ATOMS FOR LIFE

COOPERATION AGREEMENT

SPANISH FOREIGN OFFICE
&
SPANISH GENERAL MEDICAL COUNCIL (SGMC)
&
INTERNATIONAL ATOMIC ENERGY AGENCY (IAEA)

Dr. Tomás Cobo Castro
Vice-president SGMC

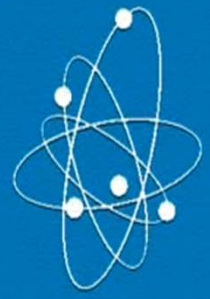
19–20 September 2017

IAEA Scientific Forum

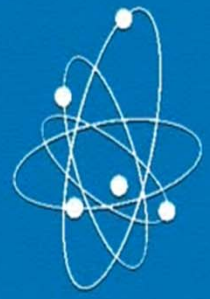
Nuclear Techniques in Human Health

Prevention, Diagnosis, Treatment

OMC | ORGANIZACIÓN MÉDICA COLEGIAL DE ESPAÑA | CONSEJO GENERAL DE COLEGIOS OFICIALES DE MÉDICOS



Atoms for life, Spanish doctors at the service of international cooperation.



Atoms for life, Spanish doctors at the service of international cooperation.

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: 2016 LENGTH: 60 hours, online.

- 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 2016 Madrid)*

COURSE
PALLIATIVE CARE IN RADIOTHERAPIC ONCOLOGY

START: 2017 LENGTH: 40 hours, online

PALLIATIVE CARE IN RADIOTHERAPIC 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

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

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

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)

MANAGEMENT OF MULTIDISCIPLINARY TEAMS

- Dr Romero (Cuba): Coordinator
- Dr McLaughlin (Panama): Support to the project
- Ms Ciurana (IAEA): Registrations /Administration
- Dr Lozano (OMC): Proposal of experts/teachers

DNA-PROORGAN

- The goal of DNA-PRO ORGAN 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, through the creation of databases of DNA.

- DNA PRO ORGAN has a parallel program called DNA PROKIDS 12 years old and now day part of the legislation in several countries in South America.

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LANCET

Volume 390, No. 10094, p532, 5 August 2017

Health providers—helping to disrupt human trafficking

- Although measuring its actual impact is imprecise, the US Department of Justice estimates that around 14 500–17 500 people are trafficked into the USA annually.

- Tracking labour trafficking victims poses an additional challenge because the actual scope can be obscured by short-term jobs such as construction and farm work.

- Victims of sex or labour trafficking experience high rates of physical and sexual abuse, are manipulated financially, often owing traffickers thousands of dollars for passage, and are subject to threats of being exposed to law enforcement and deportation.

- Victims of human trafficking by necessity attempt to remain invisible, but are often in plain view. Interestingly, by some estimates, upwards of half of trafficking victims have interacted with the health-care system at some point during their ordeal, presenting an important point of access for intervention.

- **Health-care providers are in a special position to screen and treat victims of trafficking and to connect them with help, but could also be instrumental in improving estimates of the number of victims. To be a driving force of change against human trafficking, training and engaging providers is a vital way to save lives.**

GRACIAS POR SU ATENCIÓN!

THANK YOU FOR YOUR ATTENTION!

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