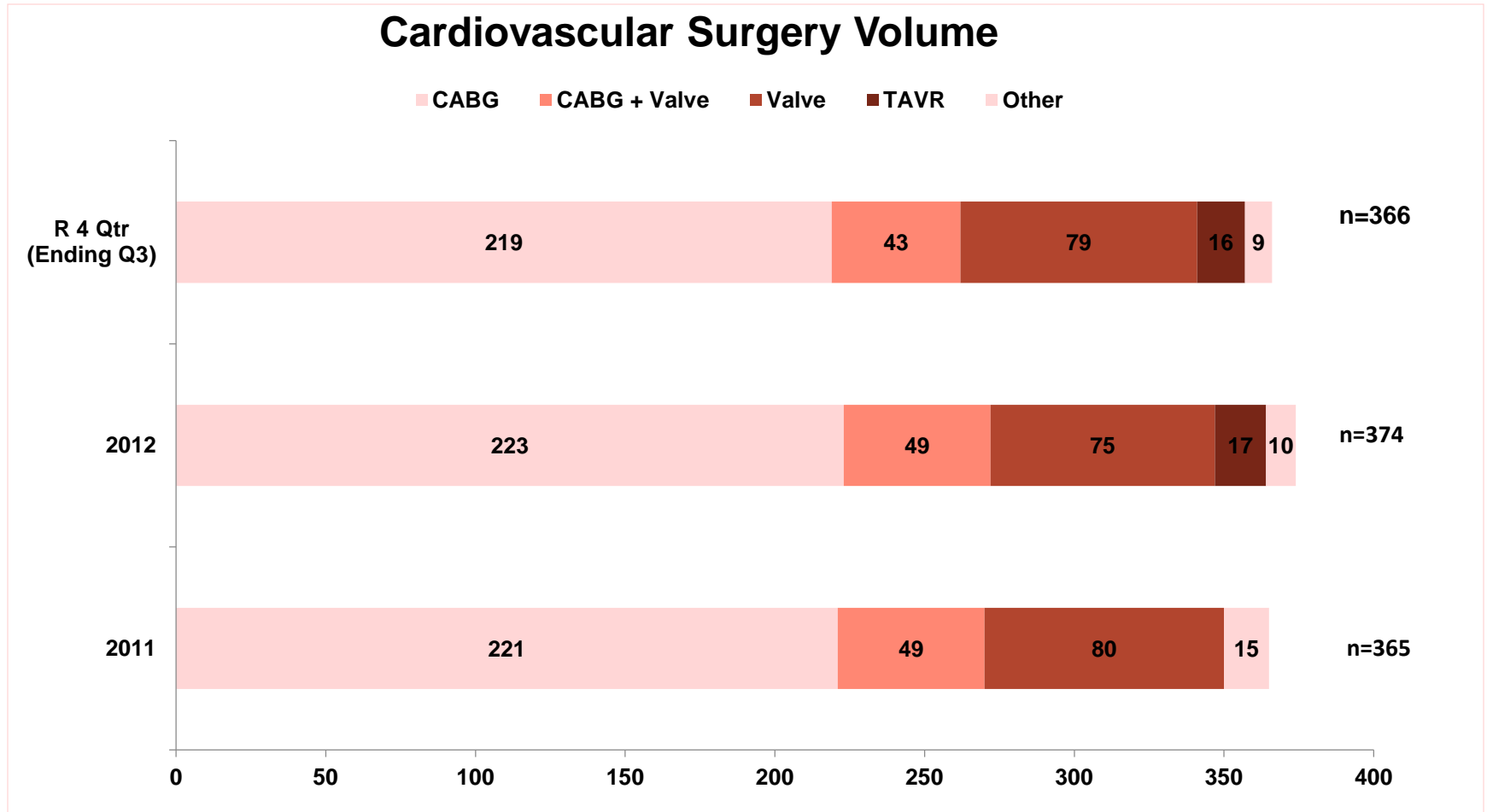


# Cardiothoracic Surgery Program

# Cardiothoracic Surgery Program

- Coronary artery bypass grafting (CABG)
- Off-pump coronary artery bypass (beating heart surgery)
- Heart valve repair or replacement
- Minimally invasive valve repair
- Transcatheter Aortic Valve Replacement (TAVR)
- Thoracic and abdominal aortic dissections
- Endovascular aortic stent grafting

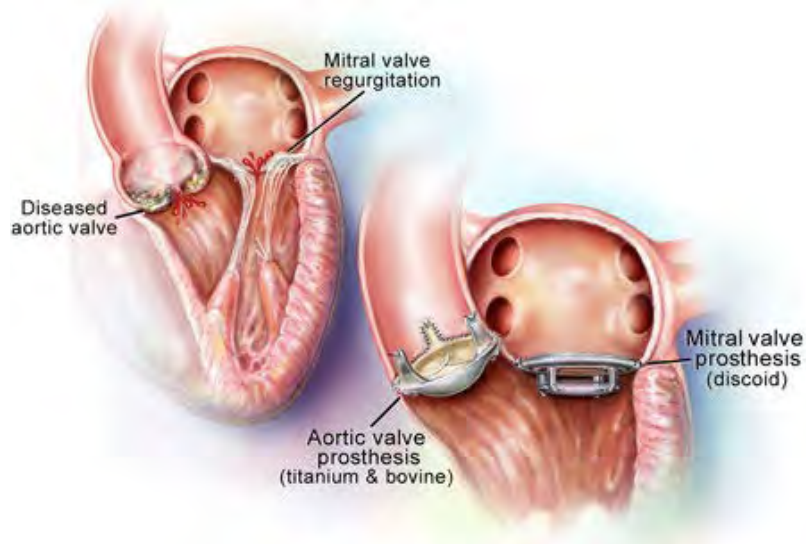
# Cardiac Surgery Volumes



# Valve Repair and Replacement

- Open-chest or minimally invasive surgical techniques
- 3-D transesophageal echocardiography (TEE) in OR
- Mitral valve replacement and repair
- Aortic valve replacement and repair

# Valve Replacement



Mechanical valve



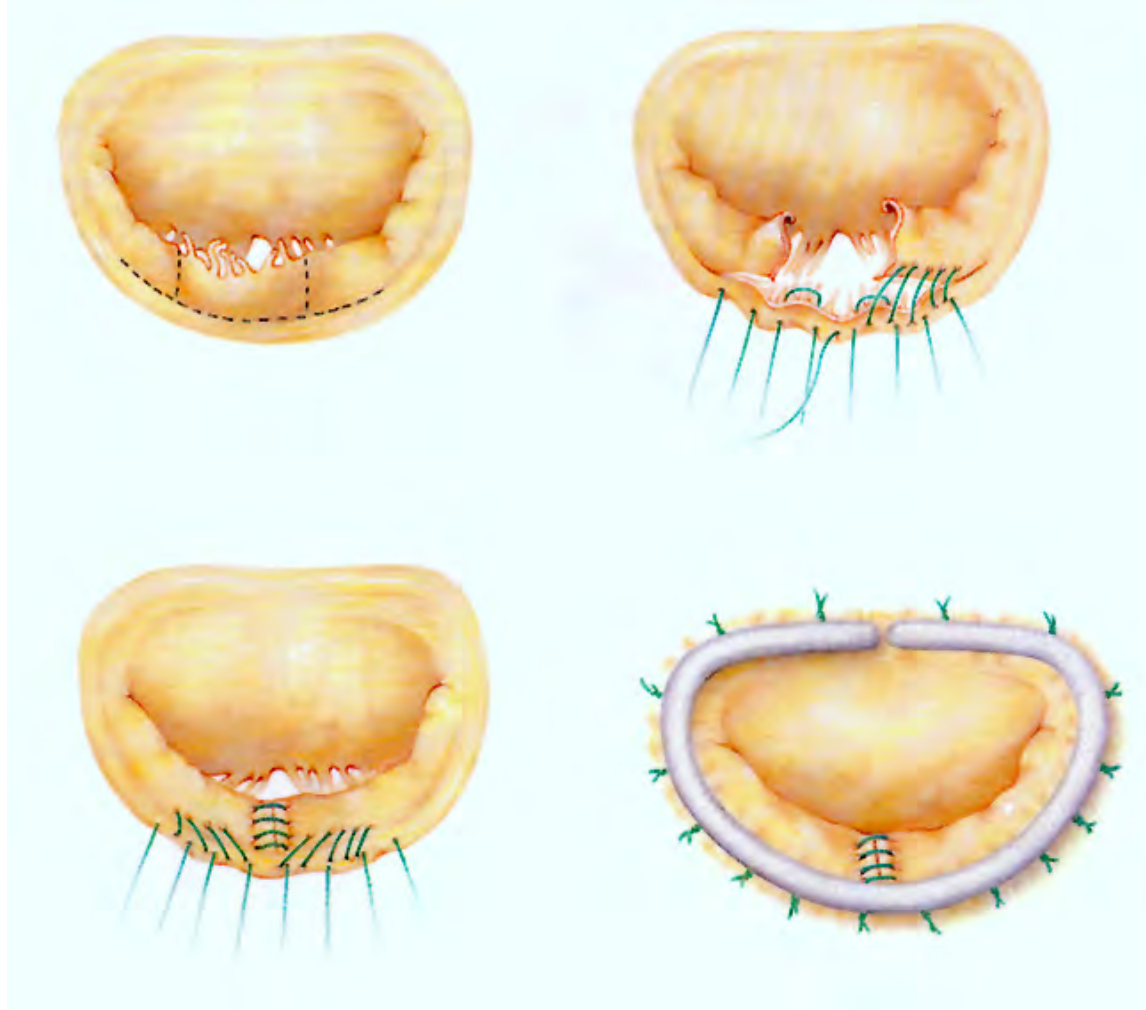
Tissue valve



Artificial valve is sewn in place

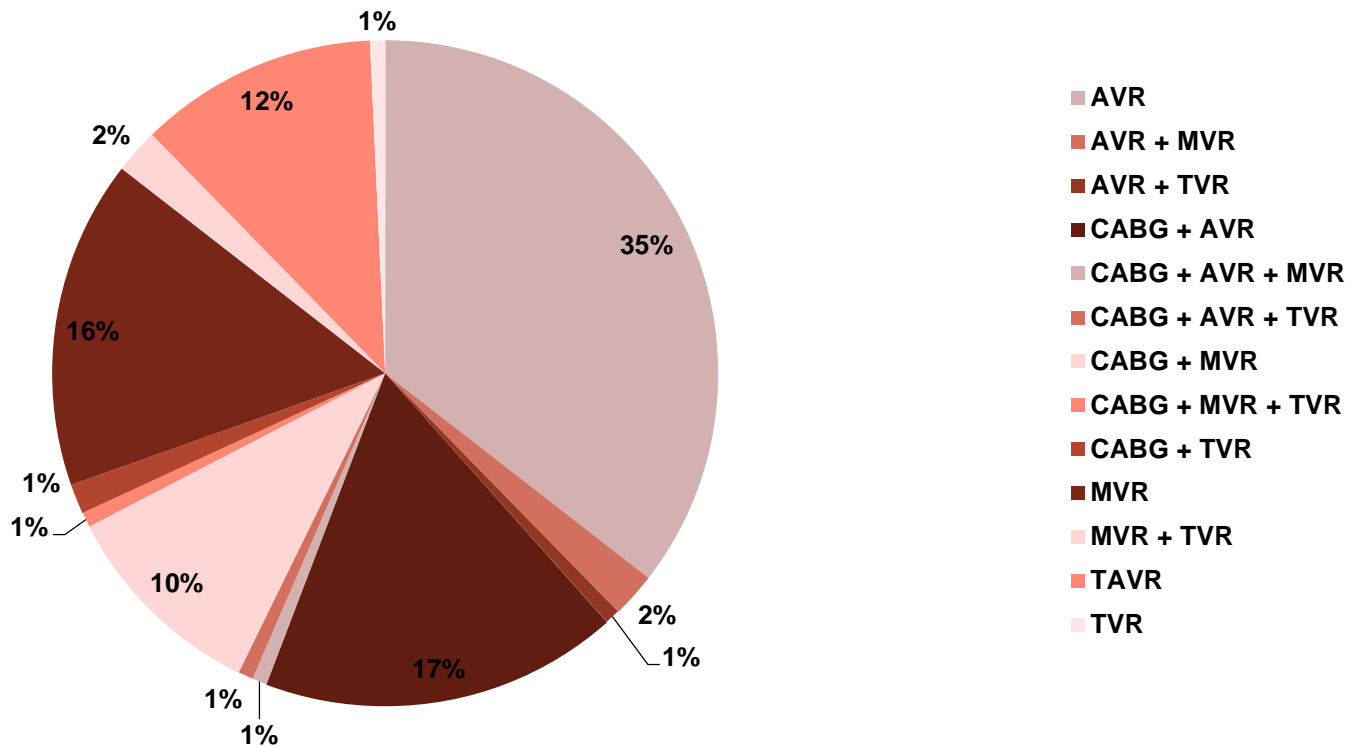
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# Valve Repair



# Cardiac Valve Surgery

**Valve Breakdown**  
Qtr. 4 2012 to Qtr. 3 2013



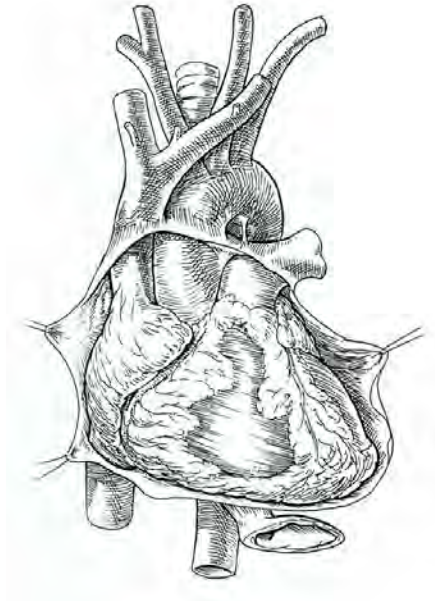
# Minimally Invasive Surgical Procedures

- Mitral valve repair and replacement
- Atrial septal defects
- Removal of cardiac tumors
- Atrial fibrillation (Maze)
- Stent grafts for aortic aneurysms and dissections



# Aortic Treatment Program

- Provide rapid diagnosis and treatment of life-threatening thoracic aortic syndromes and other specialized aortic conditions
- Type A (ascending) aortic dissection
- Type B (descending) aortic dissection
- Symptomatic or leaking thoracic aneurysms
- Intramural hematoma
- Penetrating ulcers
- Traumatic aortic transection or injury
- Asymptomatic thoracic aortic aneurysms requiring monitoring for expansion or elective repair



# Ventricular Assist Devices (VAD)

- Offers temporary support for one or both ventricles in circumstances where the heart has failed but has the potential to recover
- Cardiogenic shock following events such as acute MI, myocarditis or open heart surgery
- Approved for all potentially recoverable indications of acute heart failure

| <b>CARDIAC SURGERY<br/>OUTCOMES</b>      | <b>2012</b>  | <b>STS Benchmark</b> | <b>R 4 Qtr<br/>(Ending Q3)</b> |
|--|--------------|----------------------|--------------------------------|
| <b>CV Major Surgery<br/>Mortality</b>    | <b>2.10%</b> | <b>2.40%</b>         | <b>2.30%</b>                   |
| <b>CABG Mortality</b>                    | <b>1.40%</b> | <b>1.90%</b>         | <b>1.40%</b>                   |
| <b>CABG Deep Sternal<br/>Infection</b>   | <b>0.00%</b> | <b>0.30%</b>         | <b>0.00%</b>                   |
| <b>CABG Re-op for<br/>Bleeding</b>       | <b>0.50%</b> | <b>1.80%</b>         | <b>1.00%</b>                   |
| <b>CABG Post-op<br/>Permanent Stroke</b> | <b>0.50%</b> | <b>1.20%</b>         | <b>0.50%</b>                   |
| <b>CABG Readmits</b>                     | <b>6.20%</b> | <b>9.50%</b>         | <b>5.70%</b>                   |
| <b>CABG ALOS (in<br/>days)</b>           | <b>9</b>     | <b>9.2</b>           | <b>9.1</b>                     |

# Cardiac Surgery Team

- 5 board certified cardiothoracic surgeons
- 4 physician assistants
- Dedicated cardiac anesthesiologists, certified in transesophageal echocardiography (TEE)
- Dedicated cardiac operating room staff 24 hours/day
- Critical care and telemetry nursing staff
- Cardiac nurse educators
- Pharmacy, respiratory and physical therapy staff

# Questions?



