

<u>AROUND 6PM.</u>





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VSD IS A NON-CYANOTIC CONGENITAL HEART DISEASE, CHARACTERIZED BY AN

ABNORMAL COMMUNICATION BETWEEN THE RIGHT AND LEFT VENTRICLES

























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Hemodyanmic Impact of VSD jet on aortic valve

Aorta INTERESTINGLY, SOME VSD'S CAN ALSO CAUSE LV DYSFUNCTION BY CAUSING AORTIC VALVE INSUFFICIENCY RV A١ The push** (Mid systole) The prolapse***(Early diastole) The lift* (Early systole)

Source: www. Drsvenkatesan.com, modified from Tatsuno et al TATSUNO, K., et al. (1973). "Pathogenetic Mechanisms of Prolapsing Aortic Valve and Aortic Regurgitation Associated With Ventricular Septal Defect." Circulation 48(5): 1028-1037.





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SO, TO SUMMARIZE THE CLINICAL PICTURE OF ADULTS WITH - A PERSISTENT, ISOLATED - VSD ...

SIZE OF VSD	PULMONARY VASCULAR RESISTANCE	CLINICAL PICTURE
<u>SMALL (RESTRICTIVE)</u> - DIMENSION <25% OF AORTIC ANNULUS DIAMETER. - SHUNT RATIO [QP:QS] < 1.5 : 1	LOW	 • <u>LEFT TO RIGHT SHUNT</u> • USUALLY, <u>ASYMPTOMATIC</u> • LOW RISK OF COMPLICATIONS *
MODERATE (MODERATELY <u>RESTRICTIVE)</u> - DIMENSION 25% - (75% OF	MILDLY ELEVATED	 LEFT TO RIGHT SHUNT MAY HAVE ASSOCIATED SYMPTOMS RELATED TO THE LV VOLUME OVERLOAD. HIGHER RISK OF COMPLICATIONS
AORTIC ANNULUS DIAMETER) - [QP:QS] \geq 1.5 : 1 AND < 2.1 OR LARGE (NON-RESTRICTIVE) **	PROGRESSIVE	 LEFT TO RIGHT SHUNT MAY ALSO HAVE SYMPTOMS OF <u>RV</u> <u>PRESSURE OVERLOAD</u> DUE TO PROGRESSIVE PULMONARY HYPERTENSION. HIGHER RISK OF COMPLICATIONS.
- DIMENSION >75% OF AORTIC ANNULUS DIAMETER) - [QP:QS] > 2.1	SEVERE (RV PRESSURE EQUALIZES - AND CAN EXCEED - LV/SYSTEMIC PRESSURE)	 <u>RIGHT TO LEFT SHUNT</u> (EISENMENGER SYNDROME) HYPOXEMIA AND CENTRAL <u>CYANOSIS</u>

COMPLICATIONS INCLUDE ENDOCARDITIS, TAROMBO-EMBOLIC COMPLICATIONS, DOUBLE-CHAMBERED RIGHT VENTRICLE (DCRV), OR AORTIC REGURGITATION (AR).

** PATIENTS WITH LARGE VSD'S USUALLY PRESENT DURING EARLY CHILDHOOD WITH SEVERE CONGESTIVE HEART FAILURE.

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COMBINE THAT WITH THIS FINDING ON HIS EXAMINATION, WHICH I AM QUITE CERTAIN IS CLUBBING...





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