

**BASIC ECG INTERPRETATION – RST  
WORKSHEET #5**

**Instructions:**

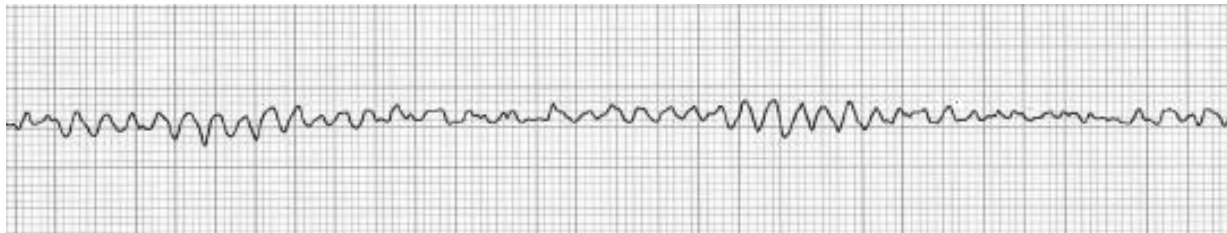
Calculate the Atrial Rate\*, Ventricular Rate\*, PR interval, QRS width, and Interpretation for each strip.  
\*Calculate the Atrial and Ventricular Rate using either the 1500 method, countdown method or 6 second method

1.



Rhythm: Atrial: Regular      Ventricular: Regular  
Rate:    Atrial      40      Ventricular    80  
Is there a P wave for every QRS complex? No  
Is there a QRS complex for every P wave? Yes  
What is the PR Interval? 0.20  
    Is it shortened, normal or prolonged? Normal      Is it constant? Yes  
What is the QRS width? < 0.12 on sinus, >0.12 on ectopic  
    Is it normal or widened? Normal on sinus, Wide on ectopic      Is it constant? No  
Interpretation: Sinus Rhythm with Bigeminal Uniform PVC's

2.



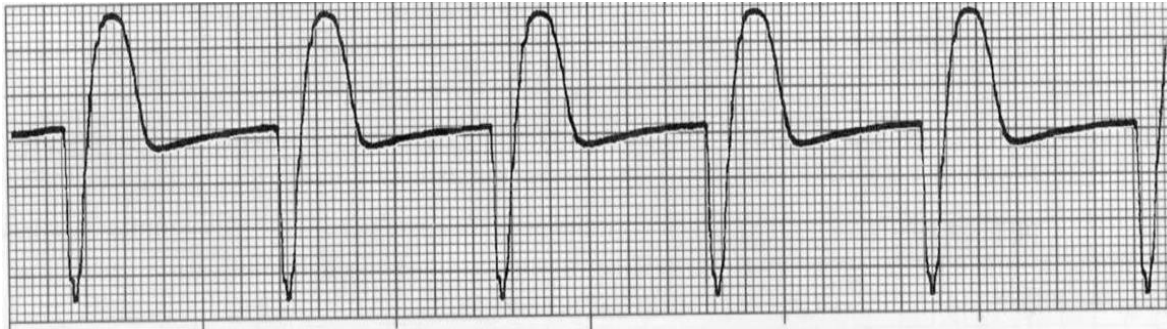
Rhythm: Atrial      UTA      Ventricular      UTA  
Rate:    Atrial      UTA      Ventricular      UTA  
Is there a P wave for every QRS complex? UTA  
Is there a QRS complex for every P wave? UTA  
What is the PR Interval? UTA  
    Is it shortened, normal or prolonged? UTA      Is it constant? UTA  
What is the QRS width? UTA  
    Is it normal or widened? UTA      Is it constant? UTA  
Interpretation: Ventricular Fibrillation - **Lethal**

3.



Rhythm: Atrial: N/A                      Ventricular: Regular  
 Rate:    Atrial            UTA    Ventricular    80  
 Is there a P wave for every QRS complex? No  
 Is there a QRS complex for every P wave? N/A  
 What is the PR Interval? N/A  
           Is it shortened, normal or prolonged? N/A                      Is it constant?  
 What is the QRS width? 0.08  
           Is it normal or widened? Normal                                      Is it constant? Yes  
 Interpretation: Accelerated Junctional Rhythm

4.



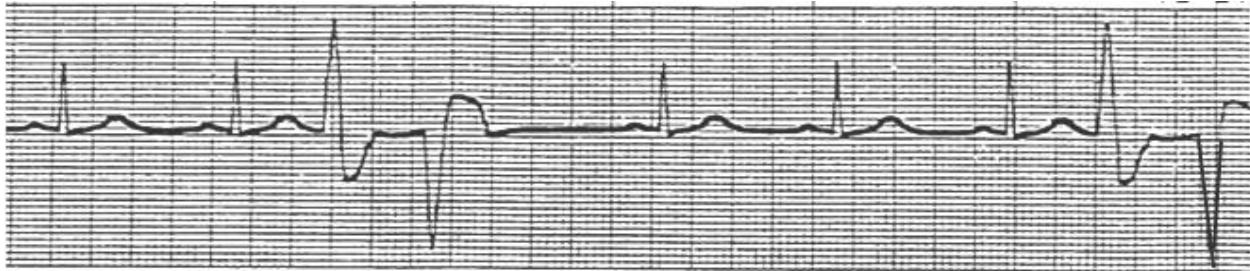
Rhythm: Atrial            UTA            Ventricular            Regular  
 Rate:    Atrial            UTA            Ventricular            56  
 Is there a P wave for every QRS complex? No  
 Is there a QRS complex for every P wave? N/A  
 What is the PR Interval? UTA  
           Is it shortened, normal or prolonged? N/A                      Is it constant?  
 What is the QRS width? 0.14  
           Is it normal or widened? Widened                                      Is it constant? Yes  
 Interpretation: Accelerated Idioventricular

5.



Rhythm: Atrial      Regular      Ventricular      Regular  
 Rate:    Atrial      60                  Ventricular      60  
 Is there a P wave for every QRS complex?    Yes  
 Is there a QRS complex for every P wave?    Yes  
 What is the PR Interval?    0.32  
           Is it shortened, normal or prolonged?    Prolonged      Is it constant?    Yes  
 What is the QRS width?    0.10  
           Is it normal or widened?    Normal                                  Is it constant?    Yes  
 Interpretation: Sinus Rhythm with First Degree AV Block

6.



Rhythm: Atrial      Irregular (regular w/o PVCs)      Ventricular      Irregular  
 Rate:    Atrial      68                  Ventricular      90  
 Is there a P wave for every QRS complex?    No  
 Is there a QRS complex for every P wave?    Yes  
 What is the PR Interval?    0.16  
           Is it shortened, normal or prolonged?    Normal                                  Is it constant?    Yes  
 What is the QRS width? < 0.12 on sinus beats, >0.12 on ectopic  
           Is it normal or widened?    Normal on sinus, Wide on ectopic                                  Is it constant?    No  
 Interpretation: Sinus Rhythm with multiform couplet PVC's

7.



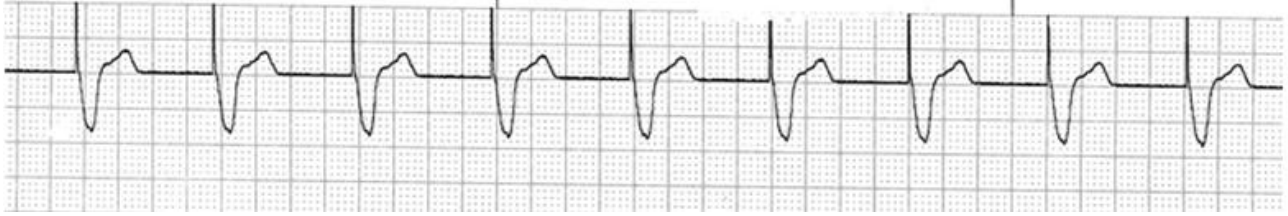
Rhythm: Atrial Irregular Ventricular Irregular  
 Rate: Atrial UTA Ventricular 90  
 Is there a P wave for every QRS complex? No  
 Is there a QRS complex for every P wave? N/A  
 What is the PR Interval? N/A  
     Is it shortened, normal or prolonged? N/A      Is it constant?  
 What is the QRS width? 0.08  
     Is it normal or widened? Normal      Is it constant? Yes  
 Interpretation: Atrial Fibrillation with controlled ventricular response

8.



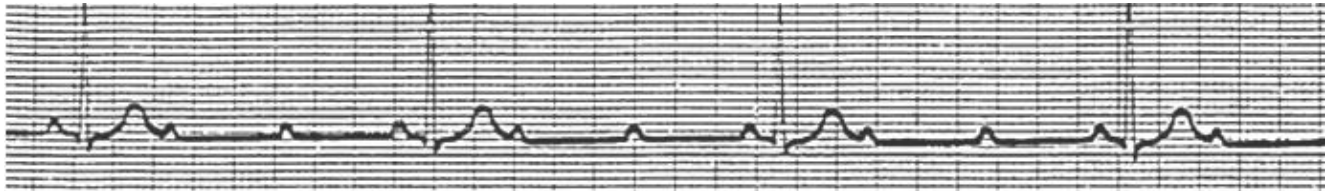
Rhythm: Atrial Regular, except for ectopic beats Ventricular Regular, except for ectopic beats  
 Rate: Atrial 80 Ventricular 80  
 Is there a P wave for every QRS complex? Yes  
 Is there a QRS complex for every P wave? Yes  
 What is the PR Interval? 0.16  
     Is it shortened, normal or prolonged? Normal      Is it constant? Yes  
 What is the QRS width? 0.10  
     Is it normal or widened? Normal      Is it constant? Yes  
 Interpretation: Sinus Rhythm with 1 PAC

9.



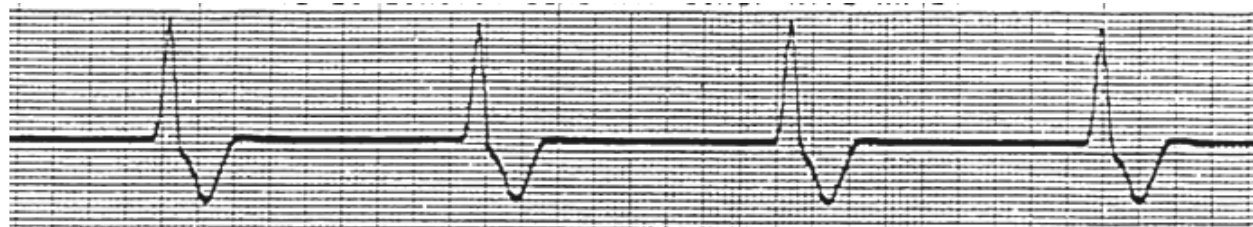
Rhythm: Atrial UTA Ventricular Regular  
 Rate: Atrial UTA Ventricular 75  
 Is there a P wave for every QRS complex? No Is there a QRS complex for every P wave? UTA  
 What is the PR Interval? UTA  
     Is it shortened, normal or prolonged? UTA Is it constant? UTA  
 What is the QRS width? 0.16  
     Is it normal or widened? Widened Is it constant? Yes  
 Interpretation: Ventricular Pacing with 1:1 capture

10.



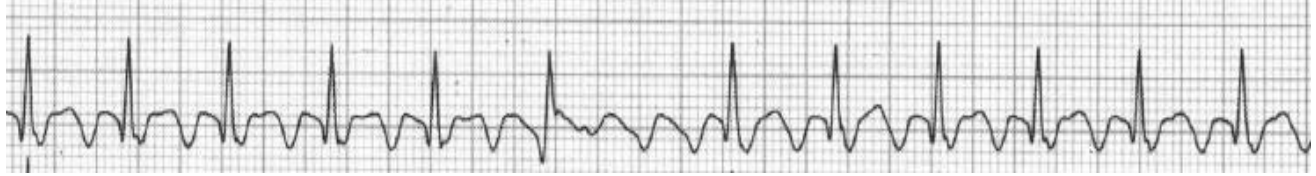
Rhythm: Atrial Regular Ventricular Regular  
 Rate: Atrial 110 Ventricular 40  
 Is there a P wave for every QRS complex? Yes Is there a QRS complex for every P wave? No  
 What is the PR Interval? 0.16  
     Is it shortened, normal or prolonged? Normal Is it constant? Yes  
 What is the QRS width? 0.08  
     Is it normal or widened? Normal Is it constant? Yes  
 Interpretation: Second Degree AV Block Type II

11.



Rhythm: Atrial UTA Ventricular Regular  
 Rate: Atrial UTA Ventricular 35  
 Is there a P wave for every QRS complex? No Is there a QRS complex for every P wave? UTA  
 What is the PR Interval? UTA  
     Is it shortened, normal or prolonged? UTA Is it constant? UTA  
 What is the QRS width? 0.16  
     Is it normal or widened? Widened Is it constant? Yes  
 Interpretation: Idioventricular Rhythm

12.



Rhythm: Atrial Irregular Ventricular Irregular  
 Rate: Atrial 250 Ventricular 120  
 Is there a P wave for every QRS complex? No, F waves  
 Is there a QRS complex for every P wave? NA  
 What is the PR Interval? NA  
     Is it shortened, normal or prolonged? NA      Is it constant? NA  
 What is the QRS width? 0.10  
     Is it normal or widened? Normal      Is it constant? Yes  
 Interpretation: Atrial Flutter with variable conduction

13.



Rhythm: Atrial Regular Ventricular Regular  
 Rate: Atrial 75 Ventricular 75  
 Is there a P wave for every QRS complex? Yes      Is there a QRS complex for every P wave? Yes  
 What is the PR Interval? 0.18  
     Is it shortened, normal or prolonged? Normal      Is it constant? Yes  
 What is the QRS width? 0.16  
     Is it normal or widened? Widened      Is it constant? Yes  
 Interpretation: AV Pacing with 1:1 capture

14.



Rhythm: Atrial UTA Ventricular Regular  
 Rate: Atrial UTA Ventricular 180  
 Is there a P wave for every QRS complex? No      Is there a QRS complex for every P wave? No  
 What is the PR Interval? UTA  
     Is it shortened, normal or prolonged? UTA      Is it constant? UTA  
 What is the QRS width? 0.20  
     Is it normal or widened? Widened      Is it constant? Yes  
 Interpretation: Monomorphic Ventricular Tachycardia – **Lethal**



15.



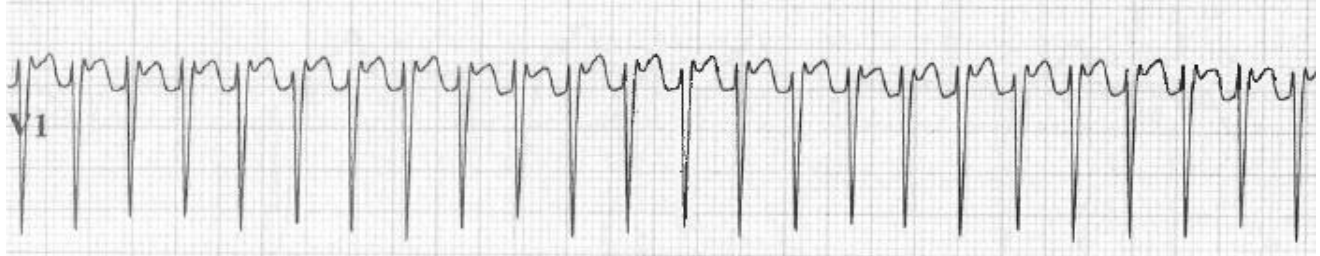
Rhythm: Atrial      UTA      Ventricular      UTA  
 Rate:    Atrial      UTA      Ventricular      UTA  
 Is there a P wave for every QRS complex? UTA  
 Is there a QRS complex for every P wave? UTA  
 What is the PR Interval? UTA  
           Is it shortened, normal or prolonged? UTA      Is it constant? UTA  
 What is the QRS width? UTA  
           Is it normal or widened? UTA                      Is it constant? UTA  
 Interpretation: Asystole - **Lethal**

16.



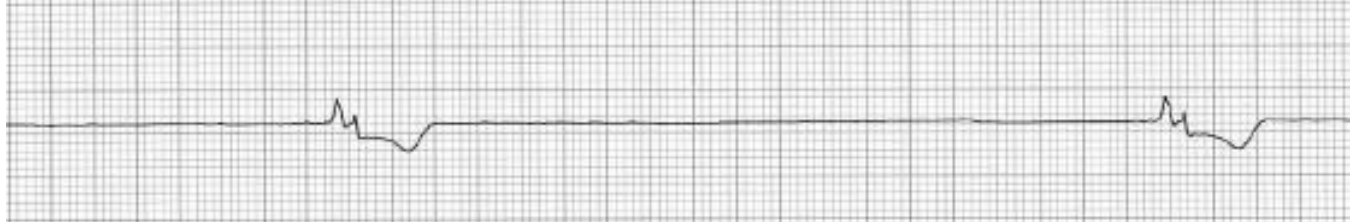
Rhythm: Atrial      Regular      Ventricular      Regular  
 Rate:    Atrial      75              Ventricular      75-168  
 Is there a P wave for every QRS complex? No  
 Is there a QRS complex for every P wave? Yes, when visible  
 What is the PR Interval? 0.32  
           Is it shortened, normal or prolonged? Prolonged      Is it constant? Yes  
 What is the QRS width? 0.10-0.24  
           Is it normal or widened? Normal then Widened      Is it constant? Yes  
 Interpretation: Sinus Rhythm with First Degree AV Block into Monomorphic Ventricular Tachycardia –  
**Lethal**

17.



Rhythm: Atrial      Regular      Ventricular      Regular  
 Rate:    Atrial      UTA            Ventricular      240  
 Is there a P wave for every QRS complex? No  
 Is there a QRS complex for every P wave? NA  
 What is the PR Interval? UTA  
           Is it shortened, normal or prolonged? UTA            Is it constant? UTA  
 What is the QRS width? 0.08  
           Is it normal or widened? Normal                      Is it constant? Yes  
 Interpretation: Supraventricular Tachycardia

18.



Rhythm: Atrial      UTA      Ventricular      Regular  
 Rate:    Atrial      UTA      Ventricular      15  
 Is there a P wave for every QRS complex? No  
 Is there a QRS complex for every P wave? No  
 What is the PR Interval? UTA  
           Is it shortened, normal or prolonged? UTA            Is it constant? UTA  
 What is the QRS width? 0.16  
           Is it normal or widened? Widened                      Is it constant? Yes  
 Interpretation: Agonal Rhythm – **Lethal**



19.



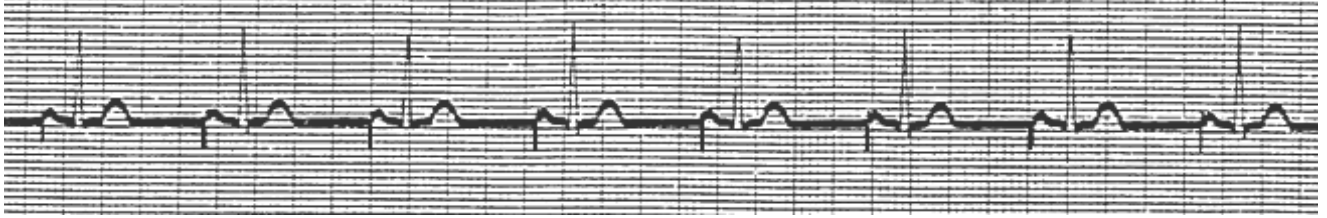
Rhythm: Atrial Regular, with ectopic beats Ventricular Regular, with ectopic beats  
 Rate: Atrial 65 Ventricular 70  
 Is there a P wave for every QRS complex? No  
 Is there a QRS complex for every P wave? Yes  
 What is the PR Interval? 0.16  
     Is it shortened, normal or prolonged? Normal Is it constant? Yes  
 What is the QRS width? < 0.12 on sinus beats, >0.12 on ectopic  
     Is it normal or widened? Normal on sinus, Wide on ectopic Is it constant? No  
 Interpretation: Sinus Rhythm with one uniform couplet PVCs

20.



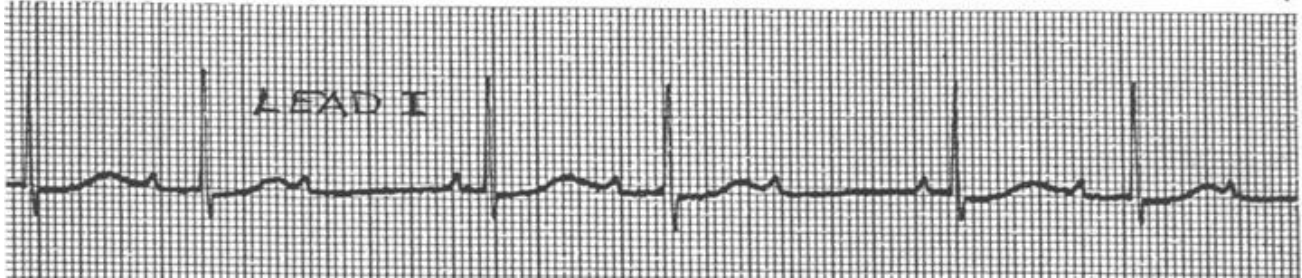
Rhythm: Atrial NA Ventricular NA  
 Rate: Atrial NA Ventricular NA  
 Is there a P wave for every QRS complex? NA  
 Is there a QRS complex for every P wave? NA  
 What is the PR Interval? NA  
     Is it shortened, normal or prolonged? NA Is it constant? NA  
 What is the QRS width? 0.20  
     Is it normal or widened? Widened Is it constant? Yes  
 Interpretation: Polymorphic Ventricular Tachycardia - **Lethal**

21.



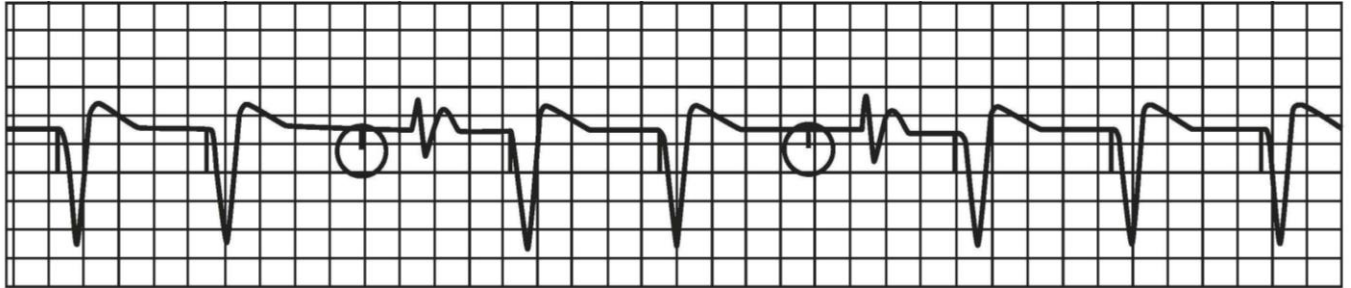
Rhythm: Atrial      Regular      Ventricular      Regular  
 Rate:    Atrial      72              Ventricular      72  
 Is there a P wave for every QRS complex? Yes  
 Is there a QRS complex for every P wave? Yes  
 What is the PR Interval? 0.18  
     Is it shortened, normal or prolonged? Normal      Is it constant? Yes  
 What is the QRS width? 0.06  
     Is it normal or widened? Normal                      Is it constant? Yes  
 Interpretation: Atrial Pacing with 1:1 capture

22.



Rhythm: Atrial      Regular      Ventricular      Irregular  
 Rate:    Atrial      80              Ventricular      50  
 Is there a P wave for every QRS complex? Yes  
 Is there a QRS complex for every P wave? No  
 What is the PR Interval? Variable  
     Is it shortened, normal or prolonged? NA              Is it constant? No  
 What is the QRS width? 0.08  
     Is it normal or widened? Normal                      Is it constant? Yes  
 Interpretation: Second Degree AV Block Type I (Wenckebach)

23.



Rhythm: Atrial      UTA      Ventricular      Irregular  
 Rate:    Atrial      UTA      Ventricular      70  
 Is there a P wave for every QRS complex? No  
 Is there a QRS complex for every P wave? UTA  
 What is the PR Interval? UTA  
     Is it shortened, normal or prolonged? UTA      Is it constant? UTA  
 What is the QRS width? 0.16-0.18  
     Is it normal or widened? Widened      Is it constant? Overall no, but the paced beats are  
 Interpretation: V Paced with 2 beats failure to capture

24.



Rhythm: Atrial      Irregular      Ventricular      Irregular  
 Rate:    Atrial      80      Ventricular      80  
 Is there a P wave for every QRS complex? Yes  
 Is there a QRS complex for every P wave? Yes  
 What is the PR Interval? 0.12  
     Is it shortened, normal or prolonged? Normal      Is it constant? Yes  
 What is the QRS width? 0.10  
     Is it normal or widened? Normal      Is it constant? Yes  
 Interpretation: Sinus Dysrhythmia

25.



Rhythm: Atrial      Regular      Ventricular      Regular  
 Rate:    Atrial      79              Ventricular      30  
 Is there a P wave for every QRS complex? More Ps than QRS  
 Is there a QRS complex for every P wave? No  
 What is the PR Interval? Variable  
           Is it shortened, normal or prolonged? UTA              Is it constant? No  
 What is the QRS width? 0.16  
           Is it normal or widened? Widened                      Is it constant? Yes  
 Interpretation: Third Degree AV Block

26.



Rhythm: Atrial      Regular      Ventricular      Irregular  
 Rate:    Atrial      100              Ventricular      NA  
 Is there a P wave for every QRS complex? Yes  
 Is there a QRS complex for every P wave? No  
 What is the PR Interval? 0.22 on the first beat  
           Is it shortened, normal or prolonged? Prolonged      Is it constant? Yes  
 What is the QRS width? 0.10 on the first beat  
           Is it normal or widened? Normal                      Is it constant? Yes  
 Interpretation: Ventricular Standstill - **Lethal**

27.



Rhythm: Atrial      Regular      Ventricular      Regular

Rate:    Atrial      120      Ventricular      120

Is there a P wave for every QRS complex?    Yes

Is there a QRS complex for every P wave?    Yes

What is the PR Interval?    NA – P wave is retrograde

    Is it shortened, normal or prolonged?    Retrograd      Is it constant?    Yes

What is the QRS width?    0.08

    Is it normal or widened?    Normal      Is it constant?    Yes

Interpretation: Junctional Tachycardia