



Jornadas de
Actualização
Cardiovascular

Medicina Geral e Familiar

#JAC eLEARNING

PRACTICAL COURSE ON ELECTROCARDIOGRAPHY

Course coordinator:
Rui Lima, MD

jac-ensino.pt

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Introduction.

Electrocardiography remains one of the more commonly requested exams in clinical practice being an essential tool for investigating several cardiac disorders such as arrhythmias or myocardial ischaemia. Hence, familiarity with ECG interpretation is a mandatory skill for a wide variety of health professionals.

The course intends to provide Family Physicians with a tool for interpreting ECGs in different clinical settings and for applying theoretical concepts into a practical approach.

The program consists of four e-learning modules and a final knowledge assessment module.

Faculty.

Rui Lima, MD
Sílvia Ribeiro, MD

Learning objectives.

By the end of the course, attendees should be able to:

- Understand the general principles of electrocardiography;
- Perform a step-by step systematic interpretation of an ECG;
- Recognize normal and abnormal ECG patterns;
- Know basic measures to undertake before ECG findings in an urgent setting;
- Identify patients or situations that should lead to referral for hospital care.

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Basic Principles of Electrocardiography

Rui Lima

Anatomy and physiology

- Cardiac anatomy
- Cardiac conduction system
- Cardiac cycle

PQRST: what does this mean?

- What does the ECG actually represent ?
- What originates waves and segments?

How to perform an ECG

- Preparation, electrodes placement and calibration
- Einthoven's triangle and the 12 lead-ECG
- Artifacts

Take-home messages & Self-assessment test.

Step by step interpretation of the ECG.

Sílvia Ribeiro

- Heart rhythm and heart rate
- P wave: absent? Inverted? too tall? Too wide?
- PR interval: duration? Depressed or elevated?
- QRS complex: cardiac axis? Q waves? R or S waves too big? Wide?
- ST-segment: depressed? Elevated? J waves present?
- T and U waves: too tall ? Too small? Inverted?
- QT interval: long? Short?

Take-home messages & Self-assessment test.

Module

03

Practical approach to common ECG presentations in the ambulatory setting (based on case reports)

Rui Lima

- Supraventricular and ventricular dysrhythmias
- Conduction problems
- QRS axis deviation
- ST-T changes

Take-home messages & Self-assessment test.

Module

04

Practical approach to common ECG presentations in the emergency room (based on case reports)

Sílvia Ribeiro

- Supraventricular and ventricular dysrhythmias
- Acute coronary syndrome
- Pericarditis
- AV block

Take-home messages & Self-assessment test.

Module

05

Assessment Test (based on case reports)

Programme



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