



Basic ECG Level IA ECG Monitoring & Reading **Study Guide**

Includes basic ECG interpretation and bedside ECG monitoring skills. The student should be able to:

- **Identify monitoring protocols depending upon patient presentation and the differential diagnosis**
- **Demonstrate proper lead placement with three, five, and six wire systems for telemetry, electrode application and management**
- **Demonstrate the 10-step analysis skill when interpreting ECG rhythm strips**
- **Identify the normal components of the cardiac cycle**
- **Identify the following electrocardiographic diagnoses:**

Sinus rhythms

Sinus rhythm
Sinus bradycardia
Sinus tachycardia
Sinus arrhythmia
Sinus pause
Sinus arrest

Atrial rhythms

Atrial premature beats conducted normally, aberrantly, or non-conducted (APB's)
Atrial tachycardia
Atrial flutter
Atrial fibrillation

Junctional rhythms

Junctional premature beats (JPB's)
Junctional escape beat or rhythm with and without aberration
Junctional rhythm
Junctional tachycardia

Ventricular rhythms

Ventricular premature beats (VPB's from left and right ventricle)
Ventricular escape beats
Ventricular rhythm
Accelerated idioventricular rhythm (AIVR)
Ventricular tachycardia
Ventricular fibrillation

AV blocks

First degree AV block
Second degree AV block type I
Second degree AV block type II
High grade AV block
Complete or third degree AV block

Ischemia and injury patterns

Patterns suggestive of myocardial injury
Patterns suggestive of myocardial ischemia

Bundle branch blocks

Right bundle branch block (incomplete and complete)
Left bundle branch block (incomplete and complete)
Supraventricular tachycardia with right bundle branch block
Supraventricular tachycardia with left bundle branch block