

STS/EACTS Latin America Cardiovascular Surgery Conference

September 21-22, 2017 | Cartagena, Colombia

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www.CardiovascularSurgeryConference.org

The Heart Team and Management of AS

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The Society
of Thoracic
Surgeons



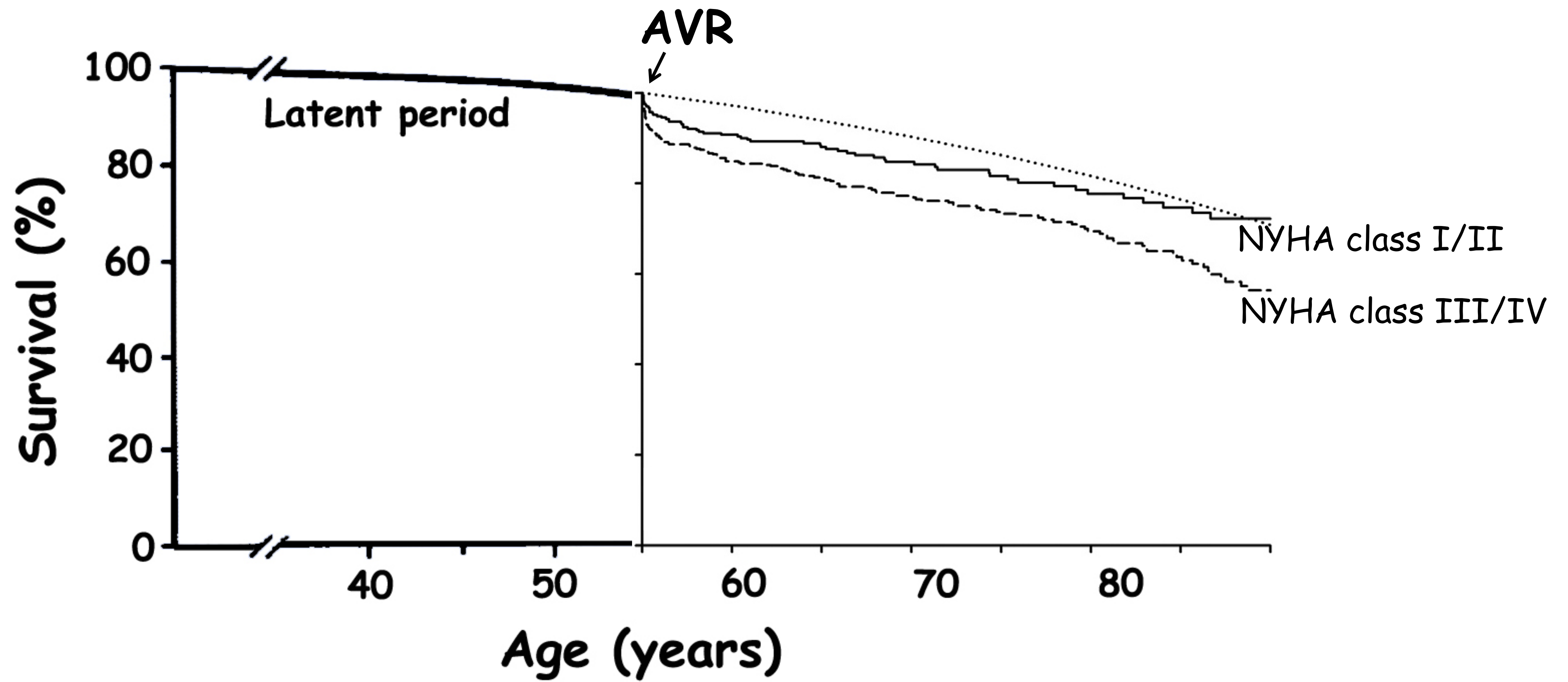
EACTS
European Association For Cardio-Thoracic Surgery



Presenter Disclosure Information

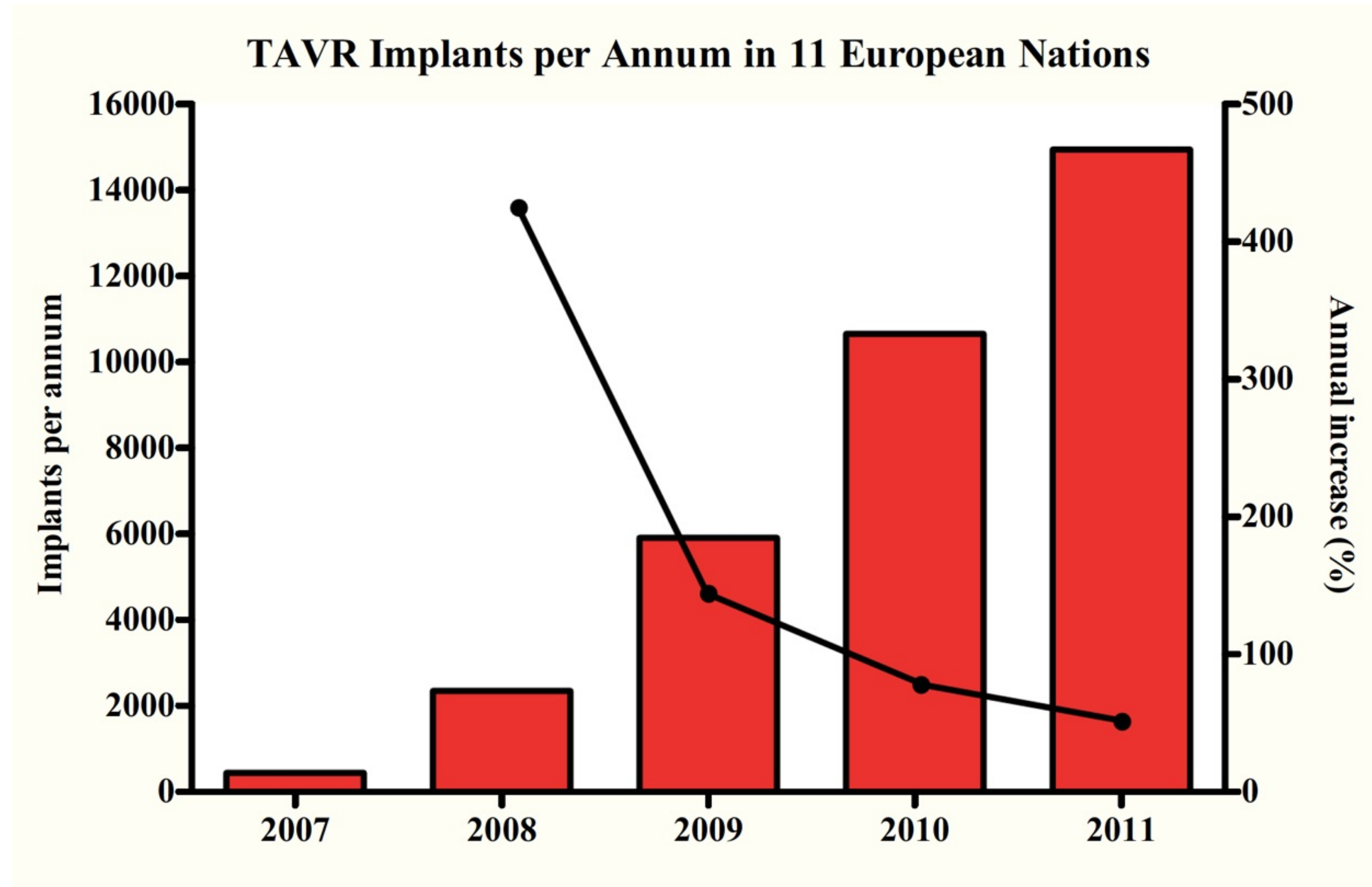
- Consulting fees and honoraria
 - ACC Foundation (Significant level)
 - Biomedical Solutions (Moderate level)
 - Edwards Lifesciences (Significant level)
 - Medtronic, Inc. (Significant level)
 - St. Jude Medical, Inc. (Moderate level)
- Research support
 - Edwards Lifesciences (Significant level)
 - Medtronic, Inc. (Moderate level)
 - St. Jude Medical, Inc. (Significant level)

Natural History of Aortic Stenosis / AVR



Ross and Braunwald. *Circulation* 1968;38:V61-V7
Piérard S, *et al.* *Ann Thorac Surg* 2014;97:803-10

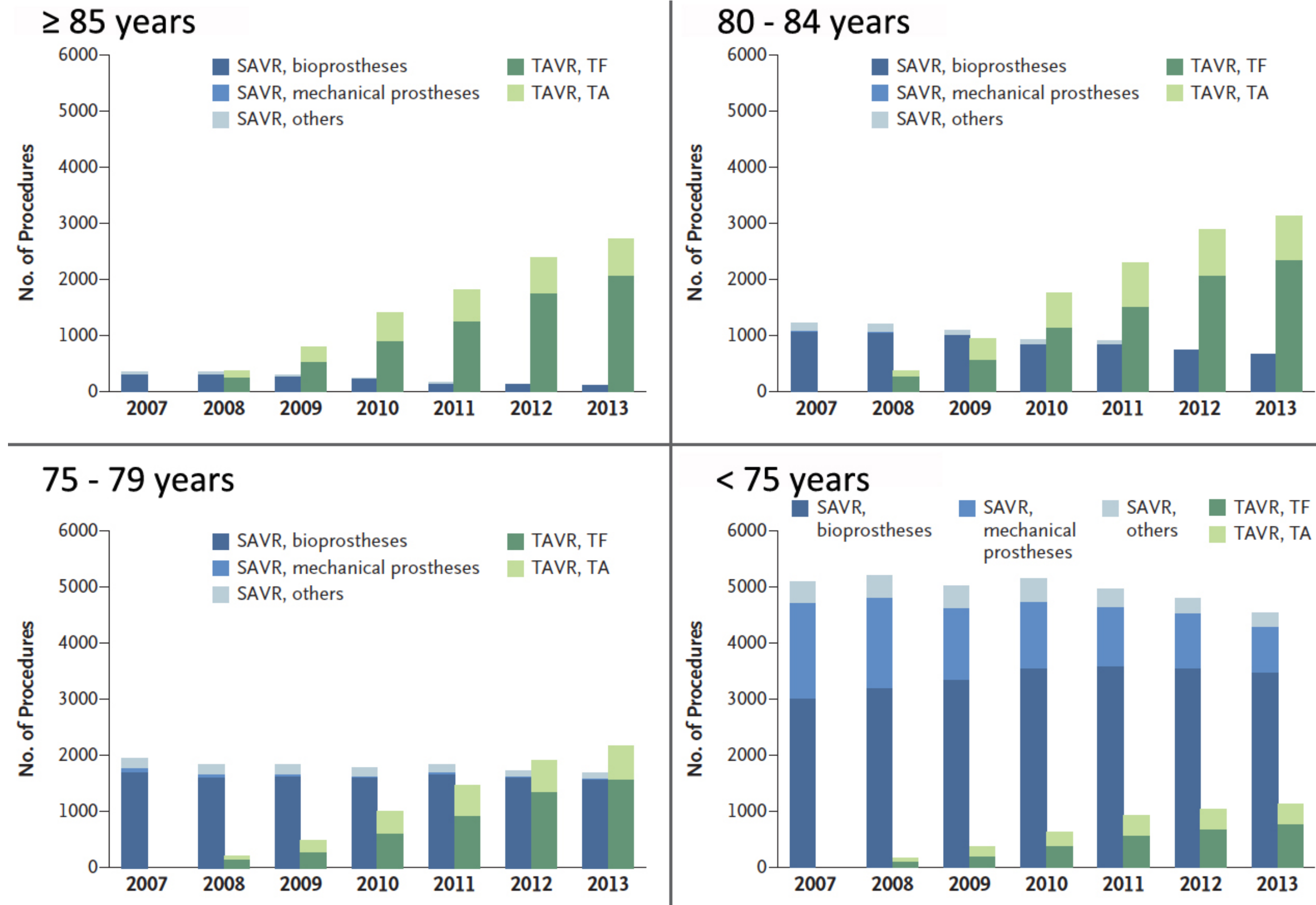
TAVR Growth (European Union 2007-2011)



Mylotte D, et al. J Am Coll Cardiol 2013;62:210-9

TAVR vs. SAVR (Germany 2007 - 2013)

32,581 TAVR and 55,992 SAVR

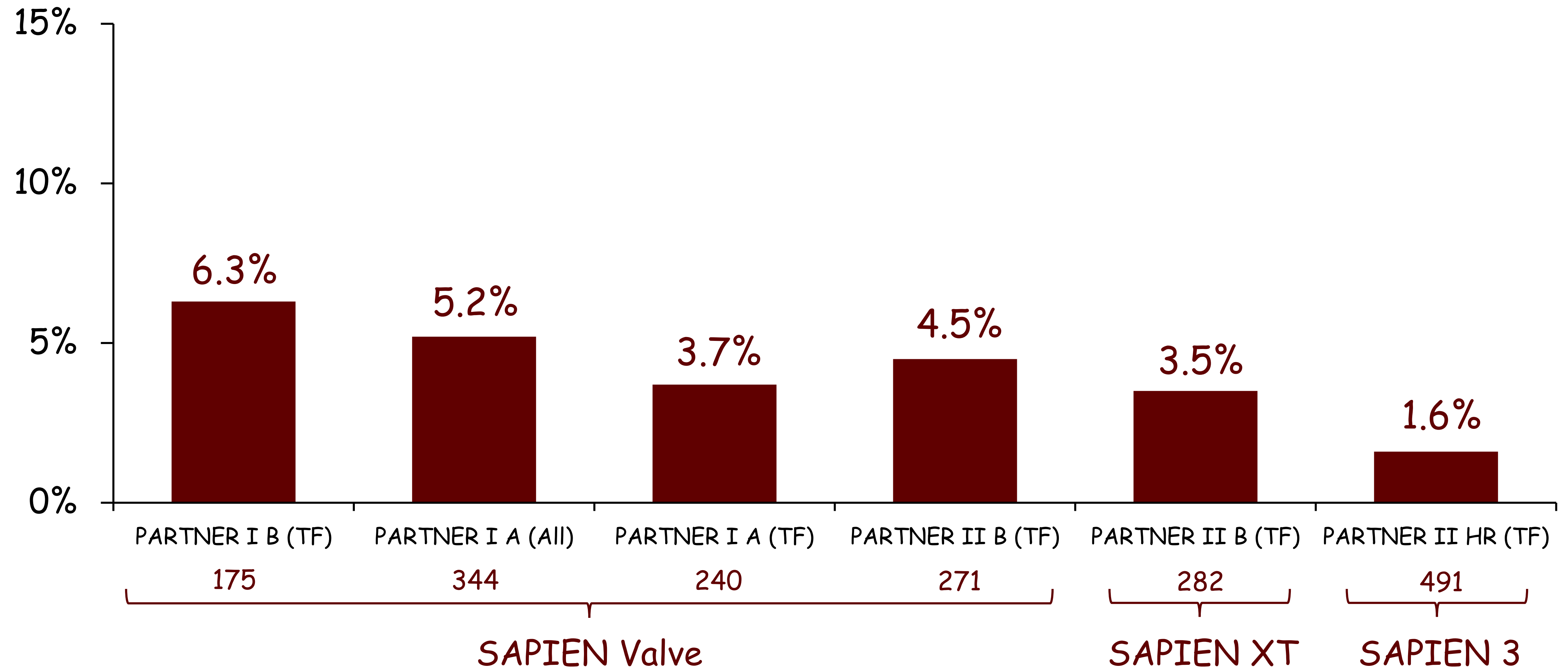


AS Management Complexity in 2017

- AS severity and characterization:
 - Discrepant gradients, valve area
 - Gradient (high/low), flow (normal/low), EF (normal/low)
 - AV and annular morphology (tricuspid vs. bicuspid AV)
 - Requirement for multi-modality imaging
- Symptoms referable to AS? Role of exercise testing.
- Patient characteristics: age, comorbidities, frailty...
- Therapeutic options (SAVR, TAVR [access], BAV).
- Procedural assessment: hostile chest, vascular access...

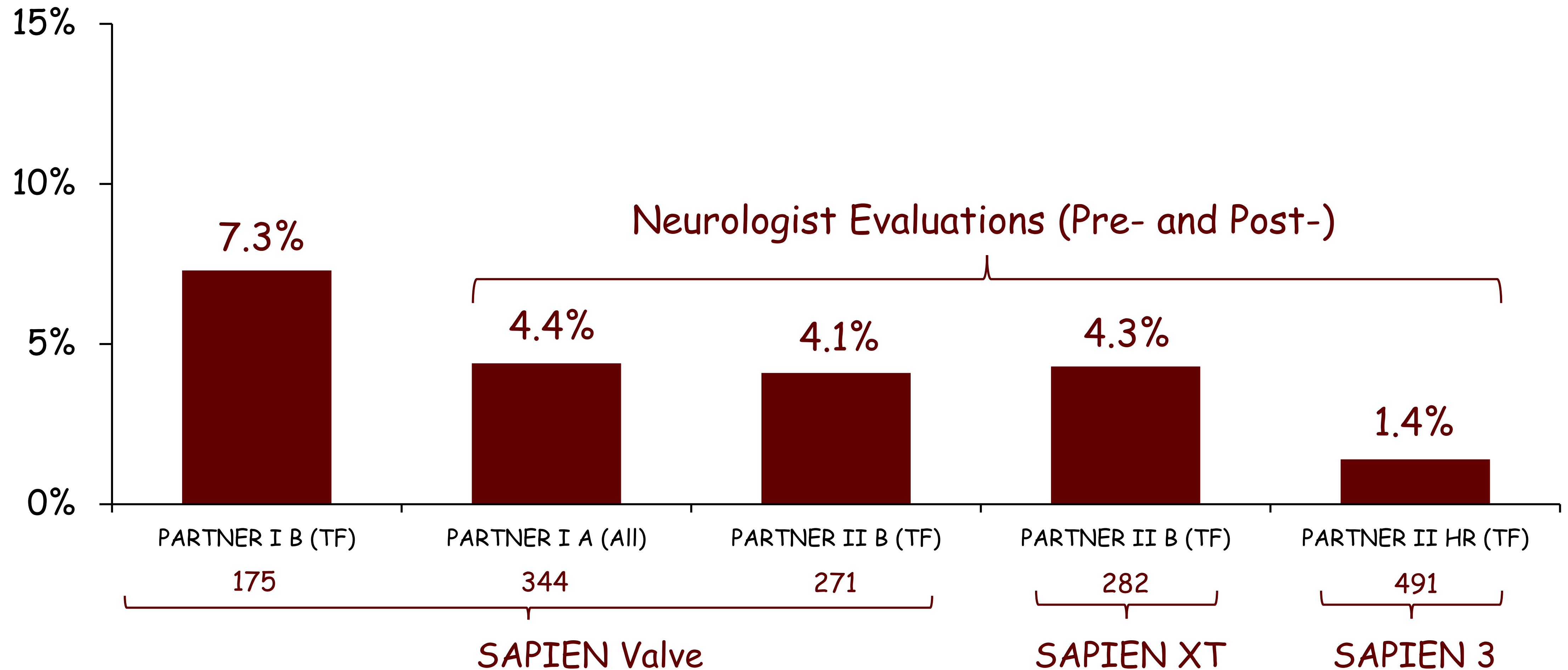
All-Cause Mortality at 30 Days

PARTNER I and PARTNER II Trials (Overall and Transfemoral)



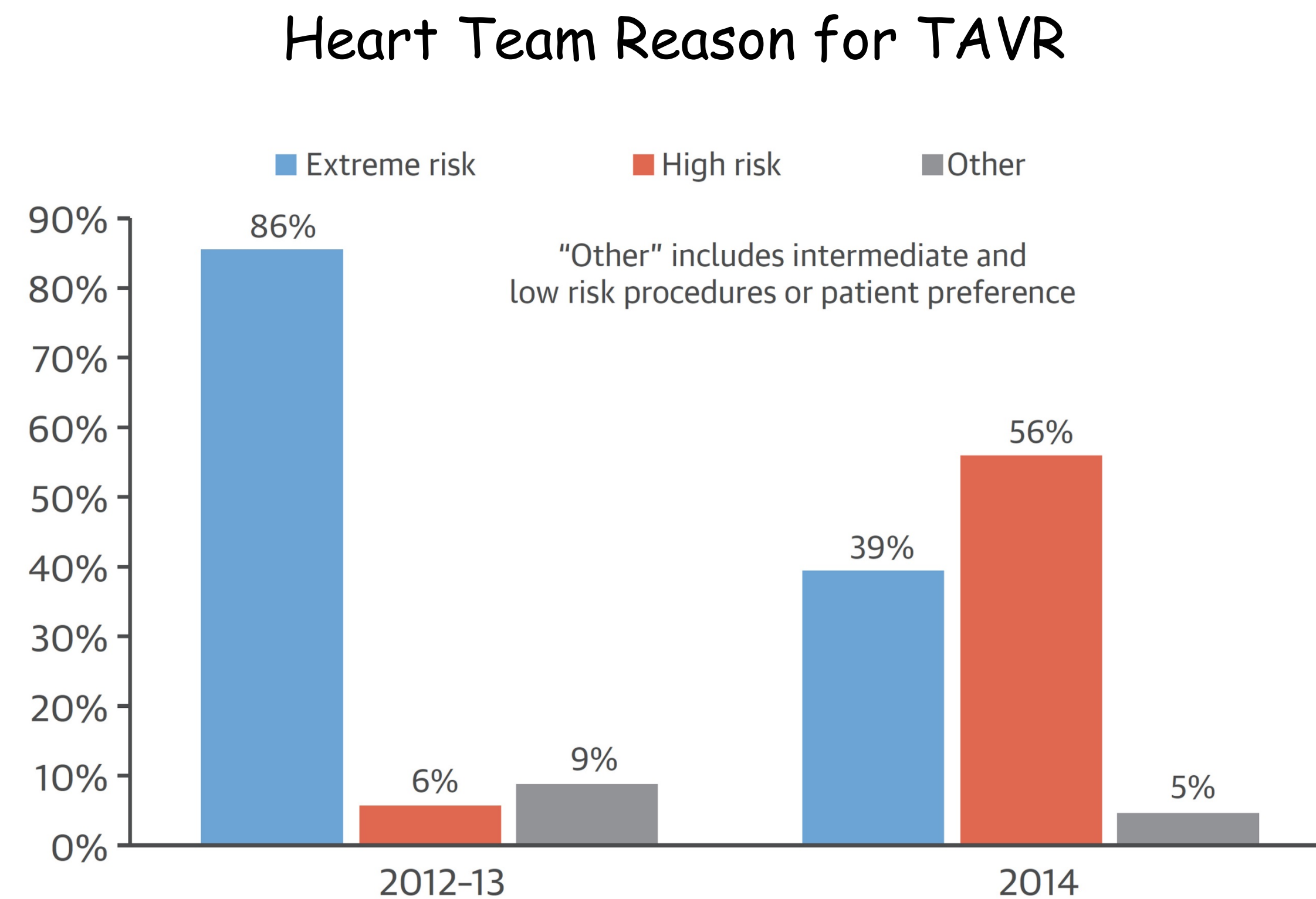
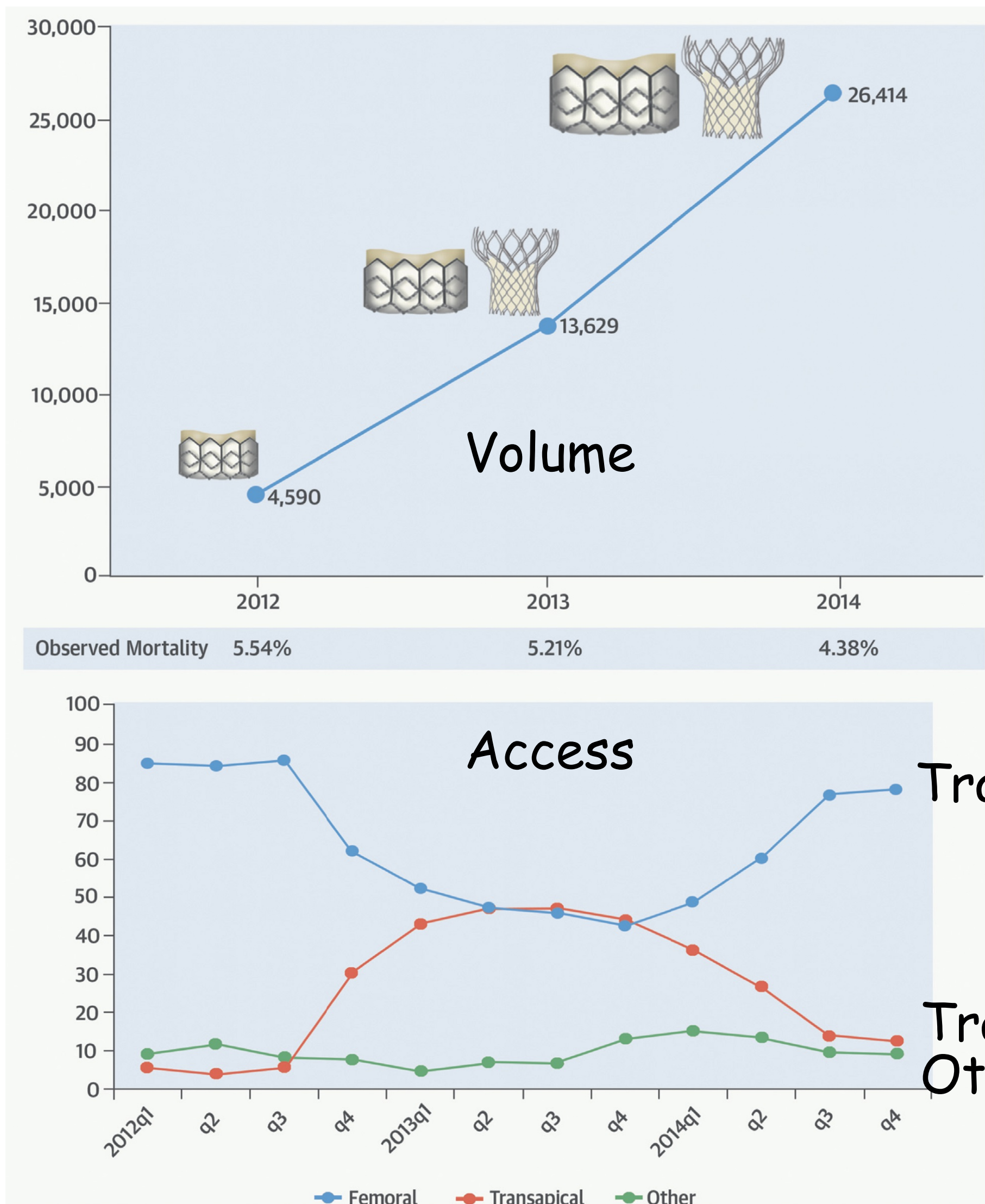
All Strokes at 30 Days

PARTNER I and PARTNER II Trials (Overall and Transfemoral)



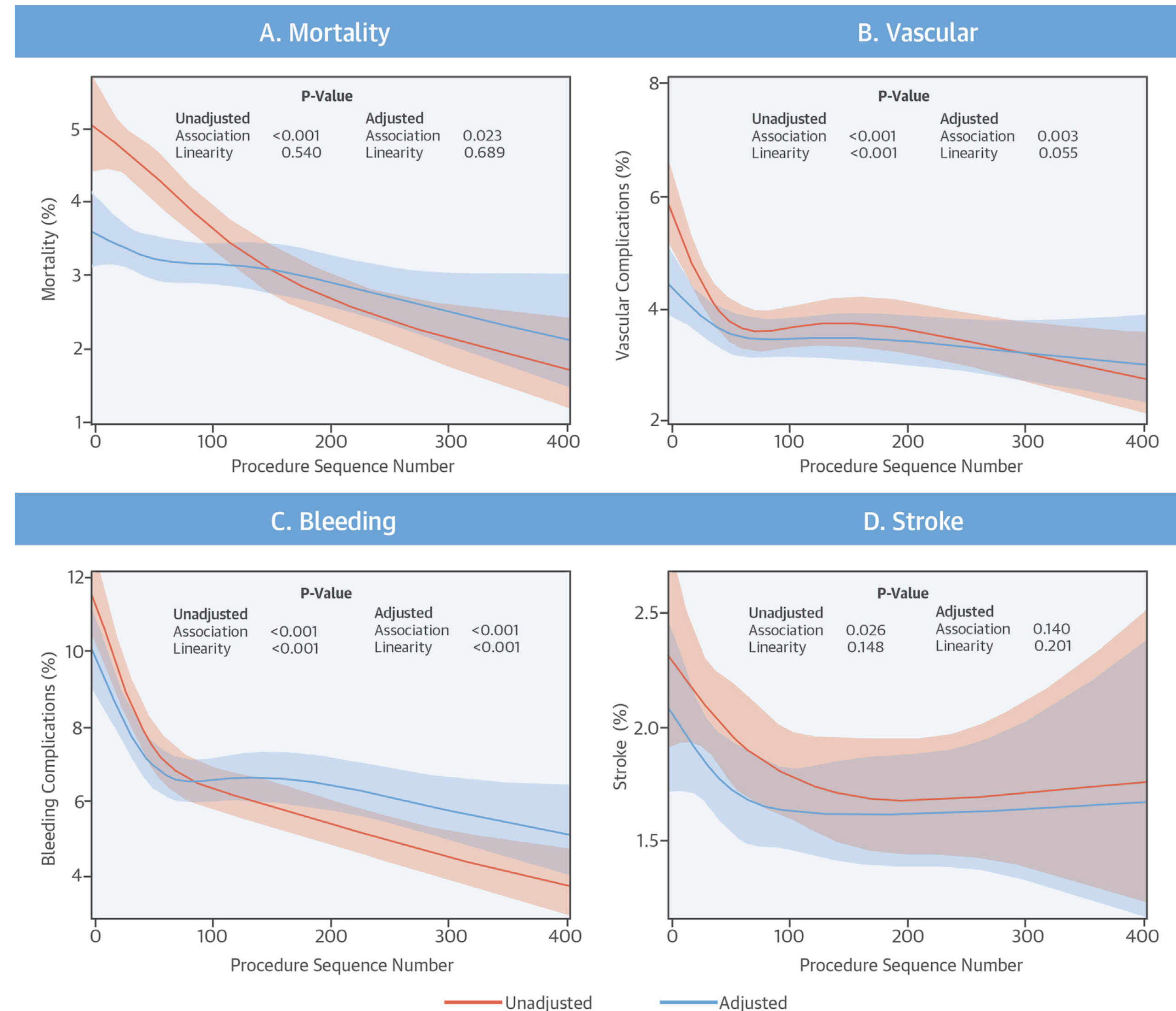
U.S. TAVT Practice Trends 2012 to 2014

STS/ACC TAVT Registry

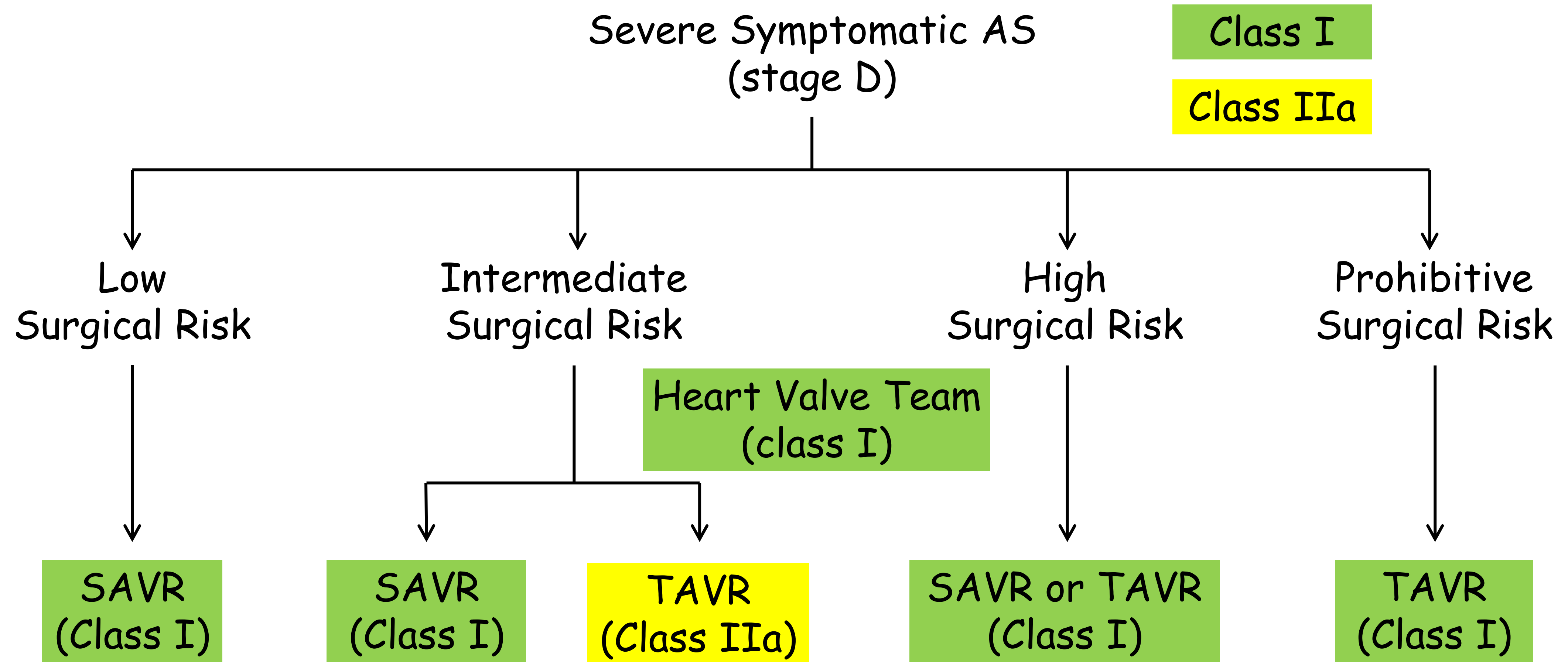


Holmes DR, et al. J Am Coll Cardiol 2015;66:2813-23

TAVR Procedural Experience vs. Outcomes STS/ACC TVT Registry



SAVR vs. TAVR (AHA/ACC 2017 Focused Update)



Nishimura RA, et al. J Am Coll Cardiol 2017;70:252-89

Heart Valve Team Composition and Purpose

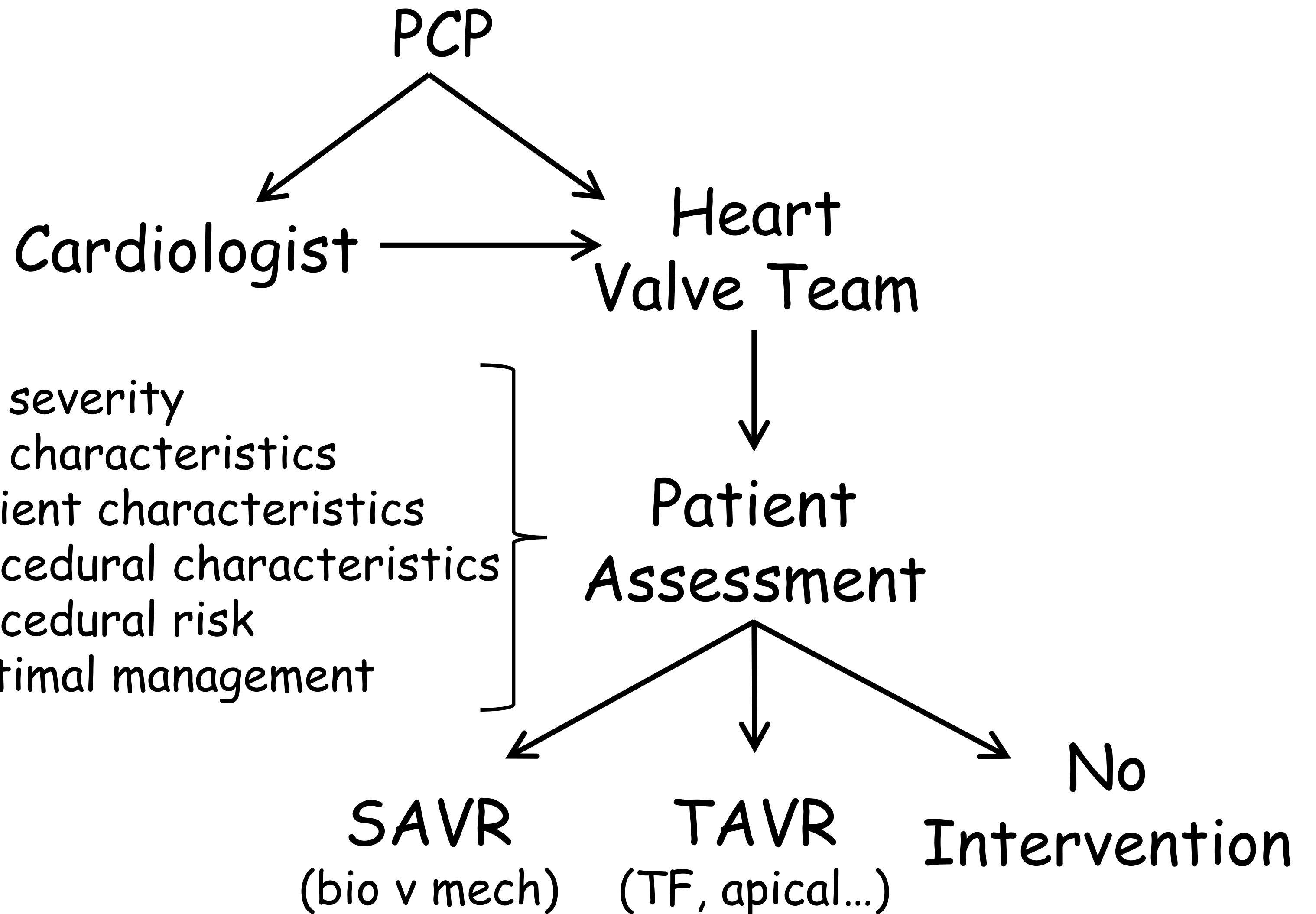
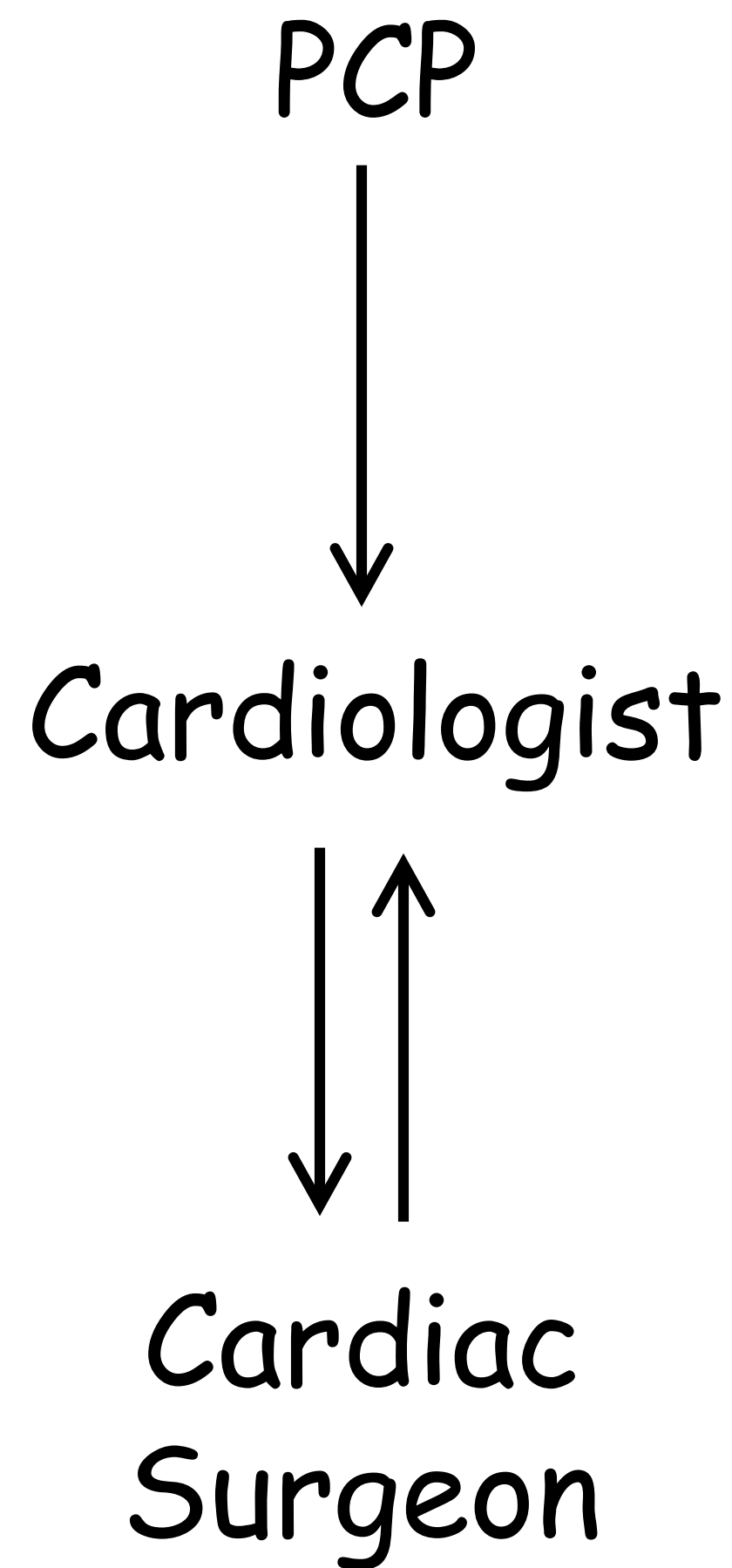
HVT Composition

- Cardiologist
- Cardiac surgeon
- Structural interventionalist
- Imaging specialists
 - Echo, CT, MRI
- Anesthesiologists
- Nurses

HVT Purpose

- AS severity and characterization
 - AS severity
 - Gradients, flow, EF
 - Valve and annular morphology
- Symptoms referable to AS
- Patient risk assessment
- Therapeutic options
- Therapeutic plans

Heart Valve Team and Patient Management







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Gracias!



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