

EXERCISE 31 -- CONDUCTION SYSTEM OF THE HEART & THE ECG

OBJECTIVES

1. To identify the components of the cardiac conduction system.
2. To identify depolarization and repolarization of atria and ventricles in the electrocardiogram, noting lead II, limb lead I, and T waves on the recording.
3. To calculate heart rate and the length of T waves, using an ECG performed on lab.
4. To understand the basic relationships of an ECG.
5. To recognize normal and abnormal ECGs.

ACTIVITY 1 -- THE ECG

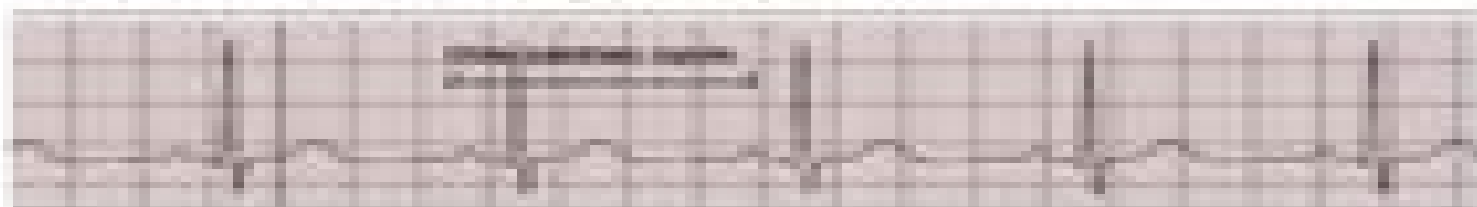
Describe how does the machine make the heart beat?

Describe how the ECG represents what's going on in the heart, in electrical language?

Can you identify the ECG waves of the cardiac cycle on the ECG? What do they represent?

Using a patient or ECG from lab, determine the number of cardiac cycles per minute you will need to keep the time measurement on (for 1 sec on the ECG) and the time of T waves cycle.

What speed of the ECG according to different per second?



Each of the six physical ECGs are used to identify problems.

QUESTIONS TO DISCUSS

QUESTION

Describe the function of the ECG in the heart and how it is used to identify problems.

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G Orfield



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