



Content index 2024 Heart, Vessels and Transplantation

- 3-D reconstruction 160
- 6-minute walk test, 6MWT 111
- A round cyst-like structure 144, 151
- Ablation 173, 200, 422, 540
- Accuracy 67, 448, 454
- Acute coronary syndrome 438
- Acute kidney injury 475
- Acute myocardial infarction 154, 163
- Acute myocarditis 154, 163
- Acute stroke 284, 293
- Adenosine stress test 327
- Adolescent 131, 138
- Aerobic training 131, 138
- Alirocumab 169
- Amyotrophic lateral sclerosis 417
- Anatomic imaging 532
- Anatomy 154, 163, 532
- Aneurysm 175, 435, 526
- Angiosarcoma 532
- Animal 178, 484
- Anticoagulation 221, 469
- Anti-N-methyl-D-aspartate 4 receptor encephalitis 145
- Aorta 175, 435, 521, 526
- Aortic aneurysm 175, 435, 526
- Aortic arch aneurysm 526
- Aortic coarctation 382
- Aortic disease 175, 521
- Aortic stenosis 107, 509
- Aortic valve replacement 221, 252, 509
- Aortic valve sclerosis 469
- AQP4-IgG-seropositive neuromyelitis optica spectrum disorder 145
- Arrhythmias 1, 23, 144, 151, 165, 173, 319, 336, 371, 422, 540
- Aspergilloma 43
- Atherosclerosis 3 91
- Atherosclerotic cardiovascular disease 169
- Athlete 493
- Athletic heart syndrome 493
- Atrial fibrillation 173, 200, 371, 411
- Atrial fibrillation with slow ventricular response 11
- Atrial flutter 200, 540
- Atrial remodeling 244
- Atrial septal aneurysm 144, 151
- Atrial septal defect 144, 151, 244
- Atypical form 417
- Autoimmune disorder 145
- Bempedoic acid 169
- Benign 35
- Bentall De Bono method 521
- Bicuspid aortic valve 521
- Biomedical engineering 501
- Biomedical publishing 1, 165, 319, 422
- Biomedical research 421
- Biomedical waste 350
- Bioprosthetic valve 521
- Biventricular pacing 191
- Bleeding 221
- Blood pressure 431
- Blood vessels 484
- Botulism 213
- Brain 484
- Breast 35
- Breast cancer 57
- Cancer 57, 302
- Cardiac arrest 347
- Cardiac blood cyst 144, 151
- Cardiac computer tomography imaging 532
- Cardiac echinococcus cyst 144, 151
- Cardiac function 336
- Cardiac implantable electronic devices 343
- Cardiac monitoring 57
- Cardiac rehabilitation 111, 131, 138, 252
- Cardiac remodeling 493
- Cardiac resynchronization therapy, CRT 191, 343
- Cardiac surgery on a beating heart 532
- Cardiac surgery procedures 1, 11, 32, 119, 124, 131, 138, 140, 160, 164, 165, 221, 231, 252, 319, 343, 364, 371, 376, 382, 422, 469, 475, 509, 521, 532
- Cardiac trauma 140, 160, 164
- Cardiac tumor 124, 532
- Cardiogenic shock 140, 160, 164, 323

Cardiology 1, 165, 319, 422
Cardiopulmonary bypass 51, 231, 252, 521, 532
Cardiopulmonary bypass with parallel perfusion 532
Cardiopulmonary exercise test 111
Cardiotoxicity 57, 302
Cardiovascular diseases 27, 32, 154, 163, 169
Cardiovascular imaging 327
Cardiovascular infectious diseases 15, 545
Cardiovascular medicine 1, 165, 319, 422
Carotid-carotid-subclavian bypass 526
Case report 119, 124, 131, 140, 145, 313, 332, 411, 417, 521, 526, 532, 540, 545
Case series 35, 469
Cavotricuspid isthmus 540
Cavotricuspid isthmus ablation 200, 540
CHA2DS2-VASc score 371
Challenges 277
Checkpoint inhibitors 302
Chemotherapy 57, 422, 532
Chest 35, 43, 140, 160, 164
Chest tube 140, 160, 164
Children 145, 475
Chimney technique 526
Chronic coronary diseases 428
Chronic coronary heart disease 11, 428
Chronic coronary syndromes 391, 428
Chronic myocarditis 154, 163
Chronic obstructive pulmonary disease 364, 448
Circulatory mechanical support 131, 138
Classification 431
Clinical case presentation 332
Clinical manifestations 43, 208
Coarctation of aorta 119
Cohort study 57, 94, 107, 231, 263
Comorbidities 364
Complication 140, 160, 164, 545
Computed tomography 160, 164, 428, 469, 521, 526, 532
Computed tomography coronary angiography 86, 526
Conduction system pacing 23
Congenital 144, 151, 376, 382
Congenital heart diseases 244, 376, 382
Congenital heart disease surgery 252
Coronary revascularization 11, 323, 391
Coronary angiography 124, 391
Coronary artery 154, 163
Coronary artery bypass surgery 11, 51 119, 124, 252, 371
Coronary artery disease 51, 119, 124, 154, 163, 327, 391, 428
Coronary flow reserve 327
Coronary physiology 391
Coronary vessels 532
Coronavirus infection 73, 86
COVID 1, 73, 86, 165, 319, 208, 244, 422
C-reactive protein 86
Creatinine 475
Critical care 347
Cross-sectional study 86, 350, 357, 448
Cytoreduction 532
Deep vein thrombosis 86, 284
Demographic transitions 27
Demyelination 145
Descriptive study 213
Developmental anomalies 463
Devices 1, 23, 165, 173, 191, 319, 343, 501
Diabetes 169
Diagnosis 15, 19, 73, 144, 151, 169, 175, 343, 391, 431, 448, 454, 463
Diagnostic accuracy 67, 448, 454
Diagnostic criteria 35, 293
Diastolic dysfunction 438
Diet 178
Diffuse cardiosclerosis 154, 163
Diffuse ischemic cardiosclerosis 154, 163
Disease severity 208
Dobutamine stress test 327
Doppler echocardiography 327, 336, 438
Doppler ultrasonography 35, 86, 526
Double-valve replacement 221, 252
Duke criteria 15
Dyssynchrony 191
Early period 94
Eating disorder 417
Echocardiography 107, 124, 144, 151, 336, 422, 428, 431, 438, 454, 469, 493, 521, 532
Editorial 1, 11, 15, 23, 27, 32, 138, 165, 169, 173, 319, 323, 327, 332, 336, 343, 347, 422, 428, 431, 435
Education 421
Ejection fraction 191
Elective surgery 545
Electrocardiography 336, 501
Electrophysiology 1, 23, 165, 319, 200, 540
Electrophysiology procedures 200, 540

Embedded system 501
Embolization 313
Endocarditis 313
Endovascular aortic repair, EVAR 526
Endovascular surgery 1, 11, 165, 319, 422, 435, 509, 526
Endurance training 493
Entrainment mapping 540
Epidemiological study 73
Epidemiological surveillance 213
Etiopathogenesis 293
Evolocumab 169
Exercise 252, 327
Exercise test 111, 391
Experimental study 178, 484
Extended end-to-end anastomosis 382
Extracorporeal membrane oxygenation, ECMO 131, 138
Ezetimibe 169
Familial hypercholesterolemia 169
Family history 169
Fat 178
Fatty heart 154, 163
Female athlete 493
Female 493
Fetal arrhythmias 336
Fetal echocardiography 336
Fetal electrocardiography 336
Follow-up 200
Food poisoning 213
Food products 213
Food safety 213
Foreign body 144, 151
Frontotemporal dementia 417
Functional capacity 111
Functional imaging 428
Fungal infection 43
Gastroschisis 463
Global health 154, 163
Guidelines 1, 11, 15, 23, 165, 169, 173, 175, 319, 323, 327, 332, 336, 343, 347, 422, 428, 431, 435
Healthcare 32, 277, 376
Healthy aging 27
Heart 154, 163, 532
Heart anatomy 336
Heart attack 501
Heart defects 376, 382
Heart failure 111, 191, 327, 438
Heart failure with preserved ejection fraction, HFpEF 327, 438
Heart failure with reduced ejection fraction, HFrEF 327
Heart neoplasms 532
Heart rate 501
Heart transplantation 131, 138
Hemodynamic care 347
Hemorrhagic stroke 263
High-fat diet 178, 484
Hirsch index 1, 165, 319, 422
His bundle pacing 23
History 32
Holter monitoring 200
Hospital 350
Hospital mortality 94
Hospital navigation 357
Hospital stage 263
Hospitalization 73, 208
Humanitarian aid 32
Humanitarian medical camp 32
Humans 154, 163
Hybrid repair 526
Hypercholesterolemia 169
Hypertension 169, 431
Hypertriglyceridemia 169
Iatrogenic complications 140, 160, 164
ICOPE 27
Icosapent ethyl 169
Imaging 1, 35, 107, 144, 151, 160, 164, 165, 244, 319, 336, 422, 428, 431, 438, 454, 469, 493, 521, 532
Immune system 73, 145, 302
Immunotherapy 302
Implantable cardioverter-defibrillator 343
Inclisiran 169
Infant 475
Infection control 350
Infections 343
Infectious diseases 15, 43, 67, 73, 86, 208, 213, 545
Infective endocarditis 15, 545
Inflammation 86, 169, 454
Infrastructure 277
Inspiratory muscle training 111
Intensive care 67
Internal medicine 1, 165, 319, 422
International normalized ratio 221
Internet of Things 501

Interventional cardiology 1, 11, 165, 107, 319, 509
Interventions 140, 160, 164
Intestine, small 178
Intravascular ultrasound 391
Investment 277
Ischemic stroke 94, 284, 313
Journal performance 1, 165, 319, 422
Kaplan- Meier survival analysis 67, 107
Kaposi sarcoma 526
Lactate 484
Lead dislodgement 343
Left atrial activation sequence 540
Left atrial appendage closure 422
Left atrial volume 431, 438, 493
Left axillary vein puncture 411
Left bundle branch area pacing 23
Left bundle branch block 191
Left ventricle 140, 160, 164, 191, 438
Left ventricular enlargement 160, 164
Left ventricular mass 493
Left ventricular perforation 140, 160, 164
Left ventricular systolic dysfunction 191
Left ventricular volumes 327
Left ventricular only pacing 191
Left-to-right shunting 244
Letter to the Editor 160, 164
Li-Fraumeni syndrome 313
Lipids 169
Logistic regression analysis 371, 376, 454, 493
Long COVID 1, 165, 244, 319, 422
Low density lipoprotein-cholesterol 169
Lung diseases 43
Lung ultrasound 327
Magnetic resonance imaging 145, 160, 164, 428
Malignant 35
Management 169, 347, 336, 343, 391, 422, 428, 431, 435, 469, 428,
MANCOVA 493
Mechanical circulatory support 323
Mechanical heart valve replacement 221
Mechanical ventilation 231, 323
Medical care 73
Medical therapy 391, 435
Meta-analysis 509
Microanatomy 154, 163
Microcirculation 178, 484
Milrinone, inhaled 231
Milrinone, intravenous 231
Minimal invasive valve surgery 364
Mitral valve prolapse 144, 151
Mitral valve replacement 221, 231, 252
Mixed training 493
Mondor's disease 35
Monitoring 501
Monoclonal antibodies targeting PCSK 9 169
Morbidity 27, 51, 71
Mortality 51, 67, 73, 94, 107, 208, 221, 231, 263, 509
Multidisciplinary team 421
Multimorbidity 27
Myocardial contraction fraction 107
Myocardial hypertrophy 154, 163
Myocardial infarction 154, 163, 509
Myocardial ischemia 428
Myocardial perfusion scintigraphy 428
Myocardial scintigraphy 391
Myocardial steatosis 154, 163
Myxoma 124
Myxoma removal 124
Near-infrared spectroscopy 474
Nebulization 231
Neoadjuvant chemotherapy 57
Neurological recovery 347
Neurovascular diseases 94, 263, 284, 313, 484
Neutrophil-to-albumin ratio 454
Newborns 463
Non-bacterial thrombotic endocarditis 313
Noncommunicable disease 27
Non-high density lipoprotein cholesterol 169
Non-invasive ventilatory support 131, 138
Nursing staff 350
NYHA functional class 111
Obesity treatment 417
Observational study 51, 57, 67, 86, 200, 231, 244, 263, 350, 357, 376, 438, 448, 454, 463, 493,
Off-pump coronary artery bypass surgery 51, 371
Older adults 323
On-pump coronary artery bypass surgery 51
Open-heart surgery 252
Outcome 43, 51, 57, 67, 86, 94, 200, 208, 252, 221, 231, 244, 263, 302, 376, 382, 438
Outcome assessment 376
Pacemakers 343, 411
Pacing 23, 191
Pain scale 252
Palliative care 323
Pandemics 244
Paroxysmal atrial fibrillation 200

Patent foramen ovale 144, 151
Patient perception 357
Patient satisfaction 357
Pediatric cardiac surgery 376, 475
Pediatric neurology 145
Pediatric surgery 131, 138, 475,
Peer-review 1, 165, 319, 422
Percutaneous coronary intervention 11
Perforation 140, 160, 164
Pericardial effusion 532
Pericardiocentesis 532
Peripheral arterial disease 435
Permanent pacemaker implantation 411
Persistent left superior vena cava 411
Physical therapy 131, 138
Physical therapy modalities 131, 138
Pleural effusion 140, 160, 164
Pneumonectomy 43
Pneumonia 293
Pneumothorax 140, 160, 164
Population immunity 73
Positron emission tomography 428
Post-acute sequelae of COVID-19 244
Postinfarction atherosclerosis 154, 163
Postoperative atrial fibrillation 371
Postoperative complications 221, 382
Postural interventions 131, 138
Predictive value 86, 94, 454
Predictors 67, 86, 94, 263, 284, 371, 376, 438, 454
Prevalence 73
Prevention 173, 343, 391
Primary healthcare facility 277
Primary prevention 169
Private hospital 277
Procalcitonin 67
Prognosis 438
Project 421
Prospective study 57, 67, 200, 231, 438, 448, 475, 484
Prosthetic patch aortoplasty 382
Prosthetic valve endocarditis 509
Public health 1, 27, 32, 165, 213, 319, 350, 422
Public hospital 277
Pulmonary arterial hypertension 231, 364
Pulmonary embolism 86
Pulmonary veins isolation 200
PUMA score 448
Quality of life 57, 111, 200, 252,
Questionnaire 350, 357
Quiz 144, 151, 154, 163
Radiology 35
Randomized study 178, 484
Re-coarctation 382
Redo surgery 119, 131
Redo transplantation 131, 138
Regional wall motion 327
Regression analysis 86, 94, 263, 371
Rehabilitation 111, 131, 138, 252
Remodeling 178
Renal function 438, 475
Renal oximetry 475
Renal replacement therapy 323
Research administration 421
Research education 421
Resection and end-to-end anastomosis 382
Resistance training 131, 138
Respiratory metaboreflex 111
Respiratory muscle training 111, 131, 138
Respiratory paralysis 376
Retrospective study 43, 51, 94, 107, 191, 213, 244, 263, 376, 454, 463
Rheumatic mitral stenosis 231
Rhythm control 173
Right anterolateral mini thoracotomy 364
Right atrial lead maneuver 411
Right atrium 144, 151, 411, 469
Right ventricle 231
Right ventricular dysfunction 231
Right ventricular failure 231
Risk factors 51, 86, 94, 169, 293
Risk factors modification 173
Risk score 169, 173
Risk stratification 263, 391, 428
ROC analysis 67, 454
Salmonellosis 213
Sarcopenia 111
SARS-COV-2 73, 86
SARS-CoV-2 testing 73
Scientific statement 323, 336, 343
Screening 32
Secondary prevention 169
Seeking medical care 73
Sensitivity 67, 448, 454
Sepsis 67
Seroepidemiological study 73
Seropositivity 73
Seroprevalence 73
SF-36 questionnaire 252

Signage 357
Siloplasty 463
Single-stage surgery 119, 124
Small interfering ribonucleic acid (siRNA) targeting PCSK9
Smoking 169
Smoking pack-years 448
Solution 277
Specificity 67, 448, 454
Spirometry 448
Staphylococcus aureus 545
State-of-art review 391
Statin 169
Stress cardiac magnetic resonance perfusion 428
Stress echocardiography 327, 391, 428
Stress test 327
Stroke 94, 263, 284, 293, 313, 509
Stroke-associated pneumonia 293
Structural heart interventions 1, 107, 165, 319, 509
Study on diagnostic accuracy 67, 448, 454
Surgery 1, 11, 43, 51, 119, 165, 140, 160, 164, 221, 231, 252, 319, 343, 364, 371, 376, 382, 422, 463, 469, 475, 509, 521, 532, 545
Surgery procedures 1, 11, 43, 51, 119, 140, 160, 164, 165, 319, 422, 463, 469, 475, 509, 521, 532, 545
Surgical aortic valve replacement, SAVR 509
Survey 1
Survival 67, 221
Sustainable development goals 422
Systematic review 111, 284, 293, 302
Systemic inflammatory response syndrome 67
Thoracic endovascular aortic repair ,TEVAR 526
Thoracic surgery 43, 119, 376
Thoracic venous anomalies 411
Thoracotomy 140, 160, 164, 364
Thorax 35, 43, 140, 160, 164
Thrombectomy 469
Thromboembolic complication 221
Thromboembolic risk 173
Thrombophlebitis 35
Thrombosis 86, 469
Time in therapeutic range 221
Total training duration 493
Toxic infections 213
Toxicosis 213
TP53 mutation 313
Training type 493
Transcatheter aortic valve replacement, TAVR 107, 509
Transesophageal echocardiography 144, 151, 469
Transplantation 1, 131, 138, 165, 319, 422
Transthoracic echocardiography 244, 422, 428, 431, 438, 454, 469, 493, 521, 532
Trastuzumab 57
Treatment 43, 57, 144, 151, 173, 175, 293, 422, 428, 431, 435
Trials 1, 165, 319, 422
TTK™ Chitra valve 221
Tuberculosis 43
Tumor 124, 532
Ultrasound imaging 35
Universal symbols 357
Vaccination status 208
Valvular heart diseases 107, 221, 364, 454, 509
Valvular heart surgery 364, 509
Vascular diseases 35, 86, 94, 119, 175, 263, 284, 382, 435, 526
Vascular graft 119, 526
Vascular interventions 175, 526
Vascular surgery 119, 175, 382, 435, 526
Vasoactive-inotropic score 231
Venous catheterization 469
Ventilation 347
Ventilator-associated pneumonia 545
Ventricular function 107
Ventricular septal defect 244
Vessels 154, 163
Virus 73, 145, 208
Wayfinding 357
Weaning off cardiopulmonary bypass 231
Weekly training load 493
Welfare 32
Wistar rat 178, 484
Wong-Baker scale 252
Work capacity 131, 138
World Health Organization 27, 73