ESC Congress
Munich 2018
25-29 August
Where the world of cardiology comes together

Topic List
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      11.4.99 Acute Heart Failure: Treatment, Other
   11.5 Acute Heart Failure - Prevention
   11.6 Acute Heart Failure - Clinical
   11.99 Acute Heart Failure - Other

E CORONARY ARTERY DISEASE, ACUTE CORONARY SYNDROMES, ACUTE CARDIAC CARE

12 Coronary Artery Disease (Chronic)
   12.1 Coronary Artery Disease - Pathophysiology and Mechanisms
      12.1.1 Chronic Ischemia
      12.1.2 Coronary Circulation, Flow, and Flow Reserve
      12.1.3 Coronary Microcirculation and Collaterals
      12.1.4 Coronary Artery Disease: Inflammation and Immunity
      12.1.5 Hibernation
      12.1.99 Coronary Artery Disease: Pathophysiology, Other
   12.2 Coronary Artery Disease - Epidemiology, Prognosis, Outcome
   12.3 Coronary Artery Disease - Diagnostic Methods
      12.3.1 Coronary Artery Disease: Noninvasive Diagnostic Methods
12.3.2 Coronary Artery Disease: Angiography, Invasive Imaging, FFR
12.3.3 Coronary Artery Disease: Diagnostic Methods, Other

12.4 Coronary Artery Disease - Treatment
12.4.1 Coronary Artery Disease: Lifestyle Modification
12.4.2 Coronary Artery Disease: Non-pharmacological Treatment
12.4.3 Coronary Artery Disease: Pharmacotherapy
12.4.4 Coronary Artery Disease: Treatment, Revascularization
12.4.4.1 Percutaneous Coronary Intervention
12.4.4.2 Coronary Artery Disease: Treatment, Revascularization; Bypass Surgery
12.4.4.99 Coronary Artery Disease: Treatment, Revascularization, Other
12.4.99 Coronary Artery Disease: Treatment, Other

12.5 Coronary Artery Disease - Prevention
12.6 Coronary Artery Disease - Clinical
12.6.1 Coronary Artery Disease and Comorbidities
12.6.99 Coronary Artery Disease: Clinical, Other

12.7 Non-Atherosclerotic Coronary Abnormalities
12.99 Coronary Artery Disease - Other

13 Acute Coronary Syndromes
13.1 Acute Coronary Syndromes - Pathophysiology and Mechanisms
13.1.1 Acute Myocardial Ischemia
13.1.2 Thrombosis, Platelets, and Coagulation
13.1.3 Acute Coronary Syndromes: Inflammation
13.1.4 Vulnerable Plaque
13.1.5 Vasospasm
13.1.6 Reperfusion and Reperfusion Injury
13.1.7 Left Ventricular Remodeling
13.1.8 No Reflow
13.1.99 Acute Coronary Syndromes; Pathophysiology, Other

13.2 Acute Coronary Syndromes - Epidemiology, Prognosis, Outcome

13.3 Acute Coronary Syndromes - Diagnostic Methods
13.3.1 Acute Coronary Syndromes: Biomarkers
13.3.2 Acute Coronary Syndromes: Non-invasive Imaging
13.3.3 Acute Coronary Syndromes: Angiography, Invasive Imaging, FFR
13.3.99 Acute Coronary Syndromes: Diagnostic Methods, Other

13.4 Acute Coronary Syndromes - Treatment
13.4.1 Acute Coronary Syndromes: Lifestyle Modification
13.4.2 Acute Coronary Syndromes: Pharmacotherapy
13.4.2.1 Acute Coronary Syndromes: Antiplatelet Agents
13.4.2.2 Acute Coronary Syndromes: Thrombolysis/Fibrinolysis
13.4.2.3 Acute Coronary Syndromes: Statins
13.4.2.99 Acute Coronary Syndromes: Drug Treatment, Other

13.4.3 Acute Coronary Syndromes: Treatment, Revascularization
13.4.3.1 Acute Coronary Syndromes: Treatment, Revascularization; Coronary Intervention
13.4.3.2 Acute Coronary Syndromes: Treatment, Revascularization; Bypass Surgery
13.4.3.99 Acute Coronary Syndromes - Treatment, Revascularization, Other
13.4.99 Acute Coronary Syndromes: Treatment, Other

13.5 Acute Coronary Syndromes - Prevention

13.6 Acute Coronary Syndromes - Clinical
13.6.1 Unstable Angina
13.6.2 Non-ST-Elevation Myocardial Infarction (NSTEMI)
13.6.3 ST-Elevation Myocardial Infarction (STEMI)
13.6.4 Acute Coronary Syndromes: Shock
13.6.5 Acute Coronary Syndromes: Post-Infarction Period
13.6.6 Acute Coronary Syndromes: Myocardial Infarction with Non-obstructive Coronary Arteries
13.6.7 Acute Coronary Syndromes: Tako-Tsubo Cardiomyopathy
13.6.99 Acute Coronary Syndromes: Clinical, Other

13.99 Acute Coronary Syndromes - Other
14 Acute Cardiac Care
14.1 Acute Cardiac Care - Resuscitation
14.2 Acute Cardiac Care - Prehospital and Emergency Department Care
14.3 Acute Cardiac Care - CCU, Intensive, and Critical Cardiovascular Care
14.4 Acute Cardiac Care - Cardiogenic Shock
14.5 Acute Cardiac Care - Cardiac Arrest
14.99 Acute Cardiac Care - Other

F VALVULAR, MYOCARDIAL, PERICARDIAL, PULMONARY, CONGENITAL HEART DISEASE
15 Valvular Heart Disease
15.1 Valvular Heart Disease - Pathophysiology and Mechanisms
15.2 Valvular Heart Disease - Epidemiology, Prognosis, Outcome
15.3 Valvular Heart Disease - Diagnostic Methods
15.4 Valvular Heart Disease - Treatment
  15.4.1 Valvular Heart Disease: Pharmacotherapy
  15.4.2 Valvular Heart Disease: Intervention
    15.4.2.1 Aortic Stenosis
    15.4.2.2 Aortic Regurgitation
    15.4.2.3 Mitral Stenosis
    15.4.2.4 Mitral Regurgitation
    15.4.2.5 Pulmonary Valve Stenosis
    15.4.2.6 Pulmonary Valve Regurgitation
    15.4.2.7 Tricuspid Valve Stenosis
    15.4.2.8 Tricuspid Valve Regurgitation
    15.4.2.99 Valvular Heart Disease: Intervention, Other
  15.4.3 Valvular Heart Disease: Surgery
  15.4.99 Valvular Heart Disease: Treatment, Other
15.5 Valvular Heart Disease - Prevention
15.6 Valvular Heart Disease - Clinical
  15.6.1 Aortic Valve Stenosis
  15.6.2 Aortic Valve Regurgitation
  15.6.3 Aortic Valve Disease, Other
  15.6.4 Mitral Valve Stenosis
  15.6.5 Mitral Valve Regurgitation
    15.6.5.1 Primary Mitral Valve Regurgitation
    15.6.5.2 Secondary Mitral Valve Regurgitation
    15.6.5.99 Mitral Valve Regurgitation, Other
  15.6.6 Mitral Valve Prolapse
  15.6.7 Mitral Valve Disease, Other
  15.6.8 Tricuspid Valve Disease
  15.6.9 Pulmonary Valve Disease
  15.6.10 Rheumatic Heart Disease
  15.6.11 Prosthetic Heart Valves
  15.6.99 Valvular Heart Disease: Clinical, Other
15.99 Valvular Heart Disease - Other

16 Infective Endocarditis
16.1 Infective Endocarditis - Pathophysiology and Mechanisms
16.2 Infective Endocarditis - Epidemiology, Prognosis, Outcome
16.3 Infective Endocarditis - Diagnostic Methods
  16.3.1 Infective Endocarditis - Diagnostic Methods: Imaging
  16.3.2 Infective Endocarditis - Diagnostic Methods: Microbiology
  16.3.99 Infective Endocarditis: Diagnostic Methods, Other
16.4 Infective Endocarditis - Treatment
  16.4.1 Infective Endocarditis: Pharmacotherapy
  16.4.2 Infective Endocarditis: Surgery
  16.4.99 Infective Endocarditis: Treatment, Other
16.5 Infective Endocarditis - Prevention
16.6 Infective Endocarditis - Clinical
16.7 Cardiac Implantable Device-related Endocarditis
16.99 Infective Endocarditis - Other

17 Myocardial Disease
17.1 Myocardial Disease - Pathophysiology and Mechanisms
17.2 Myocardial Disease - Epidemiology, Prognosis, Outcome
17.3 Myocardial Disease - Diagnostic Methods
17.4 Myocardial Disease - Treatment
  17.4.1 Myocardial Disease: Pharmacotherapy
  17.4.2 Myocardial Disease: Treatment, Other
17.5 Myocardial Disease - Prevention
17.6 Myocardial Disease - Clinical
  17.6.1 Myocarditis
  17.6.2 Hypertrophic Cardiomyopathy
  17.6.3 Dilative Cardiomyopathy
  17.6.4 Restrictive Cardiomyopathy and Loeffler’s Disease
  17.6.5 Myocardial Disease - Clinical: Arrhythmogenic Right Ventricular Cardiomyopathy
  17.6.6 Hypertensive Heart Disease
  17.6.7 Infiltrative Myocardial Disease
    17.6.7.1 Amyloid Heart Disease
    17.6.7.2 Cardiac Sarcoidosis
    17.6.7.3 Fabry’s Disease
    17.6.7.4 Mucopolysaccharidosis (MPS)
    17.6.7.99 Infiltrative Myocardial Disease, Other
  17.6.8 Chagas Disease
  17.6.9 Tako-Tsubo Cardiomyopathy
  17.6.10 Peripartum Cardiomyopathy
  17.6.11 Ventricular Non-compaction
  17.6.99 Myocardial Disease: Clinical, Other
17.99 Myocardial Disease - Other

18 Pericardial Disease
18.1 Pericardial Disease - Pathophysiology and Mechanisms
18.2 Pericardial Disease - Epidemiology, Prognosis, Outcome
18.3 Pericardial Disease - Diagnostic Methods
18.4 Pericardial Disease - Treatment
  18.4.1 Pericardial Disease: Pharmacotherapy
  18.4.2 Pericardial Disease: Intervention and Surgery
  18.4.99 Pericardial Disease: Treatment, Other
18.5 Pericardial Disease - Prevention
18.6 Pericardial Disease - Clinical
  18.6.1 Pericarditis
  18.6.2 Pericardial Effusion
  18.6.3 Pericardial Constriction
  18.6.99 Pericardial Disease: Clinical, Other
18.99 Pericardial Disease - Other

19 Tumors of the Heart
19.1 Tumors of the Heart - Pathophysiology and Mechanisms
19.2 Tumors of the Heart - Epidemiology, Prognosis, Outcome
19.3 Tumors of the Heart - Diagnostic Methods
19.4 Tumors of the Heart - Treatment
19.5 Tumors of the Heart - Prevention
19.6 Tumors of the Heart - Clinical
  19.6.1 Myxoma
  19.6.99 Tumors of the Heart: Clinical, Other
19.99 Tumors of the Heart - Other
20 Congenital Heart Disease and Pediatric Cardiology

20.1 Congenital Heart Disease – Pathophysiology and Mechanisms
20.2 Congenital Heart Disease – Epidemiology, Prognosis, Outcome
20.3 Congenital Heart Disease – Diagnostic Methods
  20.3.1 Congenital Heart Disease: Echocardiography
  20.3.2 Congenital Heart Disease: CMR
  20.3.99 Congenital Heart Disease: Diagnostic Methods, Other
20.4 Congenital Heart Disease – Treatment
  20.4.1 Congenital Heart Disease: Lifestyle Modification
  20.4.2 Congenital Heart Disease: Pharmacotherapy
  20.4.3 Congenital Heart Disease: Intervention
  20.4.4 Congenital Heart Disease: Surgery
  20.4.99 Congenital Heart Disease: Treatment, Other
20.5 Congenital Heart Disease – Prevention
20.6 Congenital Heart Disease – Clinical
  20.6.1 Fetal Heart Disease
  20.6.2 Adult Congenital Heart Disease, Clinical
  20.6.99 Congenital Heart Disease: Clinical, Other
20.7 Pediatric Cardiology
20.99 Congenital Heart Disease and Pediatric Cardiology: Other

21 Pulmonary Circulation, Pulmonary Embolism, Right Heart Failure

21.1 Pulmonary Circulation, Pulmonary Embolism, Right Heart Failure – Pathophysiology and Mechanisms
21.2 Pulmonary Circulation, Pulmonary Embolism, Right Heart Failure – Epidemiology, Prognosis, Outcome
21.3 Pulmonary Circulation, Pulmonary Embolism, Right Heart Failure – Diagnostic Methods
21.4 Pulmonary Circulation, Pulmonary Embolism, Right Heart Failure – Treatment
  21.4.1 Pulmonary Circulation, Pulmonary Embolism, Right Heart Failure: Pharmacotherapy
  21.4.2 Pulmonary Circulation, Pulmonary Embolism, Right Heart Failure: Intervention
  21.4.3 Pulmonary Circulation, Pulmonary Embolism, Right Heart Failure: Surgery
  21.4.99 Pulmonary Circulation, Pulmonary Embolism, Right Heart Failure: Treatment, Other
21.5 Pulmonary Circulation, Pulmonary Embolism, Right Heart Failure – Prevention
21.6 Pulmonary Circulation, Pulmonary Embolism, Right Heart Failure – Clinical
  21.6.1 Pulmonary Embolism
  21.6.2 Venous Thromboembolism
  21.6.3 Pulmonary Hypertension
  21.6.99 Pulmonary Circulation, Clinical, Other
21.99 Pulmonary Circulation, Pulmonary Embolism, Right Heart Failure: Other

6 AORTIC DISEASE, PERIPHERAL VASCULAR DISEASE, STROKE

22 Aortic Disease

22.1 Aortic Disease – Pathophysiology and Mechanisms
22.2 Aortic Disease – Epidemiology, Prognosis, Outcome
22.3 Aortic Disease – Diagnostic Methods
  22.3.1 Aortic Disease: Echocardiography
  22.3.2 Aortic Disease: Computed Tomography
  22.3.3 Aortic Disease: CMR
  22.3.99 Aortic Disease: Diagnostic Methods, Other
22.4 Aortic Disease – Treatment
  22.4.1 Aortic Disease: Lifestyle Modification
  22.4.2 Aortic Disease: Pharmacotherapy
  22.4.3 Aortic Disease: Intervention
  22.4.4 Aortic Disease: Surgery
  22.4.99 Aortic Disease: Treatment, Other
22.5 Aortic Disease – Prevention
22.6 Aortic Disease – Clinical
  22.6.1 Acute Aortic Syndromes, Aortic Dissection
  22.6.2 Aortic Aneurysm, Thoracic
22.6.3 Aortic Aneurysm, Abdominal
22.6.4 Inflammatory Aortic Disease
22.6.5 Traumatic Injury of the Aorta
22.6.99 Aortic Disease: Clinical, Other

22.99 Aortic Disease - Other

23 Peripheral Vascular and Cerebrovascular Disease
23.1 Peripheral Vascular and Cerebrovascular Disease - Pathophysiology and Mechanisms
23.2 Peripheral Vascular and Cerebrovascular Disease - Epidemiology, Prognosis, Outcome
23.3 Peripheral Vascular and Cerebrovascular Disease - Diagnostic Methods
23.4 Peripheral Vascular and Cerebrovascular Disease - Treatment
  23.4.1 Peripheral Vascular and Cerebrovascular Disease: Lifestyle Modification
  23.4.2 Peripheral Vascular and Cerebrovascular Disease: Pharmacotherapy
  23.4.3 Peripheral Vascular and Cerebrovascular Disease: Intervention
  23.4.4 Peripheral Vascular and Cerebrovascular Disease: Surgery
  23.4.99 Peripheral Vascular and Cerebrovascular Disease: Treatment, Other
23.5 Peripheral Vascular and Cerebrovascular Disease - Prevention
23.6 Peripheral Vascular and Cerebrovascular Disease - Clinical
  23.6.1 Peripheral Artery Disease
  23.6.2 Carotid Disease
  23.6.3 Venous Disease
  23.6.99 Peripheral Vascular and Cerebrovascular Disease: Clinical, Other
23.99 Peripheral Vascular and Cerebrovascular Disease - Other

24 Stroke
24.1 Stroke - Pathophysiology and Mechanisms
24.2 Stroke - Epidemiology, Prognosis, Outcome
24.3 Stroke - Diagnostic Methods
24.4 Stroke - Treatment
  24.4.1 Stroke: Lifestyle Modification
  24.4.2 Stroke: Pharmacotherapy
  24.4.3 Stroke: Acute Intervention
  24.4.4 Stroke: Surgery
  24.4.99 Stroke: Treatment, Other
24.5 Stroke - Prevention
24.6 Stroke - Clinical
  24.6.1 Stroke: Carotid Stenosis
  24.6.2 Stroke: Persistent Foramen Ovale and PFO closure
  24.6.3 Stroke: Cardiogenic Embolism
    24.6.3.1 Stroke: Atrial Fibrillation
    24.6.3.2 Stroke: LAA and LAA closure
    24.6.3.99 Stroke: Cardiogenic Embolism, Other
24.6.99 Stroke: Clinical, Other
24.7 Heart and Brain Interaction
24.99 Stroke - Other

H INTERVENTIONAL CARDIOLOGY AND CARDIOVASCULAR SURGERY

25 Interventional Cardiology
25.1 Invasive Imaging and Functional Assessment
  25.1.1 Invasive Hemodynamic Assessment/Right Heart Catheterization
  25.1.2 Coronary Angiography
  25.1.3 Peripheral Angiography
  25.1.4 Intracoronary Ultrasound
  25.1.5 Optical Coherence Tomography
  25.1.6 Fractional Flow Reserve
  25.1.7 Coronary Flow Reserve
  25.1.99 Invasive Imaging, Other
25.2 Coronary Intervention
25.2.1 Coronary Intervention: Vascular Access
25.2.2 Coronary Intervention: Devices
25.2.3 Coronary Intervention: Stents
25.2.4 Coronary Intervention: Technique
25.2.5 Coronary Intervention: Complications
25.2.6 Coronary Intervention: Primary and Acute PCI
25.2.7 Coronary Intervention: CTO
25.2.8 Coronary Intervention: Adjunctive Pharmacotherapy
25.2.9 Coronary Intervention: Mechanical Circulatory Support
25.2.10 Coronary Intervention: Restenosis
25.2.11 Coronary Intervention: Stent Thrombosis
25.2.12 Coronary Intervention: Outcome
25.2.99 Coronary Intervention, Other

25.3 Non-coronary Cardiac Intervention
25.3.1 Aortic Valve Intervention
25.3.2 Mitral Valve Intervention
25.3.3 Tricuspid Valve Intervention
25.3.4 Pulmonary Valve Intervention
25.3.5 PFO/ASD Closure
25.3.6 LAA Closure
25.3.99 Non-Coronary Cardiac Intervention, Other

25.99 Interventional Cardiology - Other

26 Cardiovascular Surgery
26.1 Cardiovascular Surgery - Coronary Arteries
26.2 Cardiovascular Surgery - Valves
26.3 Cardiovascular Surgery - Congenital Heart Disease
26.4 Cardiovascular Surgery - Aorta
26.5 Cardiovascular Surgery - Carotid and Peripheral Arteries
26.6 Cardiovascular Surgery - Ventricular Assist Devices and Artificial Heart
26.7 Cardiovascular Surgery - Circulatory Support
26.8 Cardiovascular Surgery - Transplantation
26.9 Cardiovascular Surgery - Arrhythmias
26.10 Cardiovascular Surgery - Minimally Invasive Surgery
26.99 Cardiovascular Surgery - Other

I HYPERTENSION

27 Hypertension
27.1 Hypertension - Pathophysiology and Mechanisms
27.1.1 Target Organ Damage/ Left Ventricular Hypertrophy
27.1.2 Renin-Angiotensin System
27.1.3 Endocrine Hypertension
27.1.4 Renal Artery Stenosis / Autonomic Nervous System
27.1.99 Secondary Hypertension, Other

27.2 Hypertension - Epidemiology, Prognosis, Outcome

27.3 Hypertension - Diagnostic Methods
27.3.1 Blood Pressure Measurement
27.3.2 Hypertension: Diagnostic Methods, Other

27.4 Hypertension - Treatment
27.4.1 Hypertension: Lifestyle Modification
27.4.2 Hypertension: Pharmacotherapy
27.4.3 Hypertension: Device Treatment and Intervention
27.4.3.1 Renal Denervation
27.4.3.2 Hypertension: Device Treatment and Intervention, Other
27.4.4 Hypertension: Treatment, Other

27.5 Hypertension - Prevention

27.6 Hypertension - Clinical

27.99 Hypertension - Other
## J PREVENTIVE CARDIOLOGY

### 28 Risk Factors and Prevention

#### 28.1 Risk Factors and Prevention - Epidemiology

#### 28.2 Risk Factors and Prevention - Cardiovascular Risk Assessment

- 28.2.1 Prevention - Cardiovascular Risk Assessment: Scores
- 28.2.2 Prevention - Cardiovascular Risk Assessment: Biomarkers
- 28.2.3 Prevention - Cardiovascular Risk Assessment: Imaging
- 28.2.4 Prevention - Cardiovascular Risk Assessment, Other

#### 28.3 Secondary Prevention

#### 28.4 Lipids

- 28.4.1 Lipids: Drug therapy
- 28.4.99 Lipids, Other

#### 28.5 Tobacco

#### 28.6 Obesity

#### 28.7 Diabetes and the Heart

- 28.7.1 Diabetes and the Heart: Pathophysiology
- 28.7.2 Metabolic Syndrome, Insulin, Insulin Resistance
- 28.7.3 Diabetes and the Heart: Pharmacotherapy
- 28.7.4 Diabetes and the Heart: PCI and Surgery
- 28.7.99 Diabetes and the Heart, Other

#### 28.8 Environmental and Occupational Aspects of Heart Disease

- 28.8.1 Environmental Aspects of Heart Disease
- 28.8.2 Occupational Aspects of Heart Disease
- 28.8.99 Environmental and Occupational Aspects of Heart Disease, Other

#### 28.9 Stress, Psycho-Social and Cultural Aspects of Heart Disease

#### 28.10 Depression and Heart Disease

#### 28.11 Nutrition, Malnutrition and Heart Disease

#### 28.12 Physical Inactivity and Exercise

- 28.12.1 Prevention: Physical Inactivity
- 28.12.2 Prevention: Exercise
- 28.12.99 Prevention: Physical Inactivity and Exercise, Other

#### 28.13 Sleep Disorders

- 28.13.1 Sleep Apnea
- 28.13.99 Sleep Disorders, Other

#### 28.99 Risk Factors and Prevention - Other

### 29 Rehabilitation and Sports Cardiology

#### 29.1 Exercise Testing

- 29.1.1 Spiroergometry
- 29.1.99 Exercise Testing, Other

#### 29.2 Cardiovascular Rehabilitation

- 29.2.1 Rehabilitation: Exercise Programmes
- 29.2.2 Rehabilitation: Education
- 29.2.3 Rehabilitation: Outcomes
- 29.2.99 Cardiovascular Rehabilitation, Other

#### 29.3 Sports Cardiology

- 29.3.1 Athlete’s Heart
- 29.3.2 Sports Cardiology: Electrocardiography (ECG)
- 29.3.3 Sports Cardiology: Arrhythmias
- 29.3.4 Sudden Death in Sports
- 29.3.5 Pre-Competition Screening and Sports Eligibilty
- 29.3.6 Cardiovascular Effects of Substance Abuse/Doping
- 29.3.99 Sports Cardiology, Other

#### 29.99 Rehabilitation and Sports Cardiology - Other
K CARDIOVASCULAR DISEASE IN SPECIAL POPULATIONS
30 Cardiovascular Disease in Special Populations
30.1 Cardiovascular Disease in Primary Care
30.2 Cardiovascular Disease in Women
30.3 Cardiovascular Disease in Special Populations: Pediatric Cardiology
30.4 Non-cardiac Surgery/Pre-surgical Assessment
30.5 Cardiovascular Disease in the Elderly
30.6 Cardio-Oncology
30.7 Pregnancy and Cardiovascular Disease
30.8 HIV and Cardiovascular Disease
30.9 Renal Failure and Cardiovascular Disease
30.10 Neurologic Disorders and Heart Disease
30.11 Psychiatric Disorders and Heart Disease
30.12 Autoimmune/Chronic Inflammatory Disorders and Heart Disease
30.13 Substance Abuse and Cardiovascular Disease
30.99 Cardiovascular Disease in Special Populations - Other

L CARDIOVASCULAR PHARMACOLOGY
31 Pharmacology and Pharmacotherapy
31.1 Cardiovascular Pharmacotherapy
   31.1.1 Aldosterone Antagonists
   31.1.2 Antiarrhythmic Pharmacotherapy
   31.1.3 Angiotensin-Renin-Bradykinine System
   31.1.4 Anticoagulants
   31.1.5 Antiplatelet Drugs
   31.1.6 Beta Blockers
   31.1.7 Calcium Channel Blockers
   31.1.8 Diuretics
   31.1.9 Nitrates
   31.1.10 Lipid-Lowering Agents
      31.1.10.1 Statins
      31.1.10.2 Cholesterol Resorption Antagonists
      31.1.10.3 LDL-Receptor Antagonists
      31.1.10.4 PCSK9-Antagonists
      31.1.10.99 Lipid-Lowering Agents, Other
   31.1.11 Anti-Diabetic Pharmacotherapy
   31.1.99 Cardiovascular Drug Therapy, Other
31.2 Pharmacogenetics
31.3 Biotherapies
31.4 Cardiotoxicity of Drugs
31.99 Pharmacology and Pharmacotherapy - Other

M CARDIOVASCULAR NURSING
32 Cardiovascular Nursing
32.1 Acute Nursing Care
32.2 Chronic Nursing Care
32.99 Cardiovascular Nursing - Other

N E-CARDIOLOGY / DIGITAL HEALTH, PUBLIC HEALTH, HEALTH ECONOMICS, RESEARCH METHODOLOGY
33 e-Cardiology / Digital Health
33.1 Image Processing and Imaging Standards
33.2 Cardiovascular Signal Processing
   33.2.1 ECG and Arrhythmia Analysis
   33.2.99 Cardiovascular Signal Processing, Other
33.3 Computer Modeling and Simulation
33.4 Digital Health
  33.4.1 Remote Patient Monitoring and Telemedicine
  33.4.2 Hospital Information Systems
  33.4.3 Digital Health: Big Data Analysis
  33.4.4 e-Health
  33.4.5 m-Health
  33.4.99 Digital Health, Other
33.99 e-Cardiology - Other

34 Public Health and Health Economics
  34.1 Public Health
  34.2 Health Policy
  34.3 Health Economics
  34.99 Public Health and Health Economics - Other

35 Research Methodology
  35.1 Biostatistics
  35.2 Research Methodology: Big Data Analysis
  35.3 Cardiovascular Epidemiology
  35.4 Trial Design
  35.5 Research Ethics
  35.99 Research Methodology - Other

0 BASIC SCIENCE

36 Basic Science
  36.1 Basic Science - Cardiovascular Development and Anatomy
    36.1.1 Basic Science - Cardiovascular Development and Anatomy: Stem Cells, Cell Cycle, Cell Senescence, Cell Death
    36.1.2 Basic Science - Cardiovascular Development and Anatomy: Genetics, Epigenetics, ncRNA
    36.1.99 Cardiovascular Development and Anatomy, Other
  36.2 Basic Science - Cardiac Biology and Physiology
    36.2.1 Stem Cells, Cell Cycle, Cell Senescence, Cell Death
    36.2.2 Basic Science - Cardiac Biology and Physiology: Genetics, Epigenetics, ncRNA
    36.2.3 Basic Science - Cardiac Biology and Physiology: Signal Transduction, Mechano-Transduction
    36.2.4 Basic Science - Cardiac Biology and Physiology: Ion Channels, Electrophysiology
    36.2.5 Basic Science - Cardiac Biology and Physiology: Mitochondria
    36.2.6 Basic Science - Cardiac Biology and Physiology: Microvesicles, Exosomes
    36.2.7 Basic Science - Cardiac Biology and Physiology: Metabolism
    36.2.8 Basic Science - Cardiac Biology and Physiology: Leukocytes, Inflammation, Immunity
    36.2.9 Basic Science - Cardiac Biology and Physiology: Biomaterials, Tissue Engineering
    36.2.99 Cardiac Biology and Physiology, Other
  36.3 Basic Science - Cardiac Diseases
    36.3.1 Ischemia, Infarction, Cardioprotection
    36.3.2 Basic Science - Cardiac Diseases: Cardiac Hypertrophy
    36.3.3 Basic Science - Cardiac Diseases: Heart Failure
    36.3.4 Basic Science - Cardiac Diseases: Arrhythmias
    36.3.5 Basic Science - Cardiac Diseases: Cardiomyopathies
    36.3.6 Basic Science - Cardiac Diseases: Valvular Heart Disease
    36.3.7 Basic Science - Cardiac Diseases: Congenital Heart Disease
    36.3.8 Basic Science - Cardiac Diseases: Leukocytes, Inflammation, Immunity
    36.3.9 Basic Science - Cardiac Diseases: Fibrosis
    36.3.10 Basic Science - Cardiac Diseases: Drugs, Drug Targets
    36.3.11 Basic Science - Cardiac Diseases: Gene Therapy, Cell Therapy
    36.3.12 Basic Science - Cardiac Diseases: Biomarkers
    36.3.99 Cardiac Diseases, Other
  36.4 Basic Science - Vascular Biology and Physiology
    36.4.1 Stem Cells, Cell Cycle, Cell Senescence, Cell Death
36.4.2 Basic Science - Vascular Biology and Physiology: Genetics, Epigenetics, ncRNA
36.4.3 Basic Science - Vascular Biology and Physiology: Signal Transduction, Mechano-Transduction
36.4.4 Vascular Tone, Permeability, Microcirculation
36.4.5 Vascular Biology and Physiology: Ion Channels, Electrophysiology
36.4.6 Basic Science - Vascular Biology and Physiology: Mitochondria
36.4.7 Basic Science - Vascular Biology and Physiology: Microvesicles, Exosomes
36.4.8 Lipids, Metabolism
36.4.9 Platelets, Haemostasis, Coagulation
36.4.10 Basic Science - Vascular Biology and Physiology: Leukocytes, Inflammation, Immunity
36.4.11 Basic Science - Vascular Biology and Physiology: Biomaterials, Tissue Engineering
36.4.99 Vascular Biology and Physiology, Other
36.5 Basic Science - Vascular Diseases
36.5.1 Microcirculation, Angiogenesis, Arteriogenesis
36.5.2 Atherosclerosis, Cerebrovascular Diseases, Aneurysm, Restenosis
36.5.3 Hypertension, Pulmonary Hypertension
36.5.4 Thrombosis, Bleeding
36.5.5 Lipid Metabolism, Metabolic Syndrome, Diabetes
36.5.6 Basic Science - Vascular Diseases: Leukocytes, Inflammation, Immunity
36.5.7 Basic Science - Vascular Diseases: Fibrosis
36.5.8 Basic Science - Vascular Diseases: Drugs, Drug Targets
36.5.9 Basic Science - Vascular Diseases: Gene Therapy, Cell Therapy
36.5.10 Basic Science - Vascular Diseases: Biomarkers
36.5.99 Vascular Diseases, Other
36.99 Basic Science - Other

P OTHER
80 Training and Education
90 European Society of Cardiology
90.1 Acute Cardiovascular Care Association
90.2 Heart Failure Association
90.3 European Heart Rhythm Association
90.4 European Association of Percutaneous Cardiovascular Intervention
90.5 European Association of Preventive Cardiology
90.6 European Association of Cardiovascular Imaging
90.7 Councils
90.8 Working Groups
90.9 ESC Board
90.10 ESC Committees
90.11 European Heart House
90.12 European Heart Agency
90.13 EURObservational Research Programme
90.14 Education and Certification
90.99 European Society of Cardiology - Other
99 Other