

Medical Case Image

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Pulmonary artery size in ventricular septal defect

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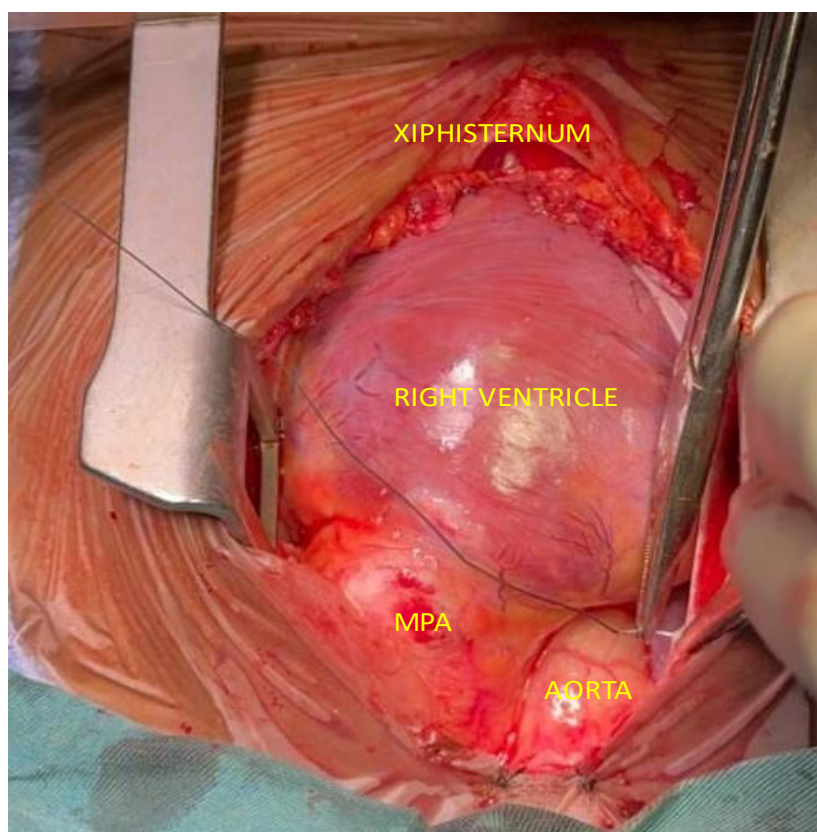


Figure 1. Caudal intraoperative view of the heart and great vessels

Diagnosis: Inlet Ventricular Septal Defect (VSD)

Biodata: Sex: Female,
Age: 6 years
Weight: 15.0kg

Operation: Patch Closure of VSD using cardiopulmonary bypass

Findings at Surgery:
Inlet VSD of 10 x 10mm
Atrial Septal Defect 6 x 4mm
Aneurysmal main pulmonary artery (MPA)

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In large left to right shunt cardiac conditions like VSD, the main pulmonary artery (Pulmonary Trunk) could become aneurysmal as in this patient. In this patient,

the main pulmonary artery is about 3-4 times the size of the aorta, giving the sizes ratio of the VSD: Aorta: MPA to 1:1: 4. The aneurysmal pulmonary artery is due to progressive dilatation of the PA as a result of increased pulmonary blood flow from the left to right (at the level of the ventricles) shunting across the large VSD. In normal persons, the ratio of the sizes is about 1:1.

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