

## 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 rate of QRS and T waves on the recording.
3. To calculate heart rate and the length of T wave(s) using paper ECG performed in lab.
4. To understand the basic relationships of an ECG.
5. To recognize normal and abnormal ECGs.

### ACTIVITY 1 -- THE ECG

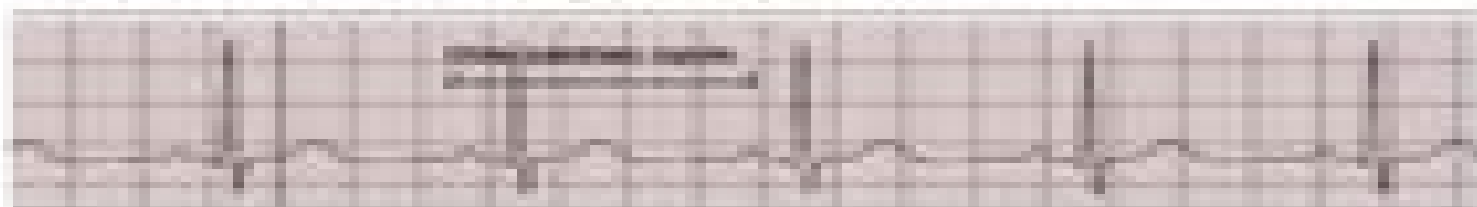
Describe how does the machine receive the heart's activity?

Describe how the ECG represents what's going on in the heart (depolarization and repolarization)?

Can you identify the ECG's parts of the cardiac cycle on the ECG? What do they represent?

Using a patient's ECG from lab, determine the number of cardiac cycles per minute (you will need to know the time measurement on the ECG) and the time of T wave(s) cycle.

What speed is the ECG recording in (mm per second)?



Each of the six standard ECGs are used today to identify problems.

### QUESTIONS TO DISCUSS

#### QUESTIONS

Describe the function of the ECG in terms of the heart's electrical activity.

Describe the function of the ECG in terms of the heart's mechanical activity.

Describe the function of the ECG in terms of the heart's chemical activity.

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Describe the function of the ECG in terms of the heart's chemical activity.

# Marieb Lab Manual Exercise 31

**Xiang Xie**



## **Marieb Lab Manual Exercise 31:**

## Whispering the Techniques of Language: An Psychological Journey through **Marieb Lab Manual Exercise 31**

In a digitally-driven world wherever monitors reign supreme and quick transmission drowns out the subtleties of language, the profound secrets and emotional subtleties hidden within words frequently go unheard. However, situated within the pages of **Marieb Lab Manual Exercise 31** a interesting fictional prize blinking with raw thoughts, lies an extraordinary quest waiting to be undertaken. Composed by an experienced wordsmith, this marvelous opus invites viewers on an introspective journey, gently unraveling the veiled truths and profound influence resonating within ab muscles material of each word. Within the mental depths with this poignant review, we shall embark upon a sincere exploration of the book is core themes, dissect their fascinating publishing fashion, and succumb to the strong resonance it evokes heavy within the recesses of readers hearts.

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