Dysrhythmia with Measurement (ADVANCED)

Exam Objective: To measure the overall level of clinical knowledge in the area of Advanced Interpretation and Measurements.

Knowledge Domains - Dysrhythmia with Measurements (ADVANCED)

- Heart Rate Interpretation: 22%
- PR Interval Measurement: 8%
- QRS Complex Measurement: 8%
- Atrial: 5%
- Heart Blocks: 10%
- Junctional: 17%
- Paced: 17%
- Sinus: 3%
- Ventricular: 10%

All Strips on the assessment are 6 seconds in length

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I. HR Interpretation
   A. Knowledge of normal and abnormal components and measurements of the ECG waveform:
      1. QRS duration
      2. QRS complex
   B. Knowledge of normal and abnormal heart rates.
   C. Knowledge of time intervals on normal ECG paper grid.
   D. Knowledge of acceptable methods to ensure correct measurements of ECG waveforms such as calipers.

II. PR Interval Interpretation
   A. Knowledge of normal and abnormal components and measurements of the ECG waveform:
      1. P Wave
      2. PR Interval
   B. Knowledge of normal and abnormal heart rates.
   C. Knowledge of time intervals on normal ECG paper grid.
   D. Knowledge of acceptable methods to ensure correct measurements of ECG waveforms such as calipers.

II. QRS Interpretation
   A. Knowledge of normal and abnormal components and measurements of the ECG waveform:
      1. QRS duration
      2. QRS complex T wave
   B. Knowledge of normal and abnormal heart rates.
   C. Knowledge of time intervals on normal ECG paper grid.
   D. Knowledge of acceptable methods to ensure correct measurements of ECG waveforms such as calipers.
III. Rhythm Interpretation – Sinus
   A. Normal Sinus Rhythm
   B. Bradycardia
   C. Tachycardia

IV. Rhythm Interpretation – Atrial
   A. Atrial Fibrillation
   B. Atrial Flutter
   C. PAC (Premature Atrial Contraction)

II. Rhythm Interpretation – AV (Atrioventricular) Heart Blocks
   A. 1st degree AV Block
   B. 2nd degree AV Block – Mobitz I
   C. 2nd degree AV Block – Mobitz II
   D. 3rd degree AV Block

III. Rhythm Interpretation – Junctional
   A. Accelerated Junctional
   B. Junctional Tachycardia
   C. Supraventricular Tachycardia (SVT)

IV. Rhythm Interpretation – Paced

V. Rhythm Interpretation – Ventricular
   A. Accelerated Idioventricular
   B. Idioventricular
   C. PVC’s (Premature Ventricular Contraction)
   D. PVC’s – Trigeminy
   E. Asystole
   F. Ventricular Fibrillation (VFib)
   G. Ventricular Tachycardia (VTach)
   H. Sinus Bradycardia with Couplet

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**Basic Steps to Rhythm Interpretation**

1. Is the rhythm regular or irregular?
2. What is the rate?
3. Is the rate too slow or too fast?
4. Is there a P wave for every QRS?
5. Is there a QRS complex for every P wave?
6. What is the P-R interval? Is it constant?
7. Is the R-R interval regular?
8. What is the QRS duration?
9. Is the QRS wide or narrow?
10. Are the QRS complexes grouped or not grouped?

**Helpful Resources for Dysrhythmia Review & Remediation:**

http://highered.mcgraw-hill.com/sites/0073520713/student_view0/ecg_exercises.html#AVHB

http://www.skillstat.com/tools/ecg-simulator

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