KEYWORD LIST

The keyword list is updated every January 1. Authors are required to select 2–5 words that best describe the subject matter of their paper from this list; words that are not on the list cannot be matched with the keywords chosen by reviewers.

When listing keywords on the title page of your manuscript, do not include explanatory material that is within the parentheses. When you wish to specify, do so by using another keyword from the list. By using multiple keywords from the list you can narrow the focus of the subject matter (eg. Minimally invasive, Lobectomy). [incl = includes]

A
Ablation (all modalities, all applications)
Acute coronary syndrome
Acute respiratory distress syndrome, ARDS
Adhesives (tissue, chemical, etc.)
Adult
Airway (incl related subjects)
Allograft, homograft
Anatomy (specify organ, location, tissue, etc.)
Anesthesia (incl related subjects)
Aneurysm (specify location)
Angiogenesis
Animal model
Antibiotics, antifungals, antiviral agents
Antibody/antigen
Aorta/aortic, aortic arch
Aortic dissection (incl ulcers, hematomas)
Aortic operation (operation on the aorta)
Aortic root
Aortic root replacement
Aortic valve, repair
Aortic valve, replacement
Apoptosis
Arrhythmia (incl any except AF)
Arrhythmia therapy (incl ablation)
Artificial organs
Atherosclerosis
Atrial fbrillation (AF), flutter
Atrium
Autograft (specify tissue)
Autonomic nervous system

B
Biochemistry (incl proteomics)
Bioengineering (incl physical modeling)
Biomaterials (incl tissue substitutes)
Bleeding; bleeding control
Blood (constituents, factors, preparation, substitutes)
Blood, coagulation/anticoagulation
Blood management, conservation, consequences
Brain, anatomy, imaging, function, assessment, injury, etc.
Bronchial arteries
Bronchial disease (incl injury, stenosis, tumor)
Bronchial endoscopy, ultrasound, EBUS
Bronchial stents
Bronchiolitis obliterans
Bronchoplasty
Bronchoscopy/bronchus (incl navigational)

C
Calcification (specify location or tissue)
Cancer (specify organ or tissue)
Cancer screening tests (eg, lung, esophagus)
Cardiac (use in combination)
Cardiac anatomy/pathologic anatomy
Cardiac catheterization/intervention
Cardiac function, physiology
Canine tumors (incl primary, metastatic)
Cardiology/cardiologist
Cardiomyopathy (any cause)
Cardiopulmonary bypass, CPB (incl set-ups, equipment, surface coatings, etc.)
CPB, inflammatory response, pathophysiology, complications
Carotid arteries
Cell biology/culture/engineering/bioreactors
Cell signaling, receptors
Cell transplantation
Cerebral circulation (anatomy, physiology, pathology)
Cerebral protection (incl perfusion, hypothermia)
Chemotherapy (specify target)
Chest
Chest wall (incl reconstruction)
Chyle (incl all diseases related to chyle)
Circulatory hemodynamics
Circulatory support (incl destination therapy)
Circulatory support devices (LVAD, RVAD, BVAD, TAH)
Circulatory temporary support (incl mechanical, balloon pump)
Clinical trials (incl all designs)
Coagulants (topical, systemic, experimental)
Coarctation
Collateral blood flow (specify location; eg, myocardium, brain)
Co-morbidity (specify organ or system)
Complement
Computed tomography, CAT scan, CT scan
Computer applications (incl simulation, modeling, artificial intelligence, fuzzy logic)
Congenital heart disease, CHD
CHD, Fontan, Glenn
CHD, great vessel anomalies; transposition, arterial switch
CHD, heterotaxy
CHD, hypoplastic left heart syndrome, Norwood operation
CHD, in adults
CHD, miscellaneous (incl endomyocardial fibrosis)
CHD, pulmonary arteries
CHD, Rastelli operation
CHD, septal defects
CHD, tetralogy of Fallot
CHD, truncus arteriosus
CHD, univentricular heart
CHD, valve (lesions, repair, replacement)
CHD, vascular ring, interrupted arch
Coronary artery bypass grafts, CABG
CABG, arterial grafts
CABG, venous grafts, prostheses
Coronary artery disease (pathology, pharmacology, physiology, etc.)
Coronary artery imaging (all modalities)
Coronary endarterectomy
Coronary sinus
Coronary stents, PCI
Coronary syndromes
Cysts (specify location)

D
Database (incl use, related subjects)
Defibrillation (incl related subjects)
Delirium
Device (refers to implanted devices)
Diabetes mellitus
Diaphragm (incl related subjects)

E
Electrocardiography (all modalities, applications)
Education (incl all levels, methods, trainees, subjects)
Electrophysiology (incl mapping, pathology)
Embolism (specify location, source, agent)
Embryology (embryo studies, operations)
Emergency (presentation, management)
Emphysema/bullae
Empyema (from any organism; management)
Endarterectomy (specify vessel)
Endobronchial valves, plugs
Endocarditis (all infectious agents)
Endoscopy/endoscopic procedures
Endothelium (incl related subjects)
Endovascular procedures/stents, except PCI
Epidemiology
Esophageal biology/pathology/staging
Esophageal cancer
Esophageal congenital anomalies
Esophageal injury/perforation, strictures
Esophageal motility disorders
Esophageal surgery, operations
Esophagoscopy/biopsy (incl fine needle biopsy)
Esophagus
Esophagus, Barrett’s
Esophagus, benign disease (incl diverticula)
Ethics
Exercise (incl testing, therapy)
Extracorporeal membrane oxygenation, ECMO

F
Fetal surgery/research
Fibrin/fibrosis/fibrinolysis
Fistula (specify location or organ)
Foreign body (specify location)
Frailty (specify criteria)

G
Gastroepiploic artery
Gastroesophageal reflux, GERD
Gender
Genes/polymorphisms/microarrays
Gene therapy
Genetic syndromes (eg, Marfan, Down, etc.)
Genetics, genomics
Geriatric (incl elderly)

H
Health economics (cost analysis, insurance, relative value)
Health policy (incl government regulation, Obama Care)
Health professional affairs, advocacy, regulation
Health provider (arrangements, delivery/reimbursements)
Heart failure (incl diagnosis, assessment, treatment)
Heart valve prosthesis (specify type; eg, mechanical, bioprosthetic, etc.)
Heart valve repair
Heart valve replacement, autograft (incl tissue-engineered valves)
Heart valve replacement, transcatheter, percutaneous
Heart valves, multiple
Hematology
Hemoptysis
Hemorrhage (incl management)
Hernias (specify location)
Hiatal hernia
Histology (specify tissue)
History (medical, discovery)
Hormones (systemic, tissue or cellular)
Hydatid disease
Hyperhidrosis
Imaging (all modalities; specify target)
Magnetic resonance imaging, PET

Infection (specify agent and location)
Kidney, renal function failure, dialysis
Phlebitis/phlebectomy

Immunology
Immunodeficiency
Inflammation, systemic
Inflammatory bowel disease
Inflammatory mediators (eg, cytokines, cytotoxins, metallo- proteases)

Inotropic/vasoactive drugs
Interstitial lung disease

Intralesional therapy (eg, cryo, radiofrequency, brachy, ultrasound, etc.)

In vitro studies (models, modeling, test apparatus, benchwork, etc.)
Ischemia (specify organ or tissue)
Ischemia/reperfusion injury (specify organ or tissue)

K
Kidney, renal function failure, dialysis

L
Larynx (incl related subjects)
Larval casts, (all methods, including CME)
Liver, abdominal organs
Lobectomy, segmentectomy, wedge resection
Lung
Lung benign or congenital lesions
Lung cancer, biology (incl antigens, receptors, gene mutations)
Lung cancer, diagnosis (incl staging, imaging, fiducials)
Lung cancer, neuroendocrine (incl carcinoid, small cell)
Lung cancer clinical trials
Lung cancer surgery
Lung infection
Lung pathology
Lung physiology
Lung volume reduction
Lymph nodes (specify location)

M
Magnetic resonance imaging, MRI
Malpractice (incl all related issues)
Manpower (surgical) surveys, issues
Mediastinal infection
Mediastinal lymph nodes
Mediastinal tumor (incl thymus)
Mediastinoscopy
Mediastinum
Malignant thymoma (incl related subjects)
Metabolism (incl cell, organ, or body)
Metastasis/metastasectomy (specify primary and met locations)

Microvascular surgery
Minimally invasive surgery (incl all applications)
Mitrail regurgitation (incl all etiologies)
Mitrail systolic anterior motion, SAM
Mitrail valve
Mitrail valve repair
Mitrail valve replacement
Modeling (computer, mathematical, statistical, etc.)
Molecular biology
Myasthenia gravis
Myocardial infarction (incl complications; eg, rupture)
Myocardial injury (incl blunt, penetrating, iatrogenic)
Myocardial ischemia, ischemic cardiomyopathy, aneurysm
Myocardial mechanics (eg, stress, strain, contractility, etc.)
Myocardial metabolism
Myocardial morphology
Myocardial protection/cardio- plegia
Myocardial remodeling (re- shaping, constraining, ventriculectomy)
Myocardium
Myxoma

N
Neoadjuvant induction therapy
Neonate
Nerves, cranial or peripheral
Neurocognitive deficits (incl related subjects)
Neuroendocrine tumor
Neurological testing, studies
Neurology/neurologic (deficits, disease, injury)
Nitric oxide
Nursing (all aspects)
Nutrition

Obesity (incl related subjects)
Off-pump surgery
Organ donor management (incl related subjects)
Organ preservation, perfusion
Organ regeneration
Outcomes (incl mortality, morbidity, survival, etc.)

Pacemaker (incl related subjects)
Pacing, resynchronization/biventricular/all modalities
Pain (incl related subjects)
Pathology (specify organ or tissue)
Pathophysiology (specify organ or system)
Patient safety (all issues)
Pectus excavatum, carinatum
Pediatric
Perfusion (specify organ or tissue)
Pericardium (incl related subjects)
Perioperative care (incl intra- operative care)
Peripheral vascular disease (all non-thoracic arteries, except carotid)
Pharmacology (specify target disease, organ or cell)
Phrenic nerve (incl related subjects)
Physical therapy, rehabilitation
Physiology (specify organ or system)
Plasma lipids (incl tests, statins)
Platelets (incl inhibitors and related subjects)
Pleura (incl fibrosis, decortication, tumor)
Pleural airleak/effusion
Pleural space (drainage, management)
Pneumonectomy
Pneumothorax
Positron emission tomography, PET
Postoperative care
Practice guidelines (specify subject)
Preconditioning (specify organ)
Pregnancy
Prematurity
Preoperative care (incl related subjects)
Prosthesis (specify organ or tissue)
Pulmonary arteries/veins (incl normal and diseased)
Pulmonary embolism, endarterectomy
Pulmonary function (incl testing)
Pulmonary valve (incl repair, prosthetic valves)
Pulmonary vascular resistance/ hypertension
Quality care, management
Quality of life (surveys, assessment methods, etc.)
Radiation-induced heart disease
Radiation therapy (incl all modalities)
Rehabilitation (within and outside hospital)
Rejection (immunologic; specify organ)
Reoperation (specify organ or site)
Respiratory therapy
Restenosis (specify tissue)
Resuscitation (incl in- or out-of-hospital methods and devices)
Revascularization (specify organ or tissue)
Rheumatic disease
Robotics (incl applications, related subjects)
Ross operation

Sarcoma (specify tissue or organ)
Shock (systemic, cardiac or circulatory)
Shunts (specify anatomic location)
Smoking (tobacco)
Spinal cord, paraplegia, related subjects
Statistics

Statistics, Bayesian
Statistics, clinical trial
Statistics, meta analysis
Statistics, propensity matching
Statistics, regression analysis
Statistics, risk analysis/modeling
Statistics, survival analysis
Stem cells (incl related subjects)
Stents (specify location)
Sternum (incl related subjects)
Stroke
Surgery, complications
Surgery/incisions/exposure/ techniques
Surgical equipment (instru- ments, sutures, etc.)

Sympathectomy, sympathotomy

T
Thoracic duct (incl related subjects)
Thoracic outlet
Thoracoplasty
Thoracoscopy/VATS
Thoracotomy
Thrombosis (specify location)
Thymectomy
Thymoma, thymic carcinoma
Thymus
Tissue engineering (incl valves, tissue, related subjects)
Trachea
Tracheal care
Tracheal stenosis
Tracheal surgery, stents
Tracheal tumor
Tracheostomy
Transplantation, heart (incl related subjects)
Transplantation, heart-lung (incl related subjects)
Transplantation, lung (incl related subjects)
Trauma (incl related subjects)
Trauma, blunt
Trauma, penetrating
Tricuspid valve (incl related subjects)
Tuberculosis (incl related subjects)
Tumor biology (specify organ, location)
Tumor markers (incl fiducials)

U
Ultrasound (all applications)

Vascular science (biochemistry, pharmacology, pathology, etc.)
Vascular tone and reactivity
Venous disease
Ventilation (incl related subjects)
Ventricle, left
Ventricle, right

W
Wound closure, healing, dehiscence (incl related subjects)
Wound infection (incl related subjects)
Xenograft (incl related subjects)