# CODA-EU Project in Portugal

**António Teixeira**; Maria do Carmo Pinto; João Paz (UAb | LE@D, PT)

Amadeu Borges Ferro; Renato Abreu & **Sara Brandão** (ESTeSL - IPL | LE@D, PT)
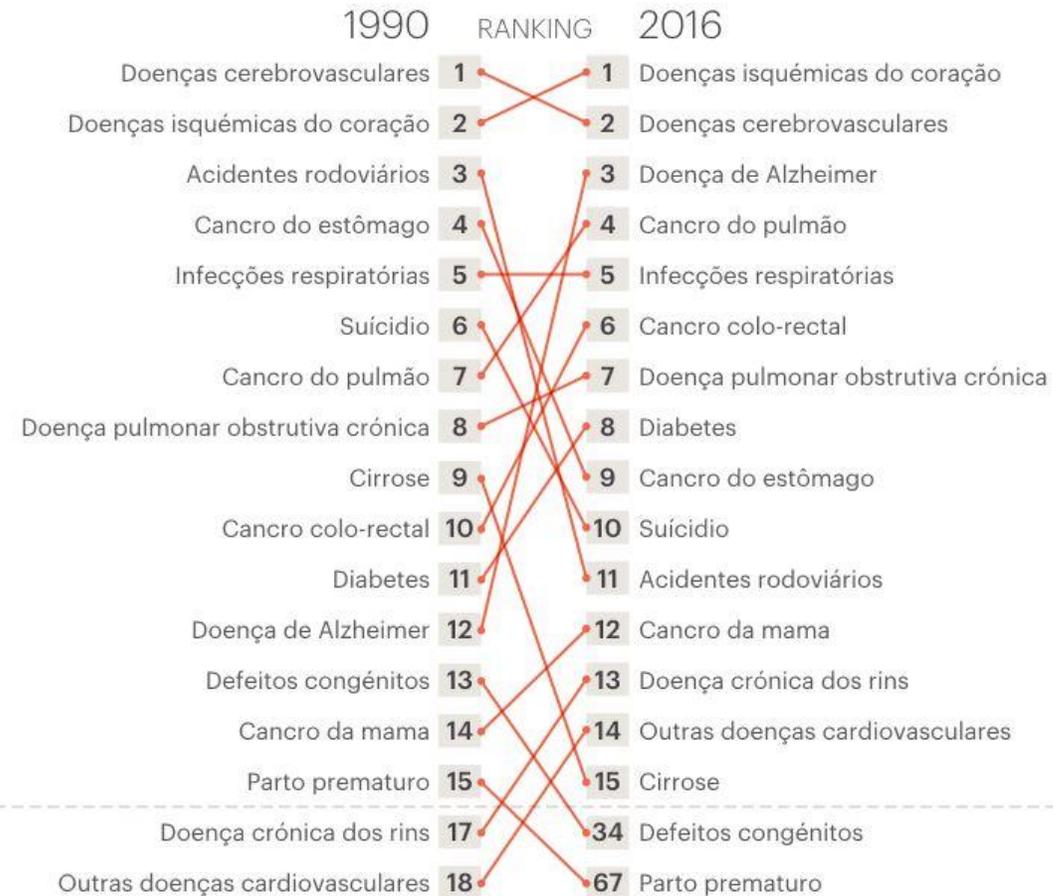
# CODA-EU Project in Portugal

## Aims of the project

- The European CODA-EU project, supported by the Erasmus+ program, aims to provide an innovative learning tool (CODA) to teachers who train medical students, allowing them to improve their knowledge of recommendations and rules set by WHO on certification of causes of death.

- **The second aim of this project is to set up a MOOC dedicated to university trainers and professors wishing to adapt the CODA tool to their educational objectives.**

# CODA-EU Project in Portugal



Principais causas de morte prematura em Portugal

Em 2016

| 1990 | RANKING | 2016 |
|---|---|---|
| Doenças cerebrovasculares 1 | | 1 Doenças isquémicas do coração |
| Doenças isquémicas do coração 2 | | 2 Doenças cerebrovasculares |
| Acidentes rodoviários 3 | | 3 Doença de Alzheimer |
| Cancro do estômago 4 | | 4 Cancro do pulmão |
| Infecções respiratórias 5 | | 5 Infecções respiratórias |
| Suícidio 6 | | 6 Cancro colo-rectal |
| Cancro do pulmão 7 | | 7 Doença pulmonar obstrutiva crónica |
| Doença pulmonar obstrutiva crónica 8 | | 8 Diabetes |
| Cirrose 9 | | 9 Cancro do estômago |
| Cancro colo-rectal 10 | | 10 Suícidio |
| Diabetes 11 | | 11 Acidentes rodoviários |
| Doença de Alzheimer 12 | | 12 Cancro da mama |
| Defeitos congénitos 13 | | 13 Doença crónica dos rins |
| Cancro da mama 14 | | 14 Outras doenças cardiovasculares |
| Parto prematuro 15 | | 15 Cirrose |
| Doença crónica dos rins 17 | | 34 Defeitos congénitos |
| Outras doenças cardiovasculares 18 | | 67 Parto prematuro |

Fonte: Direcção-Geral da Saúde

PÚBLICO

# CODA-EU Project in Portugal

## Certification of Causes of Death MOOC

- The MOOC is a free online course designed for a large numbers of participants. It can be accessed by anyone anywhere with an internet connection and doesn't require entry qualifications.

- There are different versions of the MOOC provided in Polish, French, Greek and Portuguese.

- The training materials were jointly prepared by experts from research and academic institutions from Poland, France, Greece and Portugal.

- The MOOC is addressed to medical doctors, medical students and other health professionals for whom the competencies in cause-of-death certification are important.

- The CODA-EU course takes approximately 3 hours to complete (including the final test).

- A certificate is provided for those who complete successfully the final assessment.

# CODA-EU Project in Portugal

**Certification of Causes of Death MOOC - Portuguese version**

**Role of the Portuguese team**

- Support to the MOOC learning design process
- Course materials translation and revision (text, PowerPoint, images, graphs).
- Review of the Portuguese system regulation concerning death certificates (summarizing the system architecture and functioning, preparing guidelines on how to fill in the Portuguese death certificate forms).
- Collecting and listing relevant Portuguese official websites, manuals and legislation to be provided as complementary resources for students.
- MOOC Dissemination (establishing a communication strategy, selecting appropriate channels and designing materials).

# CODA-EU Project in Portugal

**Certification of Causes of Death MOOC - Portuguese version**

**Course structure**

- Initial test
- Introduction
- Certification of causes of death ICD-10
- Case studies (scenarios)
- Final test
- Resources

## Índice

1. Questionário inicial
2. Introdução
3. Certificação das causas da morte
4. Cenários
5. Teste final
6. Recursos

# CODA-EU Project in Portugal

## Questionário inicial | 3. Indique a causa de morte subjacente

### Descrição do cenário

Um homem de 70 anos caiu das escadas em casa, fraturou a tíbia e sofreu uma lesão intracraniana. O paciente morreu a caminho do hospital. A autópsia revelou hemorragia intracraniana no tronco cerebral. Tinha como antecedentes um enfarte cerebral há 10 anos.

- hemorragia intracraniana no tronco cerebral
- lesão intracraniana
- queda das escadas em casa

Reposta correta:
queda das escadas em casa

**Prior knowledge survey**

**Presentation of the course and its aims**

**The importance of data accuracy on causes of death for informing good health policy.**

## Objetivos
### Durante a formação:

- Conheça a importância das informações fiáveis sobre as causas da morte;
- Investigue como funciona o sistema de certificação da causa da morte no seu país;
- Adquira competências sobre a 10ª revisão da Classificação Estatística Internacional de Doenças e Problemas Relacionados com a Saúde;
- Ganhe competências para distinguir entre a causa subjacente e direta da morte;

# CODA-EU Project in Portugal

**Specific learning objectives**

At the end of each module, the learner should be able to:

## Module 1. Legal and organisation aspects of death registration in Portugal

- *Understand the national regulations concerning stating the death and issuing the death certificate*
- *Know what to do in case of suspicious circumstances of death*

## Module 2. International Statistical Classification of Diseases and Related Health Problems

- *Understand how the contents of the Classification are arranged*
- *Find out the specifics of four important chapters of the ICD*

## Module 3. The most common errors in the certification of causes of death

- *Learn about recommendations regarding the choice of death causes*
- *Find out the most common errors when filling in the death causes sections*

# CODA-EU Project in Portugal



## SICO – Sistema de Informação dos Certificados de Óbito

https://servicos.min-saude.pt/sico

SICO is the official Portuguese online platform for registering death certificates since 2014.

It allows for the dematerialization of death certificates, speeding up and improving the processing of statistical updates on death causes, as well as the update of the National Health System patient's data Online communication of death certificates to national civil registration services.

# CODA-EU Project in Portugal



## How does SICO works?

In order to conduct a speedy intervention, SICO cooperates with:

- Police authorities;

- National Medical Emergency Institute (INEM);

- Public Attorney General (MP);

- National Legal Medical and Forensic Sciences Institute, IP (INMCF, IP)

- National Statistics Institute (INE).

# CODA-EU Project in Portugal

**Case studies (adapted scenarios)**

- *Male, 55 years old, with a history of infection by the Hepatitis C Virus with 10 years of evolution. In the last 5 years, he developed chronic hepatitis, progressing to cirrhosis of the liver. He was admitted to the ER tachycardic (130 bpm) and hypotensive (BP 80/50 mmHg). During transport to the ER, he had several episodes of vomiting with blood. Analytically had a haemoglobinof 8.0 g/dL. He died a few hours after hospital admission. The autopsy concluded that the patient died following a hemorrhagic shock because of a rupture of oesophagalvarices.*

**Parte I** ⓘ

a) Causa directa: Indicar **qual** a doença, traumatismo ou complicação que levou directamente à morte *

I8501 Haemorrhagic shock

b) Devida ou consecutiva a:

I8511 Esophageal varices with bleeding

c) Devida ou consecutiva a:

K74 Fibrosis and cirrhosis of the liver

d) Devida ou consecutiva a:

B182 Chronic viral hepatitis C

# CODA-EU Project in Portugal

## Teste final | Informações introdutórias

**Informações introdutórias:**

| | |
|---|---|
| Número de perguntas: | 20 |
| Nota de aprovação: | 50% (10/20) |
| Número de tentativas: | 2 |
| Duração: | 60 minutos, uma hora |

Durante o teste final pode consultar a classificação CID. A ligação à classificação pode ser encontrada no separador **RECURSOS** no canto superior direito.

Se interromper o exame e o curso, tal será interpretado como uma das duas tentativas permitidas de fazer o exame.

## Final Exam

- **20 items**
- **50% (10/20)** right answers to obtain approval
- Max. **2 tries**
- **1 hour** (60 minutes) to complete

# CODA-EU Project in Portugal

**Certification of Causes of Death MOOC - Portuguese version**

**First iteration data**

- Course start on 17/04/23

- **369** registered participants

- Age range from **19** to **66** years old

- **95** participants completed successfully the final exam

- Only 3 participants failed the final exam

- **40** participants obtain a score of 80% or over (**9** reached a mark of 90% or over)

# Thank you Very Much!
## Dziękuję bardzo!

António.Teixeira@uab.pt

amadeu.ferro@estesl.ipl.pt

CENTRE OF
POSTGRADUATE
MEDICAL EDUCATION

CODA-EU

University of Ioannina

UNIVERSIDADE
AbERTA
www.uab.pt

ined
INSTITUT NATIONAL
D'ÉTUDES DÉMOGRAPHIQUES

Co-funded by the
Erasmus+ Programme
of the European Union