Actions, bilan et perspectives des organismes nationaux et internationaux directement concernés par la physique médicale et par la lutte contre le cancer

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Radiation Exposure from Medical Procedures: Ask the Medical Physicist!

Technische Universität München
www.radonc.med.tu-muenchen.de
ICSU
IUPAP
IUPAB
IAEA
WHO
IRPA
ICRP
ICRU
ISR
ILO
BIPM

IOMP – International Cooperations

International Organization for Medical Physics

International Atomic Energy Agency

International Cooperations

International Council for Science

International Commission on Radiation Units & Measurements

INTERNATIONAL COMMISSION ON RADIOPHYSICAL PROTECTION

Connecting the World of Biophysics
Challenges, Opportunities, Limitations

Translation of international regulations and recommendations to the national level

– Basic Safety Standards of the IAEA
– Professional Recognition & State Regulation of the Medical Physicist as a Health Professional (ILO-ISCO08 Classification of Occupations)
– Harmonization of Education & Training Standards
– Certification, Accreditation, Curricula
– Programs dedicated to Developing Countries
Professional Certification

Certification by a national or international body
(State registration/licensing)

Medical Physics organizations or health competent authorities to
establish their national certification system

Alternatively, certification by an external body

Audit of the national certification system

Professional competency maintenance scheme by a mandatory
CPD scheme (national or external)
Developing Countries

Most developing countries are lacking of
  • Sufficient Medical Specialists (incl. Medical Physicists)
  • Appropriate Equipment & Instrumentation
  • Essential Infrastructure

IOMP plays an active role to support health care in developing countries:
  • Global Health Forum (WHO): Radiation Safety
  • PACT/AGaRT (IAEA/WHO): Access to advanced RT Technologies (suitable, affordable, reliable)

IOMP organizes dedicated Workshops / Courses and provides a travel grant program
Key issues of a basic E&T system

- Sustainability by continuous repetition of courses
- Prevention of brain drain by on-site training
- Product specific training by company staff
- Basic medical physics training according to agreed standards (IAEA teaching material, IOMP experts)
- Practicals on-site
IOMP Proposal: Regional Networks for Basic Education & Training Courses

- **Location**: Customer’s Hospital (Reference site of the company)
- **Academia**: Link to a local University
- **Faculty**: Preferably local & few foreign Trainers
- **Sustainability**: repeated courses, e.g. every 6-8 months

- **Course**: 2 modules, one week each
  - **Week 1**: Fundamental MP & Practicing (IOMP)
  - **Week 2**: First maintenance (Company Staff)

**Travel Grants**

**Course Materials**

**Selection of Experts**

**Accreditation**
Merci beaucoup