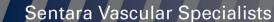
2022 MID-ATLANTIC CONFERENCE 10th ANNUAL CURRENT CONCEPTS IN VASCULAR THERAPIES



APRIL 28-30

Hilton Virginia Beach Oceanfront Virginia Beach, Virginia



CEPHALIC VEIN THROMBOSIS

2022 MID-ATLANTIC CONFERENCE 10th ANNUAL CURRENT CONCEPTS IN VASCULAR THERAPIES



SHOULD AORTIC CARE BE REGIONALIZED?



Outline

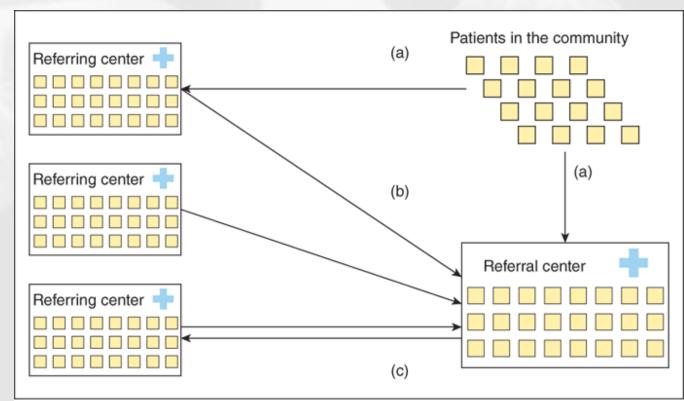
- Definition
- Reinventing the wheel?
- Low volume
- Advantages: outcome, cost, training, decreased treatment times, efficiency, quality, market coverage
- High volume surgeon versus high volume hospital
- Barriers
- Disadvantages: inconvenient, need for transfer, community physician (clinical skills, knowledge gap), community hospital (inadequate equipment, income loss)
- What are we doing here at Sentara (aortic alert, hybrid OR, MDC, dedicated team, education, research)
- Conclusions



Definition

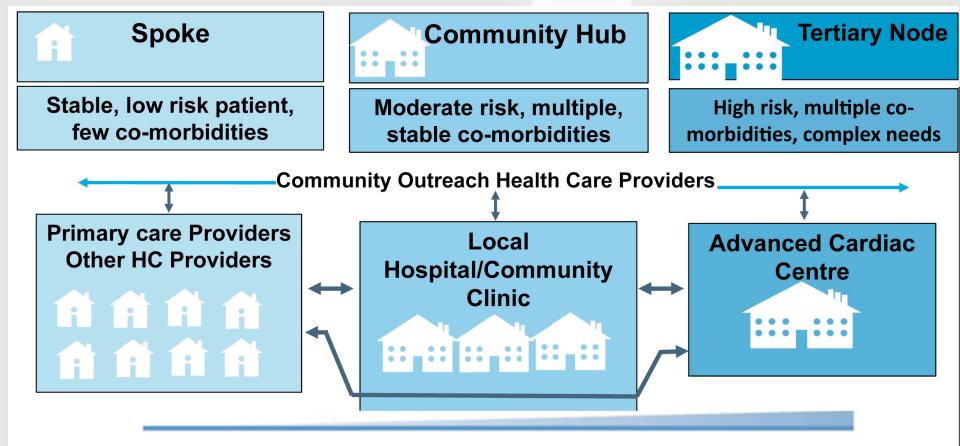
<u>Regionalizalization</u>
<u>of healthcare:</u>
shifting of care to
designated centers
within a certain
system or region

✓ Hub and spoke model



Source: John M. Oropello, Stephen M. Pastores, Vladimir Kvetan: Critical Care www.accessmedicine.com

Copyright © McGraw-Hill Education. All rights reserved.

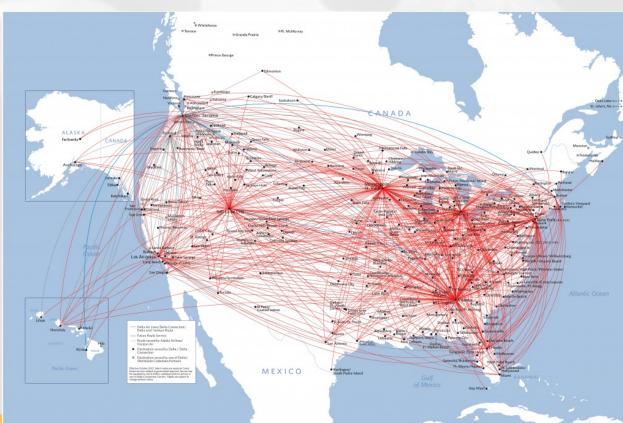


Patient risk and complexity

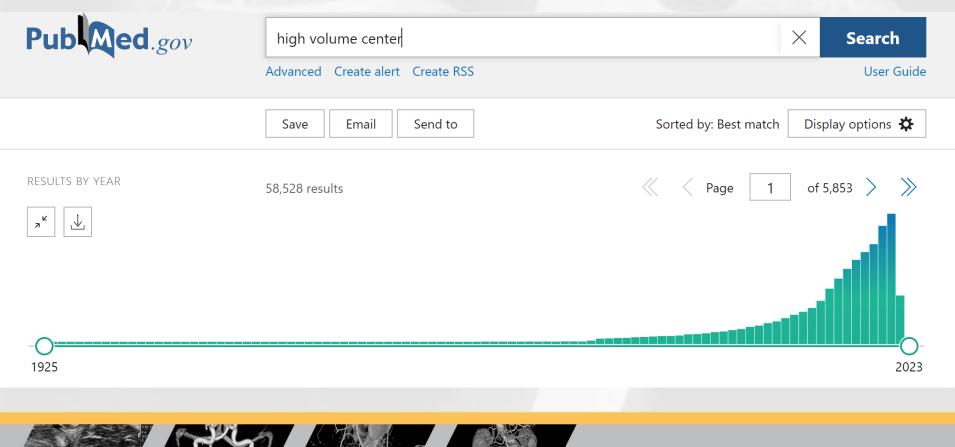
Two way **communication** between Levels of care: Face-to-face visits, phone, econsult

Are we reinventing the wheel?

- Aviation industry
- Amazon, Target
- Other medical specialties



High volume center, a new buzzword?



What about a low volume center

 11000 hospital deaths could be prevented between 2010-2012 if patients from the lowest 5th volume center were treated at the highest 5th centers



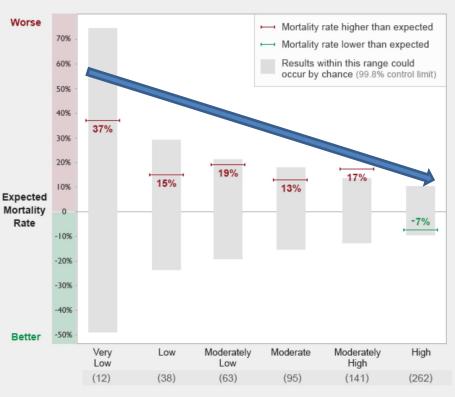
Risks Are High at Low-Volume Hospitals

Patients at thousands of hospitals face greater risks from common operations, simply because the surgical teams d enough practice.

By <u>Steve Sternberg</u> and <u>Geoff Dougherty</u> | May 18, 2015, at 12:01 a.m.



More Cases, Fewer Deaths: Heart Bypass Surgery



Volume (Average Medicare cases per hospital)

- Improved outcomes (mortality, length of stay, hospital complications)
- Decreased cost of care
- Improved efficiency
- Enhancing team skill (MDs, RNs, other staff)
- Better healthcare coverage?
- Education and research



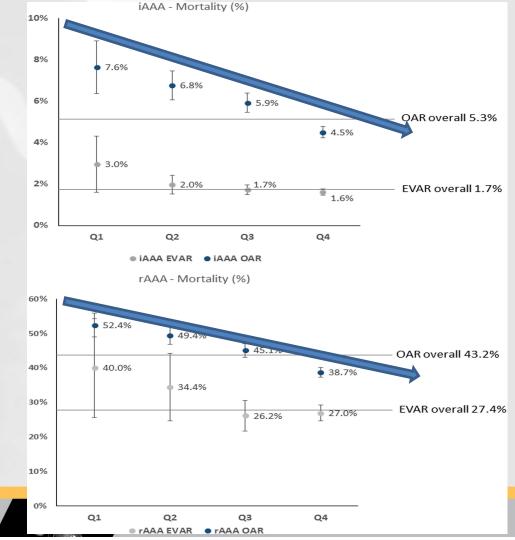
- <u>Mortality:</u>rAAA and iAAA mortality (HR 1.73, 1.61) Q1 vs Q4
- <u>Secondary outcomes:</u> ICU stay, amputation, blood transfusion, bowel resection

scular and Endovascula

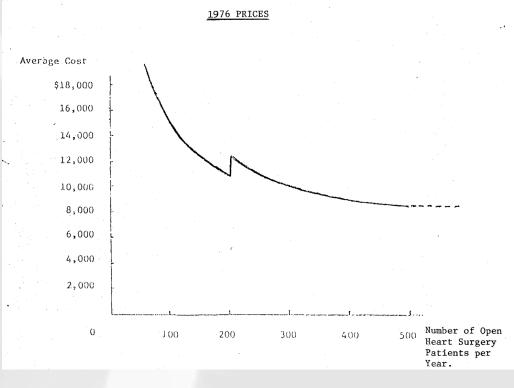
• Q1 <5, Q4 > 30

European Journal of

194DOI: (10.1016/i



 Cost of care: decreased construction, training, equipment





Ry M

 Resident/Fellow training for open aortic surgery

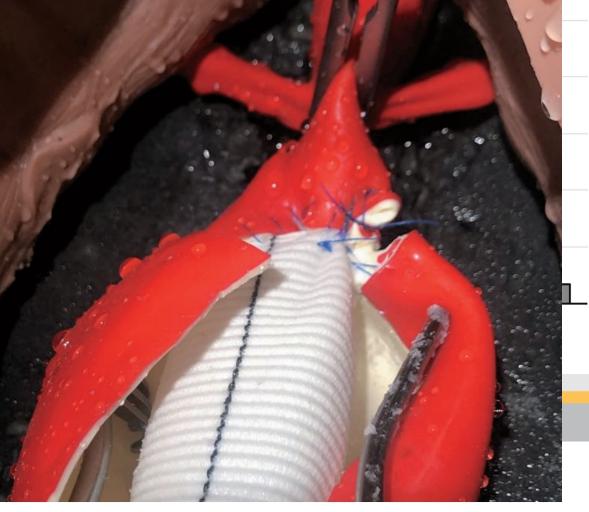


Figure 1.—Example of a failed aortic anastomosis.

Epub 2020 Jul 23.

Advanta Declining institutional memory of open abdominal aortic aneurysm repair

Training and research

Anna Kinio¹, Tim Ramsay², Prasad Jetty³, Sudhir Nagpal⁴

Affiliations + expand

PMID: 32712346 DOI: 10.1016/j.jvs.2020.09

Abstract

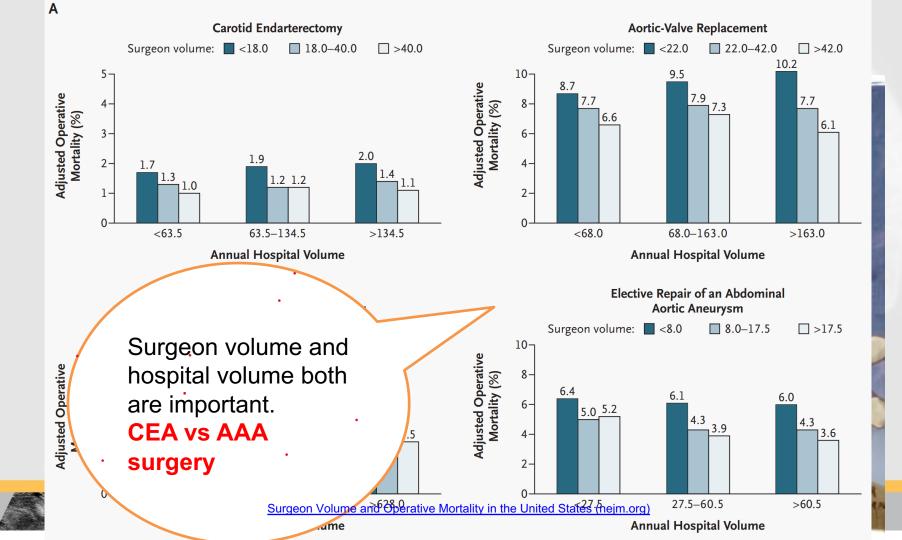
Objective: Since its introduction, entreatment of abdominal aortic aneur The objective of this study was to de led to a reduction in perioperative effective of the study and the study of the study o



Methods: A retrospective cohor consecutive juxtarenal AAA (Compared open juxtarenal AAA repair outcomes from 2005-2007 to 2014-2017

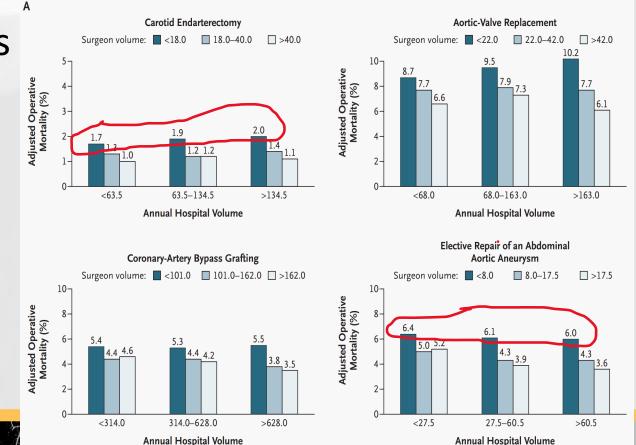
- 61% less surgeries
- Higher OR time, anesthesia time
- Higher complications/death

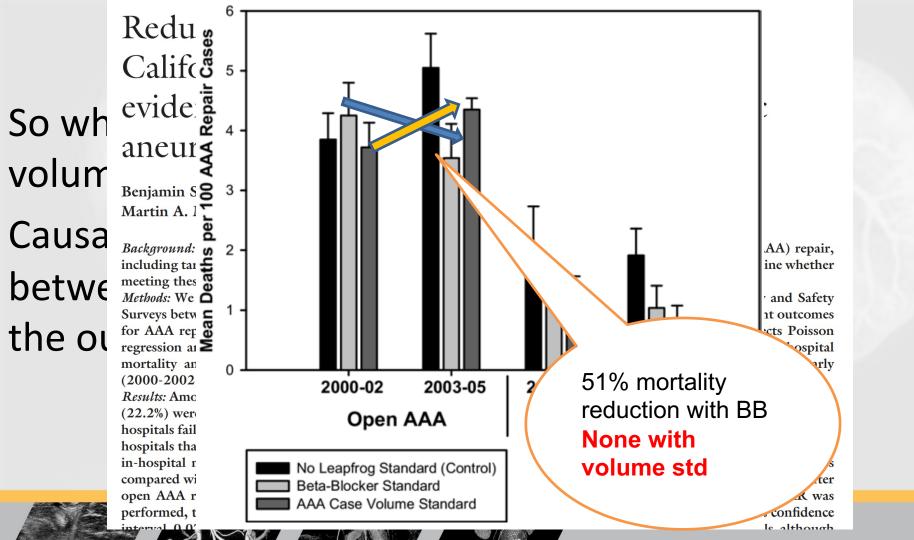
ne in



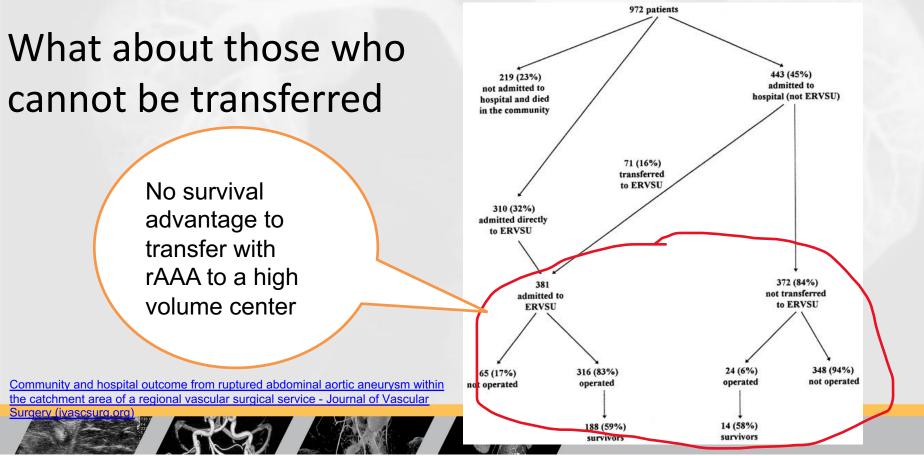
But wait!

Surgeon volume vs hospital volume





But wait!



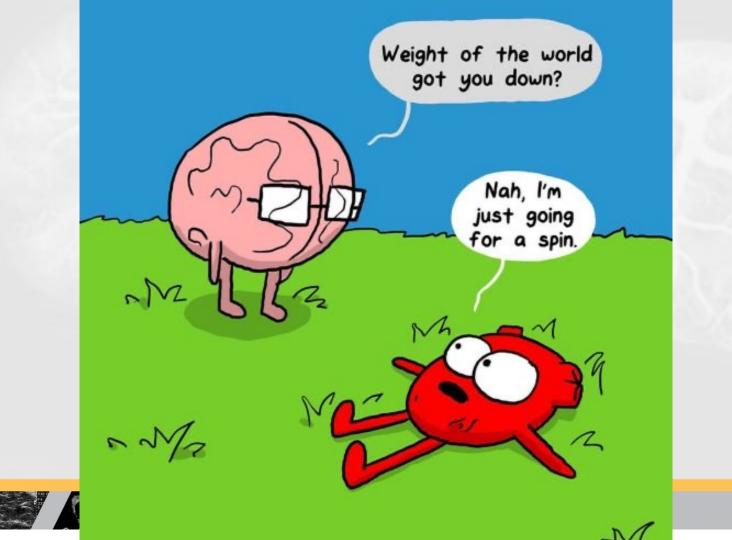
Other factors

- Patient preference for local hospital
- "Distance decay"
- Knowledge and technology gap among hospitals
- Income loss for smaller community hospitals



So whats the answer

- Repair and transfer?
- Bidirectional hub and spoke
- Enhanced outreach and community education



Whats happening here?

- Aortic alert process
- Treatment protocols
- Multidisciplinary conference and clinic
- Hybrid operating room
- Dedicated team (MDs, RNs, Techs, ICU)
- Education, research, outreach

Questions

Ky Mar CAN