

P105. Myxo Etlogix Mitral Ring Prevents Post-repair Systolic Anterior Motion Without Extensive Leaflet Reduction

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OBJECTIVES: Post-repair systolic anterior motion (SAM) results from disparity between mitral annular dimension and combined heights of the anterior leaflet (AML) and posterior leaflet (PML). The surgical approach has emphasized leaflet reduction. The present report compares the need for leaflet reduction surgery in patients with Barlow's valve (AML height in excess of 30 mm) using the Myxo ETlogix versus a flexible band or ring.

METHODS: 63 patients with Barlow's pathology and excess tissue (AML > 30 mm) underwent mitral valve repair. Group A (N = 30) received standard flexible ring or band and is compared for frequency of leaflet reduction with Group B (N =33) who received Myxo ETlogix ring.

RESULTS: Group A patients required leaflet reduction in all patients. The PML was reduced in 19 and AML in 26. In group B no patients received AML reduction. and 10 patients received PML reduction. No patient in either group developed post repair SAM. Follow up for up to 28 months shows continued intermediate term success with the Myxo ETlogix ring.

CONCLUSIONS: The use of new rigid Myxo ETlogix ring designed to remodel the mitral annulus by displacing leaflet coaptation posteriorly resulted in repair success without need for extensive leaflet reduction surgery. We propose that the simplified repair with this ring in complex Barlow's valves will result in higher rates of successful repairs, and reduce a need for valve replacement.