

# COOPERATION AGREEMENT

ORGANIZACIÓN MÉDICA COLEGIAL (OMC)

&

INTERNATIONAL ATOMIC ENERGY AGENCY (OIEA)

OMC



ORGANIZACIÓN  
MÉDICA COLEGIAL  
DE ESPAÑA

CONSEJO GENERAL  
DE COLEGIOS OFICIALES  
DE MÉDICOS



**IAEA**

International Atomic Energy Agency



## AIMS:

- To improve the knowledge of medical specialists in nuclear medicine and methodological aspects and clinical applications.
- To promote the benefits of nuclear technology, to stimulate the progress and development of it in areas such as health.
- To disseminate the work of IAEA and the benefits of nuclear technology to the public with the aim of “awaken the interest of young generations”.
- Both parties are committed to cooperate in training activities for radiation medicine and nutrition practitioners in the IAEA Member States, especially in Latin America and the Caribbean.

## COURSE

# DIAGNOSIS AND STRATIFICATION OF THE RISK OF CORONARY DISEASE WITH NUCLEAR CARDIOLOGY TECHNIQUES

**STARTS: 2017**

**LENGTH: 60 hours, online.**

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## Course on diagnosis and stratification of coronary heart disease risk using nuclear cardiology techniques



About thirty students including cardiologists, specialists in nuclear medicine, physicists and radiologists, from 18 countries, most of Latin America and the Caribbean

*13-19 February Madrid*



## **PROJECT & AIMS:**

**Project:** Improvement of the care for patients with coronary artery disease with nuclear cardiology.

### **Aims:**

- **Aims of the project:** To improve the care of patients with coronary heart disease through nuclear cardiology in Latin America and the Caribbean.

### **- Aims of the meeting:**

To strengthen the practice of nuclear cardiology.

To get properly trained professionals who can disseminate the knowledge acquired and apply it in their centers.

**COURSE**

# PALLIATIVE CARE IN RADIOTHERAPIC ONCOLOGY

**START: 2017**

**LENGTH: 40 hours, online.**



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# PALLIATIVE CARE IN RADIOOTHERAPIC ONCOLOGY

## UNIT 1:

- Diagnosis of pathology
- Principles of palliative treatment

## UNIT 2:

- Bone Metastases
- Brain Metastases

## UNIT 3:

- Compressions
- Bleeds

## UNIT 4:

- Support Treatment
- End-of-life treatment
- Principles for coordinating palliative care



# COURSE NUCLEAR CARDIOLOGY BASIC ASPECTS

**START:** 2017.

**LENGTH:** 60 hours, online



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# **NUCLEAR CARDIOLOGY**

## BASIC ASPECTS

**UNIT 1:** Radiophysics and radiobiology

**UNIT 2:** Instrumentation: SPECT-CT & PET-CT/RMN

**UNIT 3:** Radiopharmaceuticals, dosimetry and radiation exposure

**UNIT 4:** Management, admission, access control, information and patient preparation

**UNIT 5:** Cardiological tests with procedures of physical and pharmacological stress

**UNIT 6:** Processing and interpretation of planar images, SPECT and Gated-SPECT

**UNIT 7:** Clinical aspects

**COURSE**  
**RADIOLOGICAL PROTECTION**  
**FOR THE USE OF IONIZING**  
**RADIATIONS IN MEDICINE**

**START:** 2017

**LENGTH:** 30 hours, online



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**UNIT 1:**

1. Production and interaction of ionizing radiation (IR) with the matter
2. Radioactive materials in medicine and types of disintegration
3. Magnitudes and radiological units
4. Physical characteristics of X-ray equipment and radioactive sources
5. Fundamentals of radiation detection and imaging devices
6. Fundamentals of Radiobiology. Biological effects of ionizing radiation

**UNIT 2:**

7. Radiation protection. General principles and reasons
8. Quality assurance
9. International regulations and recommendations on the use of IR in medicine
10. Operational radiological protection
11. Radiological protection of patients
12. Radiological protection of exposed professionals

**UNIT 3:**

13. Appropriate use in diagnostic imaging in radiodiagnosis
14. Appropriate use in diagnostic imaging in nuclear medicine
15. Case studies

# COURSE PROGRESS IN NEUROIMAGING

**START:** 19 Decembre 2016  
**LENGTH:** 60 hours, online



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# NEUROIMAGING PROGRESS COURSE

TOPIC 1: Perfusion techniques

TOPIC 2: Techniques of diffusion

TOPIC 3: Tractography

TOPIC 4: RMf: Basic Principles

TOPIC 5: Spectroscopy

TOPIC 6: PET

TOPIC 7: Brain Tumors

TOPIC 8: Epilepsy

TOPIC 9: Dementia

TOPIC 10: Vascular

TOPIC 11: Inflammatory pathology

**FACE-TO-FACE COURSE**  
**MANAGEMENT OF MULTIDISCIPLINARY TEAMS**  
for the management and treatment of cancer  
**(Panama)**



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# MANAGEMENT OF MULTIDISCIPLINARY TEAMS

**Program not available**

Dr Romero (Cuba): Coordinator

Dr McLaughlin (Panama): Support to the project

Ms Ciurana (IAEA): Registrations /Administration

Dr Lozano (OMC): Proposal of experts/teachers

# OTHER POSSIBLE COURSES IN COLLABORATION WITH IAEA

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**Course**

**TRAINING FOR RADIOLOGY, RADIOTHERAPY AND NUCLEAR MEDICINE  
TECHNITIANS AND TECHNOLOGISTS**

**Course**

**UPDATES IN MEDICAL PHYSICS**

**Course**

**EFFICIENCY AND SAFETY OF DIAGNOSIS IMAGING IN PEDIATRICS**

# DNA-PROKIDS DNA-PROORGAN



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## **DNA-Prokids**

This program has allowed 800 family gatherings in more than 17 countries.

The goal is to use the technologies of human genetic identification (DNA analysis) to identify missing children. DNA analyzes are performed to create two independent databases:

- 1.- Children disappeared under protection (orphanages, NGOs, other institutions) from unknown families,
- 2.- Relatives of missing children: parents, grandparents, etc. who have reported the disappearance of a child in their charge.

## **DNA- ProOrgan**

The goal of DNA-ProKids is to fight against the illicit trafficking of organs in the world, thanks to the identification of the donor and the origin of the organ, also through DNA.

**GRACIAS POR SU ATENCIÓN!**

**THANK YOU FOR YOUR ATTENTION!**

**VIELEN DANK FÜR IHRE AUFMERKSAMKEIT!**

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