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Location of the Conference:

International Atomic Energy Agency
Vienna International Centre (VIC)
Plenary, M-Building, First Floor
Wagramer Strasse 5
1400 Vienna, Austria
Tel: +43 1 2600 0

Working Language: English

Resolutions: No resolutions may be submitted for consideration on any subject; no votes will be taken.

MOBILE CONFERENCE APPLICATION

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- interact with other participants using the App;
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Please provide us with your feedback using the evaluation form available on the App.

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TIMETABLE

Monday, 11 December 2017

| | |
|-------------|---|
| 08:00–10:00 | Registration |
| 10:00–11:00 | Opening Session |
| 11:00–12:20 | Briefing Session |
| 12:20–14:00 | <i>Lunch Break</i> |
| 12:20–13:00 | Poster viewing |
| 14:00–16:30 | SESSION 1: Justification in the use of radiation in medical imaging |
| 16:30–17:00 | <i>Coffee Break</i> |
| 17:00–18:00 | Roundtable A: How are we strengthening radiation safety culture in healthcare? |
| 18:00 | Welcome Drinks M building, ground floor |

Tuesday, 12 December 2017

| | |
|-------------|---|
| 09:00–10:25 | SESSION 2: Radiation protection of patients and staff in diagnostic radiography, fluoroscopy and CT |
| 10:25–11:00 | <i>Coffee Break</i> |
| 11:00–12:00 | SESSION 2 (continued) |
| 12:00–14:00 | <i>Lunch Break</i> |
| 12:10–13:10 | EC Breakout Session: Advancement of radiological protection in medicine through regulation and guidance: The European experience |
| 14:00–16:30 | SESSION 3: Radiation protection of patients and staff in radiotherapy including brachytherapy |
| 16:30–17:00 | <i>Coffee Break</i> |
| 17:00–18:00 | Roundtable B: How are we meeting radiation protection challenges in design and implementation of new technologies? |

Wednesday, 13 December 2017

- 09:00–10:25 **SESSION 4:**
Radiation protection of patients, staff and the public in diagnostic and therapeutic nuclear medicine and hybrid imaging
- 10:25–11:00 *Coffee Break*
- 11:00–12:00 **SESSION 4 (continued)**
- 12:00–14:00 *Lunch Break*
- 12:10–13:10 **UNSCEAR Breakout Session:**
UNSCEAR's global surveys on radiation exposure: Implementation of action 6 of the Bonn Call for Action
- 14:00–16:30 **SESSION 5:**
Radiation protection in medical exposures of children and pregnant women
- 16:30–17:00 *Coffee Break*
- 17:00–18:00 **Roundtable C:**
How are we fostering and improving the radiation benefit/risk dialogue?

Thursday, 14 December 2017

- 09:00–10:25 **SESSION 6:**
Radiation protection of patients and staff in interventional procedures
- 10:25–11:00 *Coffee Break*
- 11:00–12:00 **SESSION 6 (continued)**
- 12:00–14:00 *Lunch Break*
- 12:10–13:10 **ISR Breakout Session:**
Regional and national quality and safety campaigns driven by professional organisations: Bonn Call for Action turned into practice
- 14:00–16:30 **SESSION 7:**
Learning from unintended and accidental exposures in medicine
- 16:30–17:00 *Coffee Break*
- 17:00–18:00 **Roundtable D:**
How are we meeting challenges in patient dose recording, tracking and data management?

Friday, 15 December 2017

- 09:00–10:30 **SESSION 8:**
Radiation protection in mammography, dental and maxillofacial imaging and other diagnostic modalities
- 10:30–11:00 *Coffee Break*
- 11:00–12:45 **Final Session:**
Mobilizing for Future Effective Work
- 12:50–13:40 **Conference Closing**

MONDAY, 11 DECEMBER 2017

08:00–10:00 Registration

10:00–11:00 OPENING SESSION

Chair: **P. Johnston, IAEA**
Opening Addresses

10:00 **J.C. Lentijo, IAEA**
Deputy Director General, Head of
Department of Nuclear Safety and
Security

10:07 **M. Neira, WHO**
Director of the Department of Public
Health, Environmental and Social
Determinants of Health

10:14 **P. Jiménez, PAHO**
Regional Advisor in Radiological
Health
Conference President's Address

10:21 **G. S. Ibbott, USA**
Keynote Address

10:28 **M. Rehani, USA**
Radiation protection in medicine:
Achievements and outlook

11:00–12:20 BRIEFING SESSION

Chair: **O. Holmberg, IAEA**

11:00 The Bonn Call for Action – A joint position
statement by the IAEA and the WHO

11:05 Short briefing on activities and priorities
influenced by the Bonn Call for Action

IAEA
WHO
PAHO
AAPM
ACR
CRCPD
EC
EFOMP
ESR
ESTRO
Image Gently
IOMP
ISR
ISRRT
UNSCEAR

12:20–14:00 *Lunch Break*

12:20–13:00 **Poster viewing**
M01 Poster area

MONDAY, 11 DECEMBER 2017

| | |
|--------------------|--|
| 14:00–16:30 | SESSION 1: <i>Justification in the use of radiation in medical imaging</i> |
| Chairs: | J. Malone, Ireland M. Bettmann, ACR |
| | Introduction of the Topic: |
| 14:00 | J. Malone, Ireland |
| | Topical Presentations: |
| 14:10 | S. E. Jung, Republic of Korea Successful implementation of justification in the Republic of Korea |
| 14:35 | D. Remedios, United Kingdom Practical implementation of criteria for appropriate imaging in symptomatic and asymptomatic individuals |
| 15:00 | G. McGinty, ACR Clinical decision support: Past, present and future |
| | Summary of Contributed Papers: |
| 15:25 | R. Mendelson, Australia |
| 15:50 | Discussion |
| <hr/> | |
| 16:30–17:00 | <i>Coffee Break</i> |

| | |
|--------------------|---|
| 17:00–18:00 | ROUNDTABLE A: <i>How are we strengthening radiation safety culture in healthcare?</i> |
| Chairs: | S. Ebdon-Jackson, United Kingdom M. Perez, WHO |
| | Introduction of the Topic: |
| 17:00 | S. Ebdon-Jackson, United Kingdom |
| | Summary of Contributed Papers: |
| 17:10 | M. Perez, WHO |
| | Statements: |
| 17:15 | J. Hirsch, USA Radiation safety culture in organizations' safety culture |
| 17:20 | J. Alsuwaidi, United Arab Emirates Radiation safety culture experience from UAE and the Middle East |
| 17:25 | G. Paulo, Portugal Strengthening radiation safety culture in healthcare at ground level |
| 17:30 | Discussion |
| <hr/> | |
| 18:00 | <i>Welcome Drinks, M building, Ground Floor</i> |

TUESDAY, 12 DECEMBER 2017

09:00–10:25 **SESSION 2:**
Radiation protection of patients and staff in diagnostic radiography, fluoroscopy and CT

Chairs: **C. Martin, United Kingdom**
 J. Vassileva, IAEA

Introduction of the Topic:

09:00 **C. Martin, United Kingdom**

Topical Presentations:

09:10 **D. Husseiny, Egypt**
 Successful establishment and use of national DRLs in Egypt

09:35 **E. Samei, USA**
 Diagnostic information and dose: Creating a balance

10:00 **S. Digumarthy, USA**
 From highest dose to lowest dose in CT

10:25–11:00 *Coffee Break*

11:00–12:00 **SESSION 2 (cont'd)**
Summary of Contributed Papers:

11:00 **A. Nader, Uruguay**

11:25 **Discussion**

12:00–14:00 *Lunch Break*

12:10–13:10 **EC Breakout Session:**
Advancement of radiological protection in medicine through regulation and guidance: The European experience

Chair: **G. O'Reilly, Ireland**

12:10 **M. Hübel, European Commission**
 The Euratom legal basis for radiation protection of patients and the implementation status of the "European BSS Directive" 2013/59/Euratom, European Commissio

12:22 **S. Ebdon-Jackson, United Kingdom**
 Implementation of the "European BSS Directive" 2013/59/Euratom into the national regulatory systems: Challenges and opportunities – HERCA Working Group on Medical Applications

12:34 **Panel discussion**
 Participants:
N. Denjoy, Belgium – COCIR
G.Tosi, Italy – EANM
J. Damilakis, Greece – EFOMP
G. Paulo, Portugal – EFRS
G. Frija, France – ESR
M. Coffey, Ireland – ESTRO
A. Isambert, France – HERCA

Closing remarks
M. Hübel, European Commission

Rapporteur: **G. Simeonov, European Commission**

TUESDAY, 12 DECEMBER 2017

14:00–16:30 **SESSION 3:**

Radiation protection of patients and staff in radiotherapy including brachytherapy

Chairs:

T. Knöös, Sweden

D. van der Merwe, IAEA

Introduction of the Topic:

14:00

T. Knöös, Sweden

Topical Presentations:

14:10

J. L. Rodriguez Perez, Chile

Issues and good examples of safe practice in radiotherapy in different resource settings

14:35

T. S. Suh, IOMP

Impact of new treatment technology on patient radiation protection in radiotherapy (including brachytherapy)

15:00

G.S. Ibbott, USA

Appropriate and safe use of imaging in radiotherapy

Summary of Contributed Papers:

15:25

E. Gershkevitch, Estonia

16:00

Discussion

16:30–17:00

Coffee Break

17:00–18:00 **ROUNDTABLE B:**

How are we meeting radiation protection challenges in design and implementation of new technologies?

Chairs:

J. Bushberg, USA

A. Schreiner, Luxembourg

Introduction of the Topic:

17:00

J. Bushberg, USA

Summary of Contributed Papers:

17:10

A. Schreiner, Luxembourg

Statements:

17:15

W. Mayo-Smith, ACR

The end-users' perspective

17:20

N. Denjoy, Belgium

The manufacturers' perspective

17:25

J. Griebel, Germany

The regulatory authorities' perspective

17:30

Discussion

WEDNESDAY, 13 DECEMBER 2017

09:00–10:25 **SESSION 4:**
Radiation protection of patients, staff and the public in diagnostic and therapeutic nuclear medicine and hybrid imaging

Chairs: **S. Mattsson, Sweden**
 A. Krisanachinda, Thailand

Introduction of the Topic:

09:00 **S. Mattsson, Sweden**
 Topical Presentations:

09:10 **M. Hosono, Japan**
 Impact of new technology on patient radiation protection in nuclear medicine-including hybrid systems, low dose PET

09:35 **S. Leide - Svegborn, Sweden and S Mattsson, Sweden**
 Impact of new radiopharmaceuticals on patient and staff radiation protection in diagnostic and therapeutic nuclear medicine

10:00 **M. Brambilla, EFOMP**
 Personalized dosimetry in diagnostic and therapeutic nuclear medicine

10:25–11:00 *Coffee Break*

11:00–12:00 **SESSION 4 (cont'd)**
Summary of Contributed Papers:

11:00 **D. Newman, ISRR**

11:25 **Discussion**

12:00–14:00 *Lunch Break*

12:10–13:10 **UNSCEAR Breakout Session:**
UNSCEAR's global surveys on radiation exposure: Implementation of action 6 of the Bonn Call for Action

Chairs: **M. Waligórski, UNSCEAR**
 G. Ibbott, USA

12:10 **M. Waligórski, UNSCEAR**

Opening remarks

12:15 **F. Shannoun, UNSCEAR**

A. Jahnen, UNSCEAR

UNSCEAR's global surveys on radiation exposure – including practical information for national contact persons

12:35 **Panel discussion** with national contact persons on problems with medical data collection on a national level

Participants:

M. Ermacora, Argentina

P. Thomas, Australia

L. V. Sá, Brazil

K. Petrova, Czech Republic

H. Järvinen, Finland

A. Keiichi, Japan

E. Nekolla, UNSCEAR

D. Kluszezynski, Poland

J. Alsuwaidi, United Arab Emirates

M. Mahesh, AAPM

13:05 **G. Ibbott, USA**

Closing remarks

Rapporteur: **F. Shannoun, UNSCEAR**

WEDNESDAY, 13 DECEMBER 2017

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| 14:00–16:30 | SESSION 5: <i>Radiation protection in medical exposures of children and pregnant women</i> |
| Chairs: | K. Applegate, ICRP E. Sorantin, Austria |
| | Introduction of the Topic: |
| 14:00 | K. Applegate, ICRP |
| | Topical Presentations: |
| 14:10 | E. Attalla, Egypt Radiation protection issues in paediatric radiotherapy in practice |
| 14:35 | J. Damilakis, EFOMP How safe are x-ray imaging and nuclear medicine in pregnancy? |
| 15:00 | D. Frush, Image Gently What more can we do to make children safer in x-ray imaging and nuclear medicine? |
| | Summary of Contributed Papers: |
| 15:25 | N. Pongnapang, Thailand |
| 15:50 | Discussion |
| <hr/> | |
| 16:30–17:00 | <i>Coffee Break</i> |

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| 17:00–18:00 | ROUNDTABLE C: <i>How are we fostering and improving the radiation benefit/risk dialogue?</i> |
| Chairs: | M. Mahesh, AAPM R. Kanda, Japan |
| | Introduction of the Topic: |
| 17:00 | M. Mahesh, AAPM |
| | Summary of Contributed Papers: |
| 17:10 | R. Kanda, Japan |
| | Statements: |
| 17:15 | R. Wolf, Switzerland Improving dialogue about benefits and risks in different situations |
| 17:20 | A. Shogren, USA Tools for supporting radiation benefit/risk dialogue in medical settings |
| 17:25 | M. Murphy, Ireland Do patients care about radiation risk? |
| 17:30 | Discussion |

THURSDAY, 14 DECEMBER 2017

09:00–10:25 **SESSION 6:**
*Radiation protection of patients and staff
in interventional procedures*

Chairs: **C. Cousins, ICRP**
 D. Miller, USA

Introduction of the Topic:

09:00 **C. Cousins, ICRP**

Topical Presentations:

09:10 **P. Miranda, Chile**

Radiation protection in paediatric
interventional procedures

09:35 **S. Balter, USA**

Risk management of skin injuries in
interventional procedures

10:00 **E. Vañó, Spain**

Occupational radiation risks in interventional
procedures

10:25–11:00 *Coffee Break*

11:00–12:00 **SESSION 6 (cont'd)**

Summary of Contributed Papers:

11:00 **V. Tzapaki, Greece**

11:25 **Discussion**

12:00–14:00 *Lunch Break*

12:10–13:10 **ISR Breakout Session:**
*Regional and national quality and
safety campaigns driven by
professional organisation: Bonn Call
for Action turned into practice*

Chairs: **G. Frija, ESR**
 D. Frush, Image Gently
 M. Perez, WHO

12:10 **L. Donoso, ISR**

ISR and its Quality and Safety Alliance

12:15 **D. Hussein, Egypt**

Achieving justification in a low and
middle-income country: Example of
Egypt by ArabSafe

12:23 **G. Frija, ESR**

Optimisation: A new concept for
diagnostic reference levels developed by
EuroSafe Imaging

12:31 **B. Mansouri, Algeria**

Importance of medical equipment
quality for patient safety: Situation in
North Africa by F-AFROSAFE

M. Kawooya, ISR

Situation in East Africa by E-AFROSAFE

E. H. Niang, ISR

Situation in West Africa

12:46 **D. Frush, Image Gently**

Imaging for children - good practices by
Image Gently

12:54 **R.A. Mendonça, ISR**

Challenges and opportunities for
implementing efficient radiation
protection in Latin America by
LATINSAFE

13:02 **Discussion**

THURSDAY, 14 DECEMBER 2017

14:00–16:30 **SESSION 7:**
Learning from unintended and accidental exposures in medicine

Chairs: **A. Isambert, France**
 D. Gilley, IAEA

Introduction of the Topic:

14:00 **A. Isambert, France**

Topical Presentations:

14:10 **U. Findlay, United Kingdom**

Using incident learning systems to prevent medical radiation incidents and accidents

14:35 **R. Loose, Germany**

Avoidance of incidents in radiological procedures

15:00 **G. Frija, ESR**

What can non-radiotherapy users learn from radiotherapy?

Summary of Contributed Papers:

15:25 **M. Coffey, Ireland**

15:50 **Discussion**

16:30–17:00 *Coffee Break*

THURSDAY, 14 DECEMBER 2017

17:00–18:00 **ROUNDTABLE D:**

How are we meeting challenges in patient dose recording, tracking and data management?

Chairs: **M. Rehani, USA**
 A. M. Rojo, Argentina

Introduction of the Topic:

17:00 **M. Rehani, USA**

Summary of Contributed Papers:

17:10 **A. M. Rojo, Argentina**

Statements:

17:15 **Z. Musa, Malaysia**

Radiologists' and referrers' perspective

17:20 **H. Järvinen, Finland**

Experience with tracking of patient exposures and doses and current developments

17:25 **A. Aavik, Estonia**

Should tracking of individual dose be introduced in policy making?

17:30 **Discussion**

FRIDAY, 15 DECEMBER 2017

| | | | |
|--------------------|---|-------------|--|
| 09:00–10:30 | SESSION 8: <i>Radiation protection in mammography, dental and maxillofacial imaging and other diagnostic modalities</i> | 11:15 | B. Le Guen, IRPA Perspective from IRPA |
| Chairs: | B. Mansouri, Algeria K. Horner, United Kingdom | 11:20 | O. Luxenburg, Israel Perspective from three Member States/1 |
| | Introduction of the Topic: | 11:25 | Z. Musa, Malaysia Perspective from three Member States/2 |
| 09:00 | B. Mansouri, Algeria | 11:30 | R. de la Mora, Cuba Perspective from three Member States/3 |
| | Topical Presentations: | 11:35 | Discussion |
| 09:10 | H. Bosmans, Belgium Have we improved benefit/risk in breast imaging? | 12:05 | E. Vañó, Spain Findings from the CIPRaM Iberoamerican Conference on radiation protection in medicine on the implementation of the Bonn Call for Action |
| 09:35 | R. Pauwels, Belgium How has dental cone beam CT impacted dental imaging practice and patient doses? | 12:25 | C. Cousins, ICRP Policy directions in radiation protection in medicine |
| | Summary of Contributed Papers: | 12:50–13:40 | CONFERENCE CLOSING |
| 10:00 | O. Ciraj, Serbia | 12:50 | M. Rehani, USA A summary of conclusions from sessions and roundtables of the Conference |
| 10:15 | Discussion | 13:15 | G. Ibbott, USA Overall remarks on the Conference |
| 10:30–11:00 | <i>Coffee Break</i> | 13:30 | Closing Remarks |
| <hr/> | | | |
| 11:00–12:45 | FINAL SESSION: <i>Mobilizing for Future Effective Work</i> | | |
| Chairs: | M. Pinak, IAEA P. Jiménez, PAHO Mobilizing regulatory support of radiation protection and safety in medicine | | |
| | Statements: | | |
| 11:00 | A. M. Larcher, Argentina Perspective from FORO | | |
| 11:05 | L. R. Bruedigan, CRCPD Perspective from CRCPD | | |
| 11:10 | S. Ebdon-Jackson, United Kingdom Perspective from HERCA | | |

ESPACE – TIMETABLE

Tuesday

- 10:25-11:00 Safety in Radiation Oncology (SAFRON): 5-year celebration
- 16:30-17:00 WHO - Imaging asymptomatic people: are we really doing more good than harm?

Wednesday

- 10:25-11:00 SEVRRRA and SEVRRRA-SAFRON
- 16:30-17:00 RPOP online channels: up-to-date information about radiation protection of patients

Thursday

- 10:25-11:00 ISEMIR: Information System in Interventional Cardiology
- 16:30-17:00 SAFRAD: Safety in Radiological Procedures

LIST OF CONTRIBUTED FULL PAPERS

All contributed full papers are available on the conference app.

Posters will be displayed outside the Conference room throughout the duration of the Conference. Poster authors are invited to be at their posters for discussion during coffee and lunch breaks.

| Main Author | Designating Member State | Title of Paper |
|--|--------------------------|---|
| Session 1: Justification in the use of radiation in medical imaging | | |
| Friberg, E.G. | Norway | HERCA European Action Week – Results of a Coordinated Inspection Initiative Assessing Justification in Radiology |
| Karoussou-Schreiner, A. | Luxembourg | National Audit on the Adequate Completion of Medical Imaging Request Forms in Luxembourg |
| Khan, S. | United Kingdom | Justification in Practice, Is it Working? A Medical Physicist's View |
| Mansouri, B. | Algeria | Medical Imaging and Radiation Protection in Algeria: Challenges and Perspectives |
| Olerud, H. M. | Norway | The Role of Radiographers as Gatekeepers in the Justification Process – Project Initiative and Possible Impact |
| Papírník, P. | Czech Republic | Audits of Justification in Radiodiagnostics – Experience from HERCA Campaign on Inspection of Justification in Radiodiagnostics in the Czech Republic |
| Pitcher, R. D. | South Africa | The Impact of Real-Time Electronic Justification of Digital Imaging Requests |
| Reed, M. H. | Canada | Clinical Imaging Referral Guidelines: Where Are We Now? |

| Main Author | Designating Member State | Title of Paper |
|-------------|--------------------------|----------------|
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**Session 2:
Radiation Protection in Diagnostic Radiology**

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|------------------|------------------------|--|
| Adambounou, K. | Togo | Evaluation of the Implementation of Radioprotection Measures for Workers in Radiology Services in Togo |
| Akpochafor, M. | Nigeria | Estimation of Patient Organ Dose from CT Examinations Using the IMPACT CT Patient Dosimetry Calculator |
| Baptista, M. | Portugal | Radiation Risk and Organ Dose Assessment during Cone Beam CT Procedures in Image Guided Radiation Therapy |
| Beganovic, A. | Bosnia and Herzegovina | Organization of Data Collection and Establishment of Diagnostic Reference Levels in Bosnia and Herzegovina |
| Campos, L. T. | Brazil | A Monte Carlo Method to Generate Energy Spectra and Filtration for a Multi-Detector Computed Tomography |
| Ciraj-Bjelac, O. | Serbia | An Overview of EURADOS Working Group 12 Activities on Patient Dosimetry in Medical Imaging |

| Main Author | Designating Member State | Title of Paper |
|-------------|--------------------------|----------------|
|-------------|--------------------------|----------------|

| | | |
|------------------------|-----------|--|
| Daeng Beta, W. P. | Indonesia | Assessment of Worker Radiation Doses at CT-Scan Diagnostic Facilities: A Case Study of Radiation Dose of Workers at Hospital A, B, C, and D in Indonesia |
| Garba, I. | Nigeria | National Survey of Computed Tomography Radiation Doses in Nigeria |
| Grigonienė, V. | Lithuania | National Survey: Patient Dose in Computer Tomography in Lithuania and Application of National DRLs |
| Gudjonsdottir, J. | Iceland | Operator Eye Lens Doses in CT Fluoroscopy-Guided Procedures |
| Gyekye, P.K. | Ghana | Monte Carlo Studies into Staff Dose: Lead Drape and Patient Cover Use during Computed Tomography Fluoroscopy Procedures |
| Jauhari, A. | Indonesia | Design of Exposure Factors by Applying Optimum kV Techniques in Computer Radiography Systems as Efforts to Minimize Exposure Dosage |
| Jimenez Gonzalez, J.M. | Spain | Patient Dose Reduction in Chest and Lumbar Spine X-Ray Projections |
| Koff, D. A. | Canada | Canada Safe Imaging: Implementing a Radiation Safety Campaign in Canada |

| Main Author | Designating Member State | Title of Paper |
|------------------------------------|---------------------------|--|
| Lawal, S. | Nigeria | Radiation Protection: An Initial Assessment of Level of Compliance amongst Radiation Workers in Ahmadu Bello University Teaching Hospital Zaria, Nigeria |
| Lopez Gonzales, A. H. | Brazil | Evaluation Of Conversion Coefficients Relating Air-Kerma to H*(10) Using Primary, Secondary And Transmitted X-Ray Spectra in the Diagnostic Radiology Energy Range |
| Mathew, D. | United Arab Emirates | Evaluation of Collimation in Chest Imaging and Associated Dose Impact |
| Mirsaidov, U. | Republic of Tajikistan | Radiation Protection of the Tajikistan Population during the Diagnostic Irradiation |
| Mogaadi, M. | Tunisia | Establishment of CT Local Diagnostic Reference Levels in some Tunisian Sites |
| Nasab, S. M., Niksirat Sustani, F. | Iran, Islamic Republic of | Establishment of Computed Tomography Angiography National Diagnostic Reference Level in Iran |
| Otoo, F. | Ghana | Assessment of Occupational Exposure in Medical Facilities in Ghana |

| Main Author | Designating Member State | Title of Paper |
|-------------------|--------------------------|--|
| Papadomarkaki, E. | Greece | Challenges in the Radiation Dose Management of the Medical Staff: 5 Years (2012-2016) Using a New Software Tool for the Control Of Doses Above the Investigation Level |
| Petcu, M. - I. | Romania | Justification and Optimization in Diagnostic Radiology. Overview of Romanian Issues |
| Petrova, K. | Czech Republic | The Evaluation of Medical Exposures in the Czech Republic |
| Pornobi, A. L. | Philippines | Comparison of Effective Dose Received by Adult Patients who Underwent Chest CT Scan Using Either 64- or 256-Multislice CT (MSCT) in St. Luke's Medical Center – QC |
| Salas, L. | Colombia | Estimation of Absorbed Radiation Dose by TLD on Patients during Procedures of Digital Radiography at Fundación Valle del Lili |
| Schegerer, A. A. | Germany | Status and Perspectives of the DRL Concept. Update of the German DRL for Medical X-Ray Procedures |
| Siangsanan, P. | Thailand | The Eye Lens Doses (Hp(3)) Assessment Using OSL Dosimeters |

| Main Author | Designating Member State | Title of Paper |
|-----------------|--------------------------|--|
| Sidibé, S. | Mali | Comparative Study of Patient Dose and Standard Dose at CT Scanner in Mali |
| Thunberg, S. J. | Sweden | Web Based Tool for Update of Diagnostic Reference Levels and a Support for Optimization |
| Tinnagorn, D. | Thailand | Establishment of Diagnostic Reference Levels (DRLs) for Commonly Performed CTs in Thai Cancer Hospitals |
| Toutaoui, N. | Algeria | Adult Patient Doses in Computed Tomography Examinations in Three Regions of Algeria: Preliminary Results to Establish National DRLs |
| Trindade, H. | Portugal | Intraoral Exposures in Portugal - from 1990 to 2017 |
| Uniyal, S. | India | Measurement of Dose Area Product Received by Adult Patients Undergoing Digital Radiography Examinations in Uttarakhand, India and Establishment of Local Diagnostic Reference Levels |

| Other Contributions: | |
|--|--|
| Main Author | Title of Paper |
| Bruedigan, L. R. CRCPD, USA | Computed Tomography Challenges in the United States |
| Butler, P. F. AAPM, USA | ACR Diagnostic Reference Levels and Achievable Doses for Medical Imaging in the US |
| Elee, J. G., Bruedigan, L. R. CRCPD, USA | U.S. Tracks Diagnostic X-Ray Doses and Practices through Surveys of Facilities Nationwide |
| Frija, G. ESR | MEDIRAD - Implications of Medical Low Dose Radiation Exposure |
| Frija, G. ESR | ESR EuroSafe Imaging - Together for Patient Safety |
| Issa, A. Palestine | Evaluation of Patient Dose & Associated Risk from Chest Radiography in the West Bank–Palestine |

| Main Author | Designating Member State/ Organization | Title of Paper |
|-------------|---|----------------|
|-------------|---|----------------|

**Session 3:
Radiation Protection in Radiotherapy**

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|-------------|-------|---|
| Abaza, A. | Egypt | Radiotherapy Induced Cataract among Childhood Cancer Survivors; Incidence and Protection |
| Bokulic, T. | IAEA | IAEA/WHO Postal Dose Quality Audits for Radiotherapy: Reasons for Errors in Clinical Dosimetry |
| Busoni, S. | Italy | Post-Operative Radiation Protection of People in Ru-106 Brachytherapy Ophthalmic Plaque Surgery |

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| Can, S. | Turkey | Shielding Design Assessment to Provide Radiation Protection against Neutron Dose for 18 MV Linear Accelerator in Radiation Therapy Unit. |
| Cuevas Arizaca, E. E. | Brazil | Radiation Detectors of Green Quartz for Dosimetry |
| Duhaini, I. | Lebanon | Out-of-Field Radiation Organ Dose Measurements and Associated Secondary Cancer Risk Estimation in Patients Treated with Breast Cancer in Lebanon |
| Farah, A. B. | Sudan | Evaluation of Prostate Cancer Treatment Planning Using 3 Dimension Conformal Radiotherapy (3DCRT) and Volumetric Modulated Arc Therapy (VMAT) |
| Gonzales, C. D. | Brazil | Production of Synthetic Crystal of Casio3 and Its Application in Low-Dose Dosimetry Radiation |
| Haghighi, R. R. | Iran | Simple and Inexpensive Electron Density Phantom to Calibrate Treatment Planning Systems |
| Jain, G. K. | India | Assessment of Acute Reactions as Radiation Protection Tool for Patients Treated with Radiotherapy |

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| Kim, H. I. | Korea, Republic of | Report on the Status of Quality Assurance of Radiotherapy and Related Regulatory Activities in Korea |
| Knežević, Z. | Croatia | Secondary Radiation Dose Measurements in Scanning Proton Radiotherapy: Overview of the Activity within EURADOS WG9 (SG2) |
| Kunwar, A. | India | Development of a Radioprotector for Radiation-Induced Pneumonitis in Mice Model |
| Lachos, A. | Peru | Dosimetric Comparison of Scattered Radiation Between 3DRT and VMAT in Cranispinal Irradiation |
| Majer, M. | Croatia | Out-of-Field Dose Measurements for Radiotherapy Treatments of Paediatric Brain Tumour Using Different Techniques (3D CRT, IMRT and Gamma Knife) |
| Mayer González, A. | México | Retrospective Analysis of Dose, for Organs at Risk in 3D Image-Based Treatment Planning in Cervix Cancer for HDR Brachytherapy, in Hospital Regional de Alta Especialidad de Ixtapaluca (HRAEI) patients |

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| Murat, H. | Malaysia | The Application of Dose Calculation Algorithms Model: Convolution, Superposition, And Fast Superposition in 3-Dimensional Conformal Radiotherapy |
| Oyekunle, E. O. | Nigeria | Comparative Assessment of Dose and Time Parameters in 2D Brachytherapy Involving Two Radioactive Sources |
| Padilha, C. M. L. | Brazil | Study of Cytopathological Actinic Effects in Patients Submitted to Radiotherapy of Cancer of the Uterine Cervix at the National Institute of Cancer / INCA, Rio de Janeiro, Brazil |
| Piatkevich, M. | Belarus | Radiation Monitoring System Design for the Stereotactic Linear Electron Accelerator Truebeam STX in the N.N. Alexandrov National Cancer Center of Belarus |
| Salata, C. | Brazil | Doses Assessments in Mazeless Radiotherapy Rooms |
| Sergieva, K. | Bulgaria | Trends in Radiation Protection of Patients in Modern Radiotherapy |
| Stadnyk, L. L. | Ukraine | Current State of Dosimetry Providing of Radiotherapy in Ukraine and IAEA Contribution to Its Improvement: The Results of National Survey and IAEA TLD-Audit of Dose Calibration Quality |

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| Wibowo, W. E. | Indonesia | Study: A Year Evaluation Of Radiation Leakage At Linac Room Using Radiochromic Film |
| Session 4: Radiation Protection in Nuclear Medicine | | |
| Al-Hajj, A. N. | Saudi Arabia | An Analysis on Staff Eye Lens Doses of Selected Occupational Categories at a Large Medical Center in Saudi Arabia |
| Ali, J. | Pakistan | Practical Internal Dosimetry in Radioactive Iodine-131 Therapy in a Newly Established Hospital: Challenges and Obstacles |
| Al-Maskari, I. N. | Sultanate of Oman | Moving from Weight Adjusted 18F-FDG Dose to Body Mass Index (BMI) Adjusted Dose in Relation to Radiation Protection |
| Amador Balbona, Z. H. | Cuba | Risk Analysis in Therapeutic Nuclear Medicine |
| Avramova-Cholakova, S. | Bulgaria | Second National Survey Of Patient Doses From PET/CT Examinations In Bulgaria |
| Ayan, A. | Turkey | Residual Dose Rates After Radioactive Iodine -131 Treatment In The Day Of Hospital Discharge |
| Beganović, A. | Bosnia and Herzegovina | Iodine-131 Therapy: 3-Year Experience in Radiation Protection |

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| Benavides, C. K. P. | Mexico | Estimation of Existing Structural Shielding to Provide Radiation Protection for Iodine-131 Therapeutic Room | Lahfi, Y. | Syria | Assessment of Radiation Dose Nearby Patient Administrated with 123I for Thyroid Scintigraphy |
| Bendib, A. | Algeria | Output Dose Rate Impact on Radioiodine Treated Patient-Accompanist in East Algeria | Limam, K. | Tunisia | Iodine 131 Staff Contamination in Nuclear Medicine Department |
| Bendib, A. | Algeria | Radioiodine Hospitalization Duration at the Nuclear Medicine Department Constantine Algeria | Mahmoud, A. S. | Sudan | Radioactive Iodine -131 Therapy for Hyperthyroidism |
| Bondar, B. M. | Ukraine | Precautions and Dose Estimations for Staff Involved in PET-CT Technology with 18F-FDG | Niksirat Sustani, F. | Iran, Islamic Republic of | Local-Reference Patient Dose Estimation in Routine Nuclear Medicine Procedures in Mazandaran, Iran |
| Charoen-phun, P. | Thailand | Safety for m131IBG Treatment with Peristaltic Infusion Pump Procedure. | Paula, V. M., Sá, L. V. | Brazil | Modeling Quantum Platform for Internal Audits in MN to Comply Brazilian Regulations |
| Du Toit, M. | South-Africa | Careful Planning Can Reduce PET-CT Room Shielding | Piwowarska-Bilska, H. | Poland | Three Month Eyes Radiation Exposure Monitoring of Nuclear Medicine Department Personnel |
| Gunalp, B. | Turkey | Important Role of CZT Ultrafast Cardiac Camera on Reducing Radiation Exposure in Myocardial Perfusion Imaging. | Rafaye, M. A. | Pakistan | Estimation of Radiation Doses Received by Nuclear Medicine Staff from 18F-FDG Dispensing |
| Hamza, Y. | Sudan | Measurement of Occupational Exposure During Bone Scintigraphy | Sakafu, L. | Tanzania | Quality Management Audit in Nuclear Medicine Practices at Ocean Road Cancer Institute, Tanzania |
| Hidayati, N. R. | Indonesia | Internal Dosimetry Assessment in Indonesia: Replying the Bonn Call for Action for Organ Dose Assessment | Santana, P. C. | Brazil | Whole-Body 18F-FDG PET-CT with CT Low Dose Scanning: Radiation Levels for Oncologic Diagnosis |
| Kracmerova, T. | Czech Republic | Comparison of Staff's Radiation Exposure – Liquid vs. Capsule 131I | | | |

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| Skovorodko, K., Griciene, B. | Lithuania | Assessment of Exposure and Setting of Local Diagnostic Reference Levels for Nuclear Medicine Procedures at Vilnius University Hospital Santaros Klinikos |
| Suttho, D. | Thailand | Estimate Annual Radiation Dose to Staff per Nuclear Medicine Examination |
| Tandon, P. | India | Radiation Dose from Nuclear Medicine Patients to a Nuclear Medicine Technologist: Relation to ICRP Recommendation for Pregnant Workers |
| Teran Gretter, M. A. | Uruguay | Image Quantification for Dosimetry Evaluation in Therapy: Uruguay Intercomparison Results |
| Titovich, E. | Belarus | Radiation Protection during FDG Quality Control Procedures in the N. N. Alexandrov National Cancer Centre of Belarus |

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| Toutaoui, A. | Algeria | Radiation Safety Design and Organisation of the First Cyclotron-PET facility in Algeria |
| Velasquez, M. | Peru | Prototype Manufacture of a Radioactive Biphasic Mixture for Extrinsic Correction Evaluation Maps in SPECT Gamma Cameras |
| Yeong, C. H. | Malaysia | Lead-Free Protective Drape for Radiation Exposure Reduction in Post-Yttrium-90 Radioembolization Patients: A Pilot Study |
| Zvonova, I. A. | Russian Federation | Trends on Medical Exposure and Radiation Protection in Diagnostic Nuclear Medicine in Russia |
| Session 5: Radiation Protection of Children | | |
| Abaza, A. | Egypt | Review Article on: Radiation Protection of Computed Tomography (CT) in Pediatrics |
| Al-Haj, A. N. | Saudi Arabia | Deriving Age-Specific Diagnostic Reference Level (DRL) for Pediatric CT Procedures in Saudi Arabia: An Approach to Dose Optimization |
| Alkhorayef, M. | Saudi Arabia | Evaluation of Pediatric Radiation Dose in Computed Tomography in Saudi Arabia |

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| Bandong, I. S. | Philippines | Absorbed Dose Received by Pediatric Patients who Underwent Fluoroscopy Guided Upper Gastrointestinal Series at St. Luke's Medical Center - Quezon City |
| Bernardo, M. | Brazil | Campaign and Educational Strategies that Reduce Children's Excessive Exposure to Radiological Exams |
| Bouaoun, A. | Tunisia | Radiation Exposure during Paediatric Head CT in Tunisia: CT Dose, Organ and Effective Doses |
| Costa, P. R. | Brazil | Evaluation and Optimization of Organ Doses in Paediatric CT Examinations |
| Inkoom, S. | Ghana | Thoracic MDCT Scans in Children: Should Automatic Exposure Control be Abandoned? |
| Janbaba-nezhad, A. | Iran, Islamic Republic of | Reference Dose for Pediatric Computed Tomography in Northern Iran |
| Kalnitskiy, S. | Russian Federation | Justification and Optimization in Pediatric Radiography |
| Laulate, H. | Brazil | Secondary Lung Cancer Risk in Pediatric Patients Treated for Hodgkin's Lymphoma with 3D Conformational Radiotherapy |

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| Leide-Svegborn, S. | Sweden | Technetium-99m in Breast Milk after a Nuclear Medicine Examination of a Breastfeeding Patient – Dosimetry and Recommendations |
| Machado, S. O. | Brazil | Comparison of Dose-Area Product in Infants during Barium Meal Procedures |
| Mansouri, F. | Algeria | Paediatric Radiation Protection through DMSA 99mTc Administrated Activity Study at Nuclear Medicine Department Constantine, Algeria |
| Milatovic, A. | Montenegro | Patient Doses in Head CT Examinations in Montenegro: Initial Results |
| Reed, M. | Canada | Reducing the Radiation Dose from Diagnostic Imaging in Children: What Can One Department Do? |
| Rodrigues, S. | Brazil | Dissemination of the Radiation Protection Program for Children to a Brazilian System of Healthcare Cooperatives |
| Shatskii, I. | Russian Federation | Comparison of Assessments of Radiation Risks for Radiographic X - Ray Examination of Children |
| Simo, A. | Cameroon | Accidental Exposure of Foetus during Imaging of Pregnant Patient at the Gynaeco Obstetric and Paediatric Hospital of Douala, Cameroon |

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| Subrahmanian Potty, B. | United Arab Emirates | Patient Dose Monitoring and DRLs for Pediatric Fluoroscopic Procedures at Latifa Women & Children Hospital/Dubai Health Authority/United Arab Emirates |
| Toutaoui, A. | Algeria | Estimation of Radiation Dose from 18F-FDG PET-CT Used in Staging and Follow-Up of Lymphoma in Pediatric and Young Adult Patients |
| Worrall, M. | United Kingdom | Estimating Patient Thickness from a Single Radiograph - Proof of Principle |

Session 6:

Radiation Protection in Interventional Procedures

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| Abdelrazig, A. | Sudan | Evaluation of Patient Radiation Dose during Percutaneous Coronary Intervention in Sudan |
| Boon, S. N. | Netherlands | Optimizing Fluoro-Guided Interventions by Patient and Staff Exposure Tracking in Context |
| Boujemaa, S. | Morocco | Preliminary Survey of Patient Exposure during Interventional Cardiology Procedures in Morocco |
| Chougule, A. | India | Retrospective Analysis of Radiation Protection in Interventional Cardiology for Proposing Eye Lens Dosimetry |

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| Ciraj Bjelac, O. | Serbia | Eye Lens Monitoring in Interventional Cardiology and Radiology Procedures: Our Experience |
| Fernandez-Soto, J. M. | Spain | Impact of advanced technology and postprocessing Reducing patient doses in interventional cardiology |
| Fernandez-Soto, J. M. | Spain | Using an automatic patient dose monitoring system to optimize interventional procedures |
| Gangl, A. | Austria | Quantification of Scattered Radiation Exposure to Medical Staff in the Cath Lab within Pelvic Vascular Interventions |
| Ginjaume, M. | Spain | Occupational Dosimetry in Medical Imaging: Overview of the Activities within EURADOS WG12 |
| O'Connor, U. | Ireland | Occupational Eye Doses in an Irish Hospital Setting. A Six-Year Study in Advance of the Reduced Eye Dose Limit |
| Pamidighantam, S. | India | Improving the Radiation Safety during Interventional Radiological Procedures – Is Treatment Planning a Possible Solution? |
| Principi, S. | Spain | Eye Lens Equivalent Dose Hp(3) in IC/IR: Relation with Hp(0.07) and KAP. |

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| Rizk, C. | Lebanon | A Pilot-Study of Patient Doses in Interventional Cardiology Suits in Lebanon |
| Sanchez, R. M. | Spain | Benefits of managing patient and staff doses together in interventional radiology |
| Schlichte, R. T. | Germany | Measuring Instrument for Energy and Angle Distribution of Typical Medical Radiation Fields |
| Ubeda, C. | Chile | Results and Future Perspectives of Radiological Protection in Pediatric Interventional Cardiology for Chile |
| Vañó, E. | Spain | Using real time skin dose maps to optimize interventional procedures |
| Zagorska, A. R. | Bulgaria | Eye Lens Dosimetry, A Tool For Radiation Practice Improvement in a Urology Department |

**Session 7:
Learning from Accidents**

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| Belay, E. Y. | South Africa | Risk Analysis Based On Occurrence And Severity Of Incidents From An Institutional Incident Learning System |
| Dowling, A. | Ireland | Learning Outcomes From Radiation Incidents In Hospital And Dental Settings (4 Case Studies) |

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| Dumenigo, C. | Cuba | Latin America In The Prevention Of Accidents In Radiotherapy. Use Of The Risk Matrices Methodology |
| Isambert, A. | France | Experience Feedback From Event, Reporting And Learning In Radiotherapy - How To Share Experience? The French Experience |
| Liukkonen, J. | Finland | Temporal Distribution Of Abnormal Events |
| Murray, M. | United Kingdom | Learning From Ionising Radiation Dose Errors, Adverse Events & Near Misses In Uk Clinical Imaging Departments |
| Portaluri M. | Italy | Voluntary Reporting Of Errors In Radiotherapy Errors Collection In Radiotherapy |
| Ramirez, M. L. | Spain | The Marr Project, Involvement Of The Regulatory Body With The Stakeholders: An Approach To Raise "Awareness" And Improve Of Patient Safety In Radiotherapy |
| Rodriguez, L. V. | Philippines | Rewards And Challenges In Promoting Radiation Treatment Error Reporting Culture-A Single Institution Experience |

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Session 8:

Radiation Protection in Mammography

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| Mourão, A. P. | Brazil | Development Of A Compressed Dense Breast Phantom For Tests In Mammography |
| Phelan, N. | Ireland | Shielding Design Requirements For A Digital Breast Tomosynthesis (DBT) System On A Mobile Screening Unit |
| Sabek, E. | Egypt | Pathological Behaviour Of Bilateral, Multifocal And Multicentric Synchronous Egyptian Breast Cancer As Detected By Preoperative Ultrasound And Its Relation To Breast Density |
| Sosu, E. | Ghana | Towards Establishing Diagnostic Reference Levels In Mammography Practice: Preliminary Results Based On Phantom Studies In Ghana |
| Sosu, E. | Ghana | Mammography Dose Audit In Ghana: Results Of A Phantom Studies |

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Roundtable A.

How are we strengthening radiation safety culture in healthcare?

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| Al Remeithi, A. | United Arab Emirates | Implementation And Compliance Level Of Fanr Radiation Safety Regulations In Medicine For The International Conference On Radiation Protection In Medicine |
| Alsuwaidi, J. S. | United Arab Emirates | Radiation Awareness At UAE During The National Declaration: The Year Of Giving Strengthening Radiation Safety Culture In Healthcare At Ground Level |
| Berčík, Č. | Czech Republic | Identified Issues Of Implementing New Legislation Into Practice In Czech Republic |
| De Four, S. O. | Trinidad And Tobago | Development Of A Radiation Protection Culture In Trinidad And Tobago |
| Dhingra, V. K. | India | Perception And Awareness Regarding Radiation Amongst Medical Trainees In A Tertiary Care Centre Setting In The Hilly State Of Uttarakhand In India |
| Duhaini, I. | Lebanon | Radiation Safety Training In Medicine In The Middle East |

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| Lavin, D. | Ireland | Radiation Safety Concerns Arising From Electrical Safety Issues Observed With X-Ray Equipment During Routine Medical Physics Inspections |
| Mikhail, M. N. | Switzerland | Current Epidemiologic Trends Further Heighten The Need For Greater Implementation Of Radiation Protection |
| Moran, B. | Ireland | Using A Patient Radiation Protection Manual As A Framework For External Healthcare Audit In Facilities Using Medical Ionising Radiation A Practical Example Of Achieving Change |
| Nadareishvili, D. | Georgia | Ways Of Implementation Of Scientific And Educational Issues Of Patient's And Personnel's Radiation Protection In Georgia In The Light Of Bonn Call For Action |
| Padilha Filho, L. G. | Brazil | Pilot Project For Implementation Of The National Commission For Radioprotection And Dosimetry Of The Center |

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| Rae, W., Mongane, M. S. | South Africa | How Research Can Impact Radiation Safety Culture In South African Catheterisation Laboratories |
| Riyono, B. | Indonesia | Strengthening Radiation Safety Culture In Healthcare Facility Using Web Based Inspection (Balis Inlara) |
| De Sousa, M. C. | Portugal | Radiation Protection And Safety At Portuguese Institute Of Oncology Of Coimbra – 15 Years Of Experience |
| Thomas, P. D. | Australia | Australian Initiatives In Radiation Protection Of The Patient And Medical Occupational Radiation Safety Training The Australian Radiation Protection And Nuclear Safety Agency's Radiation Protection Of The Patient (Rpop) And Radiation Protection Of Medical Personnel (Rpomp) Projects |

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| Titovich, E. | Belarus | Continuous Professional Education For The Radiation Protection In Medicine Professionals In The N. N. Alexandrov National Cancer Centre Of Belarus |
| Wilkins, H. B. | United Kingdom | Navigating Differing Cultural And Ethical Frameworks During Organizational Change A Challenge For Radiation Protection Experts |

Roundtable B.

How are we meeting radiation protection challenges in design and implementation of new technologies?

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| Hisham Kamal El Din Ali | Egypt | Radiation Exposure In Cryoballoon Ablation Compared To Catheter Ablation With 3d-Electroanatomic Mapping In Af Patients |
| Gallagher, A. | Ireland | Shielding Challenges For A Dual-Room Sliding |
| Gomaa, R. I. | Egypt | The Art Of Remote Sensing For Nuclear Medicine |
| Hernández Álvarez, R. | Cuba | Cuban Experiences In The Implementation Of New Medical Technologies: Actions and Challenges |

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| Dos Reis, J. P. | Brazil | Total Workload For Radioactive Facilities With Volumetric Modulated Arc Treatment. |
| Samba, R. N. | Cameroon | Challenges In Regulating Radiotherapy Facilities And Activities To Respect Radiation Protection Requirements |

Roundtable C.

How are we fostering and improving the radiation benefit/risk dialogue?

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| Cano, R. | Peru | Fostering Physician Patient Dialogue To Understand Perceptions And Myths Concerning Radiation Protection In Radioiodine Treatment (Rit) For Thyroid Cancer |
| Shelly, E. | Israel | Harnessing Biodosimetry For Personalized Medicine Identify Radiation-Sensitive Population Using Biological Dosimetry Methods |
| Walsh, C. | Ireland | An Argument Against The Use Of The Term "Dose Reduction" |

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Roundtable D.

How are we meeting challenges in patient dose recording, tracking and data management?

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| Borrás, C. | USA | Radiation Dose Tracking From X-Ray Procedures: Where Are We And Where Should We Be? |
| De Las Heras Gala, H. | Germany | A Website To Calculate Incident Air Kerma In CT And CBCT: A Change In Practice For Quality Control And Patient Dosimetry |
| Heary, T. | Ireland | 3 Years Experience Of Using Patient Dose Tracking Software In Two Busy Interventional Cardiology Laboratories |
| Lee, C. H. | Korea, Republic of | Efficiency Of Dose Monitoring Software: Ct Protocol Management And Raised Awareness Between Radiology Technicians For Reduced Radiation Exposure |
| Suryanti, R. | Indonesia | Challenges In The Implementation Of Information Technology On The Dose Patient Data Recording Online In Indonesia |
| Thomas, P. D. | Australia | Australia's National Diagnostic Reference Level Service |

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| Tosi, G. | Italy | Measuring, Monitoring, And Reporting Effective Dose On An Hybrid Equipment: One Year Results And Challenges To Integrate With MDCT |
| Sá, L. V. | Brazil | Medical Exposures In Brazil: Experience And Baselines |
| Vodovatov, A. V. | Russian Federation | Estimation Of Conversion Coefficients From Dose-Area Product To Effective Dose For Barium Meal Examinations For Adult Patients |

AGENCY PUBLICATIONS RELATED TO THE SUBJECT OF THE CONFERENCE

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| | | STI/PUB/1531 | IAEA Safety Standards Series No. GSR Part 3 (Interim): Radiation Protection and Safety of Radiation Sources: International Basic Safety Standards - Interim Edition. General Safety Requirements Part 3 |
| STI/PUB/1683 | IAEA Human Health Series No 33 Quality Management Audits in Nuclear Medicine Practices | | |
| STI/PUB/1663 | Radiation Protection in Medicine: Setting the Scene for the Next Decade, Proceedings of an International Conference, Bonn, 3–7 December 2012 | STI/PUB/1462 | IAEA Human Health Series No. 14: Planning National Radiotherapy Services: A Practical Tool |
| STI/PUB/1610 | IAEA Human Health Series No 25 Roles and responsibilities, and Education and Training Requirements for Clinically Qualified Medical Physicists for Paediatric Patients | STI/PUB/1457 | IAEA Human Health Series No. 11: Planning a Clinical PET Centre |
| STI/PUB/1609 | IAEA Human Health Series No 24 Dosimetry in Diagnostic Radiology for Paediatric Patients | STI/PUB/1417 | Safety Reports Series No. 63: Release of Patients After Radionuclide Therapy |
| STI/PUB/1557 | IAEA Human Health Series No 19: Quality Assurance Programme for Computed Tomography: Diagnostic and Therapy Applications | STI/PUB/1394 | IAEA Human Health Series No. 6: Quality Assurance for SPECT Systems |
| STI/PUB/1566 | IAEA Human Health Series No. 23: Nuclear Cardiology: Guidance and Recommendations for Implementation in Developing Countries | STI/PUB/1393 | IAEA Human Health Series No. 1: Quality Assurance for PET and PET/CT Systems |
| STI/PUB/1543 | Safety Reports Series No 71: Radiation Protection in Paediatric Radiology | STI/PUB/1381 | IAEA Human Health Series No. 2: Quality Assurance Programme for Screen-film Mammography |
| STI/PUB/1532 | Proceedings Series – International Atomic Energy Agency: Justification of Medical Exposures in Diagnostic Imaging, Proceedings of an International Workshop held in Brussels, Belgium, 2–4 September 2009. | STI/PUB/1367 | Safety Reports Series No. 61: Radiation Protection in Newer Medical Imaging Techniques: CT Colonography |
| | | STI/PUB/1366 | Safety Reports Series No. 60: Radiation Protection in Newer Medical Imaging Techniques: Cardiac CT |
| | | STI/PUB/1346 | Safety Reports Series No. 59: Establishing Guidance Levels in X Ray Guided Medical Interventional Procedures: A Pilot Study |

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| STI/PUB/1343 | Safety Reports Series No. 58: Radiation Protection in Newer Medical Imaging Techniques: PET/CT | STI/PUB/1113 | Proceedings Series - International Atomic Energy Agency: Radiological Protection of Patients in Diagnostic and Interventional Radiology, Nuclear Medicine and Radiotherapy Proceedings of an International Conference held in Málaga, Spain, 26-30 March 2001. A CD-ROM of contributed papers is included. |
| STI/PUB/1296 | Non-serial Publications: Setting up a Radiotherapy Programme: Clinical, Medical Physics, Radiation Protection and Safety Aspects | STI/PUB/1108 | IAEA Safety Standards Series No. RS-G-1.4: Building Competence in Radiation Protection and the Safe Use of Radiation Sources – Safety Guide |
| STI/PUB/1223 | Safety Reports Series No. 47: Radiation Protection in the Design of Radiotherapy Facilities | STI/PUB/1107 | Safety Reports Series No. 20: Training in Radiation Protection and the Safe Use of Radiation Sources |
| STI/PUB/1207 | Safety Reports Series No. 40: Applying Radiation Safety Standards in Nuclear Medicine | STI/PUB/1084 | Safety Reports Series No. 17: Lessons Learned from Accidental Exposures in Radiotherapy |
| STI/PUB/1206 | Safety Reports Series No. 39: Applying Radiation Safety Standards in Diagnostic Radiology and Interventional Procedures Using X Rays | STI/PUB/1040 | Safety Reports Series No. 2: Diagnosis and Treatment of Radiation Injuries |
| STI/PUB/1205 | Safety Reports Series No. 38: Applying Radiation Safety Standards in Radiotherapy | STI/PUB/1027 | Non-serial Publications ::Accidental Overexposure of Radiotherapy Patients in San José, Costa Rica |
| STI/PUB/1180 | Non-serial Publications: Accidental Overexposure of Radiotherapy Patients in Bialystok | IAEA-TECDOC-1731 | IAEA TECDOC No. 1731: Implications for Occupational Radiation Protection of the New Dose Limit for the Lens of the Eye |
| STI/PUB/1117 | IAEA Safety Standards Series No. RS-G-1.5: Radiological Protection for Medical Exposure to Ionizing Radiation - Safety Guide | IAEA-TECDOC-1667 | IAEA TECDOC No. 1667: Avoidance of Unnecessary Dose to Patients While Transitioning from Analogue to Digital Radiology |
| STI/PUB/1114 | Non-serial Publications: Investigation of an Accidental Exposure of Radiotherapy Patients in Panama | | |

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| IAEA- TECDOC- 1641 | IAEA TECDOC No. 1641: Patient Dose Optimization in Fluoroscopically Guided Interventional Procedures |
| IAEA- TECDOC- 1621 | IAEA TECDOC No. 1621: Dose Reduction in CT while Maintaining Diagnostic Confidence: A Feasibility/Demonstration Study |
| IAEA- TECDOC- 1488 | IAEA TECDOC No. 1488: Radiological Protection Issues in Endovascular Use of Radiation Sources |

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2018

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International Symposium on Uranium Raw Material for the Nuclear Fuel Cycle: Exploration, Mining, Production, Supply and Demand, Economics and Environmental Issues (URAM-2018) (CN-261), 25–29 June; Vienna Austria

FAO/IAEA International Symposium on Plant Mutation Breeding and Biotechnology (CN-263), 27–31 August; Vienna, Austria

International Symposium on Communicating Nuclear and Radiological Emergencies to the Public (CN-265), 1–5 October; Vienna, Austria

International Conference on the Challenges Faced by Technical and Scientific Support Organizations (TSOs) in Enhancing Nuclear Safety and Security (CN-266), 15–18 October; Brussels, Belgium

27th IAEA Fusion Energy Conference (FEC 2018) (CN-258), 22–27 October; Ahmedabad, India

Symposium on International Safeguards (CN-267), 5–9 November; Vienna, Austria

Ministerial Conference on Nuclear Science and Technology: Addressing Current and Emerging Development Challenges (CN-262), 28–30 November; Vienna, Austria

International Conference on Global Radioactive Material Security Governance: Prevention and Detection in Action (CN-269), 3–7 December, Vienna, Austria

International Symposium on Understanding the Double Burden of Malnutrition for Effective Interventions, 10–13 December, Vienna, Austria

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