

Surgery Endorsement Maintenance 2010
**Identification of Gap Areas for which Evidence-based Surgery-related Measures are Needed
 Cardiac, General, and Other Surgical Subspecialties**

The table below is a tool that identifies NQF-endorsed™ surgery-related measures, candidate measures, and the domain into which they best fit. Surgery Endorsement Maintenance Committee members should review the tool and add any new topic areas and a description of measures that should be sought to fill measurement gaps. This includes suggesting new measures within existing topic areas or adaptation of existing measures to target additional domains. Rows for suggested measures are provided for new topic areas near top of the tool as well as within each of the identified topic areas.

		Domains						
		Note: "X" identifies domain targeted by the measure. Please identify domain for any additions suggested.						
Surgery TOPIC AREA and related measures	Cross- Cutting	Care Coordination & Management	Population Health	Safety	Affordability	Access	Patient & Family Engagement	Patient Reported Outcomes
	including across settings, disciplines, populations, & combinations Composites Emphasis on longitudinal measures over specified timeframe (e.g., 30 day, etc.)	including communication, Pre-, intra-, post- op care; secondary prevention; intermediate outcomes, recovery & rehabilitation, End of Life care	including prevention, healthy lifestyle behaviors, populations at risk & disparities (age, race/ ethnicity, gender, geographic & socio- economic)	including morbidity & mortality, complications of care, prevention of adverse events including HAI, medication adherence/use	including cost/efficiency direct/indirect cost, overuse, underuse, appropriateness	including access, timeliness	including Patient/ Family Engagement (perspective, knowledge, understanding, motivation, risk behavior), Satisfaction, Self- management Shared Decision making	including Health Status (quality of life, functional status, productivity, burden on patient & family)
Add new topic areas below								
Cardiac Surgery								
0125 – Timing of antibiotic prophylaxis for cardiac surgery patients					X			
0126- Selection of antibiotic prophylaxis for cardiac surgery patients		X						
0128- Duration of prophylaxis for cardiac					X			

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surgery patients								
0239- Venous thromboembolism (VTE) prophylaxis		X						
0284- Beta blocker therapy prior to admission who received a beta blocker during the perioperative period		X						
0371- Venous thromboembolism (VTE) prophylaxis		X						
0372- Intensive care unit (ICU) VTE prophylaxis		X						
0456- Participation in a systematic national database for general thoracic surgery				X				
0670- Cardiac stress imaging not meeting appropriate use criteria: Preoperative evaluation in low risk surgery patients		X						
0694- Hospital risk-standardized complication rate following implantation of implantable cardioverter-defibrillator (ICD)		X						
0699- 30-day post-hospital HF discharge care transition composite measure		X						
Add suggested measure descriptions for the above topic area (cardiac surgery) below								

Yellow highlight notes newly submitted measures and those undergoing maintenance in Phases I or II

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CABG								
0113 - Participation in systematic database for cardiac surgery				X				
0114 – Post-operative renal failure		X						
0115 – Surgical re-exploration		X		X				
0116 – Anti-platelet medication at discharge		X						
0117- Beta blockade at discharge		X						
0118 – Anti-lipid treatment at discharge		X						
0119- Operative mortality for CABG				X				
0127- Pre-operative beta blockade		X			X			
0129- Prolonged intubation (ventilation)		X						
0130- Deep sternal wound infection rate		X						
0131- Stroke/cerebrovascular accident		X						
0133- PCI mortality (risk-adjusted)				X				
0134- IMA in CABG		X						
0165- Percutaneous coronary intervention (PCI) volume		X						
0236- Pre-op beta blocker in patient with isolated CABG (2)		X						
0237- Anti-platelet medication on discharge		X						

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0300- Cardiac surgery patients with controlled postoperative blood glucose		X			X			
0325- Discharged on antiplatelet therapy		X						
0642- Cardiac rehabilitation patient referral from an inpatient setting		X						
0643- Cardiac rehabilitation patient referral from an outpatient setting		X						
695- Hospital 30-day risk-standardized readmission rates following percutaneous coronary intervention (PCI)		X		X				
0696- The STS CABG composite score		X						
Add suggested measure descriptions for the above topic area (CABG) below								
AVR								
0120- Operative mortality for AVR		X						
0123- Operative mortality for AVR + CABG surgery		X						
Add suggested measure descriptions for the above topic area (AVR) below								

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MVR								
		X						
0121- Operative mortality for MVR		X						
0122- Operative mortality MVR + CABG surgery		X						
1501- Operative mortality for MV repair		X						
1502- Operative mortality for MV repair + CABG surgery		X						
Add suggested measure descriptions for the above topic area (MVR) below								
AAA								
0357- AAA volume		X						
0359- AAA repair mortality rate		X						
1523- In-hospital mortality following elective non-ruptured open AAA repair		X						
1534- In-hospital mortality following EVAR		X						
Add suggested measure descriptions for the above topic area (AAA) below								

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Abdominal								
			X					
Add suggested measure descriptions for the above topic area (abdominal) below								
Admission/Transfers								
	X							
Add suggested measure descriptions for the above topic area (admission/transfers) below								
Cancer								
0219- Post breast conserving surgery irradiation		X						
0221- Needle biopsy to establish diagnosis of cancer precedes surgical excision/resection		X						

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0222- Patients with early stage breast cancer who have evaluation of the axilla		X						
0223- Adjuvant chemotherapy is considered or administered within 4 months (120 days) of surgery to patients under the age of 80 with AJCC III (lymph node positive) colon cancer		X						
0392- Colorectal cancer resection pathology reporting- pT category (primary tumor) and pN category (regional lymph nodes) with histologic grade		X						
0455- Recording of clinical stage for lung cancer and esophageal cancer resection		X						
0457- Recording of performance status (zubrod, karnofsky, WHO or ECOG performance status) prior to lung or esophageal cancer resection		X						
0458- Pulmonary function tests before major anatomic lung resection (pneumonectomy, lobectomy)		X						
0459- Risk-adjusted morbidity after lobectomy for lung cancer				X				
0460- Risk-adjusted morbidity and mortality				X				

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for esophagectomy for cancer								
0561- Melanoma coordination of care		X						
0645- Biopsy follow-up		X						
706- Risk adjusted colorectal surgery outcome measure				X				
Add suggested measure descriptions for the above topic area (cancer) below								
Carotid								
0465- Perioperative anti-platelet therapy for patients undergoing carotid endarterectomy		X						
0466- Use of patch during conventional carotid endarterectomy		X		X				
0588- Stent drug-eluting clopidogrel		X						
1540- Postoperative stroke or death in asymptomatic patients undergoing carotid endarterectomy		X						
1543- Postoperative stroke or death in asymptomatic patients undergoing carotid artery stenting (CAS)		X						

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Add suggested measure descriptions for the above topic area (carotid) below								
Cataracts								
0564- Complications within 30 days following cataract surgery requiring additional surgical procedures		X						
0565- Cataracts: 20/40 or better visual acuity within 90 days following cataract surgery		X						
1536- Cataracts: Improvement in patient's visual function within 90 days following cataract surgery					X			
Add suggested measure descriptions for the above topic area (cataracts) below								
Esophageal								
0360- Esophageal resection mortality rate		X						
0361- Esophageal resection volume		X						

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General								
0139- Percentage of ICU and high-risk nursery patients, who over a certain amount of days acquired a central line catheter-associated blood stream infections over a specified amount of line-days				X				
0141- Patient fall rate		X		X				
0178- Improvement in status of surgical wounds				X				
0201- Pressure ulcer prevalence		X		X				
0202- Falls with injury		X		X				
0203- Restraint prevalence (vest and limb only)		X		X				
0205- Nursing care hours per patient day (RN, LPN, and UAP)		X		X	X	X		
0259- Hemodialysis vascular access - decision-making by surgeon to maximize placement of autogenous arterial venous		X						

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fistula								
0264- Prophylactic intravenous antibiotic timing	X				X			
0266- Patient fall				X				
0267- Wrong site, wrong side, wrong patient, wrong procedure, wrong implant		X						
0268- Selection of prophylactic antibiotic: first OR second generation cephalosporin		X						
0269- Timing of prophylactic antibiotics-administering physician					X			
0270- Timing of antibiotic prophylaxis: ordering physician					X			
0271- Discontinuation of prophylactic antibiotics (non-cardiac procedures)		X						
0299- Surgical site infection rate		X		X				
0301- Appropriate hair removal (reserve status)	X	X						
0305- LBP: Surgical timing					X			
0307- LBP: Patient education						X		
0310- LBP: Shared decision making						X		
0311- LBP: Post-surgical outcomes		X						
0316- LBP: Mental health assessment		X						
0344- Accidental puncture or laceration (PDI		X		X				

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1) (risk adjusted)								
0345- Accidental puncture or laceration (PSI 15)		X		X				
0346- Iatrogenic pneumothorax (PSI 6) (risk adjusted)		X						
0348- Iatrogenic pneumothorax in Non-Neonates (PDI 5) (risk adjusted)		X						
0351- Death among surgical inpatients with serious, treatable complications		X						
0352- Failure to rescue in-hospital mortality	X	X						
0353- Failure to rescue 30-day mortality	X	X						
0362- Foreign body left after procedure (PDI 3)				X				
0450- Postoperative DVT or PE (PSI 12)					X			
0452- Surgery patients with perioperative temperature management		X						
0453- Urinary catheter removed on postoperative day 1 (POD1) or postoperative day 2 (POD2) with day of surgery being day zero.		X						
0454- Anesthesiology and critical care: Perioperative temperature management		X						
0470- Incidence of episiotomy		X						

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0472- Prophylactic antibiotic received within one hour prior to surgical Incision or at the time of delivery – cesarean section.					X			
0473- Appropriate DVT prophylaxis in women undergoing cesarean delivery					X			
0478- Nosocomial blood stream infections in neonates (NQI #3)		X						
0505- Thirty-day all-cause risk standardized readmission rate following acute myocardial infarction (AMI) hospitalization.		X						
0515- Ambulatory surgery patients with appropriate method of hair	X	X						
0527- Prophylactic antibiotic received within 1 hour prior to surgical incision SCIP-Inf-1	X				X			
0528- Prophylactic antibiotic selection for surgical patients	X							
0529- Prophylactic antibiotic discontinued within 24 hours after surgery end time	X				X			
0533- Postoperative respiratory failure (PSI #11)		X						
0534- Hospital specific risk-adjusted measure of mortality or one or more major complications within 30 days of a lower				X				

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extremity bypass (LEB).								
0551- Ace inhibitor / angiotensin receptor blocker use and persistence among members with coronary artery disease at high risk for coronary events				X				
0581- Deep vein thrombosis anticoagulation >= 3 Months		X						
0593- Pulmonary embolism anticoagulation >= 3 Months		X						
0605- Patient(s) that had a serum creatinine in last 12 reported months.		X						
0610- Heart failure - Use of ACE inhibitor (ACEI) or angiotensin receptor blocker (ARB) therapy		X						
0624- Atrial fibrillation - Warfarin therapy		X						
0637- Discontinuation of prophylactic antibiotics (cardiac procedures)		X						
0644- Patients with a transient ischemic event ER visit that had a follow up office visit.		X						
0646- Reconciled medication list received by discharged patients (inpatient discharges to home/self care or any other site of care)		X						

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0647- Transition record with specified elements received by discharged patients (inpatient discharges to home/self care or any other site of care)(inpatient discharges to home/self care or any other site of care)		X						
0648- Timely transmission of transition record (inpatient discharges to home/self care or any other site of care)		X						
0697- Risk adjusted case mix adjusted elderly surgery outcomes measure			X	X				
0702- Intensive care unit (ICU) length-of-stay (LOS)		X						
0703- Intensive Care: In-hospital mortality rate				X				
0714- Standardized mortality ratio for neonates undergoing non-cardiac surgery				X				
0715- Standardized adverse event ratio for children and adults undergoing cardiac catheterization for congenital heart disease				X				
Add suggested measure descriptions for the above topic area (general) below								

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Lower Extremity								
0285- Lower extremity amputations among patients with diabetes (PQI 16)		X						
1519- Statin therapy at discharge after LEB		X						
Add suggested measure descriptions for the above topic area (lower extremity) below								
Pancreatic								
0365- Pancreatic resection mortality rate		X						
0366- Pancreatic resection volume		X						
0451- Call for a measure of glycemic control with intravenous insulin implementation		X						
0603- Adult(s) taking insulin with evidence of self-monitoring blood glucose testing.		X						
0604- Adult(s) with diabetes mellitus that had a serum creatinine in last 12 reported months.		X						
Add suggested measure descriptions for the above topic area (pancreatic) below								

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Pediatric								
0339- Pediatric heart surgery mortality		X	X					
0340- Pediatric heart surgery volume		X	X					
0713- Ventriculoperitoneal (VP) shunt malfunction rate in children		X						
Add suggested measure descriptions for the above topic area (pediatric) below								
THA/TKA								
1550- Hospital-level risk-standardized complication rate following elective THA and TKA		X						
1551- Hospital-level 30-day all-cause risk-standardized readmission rate following elective THA and TKA		X						
Add suggested measure descriptions for the above topic area (THA/TKA) below								

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VTE Prophylaxis								
0218- Received appropriate VTE prophylaxis within 24 hours					X			
0374- VTE patients unfractionated heparin (UFH) dosages/platelet count monitoring by protocol (or nomogram) receiving unfractionated heparin (UFH) with dosages/ platelet count monitored by protocol (or nomogram)					X			
0375- VTE discharge instructions		X						
0376- Incidence of potentially preventable VTE				X				
Add suggested measure descriptions for the above topic area (VTE) below								

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