THE CARDIAC CYCLE
Cardiac Conduction System
Sinoatrial (SA) node
Atrioventricular (AV) node
Antrioventricular (AV) Bundle (Bundle of His)
Right bundle branch
Left bundle branch
Purkinje Fibers
EKG = ECG = electrocardiogram
Leads (limb leads)
P wave

Atrial Depolarization
QRS complex

Ventricular Depolarization
T wave

Ventricular Repolarization
Depolarization

Diagram showing phases 0, 1, 2, 3, and 4 with currents $I_{Na}$, $I_{Ca}$, $I_{K1}$, and $I_{Ks}$. The time is measured in milliseconds (ms) from 0 to 200 ms.
Repolarization
Bradycardia

Resting heart rate under 60 bpm
Tachycardia

Heart rate exceeds 100 bpm
Fibrillation

Rapid, irregular, and unsynchronized contraction of muscle fibers