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Cardiac Surgery Domain Terminology

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Purpose

- **Discuss impact of heart disease on Americans.**
- **Identify organizations key in addressing this threat and defining domain terminology**
- **Identify key terms within the domain.**





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Impact of Heart Disease on Americans

- **Leading cause of death in the U.S.**
- **An estimated 70,100,000 Americans (approx 1 in 4) have one or more forms of CVD.**
- **927,448 Americans died of heart disease (1 in every 2.6 deaths) in 2002.**
- **515,000 Coronary Artery Bypass Graftings were performed in 2002.**

(www.americanheart.org)





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Cardiac Surgery Domain Terminology

Smoking

Stress

Genetics

Cholesterol

Diet

Sedentary Lifestyle/Obesity

Diabetes

Hypertension





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Risk Factors





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Smoking

Stress

Genetics

Cholesterol

Diet

Sedentary Lifestyle/Obesity

Diabetes

Hypertension

(www.acc.org)





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Symptoms





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Chest Pain

- **Angina**
- **Crushing**
- **Pressure**
- **Radiating**





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EKG Changes

- **Palpitations**
- **Racing**
- **Ectopic beats**





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Shortness of Breath

- **SOB**
- **DIB**
- **Exertion**





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Diagnostics





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Angiography

- **Angioplasty/PTCA**
- **Stent**
- **Drug Eluting**
- **Triple Vessel Disease**
- **Arterial Sheath**
- **Venous Sheath**
- **Angiojet**
- **Wire**
- **Heart cath**





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Radiology

- **Chest Xray**
- **Portable**
- **CT**
- **CAT Scan**
- **MUGA Scan**
- **Digitizer**
- **PACS**
- **Radiograph**
- **Film**
- **Echocardiogram**





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Invasive Lines

- **Swan Ganz**
- **Arterial Line**
- **CVC**
- **Permacath**
- **Sheath**
- **Arterial**
- **Venous**





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Non-invasive Tests

- **ECG**
- **EKG**
- **Stress Test**
- **Non-Stress Test**
- **EP Studies**
- **Electrophysiology Studies**
- **Vital signs**
- **Glucometer**
- **Pulse oximeter**





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Labs

- **Hemoglobin/Hematocrit**
- **Calcium**
- **Magnesium**
- **BUN**
- **Creatinine**
- **Potassium**
- **Phosphorus**
- **Troponin**
- **CK MB**





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Treatments





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Medications

- **Antiarrhythmics**
- **Anticoagulants**
- **Beta Blockers**
- **Calcium Channel Blockers**
- **Nitrates**
- **Paralytics**
- **Sedatives**
- **Vasopressors**
- **Blood products**
- **Inotropic Agents**
- **Emergency Drugs**
- **Anti-Lipid**
- **GI**
- **Vitamins**
- **Pain Medications**
- **IV Fluids**
- **Antibiotics**





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Surgery

- **CABG**
- **Valve Replacement**
- **MAZE Procedure**
- **Chest tubes**
- **Pacemaker**
- **Suture**
- **Dressings**
- **Staples**





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CABG

- **MIDCAB**
- **OPCAB**
- **Traditional**

Valve Replacement

- **AVR**
- **MVR**
- **TVR**
- **Multiple Valve Replacement**





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Assistive Devices

- **Foley Catheter**
- **Chest Tube**
- **Ventilator**
- **Pacemaker**
- **IABP (Balloon Pump)**
- **VAD (Ventricular Assist Device)**





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Pulmonary

- **Incentive Spirometry**
- **Cough and Deep Breathing**
- **Intermittent Positive Pressure Breathing**
- **Oxygen Therapy**
 - CPAP/BiPAP
 - Nasal Cannula
 - Venturi Mask
 - Non-rebreather
 - Simple Mask
 - Partial Rebreather
 - Ventilator
 - Ambu Bag
 - Respirator
 - Extubated
- **Positioning**





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Nutrition

- **ADA Diet**
- **Cardiac Diet**
- **TPN/Lipids (Hyperalimentation)**
- **Tube Feeding**
- **NPO**





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Physical Rehab

- **Cardiac Rehab**
- **Physical Therapy**
- **Occupational Therapy**
- **Exercise**
- **Progressive**
- **Activity**
- **Bedrest**





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Counseling

- **Clinical**
- **Religious**
- **Social Work**





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Complications





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Complications

- Arrhythmias
- Stroke/CVA
- Bleeding/Coagulopathies
- Pneumonia/Atelectasis
- Wound Infection
- Renal Injury
- Hematoma
- Pneumothorax





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Anatomy/Phsiology





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Pulmonary

- **Lungs**
- **Alveoli**
- **Bronchial**
- **Vocal Cords**
- **Trachea**
- **Respirations**





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Cardiac

- **Mitral Valve**
- **Aortic Valve**
- **Left main**
- **LAD**
- **Tricuspid Valve**
- **Hilar**
- **Mediastinum**
- **RCA/Right Coronary artery**
- **Circumflex**
- **Bypass**
- **Pulses**





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GU

- **Urinary/Urine**
- **Output**
- **Kidney**
- **Renal**

GI

- **Abdomen**
- **Esophagus**
- **Bowel**
- **Gastric**





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Integumentary/Skin

- **Ecchymosis**
- **Wound**
- **Margins**
- **Sutures**
- **Petechiae**
- **staples**





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Neurological

- **Alert/Oriented**
- **Aldrete Scale**
- **Sedation**
- **Pain control**
- **Glascow Coma Scale/Score**
- **Pupils**
- **Fixed/dilated**
- **responsive**





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Clinical Services





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Physician and Extender

- **Medicine**
- **Critical Care**
- **Cardiac Surgery**
- **Cardiology**
- **Anesthesiology**
- **Radiology**





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Nursing

- **Case Manager**
- **CCU Nurse**
- **Circulator**
- **ER Nurse**
- **Floor Nurse**
- **Scrub Nurse**
- **RNFA**
- **First Assist/Assistant**
- **CRNA**





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Environmental





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Ambulance/EMS

- **EMT**
- **Paramedic**

ER

Operating Room (OR)

- **Surgery**
- **Electively**
- **Emergently**





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Intensive Care

- **Post-op**
- **CCU**
- **Cardiac**
- **Recovery**
- **Stepdown**

Discharge

- **Home**
- **Rehab**





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Cardiac Surgery Terminology Leaders

American College of Cardiology (www.acc.org)

Association of Operating Room Nurses (www.aorn.org)

American Heart Association (www.americanheart.org)

American Nurses Association (www.ana.org/NIDSEC)

