

PLENARY SESSION IV Stakeholders' point of view:

5 Key issues for developing a RPCM: Radiologists



Peter Vock, Switzerland European Society of Radiology – International Society of Radiology









1. Leadership commitment (top down)

By calling radiation protection a priority of the **hospital / radiological institute**, the leadership tells the whole workforce:

- That RP is part of the duties of all staff members
- That RP similar to teaching or research is as important as those activities that are directly payed for, and that it will receive the needed material and personal resources

Professional organizations do not have the power to impose the new culture. Nonetheless, their suggestions have a strong supporting effect. Several **campaigns** have been launched by inter-professional alliances: Image Gently, Image Wisely, Choose Wisely, EuroSafe Imaging, recently AfroSafe, CanadaSafe, and more campaigns are starting (Latin America, Japan).













EUROSAFE



IAEA-WHO, Bonn

- 1: Justification
- 2: Optimization
- 3: Manufacturers' role
- 4: Education + Training
- 5: Strategic Research Agenda
- 6: Information on Medical Expo.
- 7: Prevention of radiation Incidents
- 8: Safety culture
- 9: Foster Benefit Risk Dialogue
- 10: global implementation of Safety
 requirements

EuroSafe Imaging

- 1: Clinical Decision Support (1)
- 2: Clinical audit (1,2,4,8)
- 3: PiDRL project, data collection, (2) image quality
- 4: Equipment update policy (2,3)
- 5: Cooperation with COCIR (3)
- 6: E-courses, education projects (4)
- 7: MELODI research platform (5)
- 8: Data collection surveys (6)
- 9: Safety procedures for exams (7)
- 10: Comm., Website, newsletters (8)
- 11: ESR Patient Advisory Group (9)
- 12: Network of campaigns (10)

ACTION CALL ITEMS

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2. RP as an integral part of everyday professional life (bottom up)



- Clinical audits provide an internal and external analysis of this workflow
- EC RP 159 Guidelines on clinical audit for medical radiological practices, 2009
- **ESR Essential Audit Templates**, prepared by the ESR Audit and Standards Subcom. at Departmental level and at team/individual level









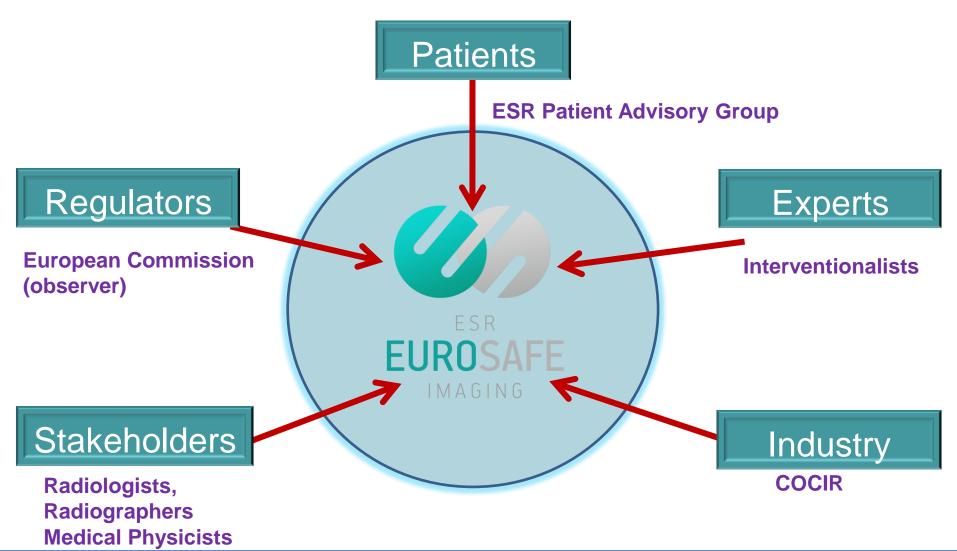
- **3. Cooperation among all actors:** Join forces:
- in departments: radiologists + radiographers + medical physicists (team approach)
- with referrers (consensus guidelines, decision support)
- with patients (patient empowerment)
- with regulators
- with industry
- with international RP bodies: ICRP, IAEA, WHO
- \rightarrow brings mutual recognition, adds innovative potential

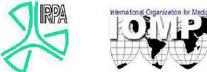






EUROSAFE IMAGING Steering Committee members











Task Justification Partners, project group ESR iGuide project group

Examination definition

subspecialties' societies

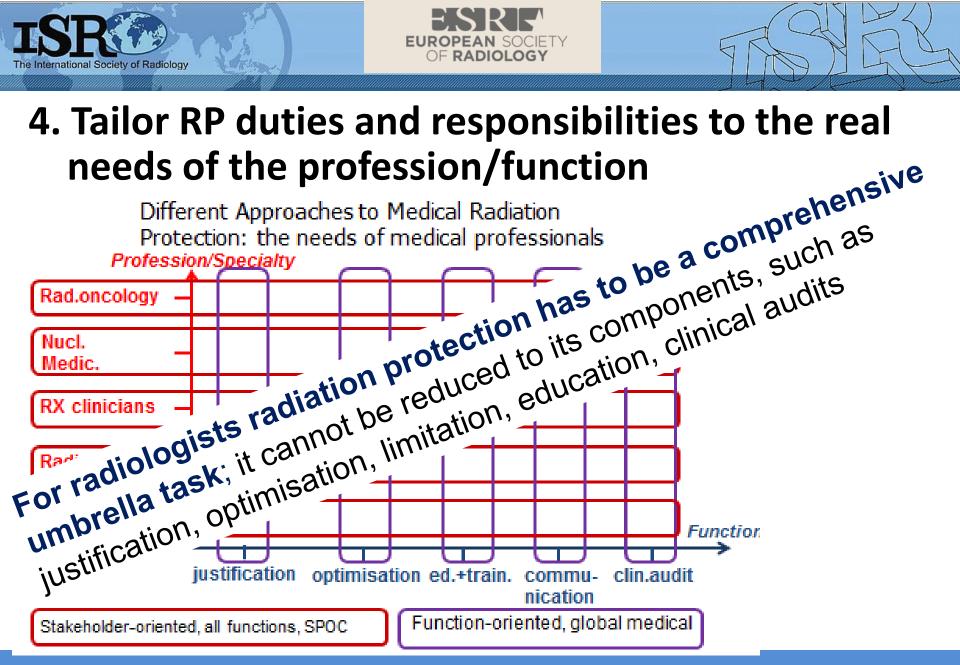
Appropriate quality def.

subspecialties' societies modality experts

Exam.protocol definition subspecialties' societies modality experts, medical physicists, radiographers

Indication-specific DRLs ICRP, PiDRL project: methodology subspecialties' soc., modality exp.

medical physicists, radiographers









2nd Regional IRPA-IOMP-WHO Workshop on Radiological Protection Culture in Medicine





EDUCATION + TRAINING AS CONTRIBUTORS TO RP CULTURE (MEDRAPET GUIDANCE)

- General introduction and medical profession-specific chapters
- 20 Core RP topics
- Each profession: learning outcomes as Knowledge Skills-Competences according to EQF
- Level of RP education: radiologists' entry requirement: EQF level 7 through CPD activities \rightarrow level 8 (most advanced)

Model for uniform definition of learning objectives of different medical professions









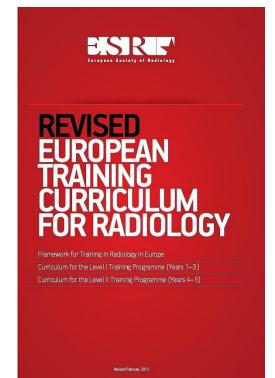
2nd Regional IRPA-IOMP-WHO Workshop on **Radiological Protection Culture in Medicine** Geneva, 30 November – 2 December 2015

MEDRAPET-Core-RP-Topics¤ Atomic Structure, X-ray production and interaction of radiations 2¤ Nuclear structure and radioactivity» 3¤ Radiological quantities and units Physical characteristics of X-ray-systems® Fundamentals of radiation detection Fundamentals of radiobiology, biological effects of radiation Risks of cancer and hereditary disease and effective dosex Risks of deterministic effectsa General principles of RPa 10¤ Operational-RP¤ 11¤ Particular patient RP aspects¤ 12¤ Particular-staff-RP-aspectsa 13¤ Typical-doses-from-diagnostic-procedures¤ 14¤ Risks from foetal exposure to ionizing radiation 15¤ QC and QA in RP¤





ESR Training Curriculum: RP Educ. + Training



LEVEL II TRAINING PROGRAMME (YEARS 4-5)

B-II: Subspecialties (1/several) deepening of Level I programme

CME: life-long contuous medical education

B. EUROPEAN TRAINING CURRICULUM LEVEL I TRAINING PROGRAMME (YEARS 1–3)

- B-I-1 Breast Radiology
- B-I-2 Cardiac and Vascular Radiology
- B-I-3 Chest Radiology
- B-I-4 Gastrointestinal and Abdominal Radiology
- B-I-5 Gynaecological and Obstetric Radiology
- B-I-6 Head and Neck Radiology
- B-I-7 Interventional Radiology
- B-I-8 Musculoskeletal Radiology
- **B-I-9** Neuroradiology
- **B-I-10** Paediatric Radiology
- B-I-11 Urogenital Radiology
- B-I-12 Nuclear Medicine as Basic Training

same KSC Table

- B-I-13 Radiation Protection Education and Training
- B-I-14 Principles of Imaging Technology & Molecular Imaging
- B-I-15 Communication and Management
- B-I-16 Research and Evidence-Based Medicine



5. Communicate transparently: within department, with professionals, with patients

The complex cooperation in radiology between all stakeholders does not succeed unless communication is specifically addressed

Communication must be adapted to the understanding level of all partners involved. E.g., patients cannot be empowered to give informed consent if they do not understand the risk-benefit arguments discussed before justification











PLENARY SESSION IV: Stakeholders' point of view CONCLUSION: RADIOLOGISTS

5 Key issues for establishing and maintaining RPCM		Comments
1	Leadership commitment (top down)	professional organizations department chair/hospital director
2	Make RP an integral part of everyday professional life (bottom up)	RP during work, not interrupting workflow (internal clinical audit)
3	Cooperation among all actors : in depart- ment, referrers, regulators, industry	Team approach: Radiologists – Radio- graphers – Medical Physicists
4	Tailor RP duties and responsibilities to the needs of the profession/function	people get interested and prowd
5	Communicate within department, with other professionals, and with patients	justification (benefit-risk assessm.), opti- mization, education+training transparentbenefit
	World Health F	nd Regional IRPA-IOMP-WHO Workshop on Radiological Protection Culture in Medicine Geneva, 30 November – 2 December 2015