

Evaluation of the pulmonary artery pressure during Percutaneous Transvenous Mitral Commissurotomy in Rheumatic Mitral Stenosis

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Abstract

While many literatures reviewed till dates have shown that It takes 3-6 months time period for the reduction of pulmonary artery pressure after PTMC. This study is designed to see pulmonary artery pressure immediately after procedure.

Method:

All the patients with Rheumatic Mitral Stenosis in Cath Lab under department of cardiology of Chitwan Medical College from October 1 2018 to August 30 2019 were included in this study

Results:

It is a prospective observational study on a total of 42 patients who underwent PTMC, 30 were female and 12 were male. Age ranged from 30 to 61 years with the mean age of 45.36 ± 10 years. The mean mitral valve area increased from 0.87 ± 0.2 cm² to 1.74 ± 0.17 cm² whereas Mean Pressure Gradient decreased from 13.59 ± 7.30 to 5.15 ± 3.0 as. Mean Pulmonary Artery Pressure decreased from 41.50 ± 16.00 to 33.50 ± 12.00 . Similarly, the mean left atrial pressure decreased from 26.57 ± 8.62 mmHg to 15.50 ± 5.95 mmhg whereas, the mean Aortic Pressure increased from 91.43 ± 23.02 mmHG to 98.29 ± 24.92 mmHg as assessed by right heart catheterization. Eighteen (42.85%) patients had an increase in MR by 2 grades but there is no need of immediate mitral valve replacement. During procedure, paroxysmal PSVT was noted in six (14.285%) patients and also local hematoma was observed in five (11.90%) patients.

Conclusion:

There is reduction of pulmonary artery pressure immediately post PTMC which is directly correlated with left atrial pressure without significant MR and tachycardia.



Biography:

Ananda G.C has completed medical education at Chitwan Medical College and is currently working as an associate professor at Chitwan Medical College, Nepal

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