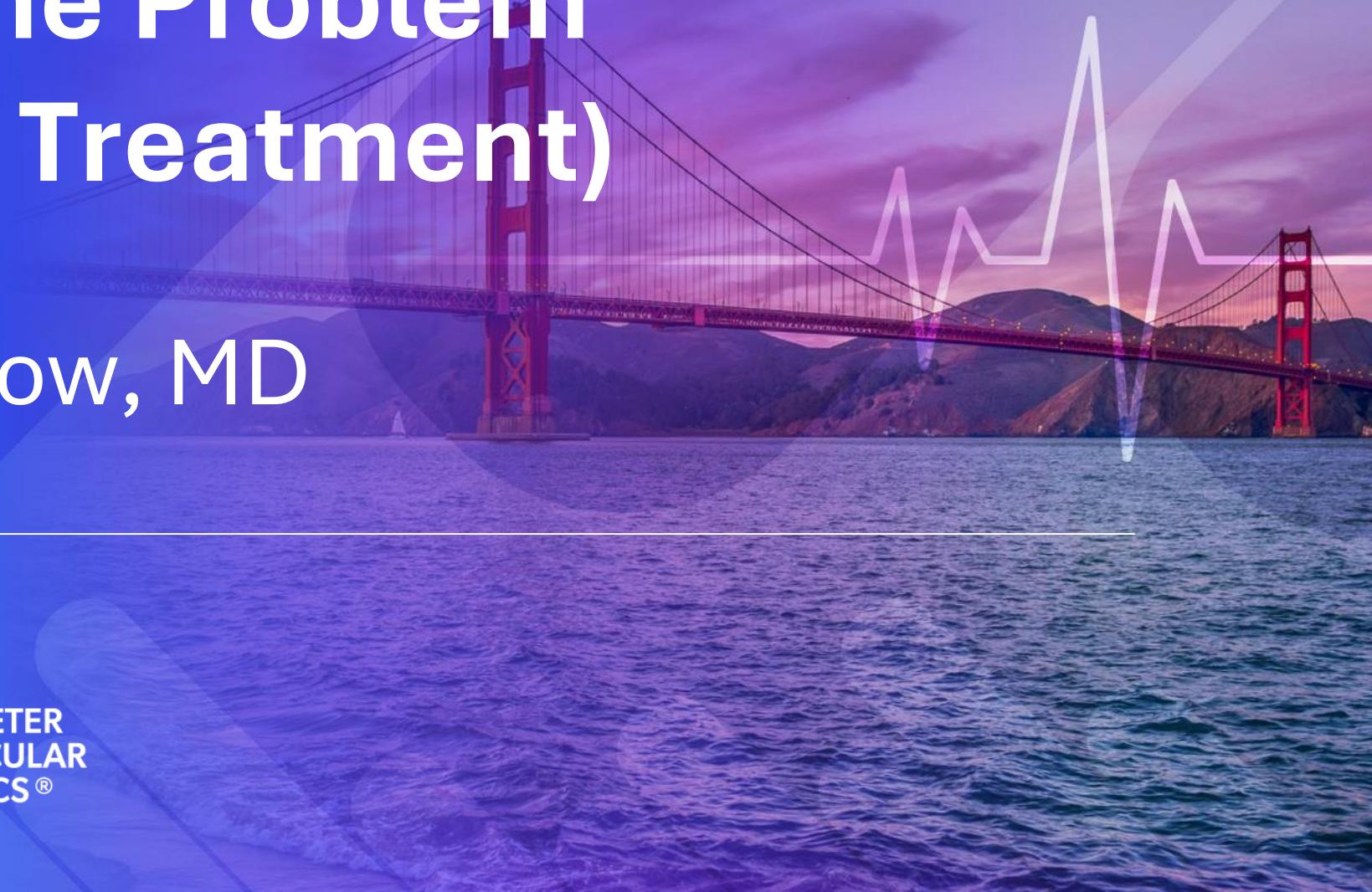


Aortic Regurgitation 2025: Weight of the Problem (Diagnosis, Treatment)

Robert O. Bonow, MD



TRANSCATHETER
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Disclosure of Financial Relationships

**I, Robert Bonow, DO NOT have
any financial relationships to disclose.**

Aortic Regurgitation in 2025: The Weight of the Problem

Diagnosis

- Mechanism of AR?
- Severity of AR?
- Impact on LV structure and function?

- 
- Current ACC/AHA guidelines are outdated
 - Thresholds for AVR may be set too high
 - Continued reliance on linear LV dimensions

Aortic Regurgitation in 2025: The Weight of the Problem

Diagnosis

Where are prospective data on:

- LV volumes?
- Regurgitant volume?
- LV interstitial fibrosis?
- Global longitudinal strain?
- BNP / biomarkers?

Current MRI evidence
base is not adequate

Aortic Regurgitation in 2025: The Weight of the Problem

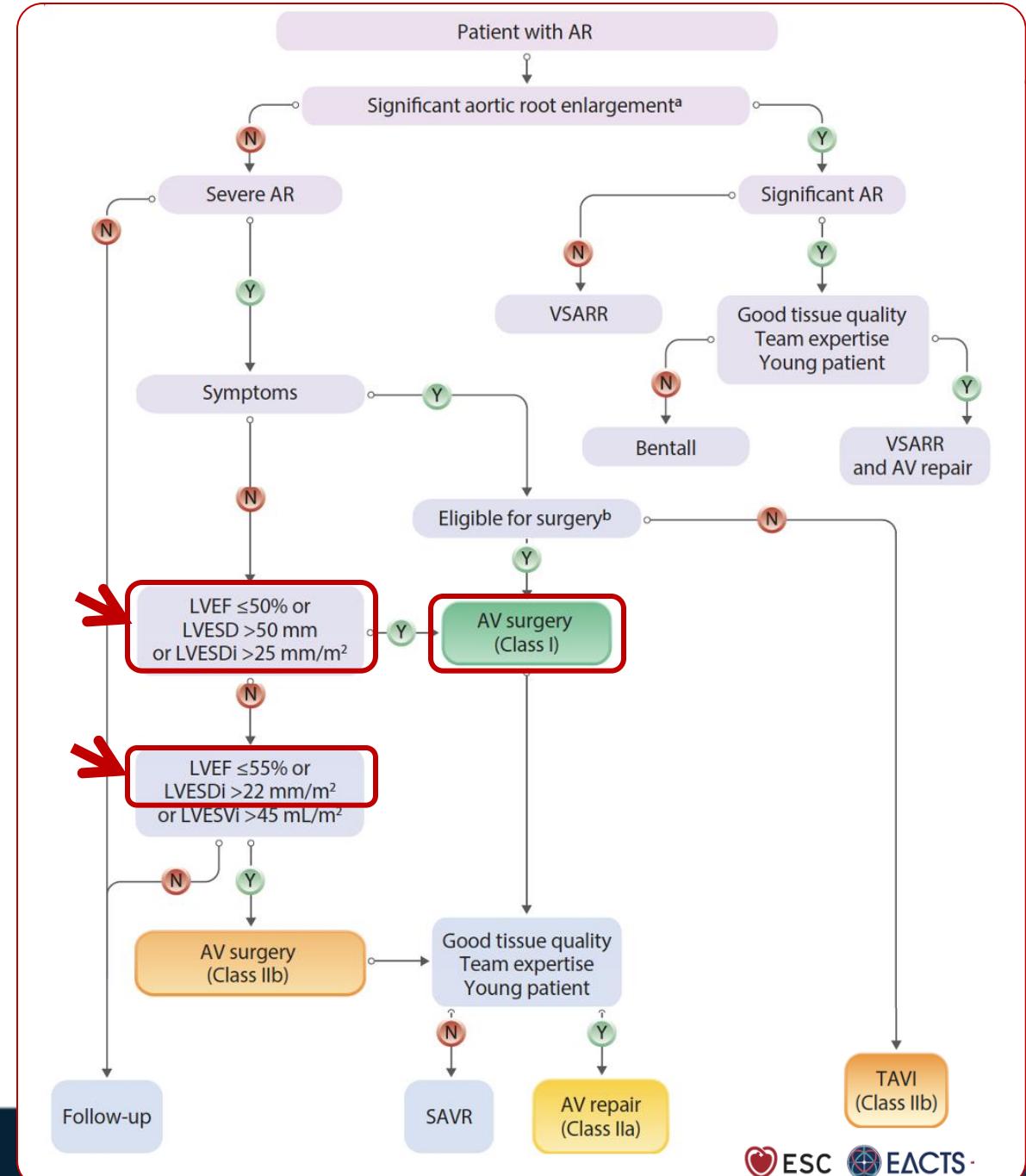
Diagnosis

- Every patient with AR has an echo(s)
- Current retrospective observational MRI data strongly suggest a referral bias
- No serial MRI data

2025 ESC/EACTS Guidelines for the management of valvular heart disease

Developed by the task force for the management of valvular heart disease of the European Society of Cardiology (ESC) and the European Association for Cardio-Thoracic Surgery (EACTS)

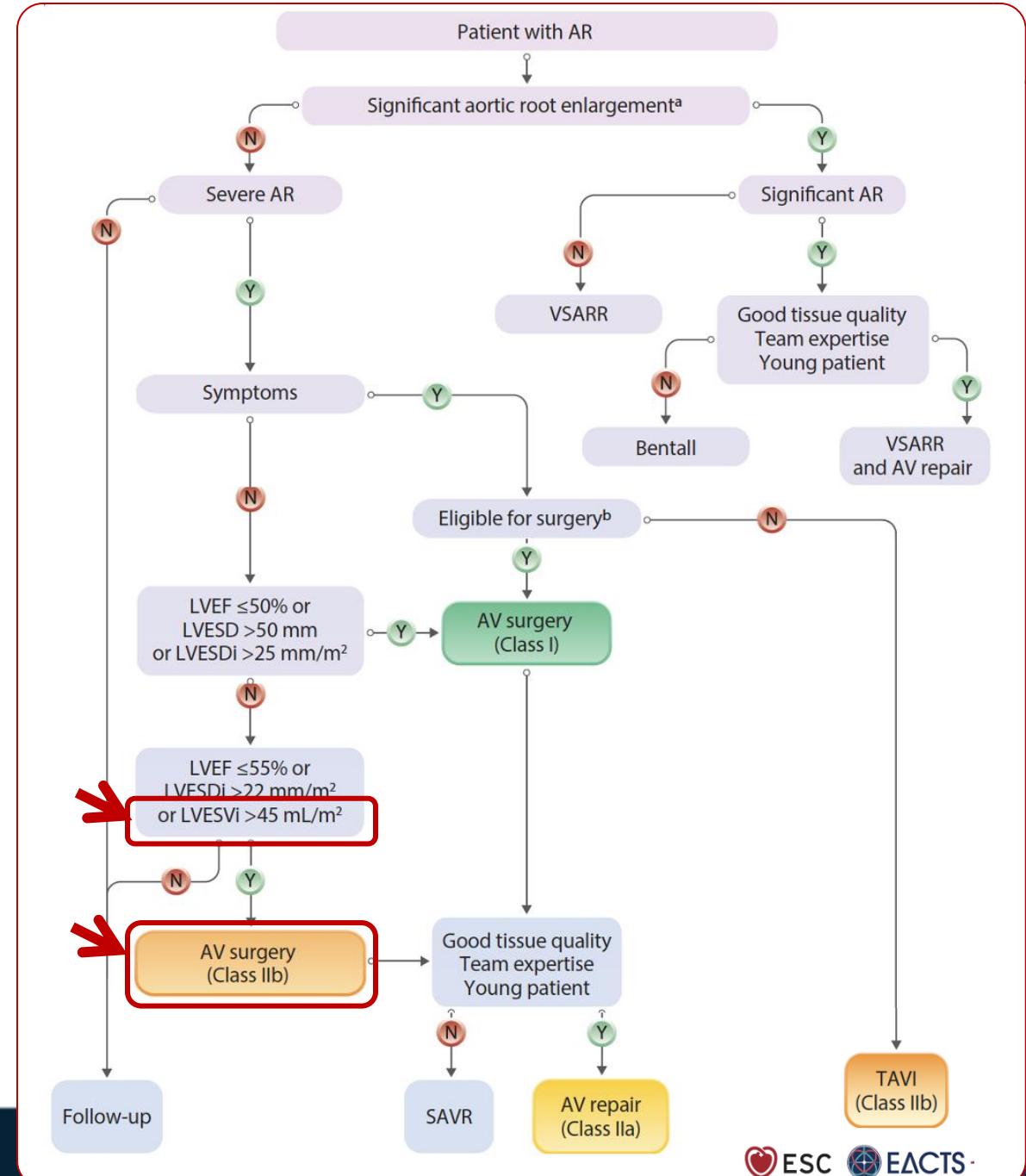
Authors/Task Force Members: Fabien Praz *†, (ESC Chairperson) (Switzerland), Michael A. Borger *†, (EACTS Chairperson) (Germany), Jonas Lanz ‡, (ESC Task Force Co-ordinator) (Switzerland), Mateo Marin-Cuartas ‡, (EACTS Task Force Co-ordinator) (Germany), Ana Abreu (Portugal), Marianna Adamo (Italy), Nina Ajmone Marsan (Netherlands), Fabio Barili (Italy), Nikolaos Bonaros (Austria), Bernard Cosyns (Belgium), Ruggero De Paulis (Italy), Habib Gamra (Tunisia), Marjan Jahangiri (United Kingdom), Anders Jeppsson (Sweden), Robert J.M. Klautz (Netherlands), Benoit Mores (Belgium), Esther Pérez-David (Spain), Janine Pöss (Germany), Bernard D. Prendergast (United Kingdom), Bianca Rocca (Italy), Xavier Rossello (Spain), Mikio Suzuki (Serbia), Holger Thiele (Germany), Christophe Michel Tribouilloy (France), Wojtek Wojakowski (Poland), and ESC/EACTS Scientific Document Group



2025 ESC/EACTS Guidelines for the management of valvular heart disease

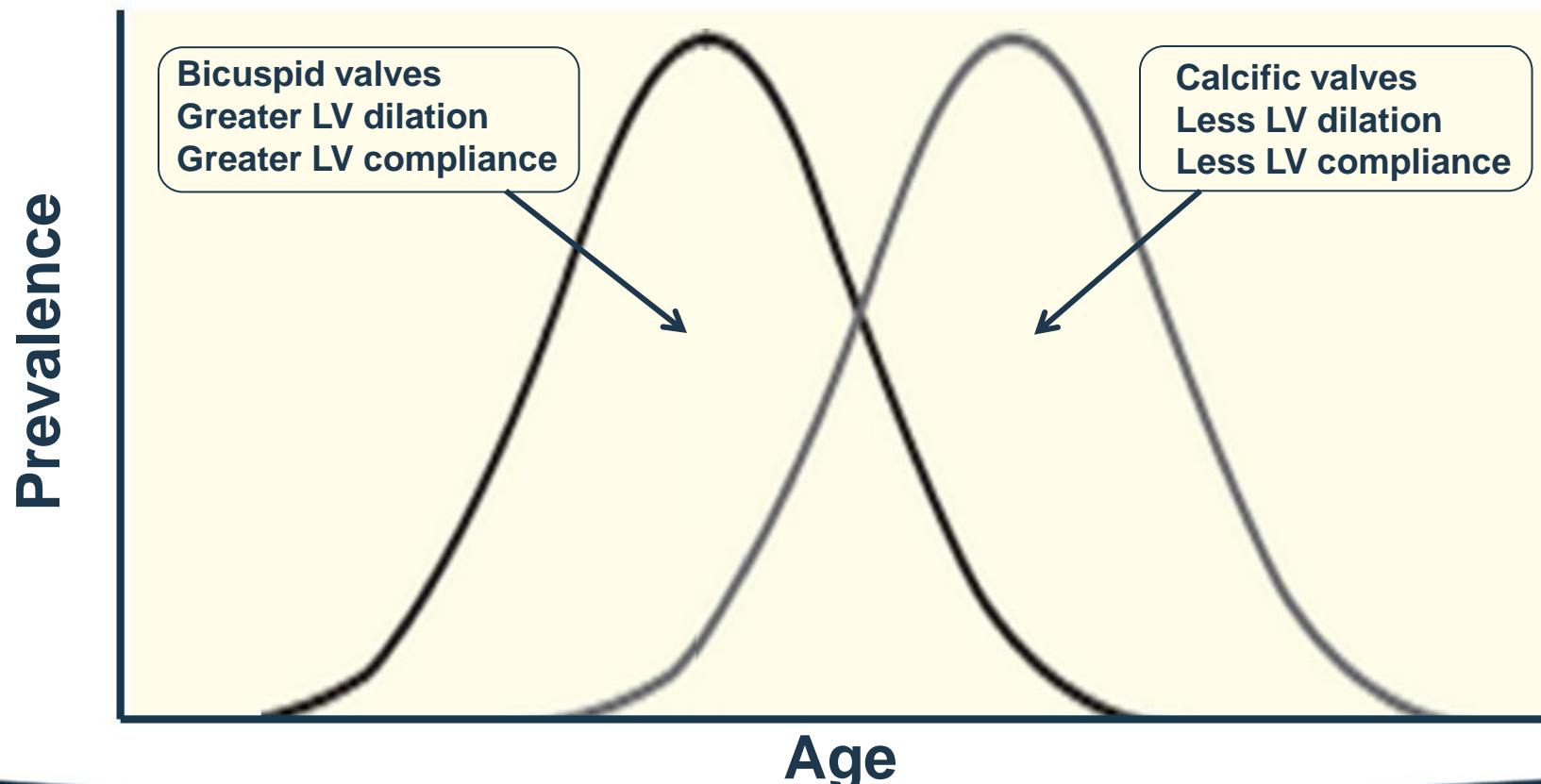
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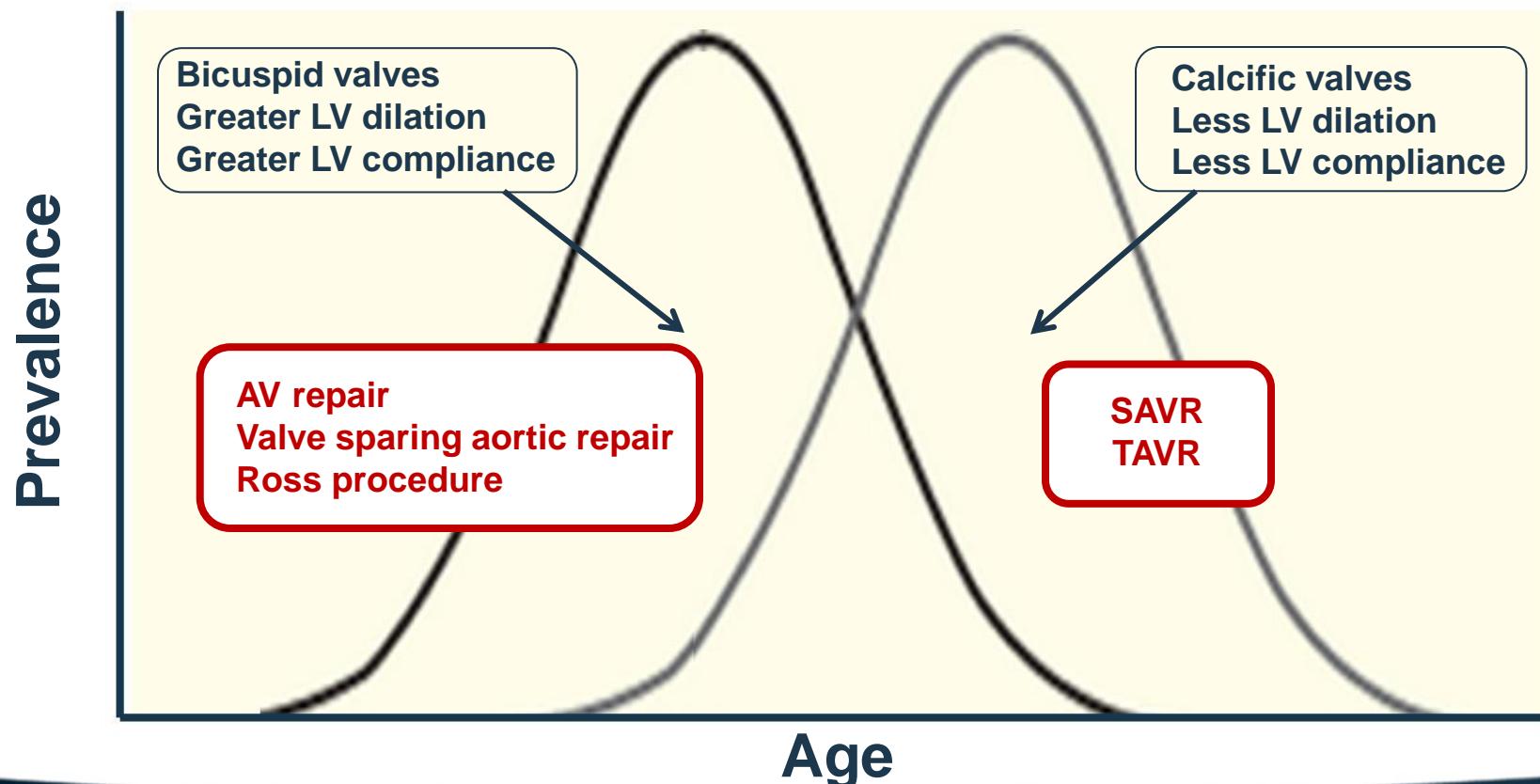
Aortic Regurgitation in 2025: The Weight of the Problem

Diagnosis



Aortic Regurgitation in 2025: The Weight of the Problem

Treatment



Aortic Regurgitation in 2025: The Weight of the Problem

Diagnosis Treatment

What is needed:

**Prospective studies that will drive new
paradigms in diagnostic accuracy**

... including sex-specific criteria

**... that will provide evidence for new
paradigms in therapeutic decisions**