The Multidisciplinary Aortic Clinic: Why the Care is Better

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Disclosures

I have no disclosures relevant to this presentation.
Multidisciplinary Team

Redefines problems outside normal boundaries to reach solutions based on understanding of complex situations
Multidisciplinary Team

A group composed of members with varied but complimentary experience, qualifications, and skills that contribute to the achievement of the organization's specific objectives
Multidisciplinary Team Objective

Provide a superior level of expertise in the care and management of patients with aortic disease
Multidisciplinary Team Members

Vascular Surgeons
Cardiac Surgeons
Nurse Practitioners
Physician Assistants
Anesthesiologists
Cardiologists
Radiologists
Emergency Room Physicians
Critical Care Physicians
Geneticists
Multidisciplinary Goals:

Provide rapid and accurate diagnosis and treatment for patients presenting with acute aortic syndrome
Multidisciplinary Goals:

Provide a formalized and structured multidisciplinary clinic that effectively coordinates personalized treatment plans for each patient with aortic disease
Multidisciplinary Goals:

Track, measure, and report all quality outcomes
Multidisciplinary Goals:

Research and education to provide patients with high quality and innovative therapies
EndoVascular Aortic Repair

EVAR Volume Trend
Hampton Roads Hospitals
2011-2016
Open Aortic Surgery

OAAA Volume Trend
Hampton Roads Hospitals
2011-2016
Fenestrated Endovascular Aortic Repair

FEVAR Trend by Year
Hampton Roads Hospitals
2011-9/30/2015
Thoracic Endovascular Aortic Repair

TEVAR Volume Trend by Year
Hampton Roads Hospitals
2011-2016
Complex TEVAR

Landing Zones for TEVAR

Zone III  Zone II  Zone I  Zone O
Open Thoracoabdominal Surgery

Open Thoracoabdominal Volume Trend
Hampton Roads Hospitals
2011-9/30/2015
Low Volume = High Mortality

In-hospital Mortality (%)

- Low: 27.3%
- Medium: 23.8%
- High: 15.0%

Annual Hospital Volume
Two Decades of Aortic Innovation at SNGH
F. Noel Parent, MD, FACS
Complex EVAR/TEVAR

FEVAR
CHEVAR
SNEVAR
BEVAR
DBEVAR
CTEVAR
Complex EVAR/TEVAR

FEVAR
CHEVAR
SNEVAR
BEVAR
DBEVAR
CTEVAR
FEVAR
Chimney/ Snorkel TEVAR
Chimney/ Snorkel EVAR
Branched Endo Prosthesis
De-Branch EVAR
Complex TEVAR

- BYPASS GRAFTS
- AORTA
- STENT GRAFT
Disruptive Innovation

PERFORMANCE

OLD TECHNOLOGY

NEW TECHNOLOGY

TIME
Elephant Trunk Evolution

- Birth of ET H. Borst
- 1992 ET modified distal suture crawford-svensson
- 2003 Birth of FET chavan-haverich
- 2007 FET hybrid graft
- 2012 Branched FET
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PREOPERATIVE DIAGNOSIS:
1. Type A aortic dissection.
2. Left leg ischemia.

OPERATION PERFORMED:
1. Type A dissection ascending aorta repair under deep hypothermic circulatory arrest
2. Left iliac artery stenting.
Thoracic Branched Endograft

Zone 2

Zone 1

Zone 0
LEVAR
Sentara Aortic Program
Quaternary Care Multidisciplinary Aortic Center of Excellence
Providing mid-Atlantic access to acute and chronic aortic disease management
Leveraged Multidisciplinary Technology

Patient Power®
Thank you!