



Feasibility for Repair of Acquired Mitral Leaflet Defects in First Time and Redo Operations through a Right Minithoracotomy

Sana Rahman and Atiq Rehman*

Tran Catheter Valve Therapy, Lourdes Medical Center, USA

Clinical Image

CardioCel (Admedus, Malaga, Australia) patch has been used to repair cardiac defects [1]. We present three cases where we successfully repaired acquired mitral leaflets in first time and redo operations. All cases performed through 5 cm right minithoracotomy using CardioCel.

Patient #1 (Figure 1A and 1B) had AVR2 months ago and persistent dyspnea. TEE revealed new 2 cm × 2 cm defect in A1 scallop with severe mitral regurgitation (MR). CardioCel patch repair of defect performed without annuloplasty ring because of mitral annular calcification.

Patient #2 (Figure 2A and 2B) had history of embolic stroke and methicillin resistant



Figure 1A: A1 Scallop tear post aortic valve replacement.

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*Correspondence:

Atiq Rehman, Trans Catheter Valve Therapy, Lourdes Medical Center, 1600 Haddon Ave, Camden, NJ 08103, USA, Tel: 609-304-8397; Fax: 856-668-8815; E-mail: atiqmd@aol.com

Received Date: 15 Jul 2017

Accepted Date: 02 Aug 2017

Published Date: 12 Aug 2017

Citation:

Rahman S, Rehman A. Endoballoon Occlusion Catheter Insertion through the Left Subclavian Artery. *J Surg Tech Proced.* 2017; 1(2): 1006.

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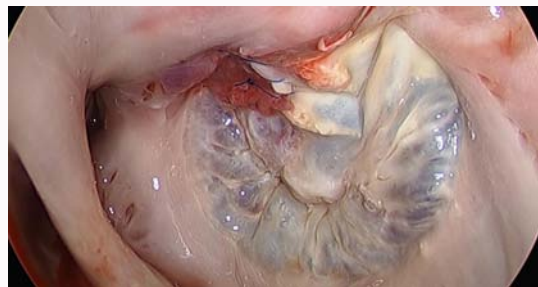


Figure 1B: Defect repaired with CardioCel patch without annuloplasty ring due to MAC.



Figure 2A: A2 Scallop defect post endocarditis.



Figure 2B: Defect repaired with CardioCel patch and Physio annuloplasty ring.



Figure 3B: CardioCel patch repair of defect and Cosgrove annuloplasty band.

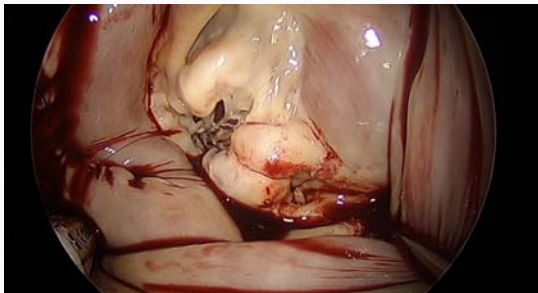


Figure 3A: Degenerative defect in P3 scallop.

staphylococcus aureus endocarditis with progressive dyspnea on exertion. Tran Esophageal Echocardiography (TEE) revealed severe MR with 2 cm × 1.8 cm defect in A2 scallop. Defect repaired with CardioCel patch and Physio (Edwards Life Sciences, Irvine, US) 32 mm ring.

Patient #3 (Figure 3A and 3B) was asymptomatic octogenarian with incidental murmur. 3-D TEE demonstrated 2 cm × 1.5 cm defect in P3 scallop of mitral valve and severe MR. Defect was repaired with patch and Cosgrove (Edwards Life Sciences, Irvine, US) 36 mm ring.

References

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