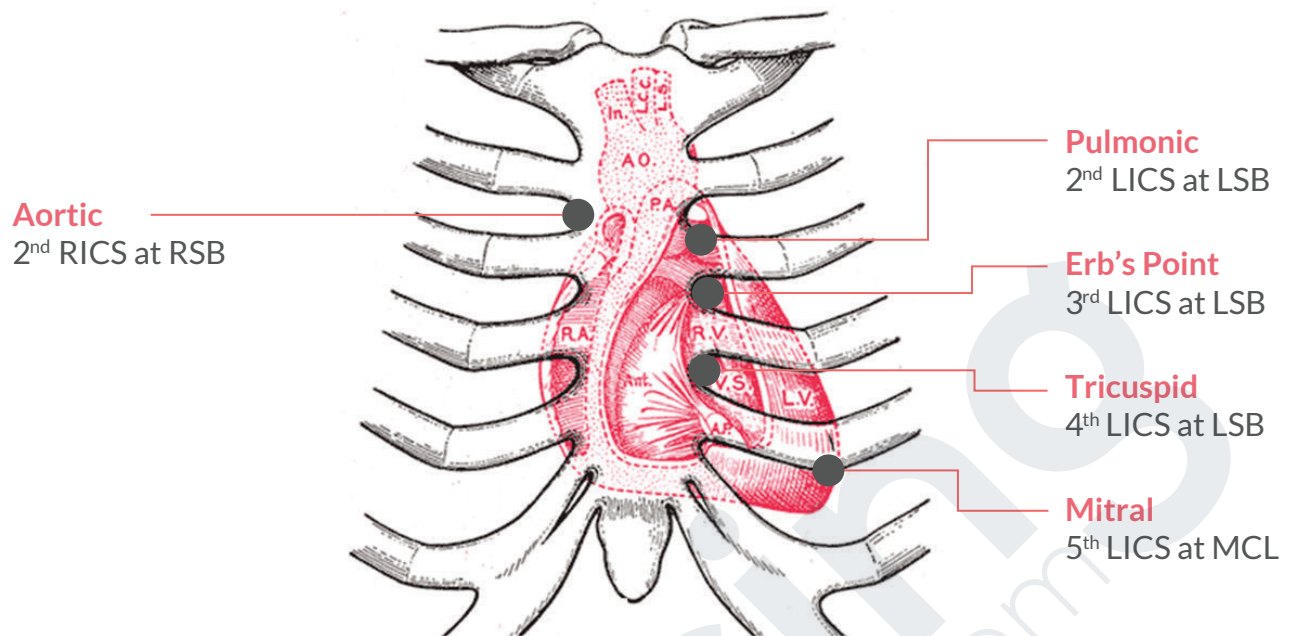


CARDIAC AUSCULTATION



| 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 |