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Balloon mitral valvotomy in youngest rheumatic mitral stenosis patient

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Rheumatic heart disease occurring at a young age including juvenile mitral stenosis results in morbidity as well as mortality in adolescents and young adults, and also becomes one of the major cause of loss of the most productive years of life in developing countries like India. Rarely rheumatic MS may occur in < 5 years age, wherein rapid hemodynamic progression and cardiac morbidity and mortality occur. Our patient was 4 years old child with severe mitral stenosis (documented since 2 year 6 months of age) presenting with repeated pulmonary edema and the typical echocardiographic findings strongly indicated a rheumatic origin of this condition. Considering the fulminating nature of disease, patient was planned for early intervention and was taken for balloon mitral valvotomy with 20 mm Tyshak balloon. Percutaneous transmitral commissurotomy (PTMC) may therefore become the only lifesaving intervention in these cases unless contraindicated, although the procedure entails considerable technical issues in this age group like sizing of peripheral venous sheath, choice of balloon, estimation of optimum balloon size by the height criteria. A few case series of balloon mitral valvotomy in patients aged 7 to 12 years have also been reported, and the procedure has been safe and effective even in this young population. To the best of our knowledge, our patient was the youngest documented case of established rheumatic heart disease and also one of the youngest PTMC procedure performed.

Biography

Shailesh Kumar Patil has done his MBBS and MD internal medicine from reputed institutions in India with academic excellence. Trained in cardiology for 3 years in one of the high volume centre in India, where highest number of pacemaker implantations are done in asia. Also well trained in thansthoracic and trasesophageal echocardiograph and performed around 5000 femoral and radial angiographies, 1000 angioplasties including complex corornary and peripheral angioplasties, pediatric device implantations and balloon mitral valvuloplasty. He has got 7 national and international publications to his name. He is presently consultant cardiologist at 250 bed tertiary hospital in Pune, India.

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