Play it again, SAM
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71 year old man with palpitations and a murmur
- Posterior prolapse and MR for many years
- Recent onset of atrial fibrillation
C point-septal distance 2.5 cm
AML length 2.6 cm
PML length 2.0 cm
AML/PML ratio 1.3
SAM Complicates ~5% of Mitral Repairs

Risk factors:
- C point-septal distance <2.6 cm
- PML height > 1.5 cm
- AML/PML ratio <1.1-1.4

Varghese 2012; Maslow 1999; Gillinov 2001

THE PRINCIPLE TO AVOID S.A.M.

adapted from Garcia Fuster, CTSNet.org
Initial strategies:
- Ensure adequate LV filling (preload)
- Consider beta blocker if tachycardia
- Make sure MAP >80 mm Hg

Surgical Strategies
- Reduce height of the posterior leaflet (goal <15 mm)
- Upsize annuloplasty ring
- Shortening neochord
- Septal myectomy in some cases
- Edge-to-edge suture

Alfieri & Lapenna 2015