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Liège | Théâtre de Liège | Belgium

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70th ESCVS
International congress of the European Society
for Cardiovascular and Endovascular Surgery



7th IMAD meeting

M&Ms and the heart: The mitral valve in Marfans

Julie De Backer, MD, PhD

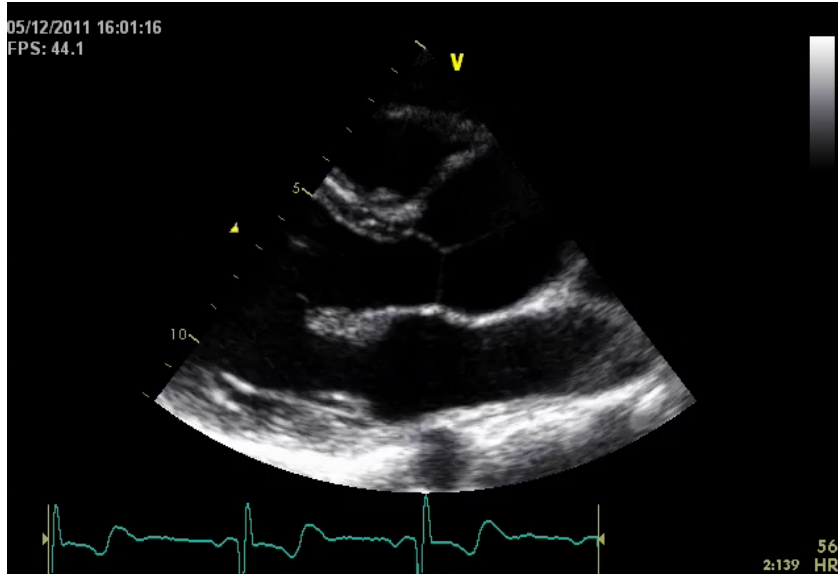
Ghent University Hospital, Belgium

Conflict of Interest

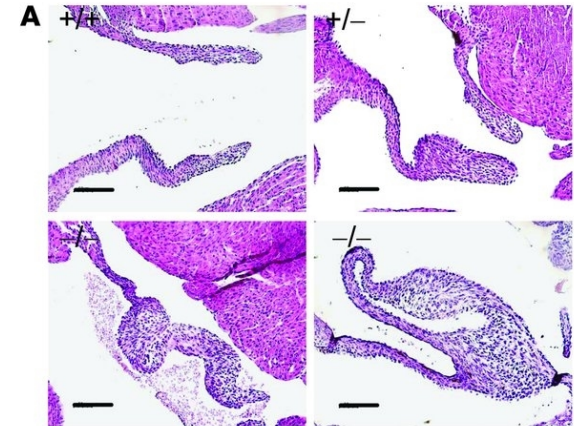
- None

Mitral Valve Prolapse in MFS

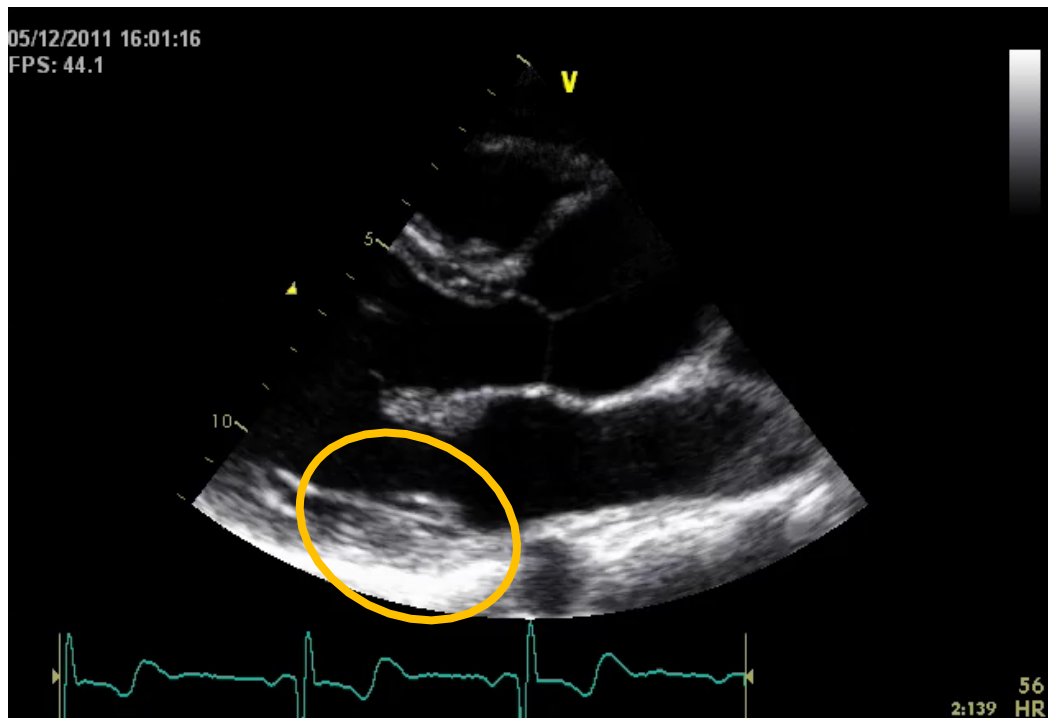
What we know



- 1/3 children – 2/3 adults
- More clinical events at a younger age
- 20% of ARR + MV procedure
- Related to ventricular arrhythmia
- Involvement of TGFB (in mice)



Mitral Annular Disjunction- what we know

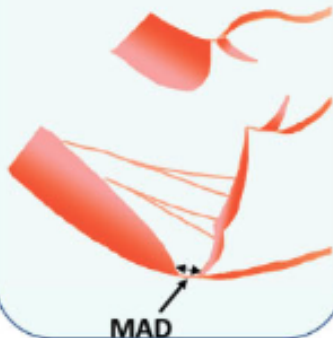


- In 20% of MVP patients with MR
- In 8,7% of general population

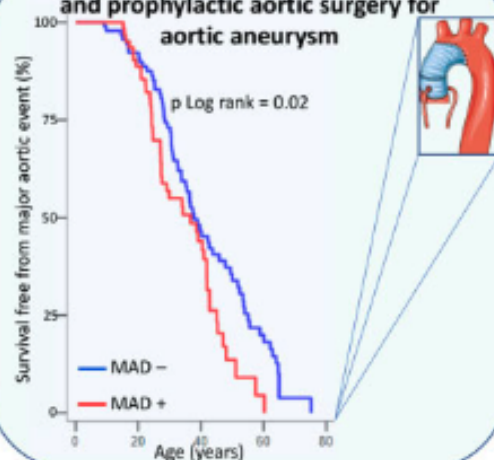
103 patients with
Marfan syndrome

65 patients with
Loeys-Dietz syndrome

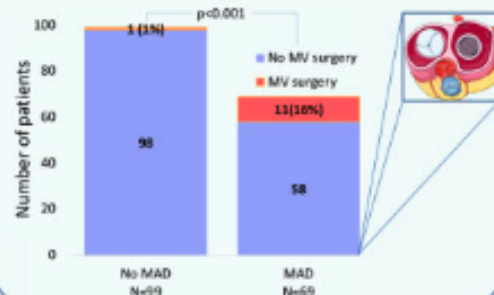
40% prevalence of
mitral annulus
disjunction (MAD)



Younger age at aortic dissection
and prophylactic aortic surgery for
aortic aneurysm

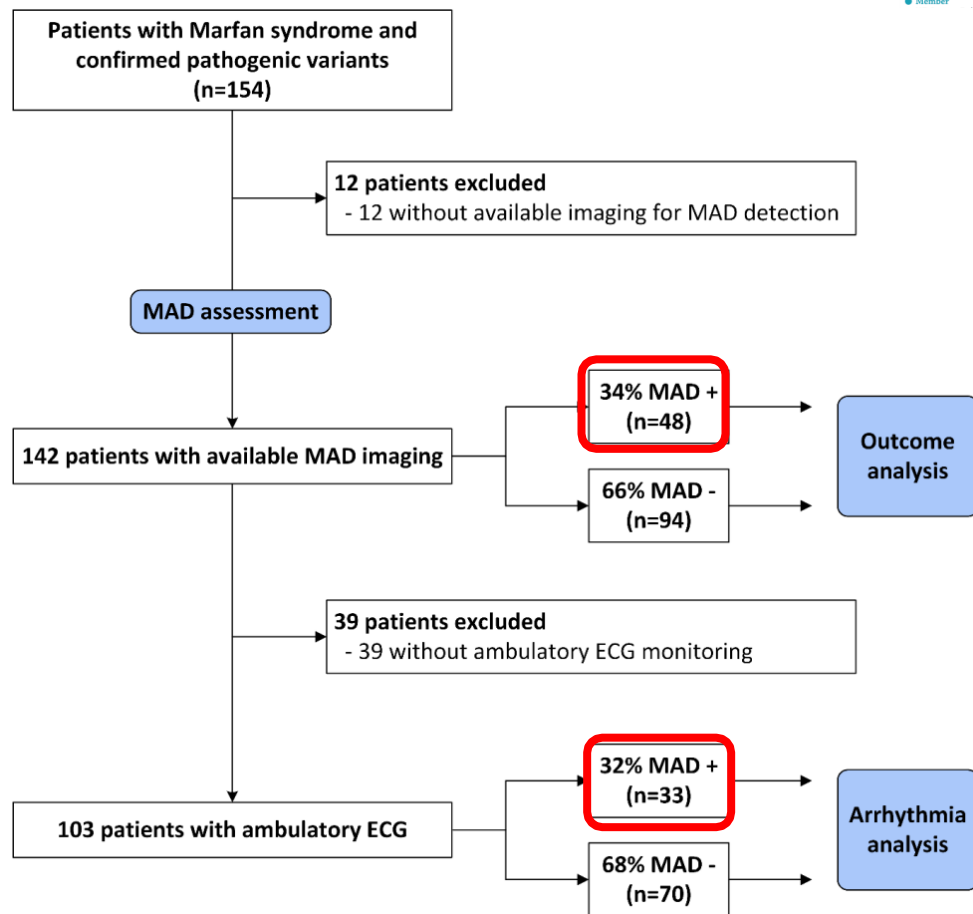


Higher frequency of mitral valve surgery



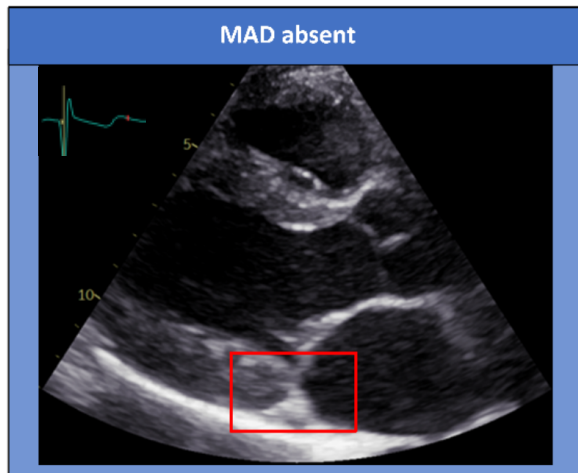
Association of Mitral Annular Disjunction With Cardiovascular Outcomes Among Patients With Marfan Syndrome

Anthony Demolder, MD; Frank Timmermans, MD, PhD; Mattias Duytschaever, MD, PhD;
Laura Muiño-Mosquera, MD, PhD; Julie De Backer, MD, PhD

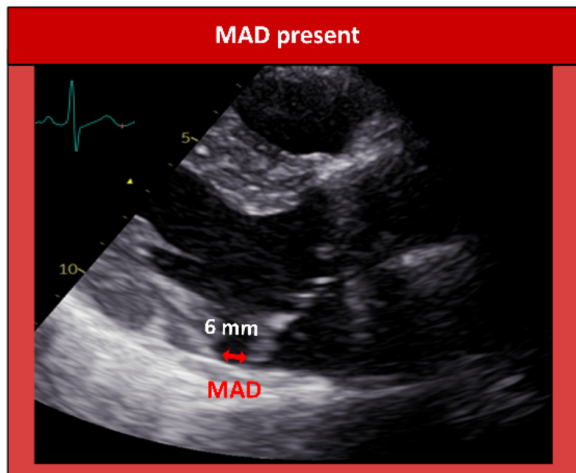


Results

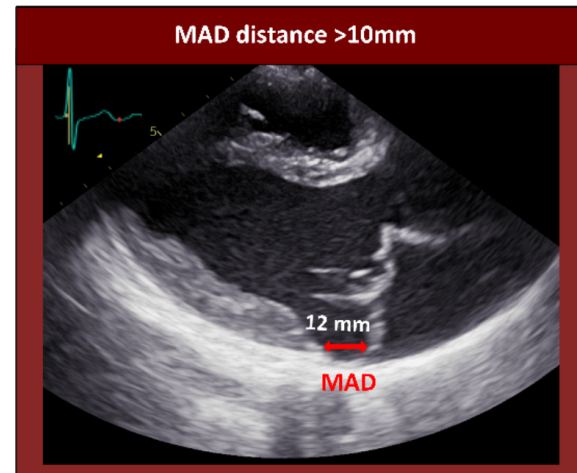
MAD absent



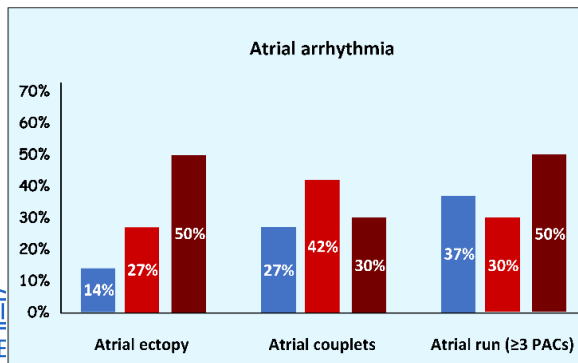
MAD present



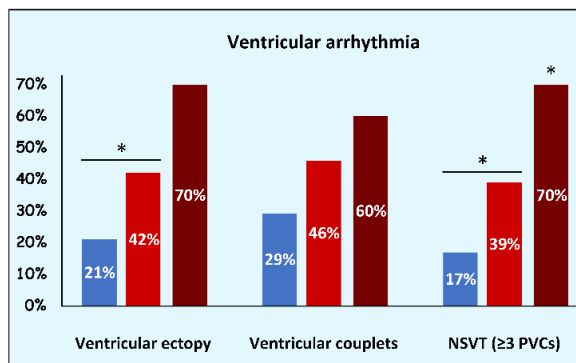
MAD distance >10mm



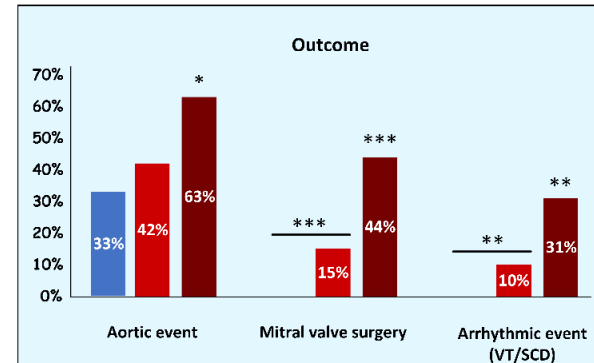
Atrial arrhythmia



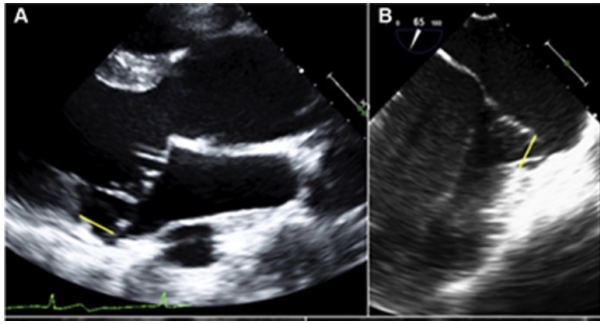
Ventricular arrhythmia



Outcome



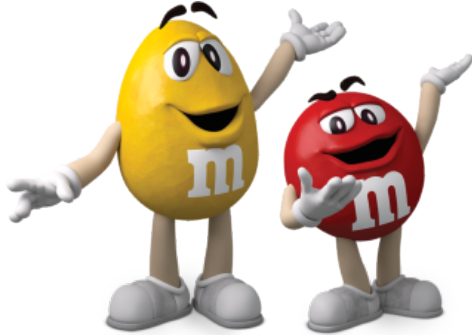
Mitral annular disjunction in MFS



Sinus (76 bpm), Ventricular Fibrillation, Agonal Rhythm, Asystole



M&Ms and the Heart



- MVP/MAD are clinically important manifestations in Marfan syndrome
- MV disease project within the Montalcino Aortic Consortium
 - Prevalence – presenting feature
 - Association with Aortic disease
 - Arrhythmia - CMP

Thank you!

Ghent University

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