

## Cardiac Axis in ECG

### Electrical Axis of the Heart (QRS Axis in ECG)

♥ Normal Axis:  $-30^{\circ}$  to  $+90^{\circ}$  → Left ventricle dominates.

♥ Right Axis Deviation (RAD):  $+90^{\circ}$  to  $+180^{\circ}$  → Right ventricle dominates.

Causes: Scandium ASD, Pulmonary Hypertension, RVH, Chronic lung disease.

♥ Left Axis Deviation (LAD):  $-30^{\circ}$  to  $-90^{\circ}$  → Left ventricle hypertrophy or conduction block. Causes: LVH, Left anterior fascicular block, congenital heart disease.

♥ 🔥 Importance: In pediatrics, RAD strongly suggests right-sided overload (e.g., ASD).

Diagram of the electrical axis:

Cardiac Axis: Normal vs RAD vs LAD

