



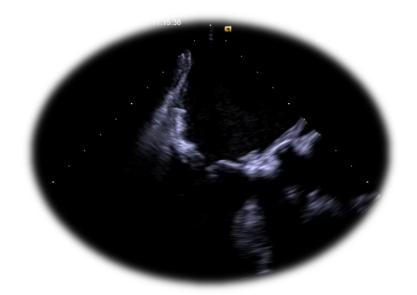








MITRAL VALVE CALCIFICATION: CASE CHALLENGES & EVOLVING SOLUTIONS





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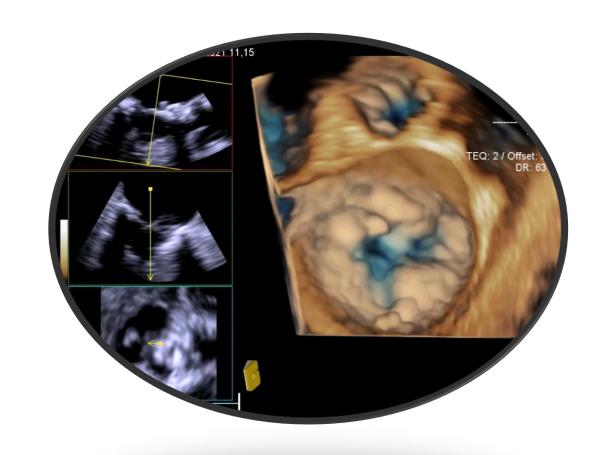
Head of Cardiology Department and EchoLab Città di Lecce Hospital - GVM, Lecce, Italy



MITRAL CALCIFICATION

Cases overview

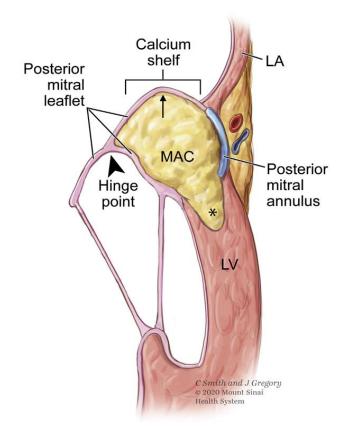
- 1. MAC
- 2. RHEUMATIC
- 3. RADIATION-INDUCED
- 4. DEGENERATIVE



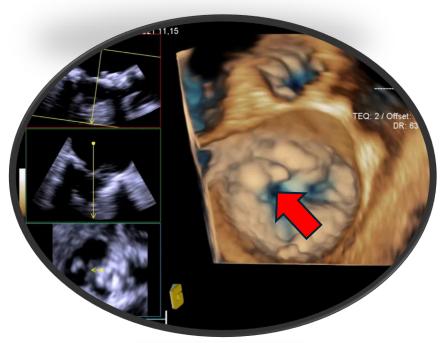
Mitral Annular Calcification and Calcific Mitral Stenosis: Role of Echocardiography in Hemodynamic Assessment and Management

Jeffrey J. Silbiger, MD, New York, New York

MITRAL ANNULUS CALCIFICATION

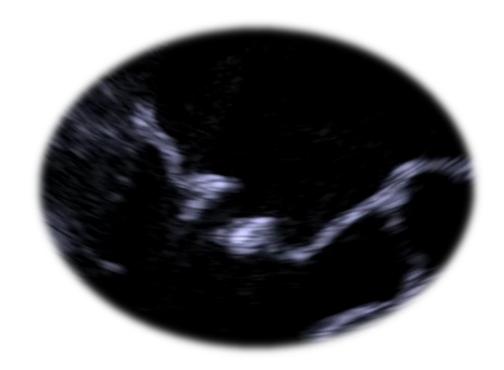






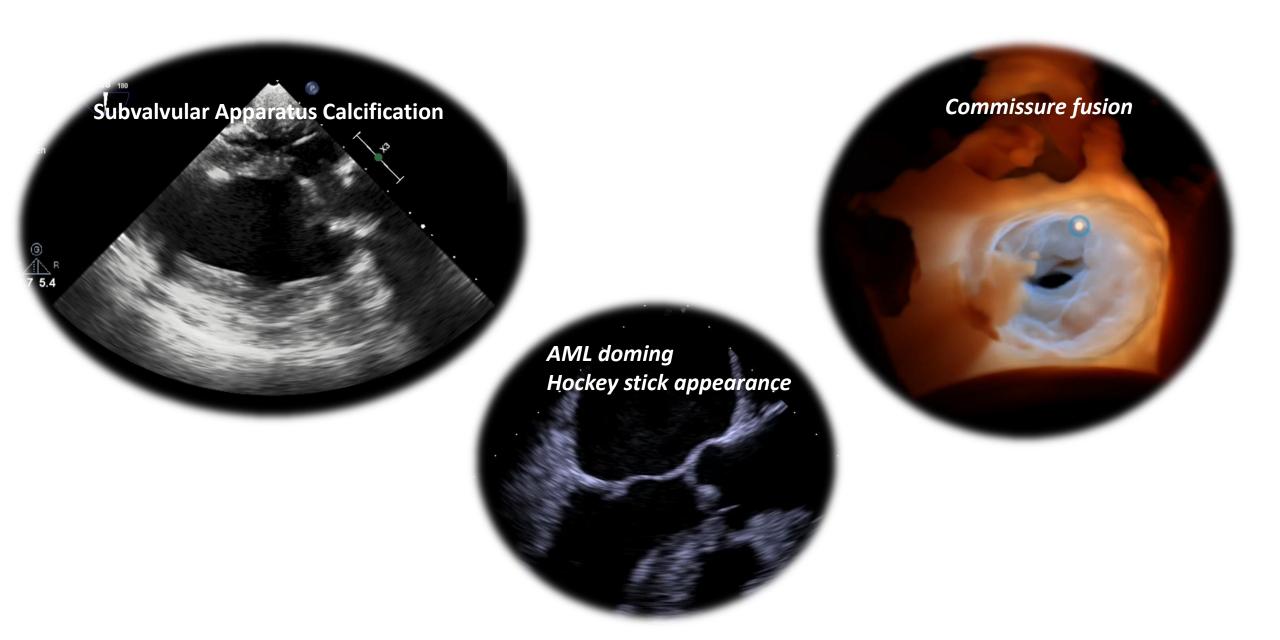
RHEUMATIC MITRAL DISEASE

In the calcific form, calcifications proceeds from the annulus inward toward the leaflets' free margins, whereas **in rheumatic disease** it begins at the free margins of the leaflets and progresses outward toward the leaflets' bases



Free edges calcification

MAIN FEATURES OF RMS

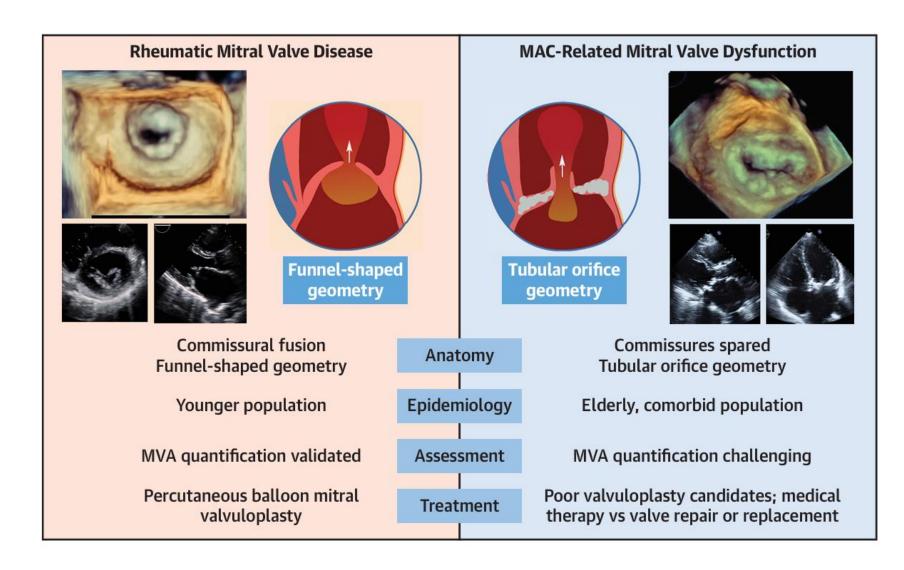


Mitral Valve Dysfunction in Patients With Annular Calcification



JACC Review Topic of the Week

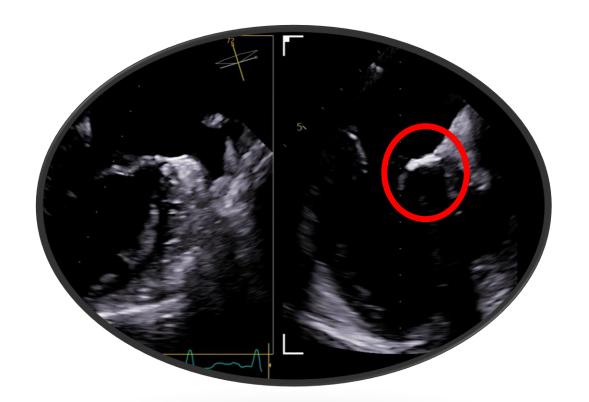
Timothy W. Churchill, MD, ^a Evin Yucel, MD, ^a Sébastien Deferm, MD, PhD, ^{b,c} Robert A. Levine, MD, ^a Judy Hung, MD, ^a Philippe B. Bertrand, MD, PhD^{a,b,c}

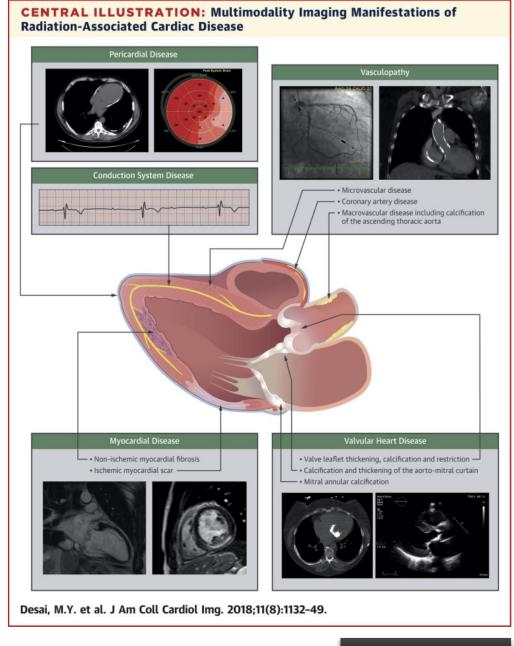


RADIATION INDUCED

Aorto-mitral curtain thickening/calcification is

being recognized as a hallmark of previous heart irradiation and its extent is strongly associated with mortality in subjects undergoing cardiac surgery

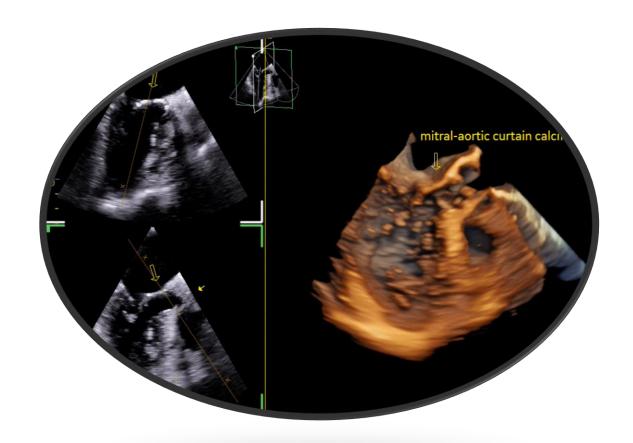


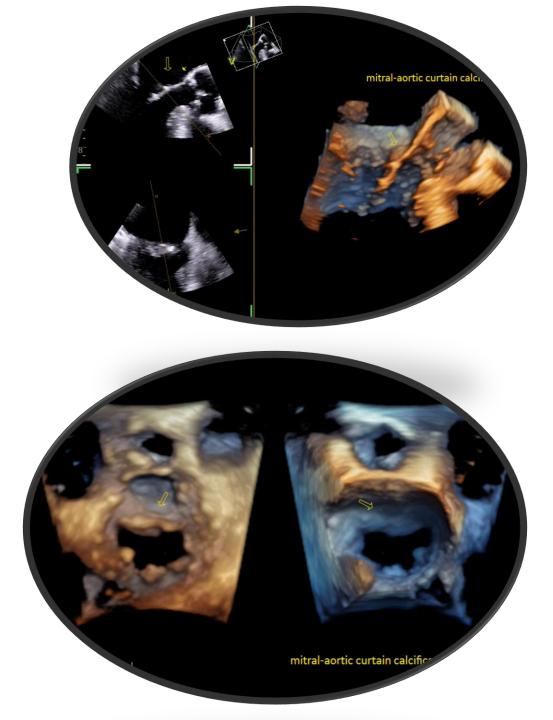


Increased Aorto-Mitral Curtain Thickness Independently Predicts Mortality in Patients With Radiation-Associated Cardiac Disease Undergoing Cardiac Surgery

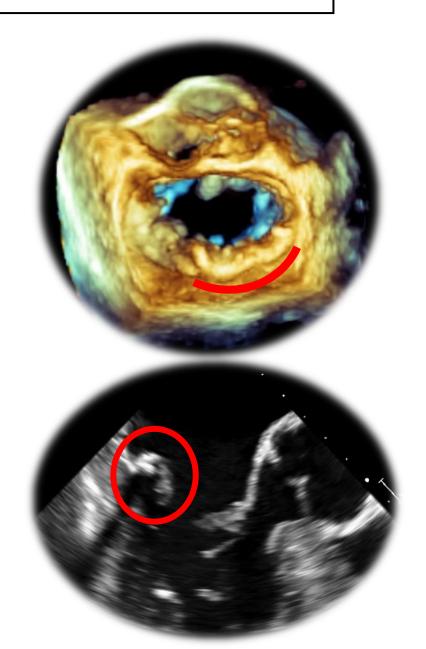
Milind Y. Desai, MD, Willis Wu, MD, Ahmad Masri, MD, Zoran B. Popovic, MD, PhD, Shikhar Agarwal, MD, MPH, Nicholas G. Smedira, MD, Bruce W. Lytle, MD, and Brian P. Griffin, MD

Heart and Vascular Institute, Cleveland Clinic, Cleveland, Ohio





DEGENERATIVE

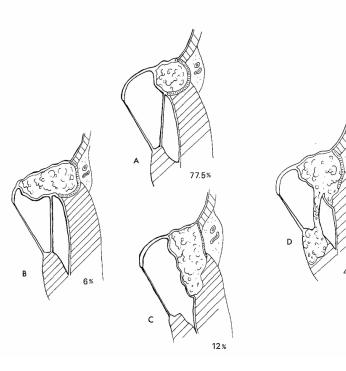


EXTENSIVE CALCIFICATION OF THE MITRAL VALVE ANULUS: PATHOLOGY AND SURGICAL MANAGEMENT

Alain F. Carpentier, MD, PhD Michel Pellerin, MD*§ Jean-François Fuzellier, MD§ John Y. M. Relland, MD§ Extensive calcification of the mitral valve annulus is a pathologic entity frequently associated with degenerative valvular disease. The calcification process remains localized to the annulus in 77% of the cases. It may extend, however, to the underlying myocardium. Whenever an operation is neces-

The Journal of Thoracic and Cardiovascular Surgery Volume 111, Number 4

Carpentier et al. 721



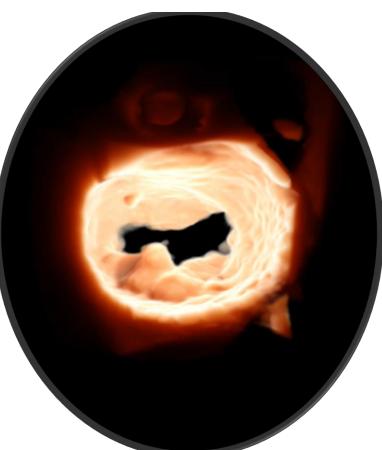


Barlow's Mitral Valve Disease: A Comparison of Neochordal (Loop) and Edge-To-Edge (Alfieri) Minimally Invasive Repair Techniques

Jaqueline G. da Rocha e Silva, MD, Ricardo Spampinato, MD, Martin Misfeld, MD, PhD, Joerg Seeburger, MD, PhD, Bettina Pfanmüller, MD, PhD, Sandra Eifert, MD, PhD, Friedrich W. Mohr, MD, PhD, and Michael A. Borger, MD, PhD

Department of Cardiac Surgery, Leipzig Heart Center, Leipzig, Germany; and Division of Cardiac, Thoracic and Vascular Surgery, Columbia University Medical Center, New York, New York

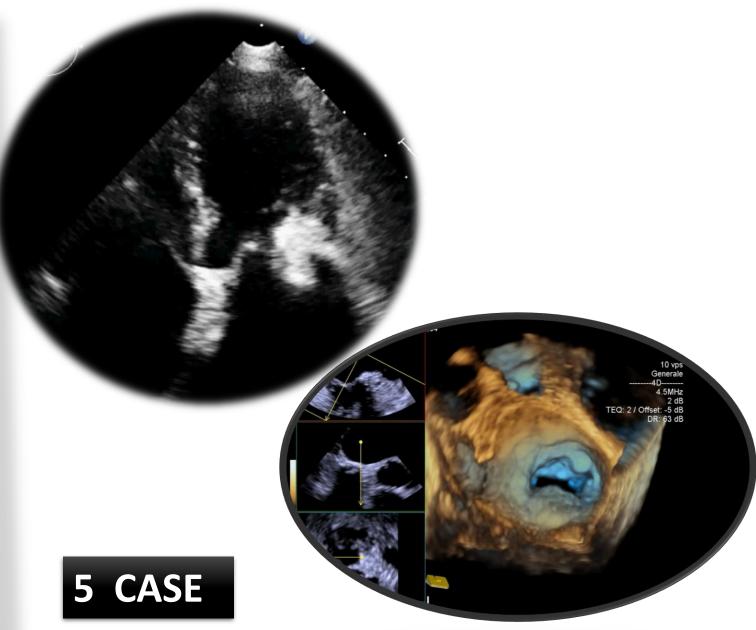






LIQUEFACTIVE NECROSIS OF MITRAL ANNULAR CALCIFICATION – CASEOUS DEGENERATION







Why do mitral calcifications matter?

- VALVE DYSFUNCTION
- **DECISION-MAKING** (Repair vs Replacement vs Percutaneous)
- EMBOLIC RISK







SEPTEMBER 25&26 2025





