Vascular Surgery's Identity And Role Is Usually In A Subservient Position Within A Heart And Vascular Unit:

What Should Be Done To Correct This Inequity In The Interest Of Better Patient Care?

#### Timur P. Sarac, MD

Professor of Surgery University of Virginia UVA Health Systems Charlottesville, Virginia

Emeritus Professor, Chief & Director of the Aortic Center The Ohio State University

## **Disclosure**

- M Stent patents, AAA stent patents, endoleak patents.
- Shape Memory Medical Trial Proctor
- Editor "Gateways in Vascular Surgery"
- Treasurer American Board of Vascular Surgery
- Highly Opinionated

#### <u>Definitions are Loose</u> No formal definition, so below is generalized

- Heart and Vascular Institute
  - A combined clinical and education department within an organization - Vascular Surgery, CT Surgery, and Cardiology all in one department as opposed to being under surgery or medicine.
  - Chair is not surgery or medicine, but institute. No matrix reporting.
- Heart and Vascular Center
  - A hospital service line, where Vascular Surgery, Cardiac Surgery are combined in a hospital service line, but not professional revenue nor hierarchy. They still report to Dept Surgery and Medicine
  - Is is matrix based where teams report to multiple leaders.
  - Mainly hospital based, used for physical location and marketing.

#### History

- <u>Heart Centers started at large hospitals in the 1970s to coalesce</u> heart care for better patient care (ex CT-ICU, CT Anesthesia etc).
- Combining Cardiac and Vascular Surgery and Cardiology into centers are <u>hospital-based service lines</u>, are not new.
   Every hospital has one, and no one claims to be 1<sup>st</sup>.
- The first truly integrated <u>"Institute"</u> which is disease-based made waves in 2007.
  - Toby Cosgrove, MD, the CEO of Cleveland Clinic at that time, dismantled all traditional departments and re-organized them into 27 new <u>Disease-based Institutes.</u>
  - Several others followed, with recently Mass General Brigham following.
- · Most fall into centers, not institutes.

Benefits			
	Institute Department Based	Center Hospital Based	
Patient Centered on a disease – Blood Vessels	$\checkmark$	$\checkmark$	
- Multidisciplinary care	$\sim$	$\checkmark$	
- Better patient care	$\sim$	$\checkmark$	
- Easier patient access	$\sim$	$\sim$	
- Proximity of Operating Rooms	$\sim$	$\sim$	
-Hybrid Operating Rooms and Cath Lab	$\sim$	$\sim$	
Financial Economy of Scale	$\sim$		HVC has duplicative administration
Financial Independence	$\sim$		
"Groupiness"	$\sim$	+/-	

# The Rest of the Story - Downside of HVCs Unequal/Skewed Resource Distributions • Vascular Surgery is Outnumbered

- Cardiology 34,644 (AHA)
- Cardiac Surgery 4,000 (STS)
- Vascular Surgery <3300 (AMA Makaroun Presidential address)
- Hospital resources are distributed based on contribution
- margins. – Directorships come from here, where part of salary is paid by the
  - For example, PAs/NPs are 5:1 at OSU, 10:1 at Yale
- Unchecked Marketing
  - OSU Vascular 25k/yr; Cardiology 100k and CT Surgery 100k
  - HVC websites ignore Vascular Surgery

#### Hospital Website Examples

- Johns Hopkins Hospital
   click on Heart and Vascular Institute
  - It lists Vascular Medicine, not Vascular Surgery.
- The same was true at Yale and Ohio State until I got a hold of them.



About the Heart & Vascular Institute

#### Why Has This Happened?

- Resources are passed to traditional departments of surgery, who distribute funds based on general surgery chair goals.
- Many HVC administrator positions controlled by Cardiology who admit more Cardiology patients.

Why Has This Happened? Our Contribution Margins				
are Disproportionately Low				
	Contribution Margin	Reference		
Open Valve Procedure	\$21,967	Health Serv. Res 2011;46(6):1928–1945 Robinson		
Coronary PTA+stent	\$21,173	Am J Man care 2011;17: e241-8. Robinson		
TAVR	\$11,220	J Thorac Cardiovasc Surg. 2017 Jun 21;154(6):1872–1880. McCarthy		
Lumbar Spine	\$22,690	Am J Man care 2011;17: e241-8. Robinson		
FEVAR	\$10,500	JVS 2020;71(1):189-96. Starnes		
Open AAA	\$21,200	JVS 2020;71(1):189-96. Starnes		
EVAR	\$8569	Surg 2005;137(3):285-92. Upchurch		
CEA	\$5886	JVS 2014;60:528-31. Lombardi		
Peripheral	\$5705	JVS 2014;60:528-31. Lombardi		
Individual Vascular Surgeon Average	\$1.6 million	JVS 2012 ;55(1):281-5. Lombardi		

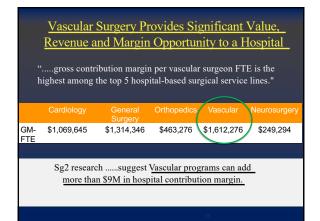
### The Other-side of the Story - Value

# EMERGENCY



- "Downstream" revenue ignored
- They don't consider fire fighters "saving lives and litigation"
- The SVS commissioned <u>Sg2</u> report hasn't made waves.
  - · There is a lack of follow through on issues





#### What Should Be Done to Correct This?

- Improve contribution margins to reflect preoperative and post
   operative care CMS level work
- Become our own Departments so we can directly negotiate with the hospital instead having a Surgery chair.
- Take OBLs to another level. Orthopedics based hospitals.
- Massive growth in numbers. There are 5+ jobs for every graduate and growing. Overwhelm administrators.
- BAIL OUT- remove Vascular Surgery from HvCs and Institutes and call it Vascular Institute/Center.
- Start a new Society to address it.
   Society for Independent Vascular Surgery (SIVS)

