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Electrocardiogram

recording, analysis and interpretation

Practical and seminar from medical physiology

Home peparation, study materials and education goals

Study materials

- Physiology lecture ECG and electrical activity of the heart
- Textbook Costanzo
 - (pp. 134-146)
- Youtube Dr. Najeeb ECG interpretation

Home preparation and key terms

- ECG curve what do we see on it and why?
- Pulse wave and heart rate
- Bipolar and augmented electrodes
- Leads used for ECG recording
- Electrical axis of the heart
- Action potential of pacemaker cells and cardiomyocytes
- Spreading of excitation through the heart

Education goals – what will I learn?

- Record ECG and identify its main components
- Explain the time relationship between the CG curve and pulse wave
- Interpret individual heart cycle phases in relation to the ECG curve and the pulse wave
- Describe how the individual leads of the 12-lead ECG view the heart and its electrical activity
- Determine the electrical heart axis based on an ECG recording
- Analyze 12-lead ECG recording (heart rate, electrical axis)

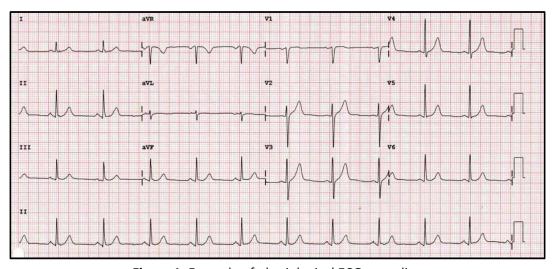


Figure 1. Example of physiological ECG recording