



Mitral Stenosis in Young Adults

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Clinical Image

In the given Figure 1 severe calcification with Fibrosis in a young adult male patient with history of rheumatic heart disease. He had severe Mitral stenosis with moderate Mitral Regurgitation on Preoperative Echocardiogram. The valve during surgery appeared as a solid structure which had to be excised by cutting around its annulus with sharp dissection. Both leaflets and sub valve apparatus had severe fibrosis with calcification. This degree of degeneration of Rheumatic valves is not seen in the countries with access to modern health care Figure 1.

This 23 years old lady had an episode of pulmonary odema during her last pregnancy which resulted in abortion. Echocardiogram revealed severe Mitral stenosis with abnormal looking Mitral valve with two papillary muscles. Imaging was reported as most probably a "supra Mitral Membrane" adherent to the Mitral valve Figure 2. During surgery the Mitral valve was found to have one Dome like structure with a 0.5 cm slit like opening in the middle. The Chordae were attached to the ventricular aspect of this opening and were crowded. There were two distinct papillary muscles in normal position. A rare congenital anomaly described as "Unicuspid Mitral Valve" in literature. The picture is an operative photograph before excising the valve.



Figure 1: Mitral Stenosis.

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Figure 2: Unicuspid Mitral Valve.