

ECG Basics - Atrial Rhythms

Atrial Fibrillation



Heart Rate: Atria 350 - 650 bpm
 Ventricles: Slow to rapid 25mm/sec 10mm/mV

- Rhythm: Irregular
- PR interval: N/A
- P Wave: Fibrillatory Waves
- QRS: <0.12

Atrial Flutter

Types 2:1, 3:1, 4:1, or greater ratio (1:1) conduction is rare



Heart Rate: Atria 250 - 350 bpm
 Ventricles: Slow or rapid 25mm/sec 10mm/mV

- Rhythm: Regular or variable
- PR interval: N/A
- P Wave: Flutter waves
- QRS: <0.12

Atrial Bigeminy



Heart Rate: N/A 25mm/sec 10mm/mV

- Rhythm: Irregular
- PR interval: 0.12- 0.20s
- P Wave: Premature or hidden
- QRS: <0.12

Supraventricular Tachycardia (SVT)



Heart Rate: 150 -250 bpm 25mm/sec 10mm/mV

- Rhythm: Regular
- PR interval: Not always possible to measure
- P Wave: Often buried in the T waves
- QRS: <0.12

Wandering Atrial Pacemaker



Heart Rate: 60 -100 bpm 25mm/sec 10mm/mV

- Rhythm: Irregular
- PR interval: 0.12- 0.20s
- P Wave: 3 types or more different P wave morphologies
- QRS: <0.12

Multifocal Atrial Tachycardia (MAT)



Heart Rate: >100 bpm 25mm/sec 10mm/mV

- Rhythm: Irregular
- PR interval: Variable
- P Wave: 3 types or more different P wave morphologies
- QRS: <0.12

Premature Atrial Contraction (PAC)



Heart Rate: N/A 25mm/sec 10mm/mV

- Rhythm: Irregular
- PR interval: 0.12- 0.20s
- P Wave: Premature (abnormal) or hidden
- QRS: <0.12

Wolff-Parkinson White (WPW)



Heart Rate: Depends on rate of underlying rhythm 25mm/sec 10mm/mV

- Rhythm: Regular w/o A-fib
- PR interval: Short <0.12
- P Wave: Normal unless A-fib
- QRS: >0.10 with delta wave