or kV according to patient size Use of iterative reconstruction technique	Process	Claims,Registry	American College of Radiology	Diagnostic Radiology		Yes	Yes			Yes <sup>1)</sup>	
250	Radical Prostatectomy Pathology Reporting	Percentage of radical prostatectomy pathology reports that include the pT category, the pN category, the Gleason score and a statement about margin status	Process	Claims,Registry	College of American Pathologists	General Oncology,Pathology			Yes	Yes		Yes <sup>1)</sup>	
145	Radiology: Exposure Dose or Time Reported for Procedures Using Fluoroscopy	Final reports for procedures using fluoroscopy that document radiation exposure indices, or exposure time and number of fluorographic images (if radiation exposure indices are not available)	Process	Claims,Registry	American College of Radiology	Diagnostic Radiology			Yes			Yes <sup>1)</sup>	
146	Radiology: Inappropriate Use of "Probably Benign" Assessment Category in Screening Mammograms	Percentage of final reports for screening mammograms that are classified as "probably benign"	Process	Claims,Registry	American College of Radiology	Diagnostic Radiology			Yes	Yes		Yes <sup>1)</sup>	
225	Radiology: Reminder System for Screening Mammograms	Percentage of patients undergoing a screening mammogram whose information is entered into a reminder system with a target due date for the next mammogram	Structure	Claims,Registry	American College of Radiology	Diagnostic Radiology			Yes	Yes		Yes <sup>1)</sup>	
195	Radiology: Stenosis Measurement in Carotid Imaging Reports	Percentage of final reports for carotid imaging studies (neck magnetic resonance angiography [MRA], neck computed tomography angiography [CTA], neck duplex ultrasound, carotid angiogram) performed that include direct or indirect reference to measurements of distal internal carotid diameter as the denominator for stenosis measurement	Process	Claims,Registry	American College of Radiology	Diagnostic Radiology			Yes			Yes <sup>1)</sup>	
344	Rate of Carotid Artery Stenting (CAS) for Asymptomatic Patients, Without Major Complications (Discharged to Home by Post-Operative Day #2)	Percent of asymptomatic patients undergoing CAS who are discharged to home no later than post-operative day #2	Outcome	Registry	Society for Vascular Surgeons	Interventional Radiology,Vascular Surgery			Yes			Yes <sup>1)</sup>	
260	Rate of Carotid Endarterectomy (CEA) for Asymptomatic Patients, without Major Complications (Discharged to Home by Post-Operative Day #2)	Percent of asymptomatic patients undergoing CEA who are discharged to home no later than post-operative day #2	Outcome	Registry	Society for Vascular Surgeons	Vascular Surgery			Yes			Yes <sup>1)</sup>	
347	Rate of Endovascular Aneurysm Repair (EVAR) of Small or Moderate Non-Ruptured Infrarenal Abdominal Aortic Aneurysms (AAA) Who Die While in Hospital	Percent of patients undergoing endovascular repair of small or moderate infrarenal abdominal aortic aneurysms (AAA) that die while in the hospital	Outcome	Registry	Society for Vascular Surgeons	Vascular Surgery			Yes			Yes <sup>1)</sup>	

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259	Rate of Endovascular Aneurysm Repair (EVAR) of Small or Moderate Non-Ruptured Infrarenal Abdominal Aortic Aneurysms (AAA) without Major Complications (Discharged to Home by Post Operative Day #2)	Percent of patients undergoing endovascular repair of small or moderate non-ruptured infrarenal abdominal aortic aneurysms (AAA) that do not experience a major complication (discharged to home no later than post-operative day #2)	Outcome	Registry	Society for Vascular Surgeons	Interventional Radiology, Vascular Surgery			Yes			Yes <sup>(1)</sup>	
417	Rate of Open Repair of Small or Moderate Abdominal Aortic Aneurysms (AAA) Where Patients Are Discharged Alive	Percentage of patients undergoing open repair of small or moderate abdominal aortic aneurysms (AAA) who are discharged alive	Outcome	Registry	Society for Vascular Surgeons				Yes			Yes <sup>(1)</sup>	
258	Rate of Open Repair of Small or Moderate Non-Ruptured Infrarenal Abdominal Aortic Aneurysms (AAA) without Major Complications (Discharged to Home by Post-Operative Day #7)	Percent of patients undergoing open repair of small or moderate sized non-ruptured infrarenal abdominal aortic aneurysms who do not experience a major complication (discharge to home no later than post-operative day #7)	Outcome	Registry	Society for Vascular Surgeons	Vascular Surgery			Yes			Yes <sup>(1)</sup>	
345	Rate of Postoperative Stroke or Death in Asymptomatic Patients Undergoing Carotid Artery Stenting (CAS)	Percent of asymptomatic patients undergoing CAS who experience stroke or death following surgery while in the hospital	Outcome	Registry	Society for Vascular Surgeons	Interventional Radiology, Vascular Surgery			Yes			Yes <sup>(1)</sup>	
346	Rate of Postoperative Stroke or Death in Asymptomatic Patients Undergoing Carotid Endarterectomy (CEA)	Percent of asymptomatic patients undergoing CEA who experience stroke or death following surgery while in the hospital	Outcome	Registry	Society for Vascular Surgeons				Yes			Yes <sup>(1)</sup>	
437	Rate of Surgical Conversion from Lower Extremity Endovascular Revascularization Procedure	Inpatients assigned to endovascular treatment for obstructive arterial disease, the percent of patients who undergo unplanned major amputation or surgical bypass within 48 hours of the index procedure	Outcome	Claims, Registry	Society of Interventional Radiology				Yes			Yes <sup>(1)</sup>	
261	Referral for Otologic Evaluation for Patients with Acute or Chronic Dizziness	Percentage of patients aged birth and older referred to a physician (preferably a physician specially trained in disorders of the ear) for an otologic evaluation subsequent to an audiologic evaluation after presenting with acute or chronic dizziness	Process	Claims, Registry	Audiology Quality Consortium				Yes	Yes		Yes <sup>(1)</sup>	
255	Rh Immunoglobulin (Rhogam) for Rh-Negative Pregnant Women at Risk of Fetal Blood Exposure	Percentage of Rh-negative pregnant women aged 14-50 years at risk of fetal blood exposure who receive Rh- Immunoglobulin (Rhogam) in the emergency department (ED)	Process	Claims, Registry	American College of Emergency Physicians	Emergency Medicine		Yes	Yes	Yes		Yes <sup>(1)</sup>	
179	Rheumatoid Arthritis (RA): Assessment and Classification of Disease Prognosis	Percentage of patients aged 18 years and older with a diagnosis of rheumatoid arthritis (RA) who have an assessment and classification of disease prognosis at least once within 12 months	Process	Registry	American College of Rheumatology	Orthopedic Surgery, Rheumatology		Yes	Yes	Yes		Yes <sup>(1)</sup>	
178	Rheumatoid Arthritis (RA): Functional Status Assessment	Percentage of patients aged 18 years and older with a diagnosis of rheumatoid arthritis (RA) for whom a functional status assessment was performed at least once within 12 months	Process	Registry	American College of Rheumatology	Orthopedic Surgery, Rheumatology		Yes	Yes	Yes		Yes <sup>(1)</sup>	
180	Rheumatoid Arthritis (RA): Glucocorticoid Management	Percentage of patients aged 18 years and older with a diagnosis of rheumatoid arthritis (RA) who have been assessed for glucocorticoid use and, for those on prolonged doses of prednisone >= 10 mg daily (or equivalent) with improvement or no change in disease activity, documentation of glucocorticoid management plan within 12 months	Process	Registry	American College of Rheumatology	Orthopedic Surgery, Rheumatology		Yes	Yes	Yes		Yes <sup>(1)</sup>	
177	Rheumatoid Arthritis (RA): Periodic Assessment of Disease Activity	Percentage of patients aged 18 years and older with a diagnosis of rheumatoid arthritis (RA) who have an assessment and classification of disease activity within 12 months	Process	Registry	American College of Rheumatology	Rheumatology		Yes	Yes	Yes		Yes <sup>(1)</sup>	
176	Rheumatoid Arthritis (RA): Tuberculosis Screening	Percentage of patients aged 18 years and older with a diagnosis of rheumatoid arthritis (RA) who have documentation of a tuberculosis (TB) screening performed and results interpreted within 6 months prior to receiving a first course of therapy using a biologic disease-modifying anti-rheumatic drug (DMARD)	Process	Registry	American College of Rheumatology	Rheumatology		Yes	Yes	Yes		Yes <sup>(1)</sup>	
445	Risk-Adjusted Operative Mortality for Coronary Artery Bypass Graft (CABG)	Percent of patients aged 18 years and older undergoing isolated CABG who die, including both all deaths occurring during the hospitalization in which the CABG was performed, even if after 30 days, and those deaths occurring after discharge from the hospital, but within 30 days of the procedure	Outcome	Registry	Society of Thoracic Surgeons			Yes	Yes			Yes <sup>(1)</sup>	

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343	Screening Colonoscopy Adenoma Detection Rate	The percentage of patients age 50 years or older with at least one conventional adenoma or colorectal cancer detected during screening colonoscopy	Outcome	Registry	American Society for Gastrointestinal Endoscopy	Gastroenterology		Yes	Yes	Yes		Yes <sup>1)</sup>	
39	Screening for Osteoporosis for Women Aged 65-85 Years of Age	Percentage of female patients aged 65-85 years of age who ever had a central dual-energy X-ray absorptiometry (DXA) to check for osteoporosis	Process	Claims,Registry	National Committee for Quality Assurance	Preventive Medicine		Yes	Yes	Yes		Yes <sup>1)</sup>	
264	Sentinel Lymph Node Biopsy for Invasive Breast Cancer	The percentage of clinically node negative (clinical stage T1N0M0 or T2N0M0) breast cancer patients who undergo a sentinel lymph node (SLN) procedure	Process	Registry	American Society of Breast Surgeons				Yes	Yes		Yes <sup>1)</sup>	
279	Sleep Apnea: Assessment of Adherence to Positive Airway Pressure Therapy	Percentage of visits for patients aged 18 years and older with a diagnosis of obstructive sleep apnea who were prescribed positive airway pressure therapy who had documentation that adherence to positive airway pressure therapy was objectively measured	Process	Registry	American Academy of Sleep Medicine			Yes	Yes	Yes		Yes <sup>1)</sup>	
276	Sleep Apnea: Assessment of Sleep Symptoms	Percentage of visits for patients aged 18 years and older with a diagnosis of obstructive sleep apnea that includes documentation of an assessment of sleep symptoms, including presence or absence of snoring and daytime sleepiness	Process	Registry	American Academy of Sleep Medicine			Yes	Yes	Yes		Yes <sup>1)</sup>	
278	Sleep Apnea: Positive Airway Pressure Therapy Prescribed	Percentage of patients aged 18 years and older with a diagnosis of moderate or severe obstructive sleep apnea who were prescribed positive airway pressure therapy	Process	Registry	American Academy of Sleep Medicine			Yes	Yes	Yes		Yes <sup>1)</sup>	
277	Sleep Apnea: Severity Assessment at Initial Diagnosis	Percentage of patients aged 18 years and older with a diagnosis of obstructive sleep apnea who had an apnea hypopnea index (AHI) or a respiratory disturbance index (RDI) measured at the time of initial diagnosis	Process	Registry	American Academy of Sleep Medicine			Yes	Yes	Yes		Yes <sup>1)</sup>	
257	Statin Therapy at Discharge after Lower Extremity Bypass (LEB)	Percentage of patients aged 18 years and older undergoing infra-inguinal lower extremity bypass who are prescribed a statin medication at discharge	Process	Registry	Society for Vascular Surgeons			Yes	Yes			Yes <sup>1)</sup>	
438	Statin Therapy for the Prevention and Treatment of Cardiovascular Disease	Percentage of the following patients-all considered at high risk of cardiovascular events-who were prescribed or were on statin therapy during the measurement period: Adults aged >= 21 years who were previously diagnosed with or currently have an active diagnosis of clinical atherosclerotic cardiovascular disease (ASCVD); OR Adults aged >=21 years who have ever had a fasting or direct low-density lipoprotein cholesterol (LDL-C) level >= 190 mg/dL or were previously diagnosed with or currently have an active diagnosis of familial or pure hypercholesterolemia; OR Adults aged 40-75 years with a diagnosis of diabetes with a fasting or direct LDL-C level of 70-189 mg/dL	Process	CMS WI,Registry	Centers for Medicare & Medicaid Services	Internal Medicine,Cardiology, General Practice/Family Medicine		Yes	Yes			Yes <sup>1)</sup>	
32	Stroke and Stroke Rehabilitation: Discharged on Antithrombotic Therapy	Percentage of patients aged 18 years and older with a diagnosis of ischemic stroke or transient ischemic attack (TIA) who were prescribed antithrombotic therapy at discharge	Process	Claims,Registry	American Academy of Neurology	Hospitalists,Neurology		Yes	Yes	Yes		Yes <sup>1)</sup>	
187	Stroke and Stroke Rehabilitation: Thrombolytic Therapy	Percentage of patients aged 18 years and older with a diagnosis of acute ischemic stroke who arrive at the hospital within two hours of time last known well and for whom IV t-PA was initiated within three hours of time last known well	Process	Registry	American Heart Association			Yes	Yes	Yes		Yes <sup>1)</sup>	
357	Surgical Site Infection (SSI)	Percentage of patients aged 18 years and older who had a surgical site infection (SSI)	Outcome	Registry	American College of Surgeons	General Surgery,Otolaryngology,Vascular Surgery,Plastic Surgery		Yes	Yes			Yes <sup>1)</sup>	

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402	Tobacco Use and Help with Quitting Among Adolescents	The percentage of adolescents 12 to 20 years of age with a primary care visit during the measurement year for whom tobacco use status was documented and received help with quitting if identified as a tobacco user	Process	Registry	National Committee for Quality Assurance	Allergy/Immunology, Internal Medicine, Cardiology, Dermatology, Emergency Medicine, Gastroenterology, General Surgery, General Oncology, Hospitalists, Neurology, Obstetrics/Gynecology, Ophthalmology, Orthopedic Surgery, Otolaryngology, Physical Medicine, Preventive Medicine, Rheumatology, Thoracic Surgery, Urology, Vascular Surgery, Mental/Behavioral Health, Plastic Surgery, General Practice/Family Medicine, Pediatrics	Yes	Yes	Yes			Yes <sup>1)</sup>	
353	Total Knee Replacement: Identification of Implanted Prosthesis in Operative Report	Percentage of patients regardless of age undergoing a total knee replacement whose operative report identifies the prosthetic implant specifications including the prosthetic implant manufacturer, the brand name of the prosthetic implant and the size of each prosthetic implant	Process	Registry	American Association of Hip and Knee Surgeons	Orthopedic Surgery			Yes			Yes <sup>1)</sup>	
352	Total Knee Replacement: Preoperative Antibiotic Infusion with Proximal Tourniquet	Percentage of patients regardless of age undergoing a total knee replacement who had the prophylactic antibiotic completely infused prior to the inflation of the proximal tourniquet	Process	Registry	American Association of Hip and Knee Surgeons	Orthopedic Surgery			Yes			Yes <sup>1)</sup>	
350	Total Knee Replacement: Shared Decision-Making: Trial of Conservative (Non-surgical) Therapy	Percentage of patients regardless of age undergoing a total knee replacement with documented shared decision-making with discussion of conservative (non-surgical) therapy (e.g., non-steroidal anti-inflammatory drug (NSAIDs), analgesics, weight loss, exercise, injections) prior to the procedure	Process	Registry	American Association of Hip and Knee Surgeons	Orthopedic Surgery			Yes			Yes <sup>1)</sup>	
351	Total Knee Replacement: Venous Thromboembolic and Cardiovascular Risk Evaluation	Percentage of patients regardless of age undergoing a total knee replacement who are evaluated for the presence or absence of venous thromboembolic and cardiovascular risk factors within 30 days prior to the procedure (e.g. history of Deep Vein Thrombosis (DVT), Pulmonary Embolism (PE), Myocardial Infarction (MI), Arrhythmia and Stroke)	Process	Registry	American Association of Hip and Knee Surgeons	Orthopedic Surgery			Yes			Yes <sup>1)</sup>	
450	Trastuzumab Received By Patients With AJCC Stage I (T1c) - III And HER2 Positive Breast Cancer Receiving Adjuvant Chemotherapy	Proportion of female patients (aged 18 years and older) with AJCC stage I (T1c) - III, human epidermal growth factor receptor 2 (HER2) positive breast cancer receiving adjuvant chemotherapy who are also receiving trastuzumab	Process	Registry	American Society of Clinical Oncology	General Oncology		Yes	Yes	Yes		Yes <sup>1)</sup>	
337	Tuberculosis (TB) Prevention for Psoriasis, Psoriatic Arthritis and Rheumatoid Arthritis Patients on a Biological Immune Response Modifier	Percentage of patients whose providers are ensuring active tuberculosis prevention either through yearly negative standard tuberculosis screening tests or are reviewing the patient's history to determine if they have had appropriate management for a recent or prior positive test	Process	Registry	American Academy of Dermatology	Dermatology, Rheumatology, General Practice/Family Medicine			Yes	Yes		Yes <sup>1)</sup>	
254	Ultrasound Determination of Pregnancy Location for Pregnant Patients with Abdominal Pain	Percentage of pregnant female patients aged 14 to 50 who present to the emergency department (ED) with a chief complaint of abdominal pain or vaginal bleeding who receive a trans-abdominal or trans-vaginal ultrasound to determine pregnancy location	Process	Claims, Registry	American College of Emergency Physicians	Emergency Medicine		Yes	Yes	Yes		Yes <sup>1)</sup>	
356	Unplanned Hospital Readmission within 30 Days of Principal Procedure	Percentage of patients aged 18 years and older who had an unplanned hospital readmission within 30 days of principal procedure	Outcome	Registry	American College of Surgeons	General Surgery		Yes	Yes			Yes <sup>1)</sup>	



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355	Unplanned Reoperation within the 30 Day Postoperative Period	Percentage of patients aged 18 years and older who had any unplanned reoperation within the 30 day postoperative period	Outcome	Registry	American College of Surgeons	General Surgery		Yes	Yes			Yes <sup>1)</sup>	
48	Urinary Incontinence: Assessment of Presence or Absence of Urinary Incontinence in Women Aged 65 Years and Older	Percentage of female patients aged 65 years and older who were assessed for the presence or absence of urinary incontinence within 12 months	Process	Claims,Registry	National Committee for Quality Assurance	Obstetrics/Gynecology, Preventive Medicine, Urology		Yes	Yes			Yes <sup>1)</sup>	
50	Urinary Incontinence: Plan of Care for Urinary Incontinence in Women Aged 65 Years and Older	Percentage of female patients aged 65 years and older with a diagnosis of urinary incontinence with a documented plan of care for urinary incontinence at least once within 12 months	Process	Claims,Registry	National Committee for Quality Assurance	Internal Medicine, Obstetrics/ Gynecology, Urology, General Practice/Family Medicine		Yes	Yes	Yes		Yes <sup>1)</sup>	
238	Use of High-Risk Medications in the Elderly	Percentage of patients 66 years of age and older who were ordered high-risk medications. Two rates are reported. a. Percentage of patients who were ordered at least one high-risk medication. b. Percentage of patients who were ordered at least two different high-risk medications.	Process	EHR, Registry	National Committee for Quality Assurance			Yes	Yes		Yes	Yes <sup>1)</sup>	
312	Use of Imaging Studies for Low Back Pain	Percentage of patients 18-50 years of age with a diagnosis of low back pain who did not have an imaging study (plain X-ray, MRI, CT scan) within 28 days of the diagnosis.	Process	EHR	National Committee for Quality Assurance	Orthopedic Surgery, Physical Medicine, General Practice/Family Medicine		Yes	Yes	Yes			
420	Varicose Vein Treatment with Saphenous Ablation: Outcome Survey	Percentage of patients treated for varicose veins (CEAP C2-S) who are treated with saphenous ablation (with or without adjunctive tributary treatment) that report an improvement on a disease specific patient reported outcome survey instrument after treatment	Outcome	Registry	Society of Interventional Radiology				Yes	Yes		Yes <sup>1)</sup>	
239	Weight Assessment and Counseling for Nutrition and Physical Activity for Children and Adolescents	Percentage of patients 3-17 years of age who had an outpatient visit with a Primary Care Physician (PCP) or Obstetrician/Gynecologist (OB/GYN) and who had evidence of the following during the measurement period. Three rates are reported. - Percentage of patients with height, weight, and body mass index (BMI) percentile documentation - Percentage of patients with counseling for nutrition - Percentage of patients with counseling for physical activity	Process	EHR	National Committee for Quality Assurance	Pediatrics		Yes	Yes	Yes			