

1. Dysrhythmia Tests

- a. <u>Review BOTH the Basic and Advanced Refreshers provided by your recruiter</u> (even if you are taking the Basic Dysrhythmia exam). These are absolutely wonderful EKG refreshers for the Relias Dysrhythmia exams
- b. PRACTICE! PRACTICE! PRACTICE!
 - i. Here are some links to use:
 - https://ekg.academy/
 - 2. https://www.skillstat.com/tools/ecg-simulator/
 - 3. https://www.teachingmedicine.com/Case.aspx?mode=demo
 - ii. Use any other resources you can find to practice reading different strips of the different rhythms, especially for the rhythms you have the most difficulty with
- c. Know how to measure!
 - i. Hover the cursor over the strip and that part of the strip will magnify to make it easier to count the number of "little" boxes
 - ii. Check the Basic Refresher document provided your recruiter to review how to measure PR, QRS & QT intervals
- d. Know different ways to determine rates
 - i. 6- second method (good for irregular rhythms)
 - ii. Count number of R's then multiply by 10
 - iii. Use the rate chart after counting the number of little boxes between R's (see Basic Refresher document for rate chart have this handy when you take the exam)
- e. NEVER just "look" at a rhythm or think "it looks like" a particular rhythm to determine the rhythm unless it is clear and unmistakable like asystole (example: SR may actually be SR with first degree AV block but you wouldn't know that if you didn't measure the PR interval)
 - i. IMPORTANT it is always best to use a routine process for reviewing each strip the answers to each step will help rule out certain rhythms and will help steer you to the correct rhythm:
 - 1. What is the RATE?
 - 2. Is the rate REGULAR or IRREGULAR?
 - 3. Is there a P WAVE?
 - 4. What is the PR INTERVAL?
 - 5. What does the QRS look like?
- f. Know what the hallmarks are for certain rhythms to help reduce confusion when trying to determine the correct rhythm
 - i. <u>Blocks</u>
 - 1. First Degree PR is prolonged >.20, NO dropped QRS
 - 2. Second Degree Type I PR gets progressively longer then a QRS is dropped
 - 3. Second Degree Type II PR interval is constant with randomly dropped QRS (PR interval may be < .20)
 - 4. Third Degree no correlation between P's and QRS's, P waves usually march out consistently, even if buried in another wave
 - ii. Junctional rhythms



- 1. P wave is absent or inverted
- 2. If P wave is present, the PR interval will be short (< 0.12)
- 3. Know rates to determine the correct Junctional rhythm
 - a. Junctional rhythm rate is 40-60 bpm
 - b. Accelerated Junctional rate is 61 100 bpm
 - c. Junctional Tachycardia rate is > 101 bpm

iii. Idioventricular rhythms

- 1. NO P waves AND widening of QRS
- 2. Know the rates to determine the correct Idioventricular rhythm
 - a. Idioventricular rhythm rate is < 40 bpm
 - b. Accelerated Idioventricular rate is 40 100 bpm
 - c. VTach rate is >100 bpm

iv. Don't confuse:

1. Afib and aflutter

- a. AFib
 - i. Rate is <u>always</u> irregular (irregularly irregular)
 - ii. No distinguishable P waves
 - iii. Atrial activity won't always be the same before each QRS
- b. Aflutter
 - i. Sawtooth "like" pattern –may be more rounded than pointed

2. PACs and PVCs

- a. PACs
 - i. A normal beat but it occurs early
 - 1. Will have P wave with normal looking QRS
 - ii. Irregular rhythm is result of the PAC, would be regular otherwise
- b. PVCs
 - i. QRS is always wide and bizarre compared to a "normal" beat
 - ii. P wave will be absent before the PVC

3. ST with SVT

- a. ST rate is 101-160 bpm
- b. SVT rate is 150 250 BPM, P waves and PR intervals not usually discernable
- g. Know ventricular bigeminy, trigeminy, couplets & triplets
 - i. Bigeminy every other beat is a PVC
 - ii. Trigeminy every 3rd beat is a PVC
 - iii. Couplets 2 PVCs in a row
 - iv. Triplets 3 PVCs in a row

h. Pacer spikes

- i. Every pacer spike (if capturing) should have either a P wave or a QRS complex following it depending on if the pacer is atrial, ventricular or both
- ii. Look at wave following the spike to determine what type of pacer it is