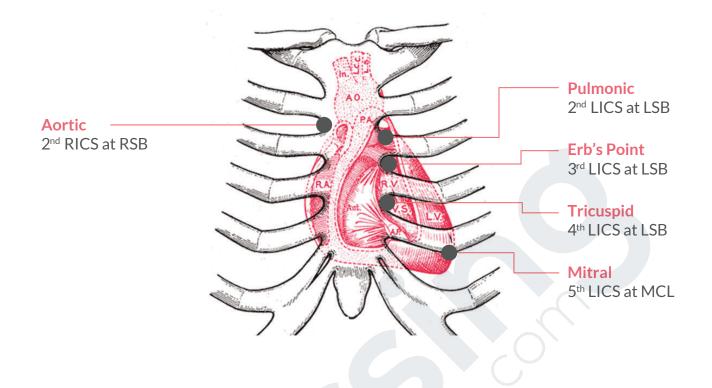
CARDIAC AUSCULTATION



Sound	Cause	Location
S1	Closure of AV valves (mitral and tricuspid)	Apex
S2	Closure of semilunar valves (aortic and pulmonic)	Base
S3 (ventricular gallop)	Rapid ventricular filling into a dilated ventricle	Mitral if LV Tricuspid if RV
S4 (atrial gallop)	Atrial contraction into noncompliant ventricle	Mitral if LV Tricuspid if RV
Split S1	RBBB, Left ventricular pacemaker, Left ventricular ectopy	Tricuspid
Split S2 (inspiratory = normal, expiratory = abnormal)	Inspiratory: Intrathoracic pressure changes, increased venous return Expiratory: RBBB, Left ventricular ectopy, VSD, Pulmonary stenosis, Pulmonary hypertension	Pulmonic



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