Name: Logan Clark

Unit II: Dysrhythmia Case Study

F.B is a 70 y.o. retired gentleman who was admitted with worsening heart failure with decompensation. He experienced a cardiac arrest on the floor (pulseless V-Tach) and was defibrillated with one shock. He is a patient in the ICU, and is under your care today. He is on an amiodarone gtt and is scheduled for evaluation in the cath lab today.

PMH: CAD, HTN, hyperlipidemia, previous MI

Subjective Data: Reports dyspnea with activity, and residual chest discomfort from the defibrillation

Objective Data: Appears pale, weak, anxious

Temp 100.4 Oral, HR 70, RR 26, BP 104/56

Lungs: Bibasilar rales, shallow inspiratory effort

Heart: Audible S3

Diagnostics: 2D echo: EF 25%

K+ = 2.9

EKG:

Directions:

1) Interpret the rhythm above: Normal Sinus Rhythm with 2 unifocal PVCs

2) Why do you think there is ectopy?

- PVCs come from the lower chambers of the heart in the ventricles due to 3 clinical associations including cardiac: MI, mitral valve prolapse, HF, CAD, non-cardiac: electrolyte imbalances, hypoxia, fever, and lastly pharmacologic: caffeine, nicotine, alcohol, aminophylline, and epinephrine.

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3) Is F.B. at risk for sudden cardiac death? Why or why not?
   - Yes, FB is at risk for sudden cardiac death because of history of his current heart conditions especially a previous MI. He also was defibrillated due to his pulseless vtach.

4) Why is F.B. on an amiodarone gtt?
   - Amio is an antiarrhythmic that is used to treat certain types of abnormal heartbeats such as vfib or vtach. It is used to restore normal heart rhythm and maintain a regular, steady heartbeat.

5) Is F.B. a candidate for cardiac resynchronization therapy and an ICD? Why or why not?
   - Yes FB is a candidate for CRT and ICD. Both of these are developed to help heart failure and arrhythmias which FB has both. CRT places a small pacemaker to help correct any abnormal heart rhythms aby synchronizing the heart. A ICD (Implantable cardioverter-defibrillator) is used to detect any irregular or deadly arrhythmias in the heart. When anything abnormal is picked up by this defibrillator, it delivers shocks to restore normal rhythm. Very fast heart rates qualify for an ICD