



EFOMP

European Federation of Organizations for Medical Physics

EFOMP: Review of recent actions

Prof. John Damilakis
EFOMP President

‘Applying physics to healthcare for the benefit of patients, staff and public’



EFOMP



HOW DOES EFOMP RELATE TO EUROPEAN SOCIETIES REPRESENTING MEDICAL SPECIALTIES ?

ESR

EANM

ESTRO

WORKING IN PARTNERSHIP

Sign Memorandum of Agreement

Involve them in EFOMP activities

Support the physics groups in these societies



Relationship with other societies

We have signed Memoranda of Understanding:

EANM

ESTRO

ESMRMB

MELODI (2014)

EFRS (2015)

ESR (2015)

AAPM (2015)

We are in contact with other organizations to sign MoUs


MEFOMP



Relationship with other societies

We have signed ‘Cooperation Agreement’ with:

European ALARA Network (EAN)



The screenshot shows the homepage of the European ALARA Network. The header features a dark background with a map of Europe and the text "European ALARA Network". Below the header is a navigation bar with links: Home, Supports, Contact us, Links, and Archives. The main content area has a yellow background and contains a paragraph about the network's purpose and structure.

European ALARA Network

[Home](#) [Supports](#) [Contact us](#) [Links](#) [Archives](#)

The **European ALARA Network (EAN)** has been created by the **European Commission** to further specific European research on topics dealing with optimization of all types of occupational exposure, as well as to facilitate the dissemination of good **ALARA** practices within all sectors of the European industry and research. CEPN (Centre d'étude sur l'Evaluation de la Protection dans le domaine Nucléaire, France) took on the role of the Network Coordinator with PHE (Public Health England, UK) providing support. The key outputs were to be twice yearly Newsletters and an annual themed Workshop that was to provide recommendations to the EC and other stakeholders involved in radiation protection.



MoU with ESR

From 2017:

- **young MPs are included in the ECR 'Invest in the Youth' program**
- **ESR will publish the 'Physics Program' on the ECR's main website Homepage**

WORKING IN PARTNERSHIP



RELATIONSHIP WITH OTHER SOCIETIES

The screenshot displays the EuroSafe Imaging website. At the top left is the ESR EUROSAFE IMAGING logo, and at the top right is the ESIRF European Society of Radiology logo. The main banner features a woman's face and the text "EuroSafe Imaging Together for patient safety" and "Become a Friend of EuroSafe Imaging!". Below the banner is a navigation menu with links: Home, Information for Referring Professionals, Information for Patients, Ask EuroSafe Imaging, Training, Projects, Resources, Stars, Friends, and About. A secondary navigation bar includes "CT", "Interventional radiology", and "Paediatric imaging". The "CT" section is active, showing the heading "CT" and the text "Click on the images below to access the Tips & Tricks for CT." Below this is a card titled "Ask EuroSafe Imaging" with sub-sections "Tips & Tricks" and "CT Working Group", and a reminder about patient centering in CT scans. On the right, a text block states the mission of EuroSafe Imaging: "The mission of EuroSafe Imaging is to support and strengthen medical radiation protection across Europe following a holistic, inclusive approach." At the bottom right, a green button encourages users to "Show your support for radiation protection and safety" and "Join our 51114 Friends of EuroSafe Imaging now".

ESR EUROSAFE IMAGING

ESIRF European Society of Radiology

EuroSafe Imaging
Together for patient safety

Become a Friend of EuroSafe Imaging!

Home Information for Referring Professionals Information for Patients Ask EuroSafe Imaging Training Projects Resources Stars Friends About

CT Interventional radiology Paediatric imaging

CT

Click on the images below to access the Tips & Tricks for CT.

Ask EuroSafe Imaging

Tips & Tricks

CT Working Group

Reminder of the importance of the appropriate patient centering to scan isocenter in CT scans

The mission of EuroSafe Imaging is to support and strengthen medical radiation protection across Europe following a holistic, inclusive approach.

Show your support for radiation protection and safety

Join our 51114 Friends of EuroSafe Imaging now



RELATIONSHIP WITH OTHER SOCIETIES

We support the Physics Committees :

ECR

EANM

ESTRO



Relationship with AAPM

- **Joint publications**

‘Patient skin dose with fluoroscopy. A review of present methodology and DICOM information. The Joint Report of AAPM Task Group 246 and EFOMP’

Reviewed by EFOMP (December 2015)

‘Digital imaging and communications in Medicine (DICOM)

Supplement 191: Patient Radiation Dose Reporting

The final document will be ready by December 2016

- **Joint sessions in meetings**

WORKING IN PARTNERSHIP



EFOMP

Relationship with AAPM

- Joint Task Groups

EFOMP- AAPM Task Group No. 282 **NEW**

Task Group No. 282 - Development of a new universal breast dosimetry method

- [bookmark this page](#) (bookmarks show under "My AAPM" in the menu to left)

No Website on file. | [Committee Wiki](#) | [Directory: Committee](#) | [Membership](#)

Email You may send email to this group now using [gmail](#) or [outlook](#).

- or -


You may save the address 2016.TG282@aapm.org to your local address book. This alias updates hourly from the AAPM Directory.

Charge To develop and disseminate a new model and corresponding methodology to estimate the breast average glandular dose (AGD) from x-ray based image acquisitions including standard mammography, contrast-enhanced mammography, spot mammography, magnification mammography, and breast tomosynthesis. The developed method will include the definitions of a reference air kerma measurement procedure, reference breast representations, phantom(s) to query the response of the automatic exposure control (AEC) in a clinically realistic fashion, and conversion factors to estimate the AGD from the reference measurements. Recommendations regarding the use and limitations of different metrics such as reference model AGD and patient model AGD will be included. Since it is envisioned that this single new model and method will replace the current disparate methods used in the USA, Europe and the rest of the world, this TG will be an official TG of both the AAPM and EFOMP.



RELATIONSHIP WITH IAEA

Main contribution to the IAEA high-level meeting
'Regional meeting on Medical Physics in Europe:
Current status and future perspectives' (2015)


International Atomic Energy Agency

Questionnaire on Medical Physics Status in Europe

This questionnaire was designed in preparation to the "Regional Meeting on Medical Physics in Europe: Current Status and Future Perspectives" that will be organized on 7-8 May 2015 in Vienna, Austria within the RER/6/031 IAEA Technical Co-operation Project "Strengthening Medical Physics in Radiation Medicine". The meeting will gather high level officials representing Ministries of Health and other relevant national authorities of European Member States of the IAEA. The objectives are to raise awareness of national authorities of medical physics, medical physicists' roles, status, education, training, recognition, accreditation, certification and staff shortages in the region.

Please return the filled-in questionnaire by the deadline of 20 March 2015. Your timely reply is essential. Please do not forget to add your comments in the Section F of the questionnaire.

A. Contact information			
National Medical Physics Society/Association			
Name			
Country			
E-mail			
Telephone			
Form completed by			
Family name			
Given name			
E-mail			
Telephone			
Name of institution			
Address	Street		
	P.O. Box		ZIP
	City	Province / State	
	Country		

B. Qualification framework for medical physics in the country			
B1. Education (<i>minimum level to start work</i>)			
BSc in physics or equivalent	<input type="radio"/> Yes	<input type="radio"/> No	
MSc in medical physics	<input type="radio"/> Yes	<input type="radio"/> No	
PhD	<input type="radio"/> Yes	<input type="radio"/> No	
Other: _____			
How was the minimum level to start work established?			
Required by law <input type="checkbox"/>	Determined by MP society <input type="checkbox"/>	Determined by the hospital <input type="checkbox"/>	
Other: _____			

Page 1 of 4



RELATIONSHIP WITH IAEA

Active participation in IAEA conferences:

- Int. Conf. On Clinical PET and Molecular Imaging
(5-9 Oct, 2015)
- Meeting to discuss the current status of dosimetry in NM and
assess the need and possible content of a publication
(2-6 Nov, 2015)
- Workshop 'Development of harmonized QC protocols for DR'
(18-22 April, 2016)
- Publication on 'Setting up of a Radiology facility'
(2016)



RELATIONSHIP WITH ICTP



Research ▼

Scientific Calendar

Programmes ▼

Administration

Search

Search in Conferences:

Overview

Programme

Speakers

Joint ICTP-IAEA Workshop on Computed Tomography: Quality Control, Dosimetry and Optimization | (smr 2853)

JOINT ICTP-IAEA WORKSHOP ON COMPUTED TOMOGRAPHY: QUALITY CONTROL, DOSIMETRY AND OPTIMIZATION

School on Medical Physics for Radiation Therapy: Dosimetry and Treatment Planning for Basic and Advanced Applications | (smr 2694)

May or June 2017

Organizers

John Damilakis (EFOMP),
Harry Delis (IAEA),
Mahadevappa Mahesh
(AAPM), Jenia Vassileva
(IAEA),
ICTP Local Organizer: L.
Bertocchi



RELATIONSHIP WITH HERCA



Addendum to HERCA CT Position paper
The process of CT dose optimisation through education and training and the
role of the Manufacturers

Feedback from the European Coordination Committee of the Radiological,
Electromedical and Healthcare IT Industry (COCIR), the European Society of
Radiology (ESR), the European Association of Nuclear Medicine (EANM), the
European Federation of Radiographer Societies (EFRS) and the European
Federation of Organisations ~~in~~ **for** Medical Physics (EFOMP) on the HERCA CT
position paper

10/09/2015

On 1st April, HERCA (Heads of the European Radiological protection Competent
Authorities) organised a multi-stakeholder meeting kindly hosted by the French
Nuclear Safety Authority (ASN) in its premises in Paris. The stakeholders included:

COCIR, supported by the main manufacturers of CT equipment (GE, Philips,
Siemens and Toshiba),

- The professional organisations: ESR, ESPR, EFRS, EANM, ESTRO and EFOMP.

**Multi-stakeholder meeting on justification and optimization in the medical field
(March 10, 2016)**



EFOMP

RELATIONSHIP WITH THE BRITISH STANDARDS INSTITUTE

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Enter keyword, standard number, or committee

Search

Healthcare > CH/100 Healthcare and Medical Equipment > BS 70000 Engineering and physical and physiological science services inhealthcare – Requirements for quality and competence

☒ Browse by committee:

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Agriculture & Food

Business

Commercial &
consumer goods

Construction

Engineering

Environment

Health & Safety

Healthcare

ICT

Information
management

Manufacturing

Measurement &
science

Standard in development: BS 70000 Engineering and physical and physiological science services inhealthcare – Requirements for quality and competence

- Responsible committee: CH/100 Healthcare and Medical Equipment
- Status: Public Comment
- This standard in development is categorized in: Accident & disaster control, Aids & disabled persons, Anaesthetic, respiratory & reanimation equipment, Boilers & heat exchangers, Cookware, cutlery & flatware, Diagnostic , First aid, Furniture, Gas pressure vessels & gas cylinders, General, General, General, Home textiles; linen, Hospital equipment, Laboratories & equipment, Light, Measurement; volume, mass, density & viscosity, Medical sciences & facilities; general, Medicaments, Occupational safety & industrial hygiene, Other, Other, Plant growing, Products, Quality management & quality assurance, Radiation protection, Syringes, needles & catheters, Ventilation & air-conditioning. You can view other items in these categories by clicking on the category name.

Recently Viewed



BS 70000
Engineering and
physical and
physiological science
services inhealthcare
– Requirements for
quality and
competence

Need Help?

We are here to help you with any queries. Email us for help.

But first, why not view the Help Pages?

Next meeting: October 19-20, 2016, Nicosia



MPEC
Manchester,
September 12-14, 2016



EUROPEAN TRAINING AND EDUCATION IN RADIATION PROTECTION FOUNDATION

Activities of the EUTERP Foundation -- European Training and Education in Radiation Protection --

Background

European Commission concerns prompting the formation of the EUTERP Foundation ---

- Lack of mobility of radiation protection experts (RPEs) across the European Union
- Differing interpretations of both the knowledge and training requirements for RPEs in different member states

The EUTERP vision

- A common understanding of the role of the RPE
- Consistent education and training requirements
- Appropriate training for all radiation workers (RW)

The EUTERP realization

- Liaison with all stakeholders that have education and training in their activities

EUTERP activities

- Encouraging National Contact Points in all states
- Reference syllabus for training of RPEs
- Development and testing of modular training courses
- Liaison with HERCA on the recognition of RPEs
- Encouraging Associates to participate
- Partner in the ENETRAP III project
- Development of the EUTERP website www.euterp.eu
- Newsletters and information dissemination
- Organization of workshops on RP training topics
- Collaboration in international conferences – e.g. RPW, UK, autumn 2016; ETRAP17, Spain, spring 2017

Main achievements

- Self-sustainable entity since June 2010 with a dynamic web site
- Advice to the EU on the introduction of the RPE and RPO for the EU BSS 2013
- 3 Workshops: Cyprus autumn 2011; Croatia, spring 2014; Greece, autumn 2015; the next is scheduled for 2018

Conclusion

EUTERP provides a portal for radiation protection education and training activities in Europe. It liaises with other European organizations, participating in projects and events to develop and enhance training activities, and promote a common understanding of training requirements for all persons involved in activities using ionizing radiation.

EUTERP Associates



© EUTERP Foundation - Westerduinweg 3 - 1755 LE Petten - The Netherlands

www.euterp.eu



RELATIONSHIP WITH IOMP



IOMP Book on 'Non-ionizing Radiation Protection in Medical Environments'

NEW



EFOMP COMMITTEES

Education & Training

Projects

EU Matters

Scientific

Communications & Publications

Professional Matters



DEVELOPING MEDICAL PHYSICS IN EUROPE

High Quality Education and Training

Involvement in International Projects

Bringing Medical Physicists Together

Supporting Medical Physics

EUTEMPE-RX European Training and Education for Medical Physics Experts in Radiology

Home Partners Modules Documents Workshop

News

June 12, 2016

Good news!

The EUTEMPE-RX project partners have decided to repeat their modules. You can subscribe now!

[Read more](#)

MPE01 : Leadership in Medical Physics: Development of the profession and the challenges for the MPE (D&IR)

[Apply Now !](#)

6-10 February 2017,
Prague, Czech Republic



**ESMPE European School for Medical Physics Experts – Prague
January 2017**

Imaging in Radiotherapy

January 26 – January 28, 2017
Prague, Czech Republic

EBAMP

NEW

EEB



Czech Association
of
Medical Physicists



EFOMP



This event is under the auspices of the EANM

EFOMP School for Medical Physics Experts – Prague, July 2015

Radiopharmaceutical dosimetry

July 2 – July 4, 2015
Prague, Czech Republic

The Czech Association of Medical Physicists in collaboration with EFOMP and Department of Dosimetry and Application of Ionizing Radiation of the Faculty of Nuclear Sciences and Physical Engineering, Czech Technical University in Prague would like to invite you to the **EFOMP School for Medical Physics Experts (Nuclear Medicine) - Prague Summer 2015**. The school will be aimed at advanced tasks connected to **Radiopharmaceutical dosimetry**. This two-and-half day event will be an EFOMP accredited one and is intended for practising clinical Medical Physicists who are at the level of a Medical Physics Expert (MPE) in Nuclear Medicine or working towards becoming an MPE. As in last year's school, there will be an optional examination at the end for those seeking a higher level of certification beyond attendance.

Content

First day of school will be aimed at theoretical aspects of radiopharmaceutical dosimetry. On second day, theoretical background will be used and clinical studies will be presented. The last day will be devoted to general discussion with participants, discussion on available software tools etc.

Theoretical aspects of radiopharmaceutical dosimetry

Introduction to radiopharmaceutical dosimetry (Indications: Diagnostics and therapy, common formalism for dosimetry), **Quantitative SPECT imaging** (Specificities of quantitative imaging for dosimetry), **Quantitative PET imaging** (Specificities of quantitative imaging for dosimetry), **Pharmacokinetics modelling** (TAC assessment, sampling, fitting, introduction to compartmental modelling), **Absorbed dose computing** (Radiation transport and absorbed dose computation, local deposition, convolution, Monte Carlo simulations), **Diagnostic dosimetry** - ICRP 103 (ICRP reports and evolution, implementing present and future ICRP recommendations, hybrid imaging and impact on dosimetry), **Therapy dosimetry** - absorbed dose / effect relationship (status of dosimetry in therapy, how/when to implement dosimetry, absorbed dose effect relationship: toxicity and/or efficacy).



Czech Association
of
Medical Physicists



EFOMP



IAEA

International Atomic Energy Agency

European School for Medical Physics Expert (ESMPE)

Prague 2016

Computed Tomography Imaging: Dosimetry, Optimization and Advanced Clinical applications

January 28 – 30, 2016
Prague, Czech Republic



ESMPE European School for Medical Physics Experts – Prague, July 2016

Practical aspects of Radiation Dosimetry in Targeted Radionuclide Medicine Therapy

July 7– July 9, 2016
Prague, Czech Republic



ESMPE European School for Medical Physics Experts – Prague January 2017

Imaging in Radiotherapy

January 26 – January 28, 2017
Prague, Czech Republic



EFOMP



European Training and Education for Medical Physics Experts in Radiology



An FP7 Project

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News

» June 12, 2016

[Good news!](#)

The EUTEMPE-RX project partners have decided to repeat their modules. You can subscribe now !

[Read more](#)

» June 12, 2016

[EUTEMPE.net](#)

The EUTEMPE-RX project partners have established the EUTEMPE.net to ensure the future repetition of the course modules in a quality controlled way. A memorandum of understanding has been signed.

[Read more](#)

» January 13, 2016

[Application closed for all modules](#)

The application for modules 11 and 12 has closed. This means that it is no longer possible to apply for any of the EUTEMPE-RX modules. You still have a chance to participate in the modules in the...

[Read more](#)

» January 13, 2016

[Module 1 article](#)

The module 1 team have written an article about the creation and delivery of their module. It has now been published in the Medical Physics International Journal. Be sure to check it out in our...

MPE11 : Radiation dose management of pregnant patients, pregnant staff and paediatric patients in diagnostic and interventional radiology

Apply Now !

21-25 May 2018, Iraklion (Crete), Greece

EUTEMPE-RX: State-of-the-art Education and Training for Medical Physicists Aspiring to Medical Physics Expert Status in Diagnostic and Interventional Radiology

- ⚙ Course content driven by the 'European Guidelines on the Medical Physics Expert'
- ⚙ Dedicated EQF level 8 specialist courses delivered by area experts within a European network of centers of excellence
- ⚙ The greater part of each module is delivered online so that you can participate from home
- ⚙ Each course is accredited by EFOMP

We are a group of partners with a track record in teaching and research in Medical Physics applied to Diagnostic and Interventional Radiology. We have created a network of centers of excellence to deliver dedicated teaching and training at EQF level 8 for Medical Physicists who are aspiring to Medical Physics Expert status in Diagnostic and Interventional Radiology.

The EUTEMPE-RX consortium delivers 12 modules, that have already been successfully delivered once. Following requests by the previous participants, the consortium partners in their meeting in Leuven, March 20 - 21, 2016, agreed to repeat their course modules a second time.

We are therefore very happy to announce the dates of the second round of modules. You can find these here. Each module can take a certain maximum number of participants and acceptance is on a first come first served basis. Ensure your place and **Apply here today !**

For this second round of courses, a fee will be charged, as the project is no longer sponsored by the EC.

Upcoming Modules

- » [MPE01 : Leadership in Medical Physics: Development of the profession and the challenges for the MPE \(D&IR\)](#)
Leaders : C. Caruana & V. Tsapaki
6-10 February 2017, Prague, Czech Republic
- » [MPE02 : Radiation biology for medical physicists in radiology](#)
Leader :A. Ottolenghi, G.Baiocco
15-19 January 2018, Pavia, Italy
- » [MPE03 : Monte Carlo simulations of X-ray imaging and dosimetry](#)
Leader:J. Sempau
20-24 June 2017(Provisional), Barcelona, Spain
- » [MPE04 : Innovation & Advanced X-ray physics for imaging devices in Diagnostic and Interventional Radiology](#)
Leaders:A. Taibi & M. Gambaccini
11-15 September 2017, Ferrara, Italy
- » [MPE05 : Physical and virtual anthropomorphic phantoms for image quality and patient dose optimization](#)
Leader:K. Bliznakova
22-26 May 2017, Varna, Bulgaria
- » [MPE06 : The development of advanced QA protocols for testing radiological devices](#)
Leaders:H. Bosmans, N. Marshall & E. Vano
13-17 November 2017, Leuven, Belgium
- » [MPE07 : Optimisation of X-ray imaging using standard and innovative techniques](#)
Leaders:A. Mackenzie & K. Young
9 - 11 Oct, 2017 with extensive e-learning part and possibility to register for the e-learning only, Guildford, UK
- » [MPE08 : Mathematical model observers developed and implemented for patient dose optimization in CT](#)
Leaders:F. Verdun & F. Bochud
12-16 March 2018, Lausanne, Switzerland
- » [MPE09 : Achieving quality in diagnostic and screening mammography](#)
Leaders: R. Van Engen, I. Sechopoulos & W. Veldkamp

EUROPEAN BOARD FOR ACCREDITATION IN MEDICAL PHYSICS (EBAMP)

The EBAMP will accredit medical physics education and training events. Initially its work will be limited to allocating CPD credits depending on the number of hours of education and hands-on training required of participants.

EUROPEAN BOARD FOR ACCREDITATION IN MEDICAL PHYSICS (EBAMP)

For the first Board only, board positions were advertised and the candidates were evaluated by the EFOMP Board of Directors and their appointment were ratified by the EFOMP Council.

The EBAMP will function independently from EFOMP

EUROPEAN BOARD FOR ACCREDITATION IN MEDICAL PHYSICS (EBAMP)

Comments and approval by EFOMP Board: OK

Comments by the NMOs: Received

Council approval: OK

Nominations: Received (January 2016)

Board: Approved (June 2016)

EBAMP Board

Name	Country	Office
Pedro Galan	Spain	President
Simo Hyodynmaa	Finland	Vice President
Kiki Theodorou	Greece	Secretary General
Florianv Cremers	Germany	Board member
Chris Constantinou	Cyprus	Board member
Dario Faj	Croatia	Board member
Stan Heukelom	The Netherlands	Board member
Markus Lonsdale	Denmark	Board member
Carmo Lopes	Portugal	Board member



EUROPEAN BOARD FOR ACCREDITATION IN MEDICAL PHYSICS (EBAMP)

Quality Manual

Accreditation Application Form for Congresses, Conferences, Workshops or Seminars only

In the context of this application, the term accreditation means that an organisation has been approved by the European Board for Accreditation in Medical Physics to provide the stated event. The accredited organisation is required to meet the standards set by the Board.



Date of Application: <i>(see note 1)</i>
Name, address and email of institution organizing the event:
Name and email of contact person:
Title of the event to be accredited:
Type of event: <input type="checkbox"/> Congress, <input type="checkbox"/> Conference, <input type="checkbox"/> Workshop, <input type="checkbox"/> Seminar
Minimum level of education in Medical Physics that participants should have already achieved: EQF level <input type="checkbox"/> 6, <input type="checkbox"/> 7, or <input type="checkbox"/> 8 <i>(see note 2)</i>
Date of event:
Venue/s (University/hospital, city, country):

EFOMP EXAMINATION BOARD (EEB)

The EEB will have the responsibility for two types of assessment:

It will award a European Diploma of Medical Physics (EDMP) as recognition that the holder is qualified to Master's degree level and has at least 2 years equivalent clinical training in the field of medical physics.

EFOMP EXAMINATION BOARD (EEB)

It will also examine candidates against the criteria set by RP 174 and award the European Attestation Certificate to those who have reached the level of the Medical Physics Expert (EACMPE).

EFOMP EXAMINATION BOARD (EEB)

Comments and approval by EFOMP Board: OK

Comments by the NMOs: Received

Council approval: OK

Call for nominations: In progress

EFOMP EXAMINATION BOARD (EEB)

Terms of Reference of the EFOMP Examination Board

Background

The recognition of the Medical Physics profession by the European Union (EU) can be achieved by meeting the requirements of the EU Directive 2005/36/EC on the recognition of professional qualifications as amended by Directive 2013/55/EU of the European Parliament and of the Council of 20 November 2013 [1].

Chapter IIIA of Directive 2013/55/EU (reproduced in Appendix A, for easy reference) offers recognition when at least a third of the EU Member States (MS) agree on a common training framework and a common training test.

EFOMP is in the process of updating its Policy Statement No. 6 “Recommended Guidelines on National Registration Schemes for Medical Physicists” [2] in accordance to paragraph 2 of article 49a of Chapter IIIA of Directive 2013/55/EU, so that the national registration schemes of the EFOMP National Member Organisations (NMOs) have sufficient commonality to be seen as constituting a common training framework.

The EFOMP Examination Board (EEB) is set up in accordance with paragraph 2 of article 49b of Chapter IIIA of Directive 2013/55/EU in order to assist NMOs to agree on a common training test by certifying that a medical physicist has reached the competence level to act independently. This will be recognised by the award of a diploma.

It is to be understood that in the European context, the title “Medical Physicist (MP)” is only to be used for individuals that have the training and education in compliance with the requirements in the European Commission’s Radiation Protection Report 174 (RP 174) [3] for the medical physics disciplines that use

DEVELOPING MEDICAL PHYSICS IN EUROPE

High Quality Education and Training Education

Involvement in International Projects

Bringing Medical Physicists Together

Supporting Medical Physics



EFOMP involvement in EU projects

PiDRL

EUTEMPE-RX

ENETRAP III

BSS Transposition **NEW**



Kick-Off Meeting (1st Steering Committee Meeting)

**EC Tender Contract N° ENER/16/NUCL/SI2.730592
MESTRA (Medical Sector Transposition)**

14 June 2016, 9:30-17:00, Luxembourg

The objective of this EC tender project is to evaluate Member States' activities for the transposition and implementation of Council Directive 2013/59/Euratom in the medical area. In addition, Candidate and EFTA States will be contacted to help facilitate the detection of issues, an exchange of first experiences and resolutions, and the identification of good practices.

This project was awarded to a consortium headed by the European Federation of Organisations for Medical Physics ([EFOMP](#)). Other participating organisations are the European Society of Radiology ([ESR](#)) and the European Federation of Radiographer Societies ([EFRS](#)).



**The New European Union Framework Programme for all
Research and Innovation-related activities (2014-2020)**



MELODI Multidisciplinary European
Low Dose Initiative

Latest NEWS

- **LEUKEMIA WORKSHOP** flyer | website ; 14-16Nov. 2016, MUNICH
- Neutron and Ion Dosimetry Symposium in Krakow, Poland from 14 to 19 May 2017; **(NEUDOS13)**
- Radiation Protection Week **(RPW2017)**
- ERRS, 4-8 September 2016
- Radiation Protection Week (RPW2016); **registration deadline 19 August 2016**
- NORMVIII Symposium

[Home](#)[About MELODI](#)[Workshops](#)[SRA](#)[OPERRA](#)[DoReMi](#)[CONCERT](#)[NEWS Archive](#)[Links](#)

Multidisciplinary European Low Dose Initiative

MELODI is an European Platform dedicated to low dose radiation risk research. In 2010 MELODI was founded as a registered association with 15 members.

The purpose of MELODI is:

- MELODI will propose R&T priorities for Europe in its field of competence
- EUROPE 2020 Strategy.
- MELODI will seek the views of stakeholders on the priorities for research, keep them informed on progress made, and contribute to the dissemination of knowledge.
- MELODI will interface with international partners like WHO and IAEA.

Based on the outcomes of the yearly MELODI workshops a [Strategic Research Agenda \(SRA\)](#) is being progressively developed. To assure an open and vivid discussion and development of the SRA the contribution from a large number of scientists and stakeholders is needed. More information about the SRA and the ongoing discussion can be found under SRA. Comments are welcome.

In parallel to the SRA a statement on a [short- to medium-term research agenda for R&T projects](#) is developed to improve the scientific basis for radiation protection in Europe giving guidance for pending EURATOM R&T project calls. These recommendations can be found under [MELODI documents](#).

MELODI Partners

Membership

[How to join MELODI?](#)[Members Login](#)

Contact

Bundesamt für
Strahlenschutz
Postfach 10 01 49
D-38201 Salzgitter

Germany

E-Mail: melodi@bfs.de



EFOMP

MELODI

- MoU with MELODI
- During MELODI 2015, EFOMP and other medical societies was accepted by the MELODI GA as new MELODI member
- During the same workshop, it was decided to set up a medical platform as umbrella organisation of the medical associations (EURAMED) and to prepare a proposal to NFRP-9 H2020 call.
- MEDIRAD project proposal: in progress

PROMOTING RESEARCH

EUTEMPE - RO

- ESTRO and EFOMP have formed a joint working party to develop a suitable application for Europe-wide funding
- Several t-cons. There is an H2020 EURATOM NFRP 12 call
- EUTEMPE-RO project proposal: in progress

Modules

Professional Development and Leadership
Advanced Dosimetry and Dose verification
Dose Modelling in Treatment Planning Systems
Advanced Treatment Planning and Optimisation
Advanced Imaging in Radiotherapy
Advanced Brachytherapy
Particle Therapy
Radiobiological Modelling
Radiation Protection
Radiotherapy Equipment and IT management
Clinical Risk Management
Research in Radiation Oncology physics

PROMOTING E&T



EFOMP



DEVELOPING MEDICAL PHYSICS IN EUROPE

High Quality Education and Training

Involvement in International Projects

Bringing Medical Physicists Together

Enhancing Medical Physics

European Congress of Medical Physics (ECMP)

Annual/Biennial ?

Fixed/Rotational ?

Biennial/Rotational

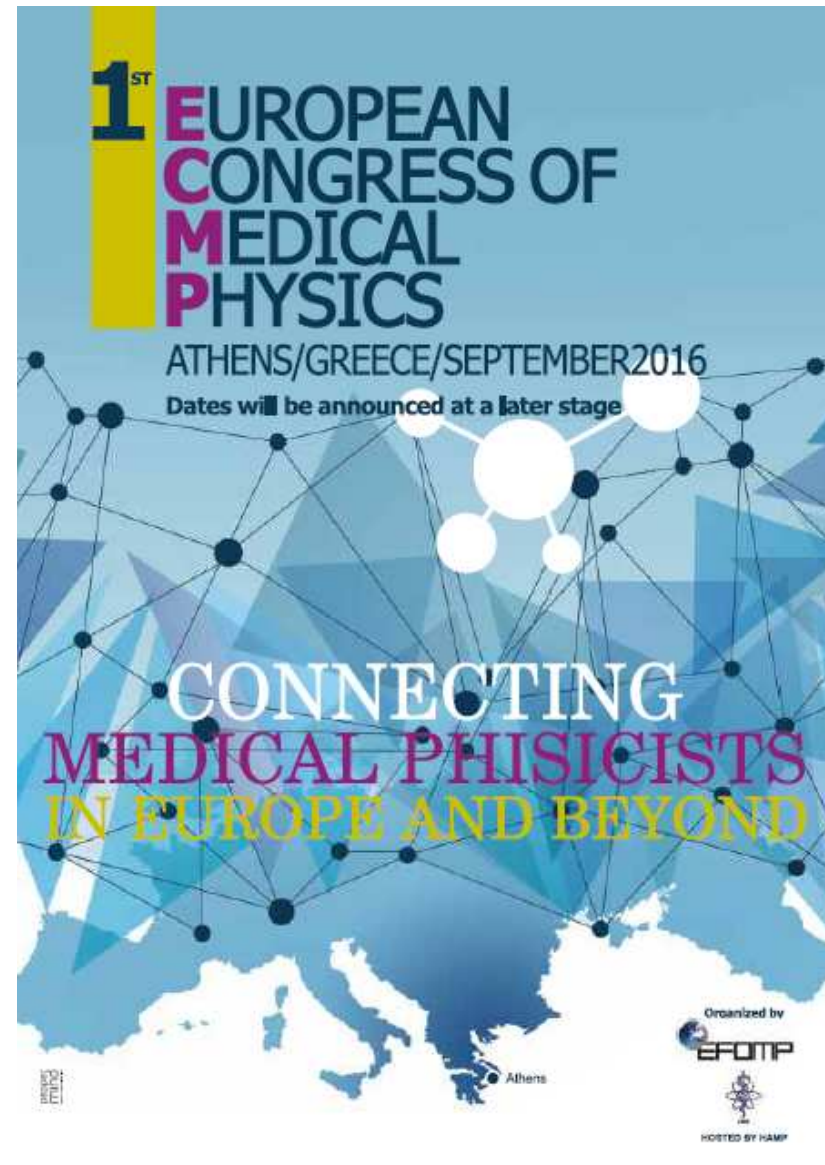


EFOMP

1st European Congress of Medical Physics

Athens
September 1-4
2016

The project has received funding from the European Commission under tender no. ENER/D3/91-2013.



ECMP 2018

Call for Bidding for the Organization of the 2nd European Congress of Medical Physics (ECMP) in 2018

1. Introduction

The main purpose of the European Congress of Medical Physics (ECMP) is to advance and disseminate medical physics and medical technology knowledge and promote the medical physics profession in Europe and worldwide.

2. Invitation to Bid

All EFOMP national member organisations in good standing or a regional group (cooperation of two or more national organisations) are invited to bid to host the 2nd ECMP to be held in 2018.

3. The ECMP in a nutshell

The ECMP is organized by a Congress Program Committee (CPC) in cooperation with a Local Organizing Committee (LOC). The CPC comprises a Chair and 6 members. EFOMP designates the chairman of the CPC. EFOMP's board nominates 5 members and the host society nominates 1 member. Members nominated by EFOMP who have served 3 times are replaced by EFOMP, unless they become chair in order to bring in new individuals. The CPC establishes a Scientific Board to develop the scientific programme and scientific activities of the congress. It is the role of the Scientific Board to select and invite speakers, review and evaluate the papers submitted and inform authors about the decision of the review process. The CPC will also be responsible for global public relations and communications, industry relations and fundraising at a European level and promotion of the congress through EFOMP channels.

The host national member organization establishes the LOC. The chair of the LOC will be designated by the host society. The host society nominates 5 LOC members and the EFOMP nominates 1 member. LOC is responsible for the choice of the venue, social events, the preparation, printing and distribution of preliminary announcements and flyers for the promotion of the congress, the printing and the distribution of preliminary and final programs and proceedings, registration and hotel accommodation processes and the development and updating of the ECMP website. The LOC will also be responsible for local/regional fundraising and marketing and local/regional public relations and communications.

The LOC will update the CPC regularly on the progress of its organization. The cooperation between the EFOMP and the LOC is formally arranged in a contract. The LOC submits a draft financial report of the congress that provides sufficient information on the revenues and expenses related to the organization of the congress to the CPC at least 2 months before the

The European Federation of Organisations for Medical Physics
General Office: Fairmount House, 230 Tadcaster Road, York, YO24 1ES, UK
Telephone: (+44) 1904 610821 Fax: (+44) 1904 612279

**2ND EUROPEAN CONGRESS OF MEDICAL PHYSICS
and
EFOMP OFFICERS' AND COUNCIL MEETINGS**

TO BE HELD IN COPENHAGEN, DENMARK

AUGUST 23-25, 2018

FORMAL AGREEMENT BETWEEN EFOMP AND A) THE DANISH SOCIETY OF MEDICAL PHYSICS AND B) THE SWEDISH ORGANISATIONS FOR MEDICAL PHYSICISTS

1. This agreement is between the European Federation of Organisations for Medical Physics (EFOMP) and a) the Danish Society of Medical Physics (DSMF) and b) the Swedish Association for Medical Physicists and the Swedish Society for Radiation Physics, hereafter commonly referred to as the Swedish Organisations for Medical Physics (SOMP).
2. EFOMP, DSMF and SOMP agree that the 2nd European Congress of Medical Physics (ECMP) will be held in Copenhagen, Denmark, at the H.C. Ørsted Institutet (HCO), from August 23 to August 25, 2018. HCO is part of the larger Niels Bohr Institute whose name will be used to promote the congress. Satellite meetings can be organized from Monday the 20th until Sunday the 26th of August.
3. EFOMP, DSMF and SOMP will split any profit or loss responsibilities related to the 2nd ECMP into 1/3 between the three entities. Further, the Niels Bohr Institute will contribute with 7500 Euro in case of a congress deficit.
4. The ECMP will be organized by a Congress Program Committee (CPC) in cooperation with a Local Organizing Committee (LOC). The CPC comprises a Chair and 7 members. EFOMP designates the chair of the CPC. EFOMP will nominate 5 members and DSMF and SOMP will nominate 1 member each. The CPC will establish a Scientific Board to develop the scientific programme and scientific activities of the congress. It is the role of the Scientific Board to select and invite speakers, review and evaluate the papers submitted and inform authors about the decision of the review process. The CPC will also be responsible for global public relations and communications, industry relations and fundraising at a European level and promotion of the congress through EFOMP channels. The CPC should coordinate activities with the professional congress organizer (CAP Partner).
5. DSMF and SOMP will establish the LOC. The chair of the LOC will be designated by the local host society. DSMF and SOMP will nominate 5 LOC members and the EFOMP will nominate 1 member. LOC will be responsible for arrangements with the venue, social events, the preparation, printing and distribution of preliminary announcements and flyers for the promotion of the congress, the printing and the distribution of preliminary and final programs and proceedings, registration and hotel accommodation processes and the development and updating of the ECMP 2018 website. The LOC will provide a communication platform for the peer review process through the website. The LOC can delegate any assignment to the professional congress organizer (CAP Partner). The LOC will be responsible for local/regional fundraising and marketing and local/regional public relations and communications. The LOC should coordinate these activities with the professional congress organizer (CAP Partner).

6. The LOC will update the CPC regularly on the progress of its organization. The finances of the conference are to be based on the preliminary budget attached as an appendix to this contract. LOC will submit an updated financial report of the congress to the CPC at least 2 months before the Congress. The LOC will submit its final financial report to the CPC within 60 days after the Congress.
7. The LOC will receive the draft scientific programme at various time intervals from the CPC. DSMF, SOMP and LOC members may propose sessions on aspects of Medical Physics of particular interest for their countries. This should be done in consultation with the CPC. The local committee may not make any changes to the scientific programme without prior consultation with the CPC.
8. The President of the Congress will be appointed after discussion of the chair of the CPC with the host societies (DSMF and SOMP).
9. The LOC will ensure availability and include in the budget the cost of office space with facilities for photocopying and the use of one portable PC with printer and internet connection accessible by EFOMP Officers.
10. Registration fees for EFOMP officers, LOC and CPC members will be waived. Hotel expenses of the 10 EFOMP officers, expenses for a meeting room for EFOMP officers and members of the CPC and expenses for an EFOMP council dinner will be included in the budget. Expenses for a meeting room for the council meeting with a projector and audio equipment will also be included in the budget.
11. Invited speakers will have their registration fees waived. Further accommodation and travel expenses for invited speakers may optionally be covered by the congress budget depending on realized income from congress sponsors contributions and participant fees.
12. The parties to this contract will explore the possibility of selected papers being published in a peer-reviewed journal.

Signed on behalf of:

EFOMP

DSMF

SOMP

Name Position Date

Name Position Date

Name Position Date



The European Federation of Medical Physics Organizations Newsletter

EMP News Summer 2016

Company Name
Address Line 1, Address Line 2, Address Line 3 Address Line 4
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Fax: (123) 456 7892
www.example.com

NEW

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Invitation by the editors

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The Role of Medical Physics in Prostate Cancer Radiation Therapy

It is with pleasure that we accepted the invitation to summarise the content of the recently published Focal Issue of *Physica Medica* dedicated to the contributions of medical physics to prostate cancer (PCa) radiation therapy. In our minds, this issue constituted an excellent opportunity to feature the relevant, and often hidden impact of medical physics (as a both scientific and professional discipline) in improving the care of PCa patients and its smart perspective for the future.

The traditional role in developing and safely implementing new technology and methods for better optimizing, delivering and monitoring the treatment is rapidly expanding to include new fields such as quantitative morphological and functional imaging and the possibility of individually predicting outcome and toxicity. The pivotal position of medical physicists in treatment personalization probably represents the main challenge of current and next years and needs a gradual change of vision, without losing the traditional and fundamental role of medical physicists to guarantee a high quality of the treatment.

The focal issue covered both conventional and new areas in medical physics with the aim to provide up-to-date reference material to medical physicists (and likely, radiation oncologists) daily working to cure PCa patients. In total, one editorial and thirteen scientific papers were published in the issue: aside from the opening Editorial, the first paper dealt with a physician's perspective on the role of RT in the management of PCa. Then, the main physics contributions focused on developments in imaging, planning and delivery, image-guided/adaptive radiation therapy and outcomes assessment using predictive models. Regarding imaging, two reviews concerning MRI and PET for radiation therapy are available. Then, for the planning and delivery part, six papers cover several topical fields, from brachytherapy optimization for focal therapy to planning optimization with rotational techniques including pelvic node irradiation, up to the emerging use of protons, FFF Linacs and stereotactic techniques. Then, for the



Dr. Jans Seuniger
Morbi nisl eros, dignism nec, malesuada et, convallis quis, augue.

EFOMP JOURNAL



Physica Medica
The European Journal of Medical Physics

PROMOTING RESEARCH

EXPIRED



www.efomp.org

WHAT IS ON THE WEB SITE?

- How EFOMP works
- Scientific Meetings and Events
- Latest news in medical physics
- EFOMP publications
- Sign up for the Newsletter and EMPNews
- MSc and PhD programmes
- Job adverts

DEVELOPING MEDICAL PHYSICS IN EUROPE

High Quality Education and Training

Involvement in International Projects

Bringing Medical Physicists Together

Enhancing Medical Physics

WORKING GROUPS

- Digital Mammography (document on QC)



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WORKING GROUPS

- Digital Mammography (document on QC)
- CBCT **Quality control in cone-beam
computed tomography (CBCT)**

EFOMP-ESTRO-IAEA protocol



POLICY STATEMENTS

Policy Statements

► **Policy Statement No7.1**

The European Federation of Organisations for Medical Physics. Policy Statement No. 7.1: The roles, responsibilities and status of the medical physicist including the criteria for the staffing levels in a Medical Physics Department approved by EFOMP Council on 5th February 2016

Created on:06-08-2016

► **Policy Statement No10.1**

The European Federation of Organisations for Medical Physics Policy Statement No. 10.1: Recommended Guidelines on National Schemes for Continuing Professional Development of Medical Physicists

Created on:13-02-2016

► **Policy Statement No6.1**

The European Federation of Organisations for Medical Physics Policy Statement No. 6.1: Recommended Guidelines on National Registration Schemes for Medical Physicists

Created on:13-02-2016

► **Policy Statement No15**

Created on:14-04-2015

► **Policy Statement No14**

The Role of the Medical Physicist in the Management of Safety within the Magnetic Resonance Imaging Environment.

Created on:15-02-2013

Guidelines

The European Federation of Organisations for Medical Physics

Guidelines on the Participation of EFOMP in Projects

Approved by EFOMP Council on 15th of January, 2015

Introduction

Although EFOMP's aims and mission statement do not explicitly call for EFOMP to be involved in projects, one way of satisfying a number of these aims and help in EFOMP's mission is to be involved in projects that lead to the publication of reports and scientific journal articles that support these objectives. Publications will be particularly pertinent when they contain a strong European dimension. Previous publications, having such a perspective, in which EFOMP has been involved, include reports that are sponsored and published by the European Commission.

EFOMP's involvement in projects is overseen by the Projects Committee. The terms of reference of the Projects Committee are to be found in the EFOMP [Manual](#).

The Projects Committee is responsible to the Council of EFOMP for participating in the implementation of projects and supporting the participation of Medical Physics institutions for improving research in Medical Physics and the professional status of Medical Physicists in Europe and internationally.

Most of the key points of the terms of reference are quite specific and have little need for guidelines. Guidelines are required, however, to identify what constitutes suitable content or tasks in projects.

Guidelines

Only projects that either have no ethical dimension or have, or will apply to have, ethical approval will be considered. However, since EFOMP was founded to serve as an umbrella organisation for NMOs, the various cultural and national characteristics and sensitivities of different members of the NMOs must also be considered. These qualities are not always satisfied by ethical considerations, or the perception that there are no ethical dimensions. To ensure these qualities are respected, and also that the reputation of EFOMP is maintained, EFOMP will not be involved in projects, or support the participation of medical physics institutions in projects, where such involvement could bring the reputation of EFOMP into question. Projects that EFOMP will not support include those involving:

EFOMP DECLARATION

EFOMP Declaration regarding the role of the MPE as the RPE
in the hospital environment has been approved by postal ballot

EFOMP DECLARATION

of 6th of June 2015

**regarding the role of the Medical Physics Expert as the Radiation Protection Expert in the Hospital
Environment**

The European Federation for Organisations of
Medical Physics (EFOMP),

Having regard to the Treaty establishing the
European Community,

Having regard to the Council Directive
2013/59/Euratom laying down basic safety
standards for protection against the dangers arising
from exposure to ionising radiation, and repealing
Directives 89/618/Euratom, 90/641/Euratom,
96/29/Euratom, 97/43/Euratom and
2003/122/Euratom and in particular its articles 4 (49)
& (73), 82 and 83

Having regard to the EC Radiation Protection Report
174 "Guidelines on Medical Physics Expert,

Whereas:

1. Considering definition (49) of Article 4 of
Directive 2013/59/Euratom of **Medical Physics
Expert**: means an individual or, if provided for

requirements, in respect of occupational and
public exposure.

2. The advice of the radiation protection expert
shall cover, where relevant, but not be
limited to, the following:
 - (a) optimisation and establishment of
appropriate dose constraints;
 - (b) plans for new installations and the
acceptance into service of new or
modified radiation sources in relation to
any engineering controls, design
features, safety features and warning
devices relevant to radiation protection;
 - (c) categorisation of controlled and
supervised areas;
 - (d) classification of workers;
 - (e) workplace and individual monitoring
programmes and related personal
dosimetry;

EFOMP CONSTITUTION

Comments by the NMOs: Received
Council approval: OK



Constitution of the European Federation of Organisations for Medical Physics

*Approved by Postal Ballot June 1998,
Amended at the Council Meeting, Patras, 1999
Amended at the Council Meeting, Krakow, 2008
Amended at the Council Meeting, Munich, 2009
Amended by Council vote, June 2010
Amended at the Council meeting, Marburg, 2015*

Preamble

1. In most European countries there are National Organisations **for Medical Physics that:**
 - a. ~~in which have members whose~~ principal defined category ~~of members~~ are persons: -qualified with a University degree or equivalent in physics, mathematics, computing sciences, physical chemistry, mechanical, electrical or electronic engineering and other appropriate natural sciences, and working in alliance with medical staff in hospitals, universities or research Institutes, and
 - b. ~~which~~ carry the responsibility of guiding and supporting the professional character of the work of their members and encouraging and promulgating **the application of the principles of physics to their practices and scientific work aiming at better diagnostic and therapeutic results and the safety of patients, workers and members of the public.**

Their activities and field of work will be described in this document by the comprehensive expression: Medical Physics.
2. These National Organisations believe that their activities will be strengthened and made more effective by ~~bringing about~~ **establishing** and maintaining **a** systematic exchange of professional and scientific information, and by the formulation of common policies on the responsibilities and roles of their members and on training programmes, etc.
3. For these reasons the EUROPEAN FEDERATION OF ORGANISATIONS FOR MEDICAL PHYSICS was set up in May 1980 in London.
4. **On the 22nd January 2008 the EUROPEAN FEDERATION OF ORGANISATIONS FOR MEDICAL PHYSICS became a Company Limited by Guarantee registered in England and Wales (Registered Number 6480149).**

POLICY STATEMENT 7.1

Comments by the NMOs: Received
Council approval: February 2016



EFOMP Policy Statement

The European Federation of Organisations for Medical Physics. Policy Statement No. 7.1: The roles, responsibilities and status of the medical physicist including the criteria for the staffing levels in a Medical Physics Department approved by EFOMP Council on 5th February 2016 ☆



EFOMP Staffing Levles calculator - Microsoft Excel

Menus Κεντρική Εισαγωγή Διάταξη σελίδας Τύποι Δεδομένα Αναθεώρηση Προβολή Πρόσθετα Acrobat

All Αρχείο Επεξεργασία Προβολή Εισαγωγή Μορφή Εργαλεία Δεδομένα Παράθυρο Βοήθεια

Calibri 11

Toolbars

C14

	A	B	C	D	E	F	G	H	I	J	K	L
1	Medical Physicists Staffing Factors for Nuclear medicine											
2												
3												
4	SUBJECT	MP (WTE)	Numbers	MP (WTE)								
5	EQUIPMENT DEPENDENT FACTORS PER ITEM											
6	Planar Gamma Camera	0,02										
7	Multi-head SPECT/CT Gamma Camera – Tc-99m only	0,05										
8	Multi-head SPECT/CT Gamma Camera - range of radionuclides,	0,1										
9	PET/CT	0,1										
10	Minor items	0,01										
11	PATIENT DEPENDENT FACTORS											
12	Procedures with no data processing (per 3 different procedure types)	0,005										
13	Procedures with data processing or tomographic reconstruction (per 100 procedures)	0,01										
14	PET/CT imaging procedures (per 100 procedures)	0,02										
15	Outpatient radionuclide therapy (e.g. 131-Iodide thyrotoxicosis) (per 50 procedures)	0,01										
16	Simple inpatient radionuclide therapy (e.g. 131-Iodide for ca. thyroid) (per 10 procedures)	0,005										
17	Complex radionuclide therapy (e.g. 131-mIBG, 177Lu, 90Y) (per 10 procedures)	0,07										
18			TOTAL	0								
19												
20												
21	Notes											
22	a. Minor items include: Workstations, automatic gamma counters, radionuclide calibrators, network IT support and equivalent											
23	b. The factor for procedures with no data processing assumes that the medical physicist is involved in continuing optimization (i.e. at a frequency of one day per year for each procedure). Where the frequency is different the numbers must be adjusted accordingly.											
24	c. The factors for procedures with data processing assume the medical physicist has an active (i.e. weekly) role in the initial introduction, setup and continuing QC - optimization/validation of procedures, user training, and documentation. Where the frequency is different, or if only partial checks are carried out, the numbers must be adjusted accordingly.											
25	d. Adequate provision must be made to cover for absences.											
26	e. Imaging procedures involving data processing include renograms; tomographic reconstruction includes SPECT, SPECT/CT.											
27	f. Cyclotrons need to be considered separately.											
28	g. The manufacture of radiopharmaceuticals will need to be identified separately.											
29	For a list of frequently asked questions visit the EFOMP web site (www.efomp.eu)											
	EFOMP	RT	NM	DR	RP	RTNM DEPT	DR DEPT					
	Ετοιμο											

POLICY STATEMENTS PS 10.1 & PS 6.1

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EFOMP Policy Statement

The European Federation of Organisations for Medical Physics Policy Statement No. 10.1: Recommended Guidelines on National Schemes for Continuing Professional Development of Medical Physicists ¹



Physica Medica 32 (2016) 1–6



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EFOMP Policy Statement

The European Federation of Organisations for Medical Physics Policy Statement No. 6.1: Recommended Guidelines on National Registration Schemes for Medical Physicists ☆



Medal and Honorary Membership

EFOMP has created two awards:

- * The EFOMP Medal
Recognizing an individual's outstanding and internationally acknowledged contribution to the advancement of Medical Physics
- * EFOMP Honorary Membership
Recognizing an individual who through his/her career has contributed to advancements in research, education and training or organizational affairs and professional activities in Medical Physics in Europe.

Nominations for these awards are requested alternatively every year

RECOGNISING INDIVIDUALS

Medal and Honorary Membership

Honorary membership: Y. Lemoigne, September 2015,
Council Meeting, Marburg

Medal: G. Borasi, September 2016,
ECMP, Athens

RECOGNISING INDIVIDUALS