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**AORTIC ROOT WRAPPED PROCEDURE**

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**Objective** To develop a relatively simple and effective and less risk operation, aortic root wrapped procedure, to treat with aortic root aneurysm or ectasia.

**Methods** From June 2008 to September 2010, 15 patients were accepted of aortic root wrapped angioplasty procedure, Marfan's syndrome with aortic root ectasia in 2 case, and aortic sinus aneurysm with middle – severe aortic valve stenosis and/or regurgitation in 13 cases. The diameter of aortic valve annulus:  $25.43 \pm 2.34$  (22–32) mm, the diameter of aortic sinus:  $50.45 \pm 7.32$  (45–60) mm. All patients undertook aortic root wrapped angioplasty procedures combined with aortic valve plasty or replacement with tissue valve prosthesis.

**Results** 15 patients were survival well, and the peri-operative mortality was 0%. CBP time was  $82.31 \pm 16.34$  (55–128) min. Predischarge UCG check result was showed: trace aortic regurgitation in 3 cases, and normal aortic valve function in 12 cases; Comparing with preoperative UCG results, aortic annulus diameter  $22.63 \pm 1.25$  (21–25) mm, decreased significantly ( $p < 0.01$ ), aortic sinus diameter  $36.86 \pm 7.41$  (30–41) mm, decreased significantly ( $p < 0.001$ ). Follow-up results: All 15 patients were survival well, and Heart function (NYHA) of the patients are all Class I. The late mortality was 0%.

**Conclusion** Aortic root wrapped procedures combined with aortic valve plastic or replacement operation is an alternative surgical procedure in patients with aortic sinus aneurysm and aortic valve disease.