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0-1-C1236 :Posterior aortic enlargement in women with aortic annulus at 15 mm: case report.

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Introduction :

- *Aortic root enlargement is necessary in the hypo plastic aortic root defined as a diameter of the aortic annulus lower than 19 mm.
- *It is a very rare.
- *The diagnostic is made by echocardiography (TTE).
- *This new report case is an opportunity for us to make a reminder of this little-known entity among cardiologists and heart surgeons.

méthods :

- *We report the case of 38 years old woman in the history of mitral valve repair in 1989 and replacement in 2002.
- *She presents since some months of palpitation and syncope.
- ***The physical examination :**found systolic murmur.
- ***TTE** objectived aortic retrecissement associed with aortic insufficiency. Gradient aorta- left ventricle: 56 mm hg, aortic annulus at 15 mm, left ventricular hypertrophy .
- ***Chest X-ray :**showed cardiomégaly.
- *The patient was opered under cardiopulmonary bypass.
- *The approach was sternotomy .
- ***Operative exploration** revealed hypoplastic aortic root and aortic valve redesign .
- ***The gesture** was consist of a aortic valve replacement with a mechanical prosthesis SJM number19 after enlargement of the aortic ring and myotomy of Biglow under cardiopulmonary bypass according to the technique of NUNEZ .

Résultats :

- *Stay in intensive care unit :48 hours .
- *Intubation procedure :14hours .
- *post operative stay :12days
- *fraction d éjection conservée 58%.
- *The immediate postoperative course was simple.
- *And reduction of gradient aorta – left ventricle to 15 mm hg.

Conclusion :

- *Posterior aortic root enlargement is a safe procedure for hypo plastic aortic annulus with valve replacement, without operative risks.

Bibliographie:

- 1-Pibarot P, Dumesnil JG, Lemieux M, Cartier P, Metras J, Durand LG.Impact of prosthesis-patient mismatch on hemodynamic and symptomaticstatus, morbidity and mortality after aortic valve replacementwith bioprosthetic heart valve. J Heart Valve Dis 1998;7:211–218.
- 2- Del Rizzo DF, Abdoh A, Cartier P, Doty D, Westaby S. Factors affecting left ventricular mass regression after aortic valve replacement with stentless valve. Semin Thorac Cardiovasc Surg 1999;11:114–120.
- 3- Tasca G, Brunelli F, Cirillo M, Dalla Tomba M, Mhagna Z, Troise G, QuainiE. Impact of valve prosthesis-patient mismatch on left ventricular mass.