

Appendix 1 to Mardinger C, Drover A, Hyndman E, et al. A novel computerized approach to scoping reviews using Synthesis software: the first 15 years of The American College of Surgeons National Surgical Quality Improvement Program. *Can J Surg* 2023. Copyright © 2023 The Author(s) or their employer(s).

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Supplemental Content Table 1. Category Definition Examples for Surgical Specialty

Main Category	Category Definitions Examples
Cardiac Surgery	Cardiac Surgery, valve replacement, pacemaker, coronary artery bypass...
General Surgery	General Surgery, bariatric, mastectomy, colorectal...
Otolaryngology and Head and Neck Surgery	Otolaryngology, rhinology, tracheostomy, glossectomy...
Orthopedic Surgery	Orthopedic, fusion, meniscectomy, joint replacement...
Plastic Surgery	Plastic, aesthetic, craniofacial, breast reconstruction, tissue transfer...
Pediatric Surgery	Pediatric, adolescent, children, neonatal...
Vascular Surgery	Vascular, abdominal aortic aneurysm, infrainguinal bypass, endovascular...
Thoracic Surgery	Thoracic, diaphragmatic, thoracoscopy, pleurectomy...
Podiatry	Podiatry
Dentistry	Dentistry
Oro-Maxillofacial Surgery	Maxillofacial
Transplant Surgery	Transplant
Urology	Urology, cystectomy, nephrectomy, prostatectomy...
Surgical Oncology	Cancer, metastatic, chemotherapy, neoplasm...
Obstetrics and Gynecology	Gynecology, oophorectomy, colpopexy, hysterectomy...
Neurosurgery	Neurosurgery, craniotomy, ventricular shunt, temporal lobectomy...
Anesthesia	Anesthesia, analgesia
Unknown	No categories identified

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Supplemental Content Table 2. Category Definition Examples for Study Type

Main Category	Category Definition Examples
Association	Association, Relationship, Differences, Comparison, Correlation, Disparities, Effect...
Characteristics	Characteristics, Determinants, Burden, Classification, Descriptive...
Estimates	Estimates, Prevalence, Incidence, Occurrence...
Surveillance	Surveillance, Trends, Pattern, Update, Screening...
Risk	Risk, Frailty Index, Score...
Utilization	Utilization, Usage, Access, Services, Treatment...
Implementation	Implementation, Application, Planning, Management...
Prediction	Prediction
Methodology	Methodology, Algorithm, Derive, Design, Develop...
Evaluation	Evaluation, Validation, Accuracy, Reliability, Impact...
Education	Education, Training, Curriculum, Learning...
Economics	Compensation, Reimbursement, Payment, Billing, Cost...
Outcomes	Outcomes, Mortality, Morbidity, Readmission, Length of Stay, Reoperation, Discharge...
Adverse Events	Adverse, Complications, Infections...
Unknown	No categories identified

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Supplemental Content Table 3. Detailed Category Definitions for Surgical Speciality

Main Category	Category Definitions
Cardiac Surgery	((title:"cardiac surgery") AND NOT (title:"non-cardiac surgery")) OR journal:cardiology OR journal:cardiothoracic OR ((title:"Cardiac surgery") AND NOT (title:"non-cardiac surgery")) OR title:Pericardiotom* OR title:Cardiotom* OR title:Valvotom* OR title:"valve replacement" OR title:"valve surgery" OR title:"valve surgeries" OR title:"valve repair" OR title:pacemaker OR title:"Coronary artery bypass" OR title:"coronary venous graft"
General Surgery	title:"General Surgery" OR title:"general surgeries" OR title:"general surgical" OR title:"general surgeon" OR title:"general and vascular surgery" OR title:"general and thoracic" OR journal:"General Surgery" OR title:gastrointestinal OR journal:gastrointestinal OR journal:colon OR journal:rectum OR journal:"general and vascular surgery" OR journal:"general and thoracic" OR title:adrenal OR title:adrenalectom* OR title:Appendix OR title:Appendectom* OR title:appendiceal OR title:Appendicitis OR title:bariatric OR title:"weight loss surgery" OR title:"sleeve gastrectomy" OR title:"Roux-en-Y" OR title:"gastric bypass" OR title:"bowel resection" OR title:colon* OR title:colotom* OR title:enterostom* OR title:enterotom* OR title:colorectal OR title:colectom* OR title:ostom* OR title:proctocolectom* OR title:proctocol-ectomy OR title:ileocolic OR title:ileo-colic OR title:"small bowel" OR title:enterotom* OR title:enterostom* OR title:ileostom* OR title:ileo* OR title:ileal OR title:jejun* OR title:jejunostom* OR title:gastroduodenal OR title:duode* OR title:intestinal OR title:Breast OR title:Mastectom* OR title:mammaplast* OR title:lumpectom* OR title:postmastectomy OR title:colon* OR title:colotom* OR title:enterostom* OR title:enterotom* OR title:colorectal OR title:colectom* OR title:colostomy OR title:ostom* OR title:proctocolectom* OR title:"proctocol-ectomy" OR title:ileocolic OR title:"ileo-colic" OR

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((title:diverticulectomy) AND NOT (title:"urethral diverticulectomy" OR title:"Zenker's diverticulectomy")) OR ((title:diverticulum) AND NOT (title:"hypopharyngeal diverticulum")) OR title:gastric OR title:gastrectom* OR title:"peptic ulcer surgery" OR title:esophagogastrom* OR title:gastrom* OR title:vagotomy OR title:gastroduodenal OR title:fundoplication OR title:gastroesophageal OR title:gastrointestinal OR title:"intra-abdominal" OR title:gastroenterological OR title:hernia* OR title:hernioplast* OR title:herniorrhaphy OR title:herniotom* OR title:"Bile duct" OR title:pancrea* OR title:whipple* OR title:Gallbladder OR title:Cholecyst* OR title:hepatic OR title:hepatectom* OR title:posthepatectom* OR title:hepato* OR title:hepaticojejunostom* OR title:HPB OR title:"liver tumor" OR title:"liver tumors" OR title:"liver cancer" OR title:"liver resection" OR title:"liver resections" OR title:"liver surgery" OR title:"liver metastasis" OR title:"liver metastases" OR title:"liver, pancreatic, and colorectal surgery" OR title:Puestow OR title:cholangiocarcinoma OR ((title:liver) AND NOT (title:"liver function" OR title:"liver disease" OR title:"liver failure")) OR title:lymphadenectomy OR title:"lymph node" OR title:"lymph nodes" OR title:colorectal OR title:rectal OR title:Proctectom* OR title:proctocolectom* OR title: "proctocol-ectomy" OR title:ileoanal OR title:anal OR title:anorectal OR title:recto* OR ((title:"anastomosis") AND NOT (title:"arteriovenous anastomosis")) OR title:"small bowel" OR title:enterotom* OR title:enterostom* OR title:ileostom* OR title:ileo* OR title:ileal OR title:jejun* OR title:jejunostom* OR title:gastroduodenal OR title:duode* OR title:spleen OR title:"splenic flexure" OR title:splenectom* OR title:trauma OR journal:trauma OR title:laparotom* OR title:enterolysis OR title:abdominoperineal OR title:"abdominal surgical operations" OR title:"abdominal surgery" OR title:"abdominal operations" OR title:"thoracoabdominal operation" OR title:abdominopelvic OR title:"pelvic surgery" OR title:colitis OR title:IBD OR title:"inflammatory bowel disease" OR

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	title:"inflammatory bowel diseases" OR title:crohn* OR title:diverticulitis OR title:"diverticular disease" OR title:hirschsprung* OR title:"abdominal wall reconstruction" OR title:hartmann* OR title:pringle OR title:"sigmoid volvulus" OR title:"heller myotomy" OR title:"peptic ulcer disease" OR title:"peptic ulcers" OR title:omentoplasty OR title:RYGB OR title:foregut OR title:"metabolic/diabetes surgery" OR title:"endocrine surgery" OR title:pyloromyotomy OR title:"gallstone ileus" OR title:perianal OR title:biliary OR title:"anastomotic leak" OR title:cholangiography OR title:"enterocutaneous fistulas" OR title:"bowel obstruction" OR title:stoma OR title:"component separation" OR title:gastroschisis
Otolaryngology and Head and Neck Surgery	title:Otolaryngolog* OR journal:Otolaryngolog* OR journal:laryngoscope OR journal:otology OR journal:rhinology OR journal:laryngology OR journal:ORL OR title:Laryng* OR title:"head and neck" OR title:pharyng* OR title:"branchial cleft cyst" OR title:esophag* OR title:esophagogastrom* OR title:esophagectom* OR title:Glossectom* OR title:tongue OR title:"oral cavity" OR title:"choanal atresia" OR title:hypopharyngeal OR title:"neck dissection" OR title:thyroid* OR title:thyroid OR title:"thyroglossal duct cyst" OR title:tracheostomy OR title:hyperparathyroid* OR title:parathyroid* OR title:goiter OR title:hemithyroidectomy
Orthopedic Surgery	title:orthop* OR journal:orthop* OR journal:spine OR title:amputation* OR title:arthro* OR title:THA OR title:TKA OR title:extremity OR title:extremities OR title:extensor OR title:forearm OR title:limb OR title:elbow OR title:wrist OR title:ankle OR title:fusion OR title:fusions OR title:refusion OR title:arthrodesis OR title:"distal radius fracture" OR title:"distal radius fractures" OR title:"fracture of the hip" OR title:"hip fracture" OR title:"hip fractures" OR title:"ankle fracture" OR title:"ankle fractures" OR title:"humerus fracture" OR title:"humerus fractures" OR title:"compression fracture" OR title:"compression fractures" OR title:"femoral neck fracture" OR title:"femoral neck

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Plastic Surgery

fractures" OR title: "odontoid fracture" OR title:"odontoid fractures" OR title: "femoral shaft fracture" OR title:"femur fractures" OR title:"trimalleolar fractures" OR title:"bimalleolar fractures" OR title:"pilon fractures" OR title:"Hip/pelvis fractures" OR title:"intertrochanteric fractures" OR title:"C2 fractures" OR title:"knee fractures" OR title:"proximal ulna fractures" OR title:"malleolar fractures" OR title:"humeral fractures" OR title:"tibia fractures" OR title:"tibial plateau fractures" OR title:"tibial shaft fractures" OR title:"humeral shaft fractures" OR title:"pelvic/acetabular fractures" OR title:"clavicular fractures" OR title:clavicle OR journal:"shoulder and elbow surgery" OR title:hip OR title:Hemiarthroplast* OR title:THA OR title:"pelvic osteotomy" OR title:knee OR title:meniscectomy OR title:ACL OR title:PCL OR title:"anterior cruciate ligament reconstruction" OR title:"posterior cruciate ligament reconstruction" OR title:patellofemoral OR title:TKA OR title:lumbar OR title:spine OR ((title:spinal) AND NOT (title:"spinal anesthesia" OR title:"spinal and general anesthesia" OR title:"spinal versus general anesthesia")) OR title:kyphoplast* OR title:vertebroplast* OR title:discectom* OR title:laminectom* OR title:ACDF OR title:vertebral OR title:disc OR title:microdiscectomy OR title:"degenerative cervical myelopathy" OR title:"open reduction" OR title:ORIF OR title:"Iatarjet-bristow" OR title:shoulder OR title:"bankart" OR title:"rotator cuff" OR title:spinopelvic OR title:"joint replacement" OR title:achilles OR title:"femoral neck" OR title:"above-knee" OR title:"through-knee" OR title:scoliosis OR title:plastic OR title:oncoplastic OR journal:plastic OR journal:aesthetic OR title:craniofacial OR journal:craniofacial OR title:"breast reconstruction" OR title:"chest reconstruction" OR title:gynecomastia OR title:uvulopalatopharyngoplasty OR ((title:cleft) AND NOT (title:"branchial cleft cyst")) OR title:contour* OR title:flap* OR title:"tissue transfer" OR title:"free tissue" OR title:"free-

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	tissue" OR title:"free flap" OR title:microsurg* OR title:microvascular OR title:autologous OR title:panniculectomy OR title:craniosynostosis OR title:"surgical repair of pressure ulcers" OR title:"surgically managed pressure ulcers" title:syndactyly OR title:polydactyly OR ((title:hand*) AND NOT (title:"hand-assisted")) OR title:"ligament reconstruction and tendon interposition" OR title:"hidradenitis suppurativa" OR title:otoplasty OR title:"mandibular fracture" OR title:"mandibular fractures" OR title:"facial fracture" OR title:"hand fractures"
Pediatric Surgery	title:pediatric* OR title:paediatric OR journal:pediatric* OR title:adolescen* OR title:children* OR journal:children OR title:neonatal OR journal:neonatal OR journal:perinatology OR title:infant*
Vascular Surgery	title:vascular OR title:endovascular OR title:revascularization OR journal:vascular OR journal:endovascular OR journal:revascularization OR title:EVAR OR title:"abdominal aortic aneurysm" OR title:"abdominal aortic aneurysms" OR title:"aortic abdominal aneurysm" OR title:"aortic abdominal aneurysms" OR title:"aortic abdominal aneurysm" OR title:"thoracoabdominal aortic aneurysm" OR title:"thoracoabdominal aortic aneurysms" OR title:"thoracoabdominal aneurysm" OR title:"thoracoabdominal aneurysms" OR title:"aortic aneurysm" OR title:"aortic aneurysms" OR title:"aortoiliac aneurysm" OR title:"aortoiliac aneurysms" OR title:"aortoiliac aneurysm" OR title:"aortic repair" OR title:"abdominal aortic dissection repair" OR title:"aortic surgery" OR title:Arteriovenostom* OR title:"arteriovenous fistula" OR title:"arteriovenous anastomosis" OR title:Carotid OR title:Endarterectom* OR title:endarterectomies OR title:Thromboendarterectom* OR title:"femoropopliteal bypass" OR title:"femoral-popliteal bypass" OR title:"bypass leg surgery" OR title:"infrainguinal bypass" OR title:"infrainguinal arterial bypass" OR title:revascular* OR

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Thoracic Surgery	title:"peritoneal dialysis catheter placement" OR title:"upper extremity bypass" title:thoracic OR journal:cardiothoracic OR journal:thoracic OR title:diaphragmatic OR title:diaphragm OR title:thoracic OR title:thoracotom* OR title:pleurectom* OR title:lung OR title:"pulmonary resection" OR ((title:lobectomy) AND NOT (title:"temporal lobectomy")) OR title:pneumonectom* OR title:thymectomy OR title:transhiatal OR title:diversion OR (title:divert AND NOT title:diverticul*) OR title:"congenital pulmonary airway malformations" OR title:"congenital lung malformations" OR title:"congenital pulmonary lesions" OR title:thoroscopic OR title:thoracoscopy OR title:VATS
Oro-Maxillofacial Surgery	title:maxillofacial OR journal:maxillofacial
Transplant Surgery	title:transplant* OR journal:transplant*
Urology	title:urolog* OR journal:urolog* OR journal:endourology OR title:cystectom* OR title:bladder OR title:Nephrostom* OR title:Pyelotom* OR title:nephrectom* OR title:nephroureterectom* OR title:pyeloplast* OR ((title:renal) AND NOT (title:"renal disease" OR title:"renal function" OR title:"renal failure" OR title:"renal dysfunction")) OR ((title:kidney) AND NOT (title:"kidney disease" OR title:"kidney function" OR title:"kidney failure" OR title:"kidney injury" OR title:"kidney transplantation")) OR title:penile OR title:penectomy OR title:prostate OR title:Prostatectom* OR title:"benign prostatic hyperplasia procedures" OR title:"benign prostatic hyperplasia surgery" OR title:"benign prostatic enlargement surgery" OR title:testicular OR title:orchiectomy OR title:"urethral diverticulectomy" OR title:cystourethroscopy OR title:vesicovaginal OR title:hypospadias OR title:"TURBT" OR "title:transurethral resection"
Surgical Oncology	title:onco* OR journal:onco* OR title:cancer* OR journal:cancer* OR title:onc* OR title:tumor* OR title:tumour* OR title:metastatic OR title:metastas* OR title:chemoradiation OR title:chemotherapy OR title:radiotherapy OR title:radiation OR title:malignancy OR

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Obstetrics and Gynecology	<p>title:neoplasm OR title:melanoma OR title:carcinoma OR title:sarcoma OR title:HIPEC OR title:cytoreductive title:gynecology OR title:gynaecological OR title:gynecologic OR journal:gynecology OR journal:gynecologic OR title:urogynecology OR title:urogynecologic OR journal:urogynecology OR title:endometrial OR title:ovarian OR title:oophorectomy OR title:hysterotomy OR title:hysterectomy OR title:uterine OR title:"cervical cancer" OR title:"cervical malignancy" OR title:myomectomy OR title:vaginal OR title:"apical prolapse surgery" OR title:"uterovaginal prolapse" OR title:"pelvic organ prolapse" OR title:"uterovaginal prolapse" OR title:sacrocolpopexy OR title:"pelvic floor" OR title:colpopexy OR title:debulk* OR (title:sling AND NOT title:"male sling") OR title:"pelvic reconstructive surgery"</p>
Neurosurgery	<p>title:neurosurgery OR title:neurosurgical OR journal:neurosurg* OR title:Craniotomy OR title:craniotomies OR title:"cranial surgery" OR title:"temporal lobectomy" OR title:Craniectom* OR title:intracranial OR (title:cranial AND NOT (title:"cranial nerve")) OR title:"brain tumour resection" OR title:"deep brain stimulation" OR title:"brain tumor surgery" OR title:"cerebrovascular surgery" OR title:pituitary OR title:"skull base" OR title:"cranial surgery" OR title:cranioplasty OR title:"surgery for cerebellar hemorrhage" OR title:"ventricular shunt" OR title:schwannoma OR title:"transsphenoidal surgery" OR title:electrocorticography OR title:"epilepsy surgery" OR title:"pineal surgery" OR title:"vertebral fracture" OR title:"vertebral fractures"</p>
Anesthesia	<p>title:anesthe* OR title:anaesthe* OR journal:anesthe* OR journal:anaesthe* OR title:analgesia</p>
Unknown	No definition
Podiatry	None identified
Dentistry	None identified

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Supplemental Content Table 4. Detailed Category Definitions for Study Type

Main Category	Category Definitions
Association	title:associat* OR (title:associations AND title:between) OR title:relation* OR title:differences OR title:compar* OR title:variation* OR title:correlat* OR title:dispar* OR title:after OR title:effect OR title:following
Characteristics	title:characterist* OR title:epidemiology OR title:determinants OR title:consump* OR title:burden OR title:profile OR title:classif* OR title:descriptive OR title:determinant* OR title:frail* OR title:"advanced age" OR title:geriatric* OR title:septuagenarian* OR title:octogenarian* OR title:elderly OR title:older OR title:"oldest old" OR title:nonagenarian* OR title:"65 years" OR title:"nursing home" OR title:obesity OR title:obese OR title:superobese OR title:overweight OR title:"body mass index" OR title:BMI OR title:weight
Estimates	title:prevalence OR title:incidence OR title:estimates OR title:occurrence* OR title:adjust*
Surveillance	title:surveillance OR title:trends OR title:increas* OR title:decreas* OR title:chang* OR title:pattern* OR title:updat* OR title:screening OR title:rate
Risk	title:risk* OR title:"risk-scoring" OR title:"risk index" OR title:"risk model" OR title:"risk assessment tool" OR title:"risk assessment model" OR title:"risk stratification" OR title:"risk score" OR title:"risk-scoring" OR title:"risk factor" OR title:"risk factors" OR title:"risk-stratified" OR title:"risk calculator" OR title:"frailty index" OR title:scoring OR title:score* OR title:"surgical apgar score"
Utilization	title:utilization OR title:usage OR title:access OR title:services OR title:treatment
Implementation	title:implement* OR title:application OR title:planning OR title:manag* OR title:recommend*
Prediction	title:predict*
Methodology	title:method* OR title:algorithm* OR title:deriv* OR title:design* OR title:develop*
Evaluation	title:evaluat* OR title:valid* OR title:accur* OR title:reliab* OR title:impact* OR title:adherence

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Education	title:training OR title:teach* OR title:resident* OR title:student* OR title:fellow* OR title:intern OR title:trainee* OR title:educat* OR title:"attending surgeons" OR title:learning OR title:curriculum OR title:academic OR title:certification OR title:QITI
Economics	title:compensate* OR title:reimburs* OR title:fee OR title:pay* OR title:financ* OR title:economic OR title:bill* OR title:cost* OR title:expenditur*
Outcomes	title:outcomes OR title:mortality OR title:death* OR title:moribund OR title:morbidity OR title:readm* OR title:stay OR title:reop* OR title:revision OR title:"return to the operating room" OR title:"repeated operation" OR title:discharge OR title:post-discharge OR title:predischarge OR title:postdischarge OR title:"transfer" OR title:"non-home discharge" OR title:"postacute care" OR title:"post-acute care" OR title:"rehabilitation"
Adverse Events	title:adverse OR title:complication* OR title:infection* OR title:transfus* OR title:"venous thromboembolism" OR title:"venous thrombosis" OR title:"venous thromboses" OR title:"venous thrombi" OR title:"deep vein thrombosis" OR title:"deep vein thromboses" OR title:thrombosis OR title:thromboses OR title:DVT OR title:VTE OR title:thromboembolic
Unknown	No definition
