International Conference on Advances in Radiation Oncology (ICARO-4)

2–5 June 2025

PROGRAMME

(subject to change)

Organized by the
International Atomic Energy Agency (IAEA)

IAEA Headquarters Vienna, Austria

V1_20250523

IAEA Secretariat:

Scientific Secretaries:	Tomoaki Tamaki, NAHU Soha Salem, NAHU Godfrey Azangwe, NAHU
Event Organizer:	Nancy Herter, MTCD
NAHU Scientific and Administrative Support:	Adrian Soto, NAHU Aoife Macknight, NAHU Arjola Musta, NAHU Catalina Acevedo, NAHU Cathrine Mwaba, NAHU Carmen Millan Del Valle, NAHU Dario Sanz, NAHU Elena Fidarova, NAHU Ekaterina Harsdorf, NAHU Graciela Velez, NAHU Jamema Swamidas, NAHU Lisbeth Cordero, NAHU Lokesh Parsa, NAHU Mauro Carrara, NAHU Oleg Belyakov, NAHU Robin Gosejohann, NAHU Ronitta Choudhury, NAHU Rong Liu, NAHU Sandra Ndarukwa, NAHU Shang Cai, NAHU Yavuz Anacak, NAHU

Location of the Event:

International Atomic Energy Agency
Vienna International Centre (VIC)
Building M, BRB/M1
Wagramer Strasse 5
A-1400 Vienna, Austria

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

IAEA Mobile Conference Application

Participants are encouraged to download the “IAEA Conference and Meetings” App available on Google Play and the iTunes Store.

Android **iPhone**

The functions and features of the App for smartphones and tablets will be used for various purposes during the event:

- View an up-to-date programme
- Check floor map of the sessions and exhibitors
- Read abstracts and full papers of speakers
- Participate in voting during sessions
- Raise questions to speakers during session
- Send message to other participants
- Receive announcements via push notification

If you have questions or require assistance on the App, please contact the Registration Desk.

TIMETABLE

Monday, 02 June 2025

Time	Session No.	Session Title / Break	Venue
10:00–11:05		Opening Session	Board Room B/M1
11:05–11:30		From ICARO1 to ICARO4 and beyond	Board Room B/M1
11:30–12:00		Keynote: Access to evidence-based radiotherapy: how to bridge the second translational gap?	Board Room B/M1
12:00–13:00	1	Panel Discussion: Maximizing Impact: Inspire, Lead, and Collaborate for Transformative Advances in Radiation Oncology	Board Room B/M1
13:00–14:15		*Lunch Break*	
14:15–15:15	2A	Transforming Women's Cancer Care: Innovations in Treatment and Life beyond Radiotherapy	Board Room B/M1
	2B	Pediatric Cancers	M3
15:15–16:00		*Coffee/Tea Break*	
	3	Poster Presentations	Poster Area
16:00–16:45	4	Panel Discussion: Women in Radiation Oncology and Leadership Roles: Challenges and Solutions	Board Room B/M1
16:45–17:00		*Break*	
17:00–18:30	5A	Workshop: Reirradiation	Board Room B/M1
	5B	Proffered Papers	M6
18:30–20:30		*Welcome Reception*	M-Building – Ground Floor

Tuesday, 03 June 2025

Time	Session No.	Session Title / Break	Venue
08:30–09:30	6A	Educational session: Updates in Breast Cancer Management	Board Room B/M1
	6B	Educational session: Brachytherapy	M3
	6C	Educational session: Technological Advances in Radiotherapy	M2
	6D	Educational session: SRS Advances for CNS Tumours	M6

Time	Session No.	Session Title / Break	Venue
09:30–10:30	7	Stereotactic Body Radiation Therapy	Board Room B/M1
10:30–11:15		*Coffee/Tea Break*	
	8	Poster Presentations	Poster Area
11:15–12:15	9A	The Role of Imaging in Radiotherapy	Board Room B/M1
	9B	Adaptative Radiotherapy	M3
12:15–13:45		*Lunch Break*	
13:45–14:45	10	Delivering Radiotherapy during Humanitarian Crises	Board Room B/M1
14:45–15:45	11A	Interactions of Radiotherapy and Immunity	Board Room B/M1
	11B	Challenges and Solutions of the Research in LMIC	M3
15:45–16:30		*Coffee/Tea Break*	
	12	Poster Presentations	Poster Area
16:30–18:00	13A	Contouring Workshop: Hypofractionated Radiotherapy for Prostate Cancer	M3
	13B	Contouring Workshop: Pediatric Craniospinal Irradiation	M2
	13C	Proffered Papers	M5
	13D	Proffered Papers	M6
	13E	Proffered Papers	M7

Wednesday, 04 June 2025

Time	Session No.	Session Title / Break	Venue
08:30–09:30	14A	Educational session: Genito-Urinary Cancers	Board Room B/M1
	14B	Educational session: Insight into Current AI-Based Tools in Radiotherapy Medical Physics	M3
	14C	Educational session: Gastro-Intestinal Cancers	M2
	14D	Educational session: Ethical Considerations and Incident Management in Radiotherapy	M5
	14E	Educational session: VMAT Total Body Irradiation	M6
09:30-10:30	15	Technological Advances and Implementational Aspects in Modern Brachytherapy	Board Room B/M1
10:30–11:15		*Coffee/Tea Break*	
	16	Poster Presentation	Poster Area
11:15–12:15	17	Hypofractionation	Board Room B/M1
12:15–13:45		*Lunch Break*	
13:45–14:45	18	Panel Discussion: Bridging Global Gaps in Education and Training-IAEA Resources for Training and Education	Board Room B/M1
14:45–15:45	19A	Theranostics	Board Room B/M1
	19B	Radiobiology	M2
15:45–16:30		*Coffee/Tea Break*	
	20	Poster Presentation	Poster Area
16:30–18:00	21A	Workshop on Research - Rewrite, Respond, Repeat: The Art of Reviewers Communication	Board Room B/M1
	21B	Workshop on Image-Guided Brachytherapy for Cervical Cancer	M3
	21C	Proffered Papers	M6
	21D	Proffered Papers	M7

Thursday, 05 June 2025

Time	Session No.	Session Title / Break	Venue
08:30–09:30	22A	Educational session: Lung Cancer	Board Room B/M1
	22B	Educational session: Head and Neck Cancers	M3
	22C	Educational session: Patient Specific QA	M2
	22D	Proffered Papers	M6
09:30–10:30	23	Particle Therapy	Board Room B/M1
10:30–11:00		*Coffee/Tea Break*	
	24	Poster Presentation	Poster Area
11:00–12:00	25	Spatially Fractionated Radiation Therapy (SFRT)	Board Room B/M1
12:00–12:30	26	Directory of Radiotherapy Centres (DIRAC)	Board Room B/M1
12:30–13:30		*Lunch Break*	
13:30–14:30	27	AI in Radiotherapy	Board Room B/M1
14:30–15:00		Closing Keynote: The Future of Patient Centred Radiotherapy	Board Room B/M1
15:00–15:15		Signing Ceremony	Board Room B/M1
15:15–16:15		Closing/Award Ceremony	Board Room B/M1

Side Events:

Monday, 02 June 2025, 13:00-13:45
Supporting Women in the field of Radiation Oncology: Fostering a culture of Safety, Training and Social Support – Room M3 (1st floor)

Tuesday, 03 June 2025, 12:15-13:15
Precision, Innovation, Synergy: Progress in Radiotherapy and Collaboration with the IAEA – Room M2 (1st floor)

Wednesday, 04 June 2025, 12:15-13:15
Strengthening Radiotherapy Services in LMICs: From Planning to Financing for Sustainable Expansion – Room M6 (Ground floor)

MONDAY, 2 JUNE 2025

10:00-11:05 OPENING SESSION **Board Room B/M1**

Moderator: **M. Abdel-Wahab,** IAEA Director Division of Human Health

Time	Name	Designating Member State/Organization	
10:00–10:05	**N. Mokhtar**	IAEA Deputy Director General, NA	Welcome
10:05–10:12	**R. M. Grossi**	IAEA Director General	Opening Address
10:12–10:20	**HE Mr M. B. Haidar**	Minister of Labor of Lebanon	Opening Remarks
		Opening Panel Discussion	
10:20–11:00	**HE Ms J. Villatoro**	Ambassador and Resident Representative of El Salvador to the IAEA	
	V. Kavadi	ASTRO	
	A. Cortese	ESTRO	
	I. Chitapanarux	FARO	
	A. Kaindl	Varian	
	H. Nehme	Elekta	
	J. M. Bothy	IBA	
11:00–11:05	**T. Tamaki**	IAEA Section Head, Applied Radiation Biology and Radiotherapy	Remarks

OVERVIEW **Board Room B/M1**

Moderator: **T. Tamaki, IAEA**

Time	Name	Designating Member State/Organization	
11:05–11:30	**M. Abdel-Wahab**	IAEA	From ICARO1 to ICARO4 and beyond
	T. Tamaki	IAEA	

OPENING KEYNOTE **Board Room B/M1**

Moderator: **E. Fidarova,** IAEA

Time	Name		
11:30–12:00	**Y. Lievens**	Belgium	Access to evidence-based radiotherapy: how to bridge the second translational gap?

12:00–13:00 **SESSION 1-PANEL DISCUSSION: Maximizing Impact: Inspire, Lead, and Collaborate for Transformative Advances in Radiation Oncology** **Board Room B/M1**

Chairpersons: **E. Fidarova,** IAEA
A. Polo, Spain

	Name	
	A. Rosa	Brazil
	I. Chitapanarux	Thailand
	K. Lishimpi	Zambia
	K. Schmeler	United States of America
	Y. Anacak	IAEA

13:00–14:15	*Lunch Break*

13:00–13:45 **SIDE EVENT:** **M3**
Supporting Women in the field of Radiation Oncology: Fostering a culture of Safety, Training and Social Support

Speakers:

14:15–15:15 Session 2A: Board Room B/M1
Transforming Women's Cancer Care: Innovations in Treatment and Life beyond Radiotherapy

Chairpersons: S. Gondhowiardjo, Indonesia
D. Martinez, Colombia

Time	Name		
14:15–14:35	**P. Poortmans**	Belgium	Optimizing patient care: Hypofractionation in breast cancer in Low- and Middle-income countries: Implementation and challenges
14:35–14:55	**U. Mahantshetty**	India	Changing the Landscape of the Management of Cervical Cancer
14:55–15:10	**A. Klopp**	United States of America	Effective Strategies for Managing Radiotherapy Side Effects in Female Cancers
15:10–15:15		*Q&A*	

14:15–15:15 Session 2B: M3
Updates in Pediatric Cancers

Chairpersons: N. Esiashvili, United States of America
S. Salem, IAEA

Time	Name		
14:15–14:30	**M. Zaghloul**	Egypt	What`s new in Wilms Tumor Management
14:30–14:45	**J. Lucas**	United States of America	Risk Adapted Radiotherapy in Rhabdomyosarcomas
14:45–15:00	**T. Merchant**	United States of America	Clinical challenges in Childhood ependymoma
15:00–15:15		*Discussion and Q&A*	
15:15–16:00		*Coffee/Tea Break*	

15:15–16:00 **Session 3: Poster Presentations** **Poster Area**

Monitor No.	Paper No.	Author(s) [presenting author in bold]	Designating Member State/Organization	Title of Paper
1	487	**H. Y. Tan**	Malaysia	Ensuring safe radiation practices: conducting audits in the radiotherapy and oncology departments
1	511	**F. Gning**	Senegal	IMRT and VMAT patient's pre-treatment quality assurance using electronic portal imaging device (EPID) dosimetry
1	488	**Y. A. C. Fiagan**	Togo	First report of the clinical use of an Octavius 4D measuring system for patient-specific VMAT quality assurance
1	738	**M. Marques**	Portugal	Configuration of an offline protocol verification for adaptive radiotherapy
1	454	**M. Aljohani**	Saudi Arabia	Incident learning systems in radiation therapy
1	305	**F. Mvoufo**	Cameroon	Implementation of quality assurance programme for in-vivo entrance dose measurements with gafchromic external beam therapy-3 films dosimeters in breast irradiation using theratron equinox-100 cobalt-60 teletherapy machine at Douala General Hospital in Cameroon
1	314	**A. Dumitrache**	Romania	A multicenter pilot study based on IAEA E2E methodology for IMRT/VMAT audits
1	331	**T. Sawapabmongkon**	Thailand	Evaluation of log file-based versus measurement-based methods for patient-specific quality assurance
1	595	**L. Baptista**	Brazil	Evaluation of CTV-PTV positioning errors and margins in pediatric patients
1	434	**Y. Kirpichev**	Cyprus	Patient specific quality assurance for stereotactic treatment in radiation therapy
1	607	**J. Somazz**	Brazil	Comparative analysis of three detectors for patient-specific pre-treatment quality assurance in VMAT cases
1	609	**L. G. Melgarejo**	Mexico	Automated learning based on complexity metrics in advanced radiotherapy techniques for patient-specific quality assurance

Monitor No.	Paper No.	Author(s) [presenting author in bold]	Designating Member State/Organization	Title of Paper
1	577	**S. Das**	India	A pilot study on the use radiomics features derived from the predicted dose fluence image for patient specific quality assurance in radiation therapy
1	603	**S. Prajapati**	United States	Audits for safe and effective deployment of automated contouring and planning
1	658	**(tbc)**	Portugal	Impact of script utilization for verification and standardization of radiotherapy treatment plans
1	531	**C. Boccaletti**	Brazil	How many physicists do we need? A Brazilian point of view
1	532	**S. Alhatmi**	Oman	Radiotherapy nurse roles in LDR prostate brachytherapy in sultan Qaboos comprehensive cancer care and research centre – a new paradigm
1	616	**(tbc)**	Ethiopia	Developing dye-based radio-chromic dosimeters for medical and environmental applications
2	561	**S. A. Chikh**	Algeria	Dosimetry and quality control for stereotactic radiotherapy of pituitary adenomas: experience from Chahids Mahmoudi Hospital
2	591	**D. Ronchalde**	Madagascar	Progress in cancer management in Madagascar: installation of the gynecological brachytherapy unit
2	621	**(tbc)**	Brazil	Radiotherapy physician workforce gap in Brazil: challenges and projections for 2030
2	689	**(tbc)**	Canada	Inequities in travel distances for gynecological radiotherapy access in Brazil: A cross-sectional analysis from 2019 to 2022
2	759	**(tbc)**	Canada	Geographical and demographic inequities in lung cancer radiotherapy accessibility in Brazil: A nationwide analysis
2	340	**A. Kavuma**	Uganda	The evolution and recent radiation therapy advancement in Uganda - a precedent on how to increase access to quality radiotherapy services in low-and-middle-income countries
2	349	**E. Hassan**	Libya	Cancer incidence in Libya 2020: the first comprehensive report of the national cancer registry
2	800	**(tbc)**	Cameroon	Status of new training approach of staff for efficient cancer therapy in central Africa
2	515	**M. Zaghloul**	Egypt	Proton beam therapy in a lower middle-income country: patients'

Monitor No.	Paper No.	Author(s) [presenting author in bold]	Designating Member State/Organization	Title of Paper
				priorities, benefits and operational sustainability
2	564	**J. Khader**	Jordan	Brain train to avoid brain drain in cancer education: KHCC successful story
2	457	**J. Otoo**	Ghana	Training of radiation protection officers in the medical facilities done by the radiation protection institute of the Ghana atomic energy commission
2	803	**(tbc)**	Pakistan	Adoption and challenges of incident reporting through SAFRON: insights from medical physics in Pakistan
2	805	**M. Chernykh**	Russian Federation	Standardization and education in radiation oncology and medical physics for specialists from Russia and CIS countries
2	812	**A. A. A. Mohamed**	Sudan	Impact conflict on cancer care in Sudan
2	676	**V. Umapathi**	India	Discrete mathematical modeling in photon and proton therapy: A case study of DCIS treatment
2	659	**U. Findlay**	UK	Training of clinical oncologists in Africa: results of a regional survey
3	503	**(tbc)**	Pakistan	Dosimetric analysis and response of stereotactic radiotherapy in patients of vestibular schwannoma: A single center experience
3	533	**H. Jassim**	Iraq	Assessment of the dosimetric and geometric accuracies of CBCT-guided adaptive radiotherapy for targets and critical organs using deformable image registration
3	334	**N. Helal**	Egypt	Assessment of the photo-neutron contamination in 3d-conformal technique using thermo-luminescent dosimeter (TLD) and GEANT4 Monte Carlo simulation
3	486	**S. Ashmeg**	United States	The effect of Optune's tumor treating field array on radiation dose: enhancement on surface and attenuation at depth
3	537	**B. Krastev**	Bulgaria	Implementation of DVH estimation models in clinical practice
3	786	**J. Daniels**	Ghana	A dosimetric evaluation of 3d-conformal, intensity-modulated, and hybrid intensity-modulated radiotherapy techniques for post-mastectomy irradiation in a limited-resource setting
3	535	**R. Oueslati**	Tunisia	Dosimetric comparison of three-dimensional conformal radiotherapy and modulated volumetric arc

Monitor No.	Paper No.	Author(s) [presenting author in bold]	Designating Member State/Organization	Title of Paper
				therapy postoperative left breast cancer
3	807	**V. Pitchaikannu**	India	Monte Carlo modeling for dosimetric accuracy in kilovoltage radiotherapy using phantoms
3	363	**A. Krauleidis**	Lithuania	Comparison of the arccheck-3dvh system in performing dose verification by simulating respiration in intensity modulated radiotherapy
3	420	**N. Silambarasan**	India	Evaluation of chamber volume and type dependency in dosimetry of small field
3	597	**L. Baptista**	Brazil	Influence of gastrointestinal gas volume on radiotherapy dosimetry in pediatric Wilms tumor patients
3	476	**A. G. M. dos Santos**	Brazil	Dosimetry tests with EBT3 films and the phantom planning system
3	497	**M. Shahban**	Pakistan	Dosimetric performance evaluation of a-si1000 and a-si1200 portal detectors for portal dosimetry
3	642	**K. Al Shukaili**	Oman	Field output factors for small fields: comparison of measurements with various detectors
3	672	**P. Kleden**	Indonesia	Utilization of rare earth-based high-z nanoparticle enhanced radiotherapy for breast cancer treatment: evaluating radiation dose effectiveness through Monte Carlo simulation
3	544	**A. C. Pellizzon**	Brazil	Ultra-low dose radiotherapy in treatment of malt gastric lymphomas - results from a single center
3	562	**H. Ammar**	Egypt	Modelling of carbon fiber couch top in Monaco TPS and its dosimetric effect on the surface dose
3	568	**V. B. Trajanovska**	North Macedonia	Dosimetric comparison in 3-dimensional conformal radiotherapy (3DCRT) and volumetric-arc radiotherapy (VMAT) in locally recurrent cervical cancer treatment. Institutional study
4	529	**H. Speckter**	Dominican Republic	Machine learning-supported MRI radiomics predicts volumetric response of pituitary adenomas to gamma knife radiosurgery
4	578	**T. H. Razanadahy**	Madagascar	Ai-based radiation oncology: the role of large language models and generative AI in precision cancer treatment
4	665	**Y. Kong**	China	Machine learning model construction for evaluating the efficacy of PRaG treatment in advanced refractory solid tumors

Monitor No.	Paper No.	Author(s) [presenting author in bold]	Designating Member State/Organization	Title of Paper
				based on circulating immune cells and cytokines
4	474	**I. Hammami**	Tunisia	Advanced pulmonary cancer segmentation utilizing CT imaging and artificial intelligence tools
4	638	**J. Mukhtafi**	Indonesia	Meal4chem: personalized meal recommendation apps using convolutional neural networks (CNN) and intelligent user interfaces (IUI) for chemotherapy patients
4	321	**F. Colavecchia**	Argentina	An educational course in programming and AI for radiation oncology
4	317	**J. M. Amda**	Indonesia	Revolutionizing dose prediction in radiation therapy: the impact of deep learning and AI innovations
4	426	**J. S. Campos**	Chile	Dosiomics-based machine learning model for prediction of genitourinary toxicity for SBRT of prostate cancer
4	730	**S. Sadeghi**	United States	Towards enhancement of pediatric radiotherapy planning: benchmarking AI segmentation models for pediatric organ-at-risk in CT imaging
4	543	**(tbc)**	Pakistan	Automated classification of COVID-19 using deep learning-based analysis of chest radiographs
4	403	**(tbc)**	Bangladesh	Artificial neural networks to the results of single- and tri-channel brachytherapy-based on high dose rate applicators for cervical cancer treatment
4	445	**M. El Aslani**	Morocco	Advancing brain tumor detection: optimizing deep learning models with CNNs and quantum neural networks for enhanced MRI analysis
4	582	**K. Lee**	United States	Protocol for the development of an artificial intelligence tool and ct-based contouring guidelines to improve prostate radiotherapy quality and efficiency in low- and middle-income countries
4	657	**E. Yadamsuren**	Mongolia	Tumor response evaluation of radiation therapy for locally advanced cervical cancer using "magnetic resonance tomography"
4	727	**F. Z. Chakib**	Morocco	Management of weight loss and malnutrition during concomitant radiotherapy and chemotherapy in patients with head and neck cancer.

Monitor No.	Paper No.	Author(s) [presenting author in bold]	Designating Member State/Organization	Title of Paper
4	731	**B. Agdi**	Morocco	Malnutrition in oesophagogastric cancer
4	742	**B. Agdi**	Morocco	Sleep disorders during radiotherapy and their impact on quality of life in gynecological cancers
4	743	**I. Lahlou**	Morocco	The side effects of radiochemotherapy treatment in patients with rectal cancer

16:00-16:45 SESSION 4: PANEL DISCUSSION Board Room B/M1

Women in Radiation Oncology and Leadership Roles: Challenges and Solution

Chairperson: S. Salem, IAEA

Time	Name	Designating Member State/Organization	
16:00–16:02	**M. Abdel-Wahab**	IAEA Director Division of Human Health	Opening statement
16:02–16:07	**R. M. Grossi (tbc)**	IAEA Director General	
16:07–16:09	**N. Mokhtar**	IAEA Deputy Director General	
		Panel Discussion	
16:09–16:42	**HE Mr K. Atsushi**	Ambassador and Resident Representative of Japan to the IAEA	
	HE Ms M. Sebastiàn de Erice	Ambassador and Resident Representative of Spain to the IAEA	
	A. Bello	Nigeria	
	S. Grover	United States of America	
	A. Cherit	Austria	
16:42–16:45	**N. Mokhtar**	IAEA Deputy Director General	Closing Statement
16:45–17:00		*Break*	

17:00–18:30 **Session 5A:** **Board Room B/M1**
Workshop: Reirradiation

Chairperson: T. Refaat, United States of America

Time	Name		
17:00–17:20	**J.M Hannoun-Levi**	France	Breast Cancer Reirradiation
17:20–17:40	**M. Roach**	United States of America	Prostate Cancer Reirradiation
17:40–18:00	**J. Welsh**	United States of America	Exploring Low Dose Rate Reirradiation: Balancing Efficacy and Safety in Cancer Treatment
18:00–18:15	**S. Salem**	IAEA	Radiobiology concepts of the BED and EQD2
18:15–18:30	**S. Wadi-Ramahi**	United States of America	Physical and Biological Planning for Re-Irradiation Cases

17:00–18:30 **Session 5B:** **M6**
Proffered Papers

Chairpersons:

A. Toutaoui, Algeria

A. McKnight, IAEA

Paper No.	Author(s) [presenting author in bold]	Designating Member State/Organization	Title of Paper
601	**S. Kry**	Canada	Expanding the reach and impact of dosimetry auditing through AI
575	**P. R. Babu Rao**	India	Exploring Plan Complexity Metrics and Machine Learning Models to Predict Quality Assurance Outcomes in Radiotherapy
606	**M. Barzegar**	Qatar	Assessment of Spatial Distortion in MRI-Based Radiotherapy Planning: Evaluating Geometrical Distortion in MR-SIM Protocols Based on AAPM TG-284 Recommendations for SRS and Brachytherapy
646	**N. F. Wardaningrum**	Indonesia	Urgency of Implementing Gamification in Microdosimetry Education for Proton Therapy in Department of Nuclear Engineering

Paper No.	Author(s) [presenting author in bold]	Designating Member State/Organization	Title of Paper
			and Engineering Physics Universitas Gadjah Mada
661	**R. Hajare**	India	Dosimetric comparison of HDR Cobalt-60 and Iridium-192 isotopes and effect of heterogeneity in Cervix, Breast and tongue cancer
641	**S. Zavgorodni**	Canada	Effect of modulation factor on pass rates of SRT VMAT dose distributions calculated with AAA v15.6, AAA v18.0 (with ELM) and Monte Carlo algorithms evaluated against in-house 3D portal dosimetry
644	**M. Abdulraheem**	Jordan	Investigating tumor motion effect on dose delivery in stereotactic body radiotherapy (SBRT) for lung cancer cases using a dynamic thorax phantom in three treatment techniques: 3D-CRT, IMRT, and VMAT
552	**M. Dosanjh**	UK	Access to diagnostic imaging and radiotherapy technologies for patients with cancer in the Baltic countries, eastern Europe, central Asia, and the Caucasus: a comprehensive analysis
553	**T. Ige**	Nigeria	Tackling the radiotherapy shortage in Sub-Saharan Africa by gathering and using data from Lower-Middle-Income and High-Income Countries' facilities for designing a future robust radiotherapy facility
18:30–20:30		*Welcome Reception*	M-Building, Ground Floor

TUESDAY, 3 JUNE 2025

08:30–09:30 **Session 6A:** **Board Room B/M1**
Educational session: Updates in Breast Cancer Management

Chairpersons: **A. Poitevin, Mexico**
S.S Park, United States of America

Time	Name		
08:30–08:50	**S. Alanyali**	Turkey	Advances in Breast Cancer: Target-Volume and Dose
08:50–09:10	**B. Li**	United States of America	Resources Sparing Strategies of Breast Radiotherapy in LMIC-Contouring Breast Cancer: 3D-CRT vs. IMRT Considerations
09:10–09:30		*Q&A*	

08:30–09:30 **Session 6B:** **M3**
Educational session: Brachytherapy

Chairpersons: **N. Taunk, United States of America**
S. Grover, United States of America

Time	Name		
08:30–08:50	**A. Jhingran**	United States of America	Technological Advances in Brachytherapy: Impact of new Technologies on Patient Care and Outcomes
08:50–09:10	**U. Mahantshetty**	India	Personalized Brachytherapy: Tailoring treatment to Individual Patient Needs
09:10–09:30		*Q&A*	

08:30–09:30 Session 6C: Educational session - Technological Advances in Radiotherapy **M2**

Chairperson: G. Azangwe, IAEA

Time	Name		
08:30–08:55	**T. Kron**	Australia	Towards Better Outcomes and New Applications
08:55–09:20	**J. Palta**	United States of America	Harnessing Radiotherapy Data for Quality Care, Outcome Research, and Learning Health System
09:20–09:30		Q&A	

08:30–09:30 Session 6D: Educational session - SRS Advances for CNS Tumours **M6**

Chairpersons: Y. Anacak, IAEA
L. Loaiza, Colombia

Time	Name		
08:30–08:55	**H. Mahmood**	Pakistan	Establishment of CNS SRS Program in LMICs: Success story of IAEA Anchor Centre
08:55–09:20	**J. Yan**	United States of America	Essential Standards and Technology for CNS Radiosurgery Program
09:20–09:30		Q&A	

09:30–10:30 Session 7: Stereotactic Body Radiation Therapy Board Room B/M1

Chairpersons: G. Azangwe, IAEA
M. Roach, United States of America

Time	Name		
09:30–09:45	**S. Corradini**	Germany	Organ Motion Management in SBRT
09:45–10:00	**S.S Park**	United States of America	Current Progress in Oligometastatic SBRT Clinical Trials
10:00–10:15	**J. Khader**	Jordan	Advancing SBRT Implementation in IAEA Anchor Centre: The Impact of International Collaborations
10:15–10:30		*Q&A*	
10:30–11:15		*Coffee/Tea Break*	

10:30–11:15 Session 8: Poster Area
Poster Presentations

Monitor No.	Paper No.	Author(s) [presenting author in bold]	Designating Member State/Organization	Title of Paper
1	494	**(tbc)**	Tunisia	Is Gemzar-cisplatin induction chemotherapy less effective than triplet induction chemotherapy in locally advanced nasopharyngeal carcinoma?
1	746	**I. Lahlou**	Morocco	Survival rate of patients with non-small cell lung cancer (NSCLC) treated with concomitant radiochemotherapy
1	799	**(tbc)**	Belarus	Radical radiotherapy plus cetuximab in uneligible for cisplatin head and neck cancer patients
1	396	**(tbc)**	France	Concurrent use of trastuzumab deruxtecan and radiation therapy in Her2-positive and Her2-low metastatic breast cancer
1	380	**H. Belmiloud**	Algeria	Induction chemotherapy followed by concurrent chemoradiotherapy in the treatment of locally advanced

Monitor No.	Paper No.	Author(s) [presenting author in bold]	Designating Member State/Organization	Title of Paper
				nasopharyngeal carcinoma: Experience of the radiation therapy department of the EHSO Emir Abdelkader-Oran-Algeria
1	460	**H. Hassan**	Malaysia	Radiolabeled pamidronate: A promising theranostic approach in personalized bone cancer management
1	703	**F. Z. Chraa**	Morocco	Role of exclusive concurrent chemoradiotherapy in the treatment of esophageal cancer
1	704	**F. Z. Chraa**	Morocco	Role of prophylactic cranial irradiation in small-cell lung cancer
1	680	**D.I. Moussa**	Niger	Scintigraphie osseuse au MDP-Tc99m comparative pré et post hormonothérapie et radiothérapie externe dans l'adénocarcinome prostatique métastatique à l'Institut des Radio-Isotopes : à propos d'un cas
1	341	**S. Gulati**	Slovakia	Role of curcuma, a phytochemical, against ionizing radiation used in radiotherapy patients
1	493	**(tbc)**	Egypt	Impact of vitamin D supplementation on head and neck cancer patients receiving radiotherapy
1	735	**F. Z. Chakib**	Morocco	The impact of tobacco resumption in patients with aerodigestive cancers following radiotherapy treatment
1	701	**(tbc)**	India	Early experience with single isocentre VMAT (Si-VMAT) for Stereotactic Radiosurgery (SRS) and Stereotactic Radiotherapy (SRT) of brain metastases
1	702	**A. A. Jacinto**	Brazil	Palliative stereotactic ablative body radiotherapy reirradiation for high volume head and neck cancer
1	728	**G. Aranguiz**	Argentina	Commissioning and clinical evaluation of suncheck™ patient for in vivo transit dosimetry
1	755	**B. Agdi**	Morocco	Professional impact in tongue cancer

Monitor No.	Paper No.	Author(s) [presenting author in bold]	Designating Member State/Organization	Title of Paper
1	744	**F. Z. Chakib**	Morocco	Incidence of hospitalization in patients followed for bladder cancer and reasons for hospitalization
1	748	**F. Z. Chakib**	Morocco	Phonation disorder in laryngeal cancer and improvement of vocal quality of life by radiotherapy.
2	584	**(tbc)**	Peru	Single-fraction low-energy superficial x-ray radiation for conjunctival Kaposi sarcoma: a case report
2	718	**(tbc)**	India	Involved quadrant irradiation (IQI) following breast conservation surgery: results of ongoing randomized controlled trial
2	724	**(tbc)**	Iran, Islamic Republic of	Comparative evaluation of IMRT and tomodirect techniques in esophageal cancer radiotherapy: dose reduction for organs at risk
2	739	**A. Temani**	Algeria	Comparison of dose-to-water versus dose-to-medium in the treatment of nasopharyngeal carcinoma
2	752	**I. Lahlou**	Morocco	Survival rate and factors influencing survival in patients treated with radiotherapy for laryngeal cancer
2	336	**N. Karamyan**	Armenia	End-results of prospective single-institution trial on re-irradiation of previously irradiated tumors
2	797	**K. Oussama**	Algeria	Survival studies in locally advance cervical cancer treated with tomotherapy
2	422	**M. Zorigt**	Mongolia	Evaluation of survival rate and late adverse events after definitive radiotherapy for cervical cancer: A retrospective cohort study.
2	451	**E. F. Medina**	Mexico	Planning, delivery, and clinical outcomes of lattice radiotherapy
2	481	**H. Mahmood**	Pakistan	Treatment outcomes of stereotactic radiotherapy in patients of brain metastases using cyberknife: A single-center study using different dose levels
2	473	**(tbc)**	Indonesia	The effect of delayed time and prolonged overall treatment time on

Monitor No.	Paper No.	Author(s) [presenting author in bold]	Designating Member State/Organization	Title of Paper
				the overall survival of cervical cancer patients at Dr. Soetomo General Hospital Surabaya
2	682	**F. Z. Chraa**	Morocco	Evaluation of cancer patient satisfaction in a radiation therapy department
2	498	**S. Boutayeb**	Morocco	End to end test for stereotactic radiotherapy for pulmonary tumors
2	530	**H. Speckter**	Dominican Republic	Outcomes after single fraction and hypofractionated stereotactic radiosurgery for perioptic lesions: an international multicenter study
2	650	**S. Alanyali**	Turkey	Long term results of vaginal brachytherapy in early-stage endometrial cancer patients
2	583	**(tbc)**	Peru	Transgluteal brachyablation for lymph node recurrence in a high-risk prostate cancer patient following multimodal therapy
2	685	**A. Majdi**	Morocco	Psychological impact of radiodermatitis after radiotherapy for head and neck cancer: A 5-year retrospective study
3	611	**M. Yahia**	Algeria	Advanced techniques in image-guided radiotherapy: enhancing cancer treatment with MRI guidance
3	656	**R. B. Amor**	Tunisia	Impact of rectal volume variation on dose acceptance criteria in patients treated with hypofractionated prostate radiotherapy and image-guided radiotherapy (IGRT)
3	777	**A. Taharount**	Algeria	Assessment of positioning uncertainties and margin calculation in single-fraction stereotactic radiosurgery using the ExacTrac 6D image-guidance system
3	796	**Z. E. Bouraoui**	Algeria	Evaluation of morphological changes based on cone beam CT for adaptive radiation therapy
3	448	**Z. Alrahbi**	Oman	Assessing random and systematic errors in image-guided radiation therapy across multiple cancer sites: A retrospective review

Monitor No.	Paper No.	Author(s) [presenting author in bold]	Designating Member State/Organization	Title of Paper
3	355	**E. Tharavichitkul**	Thailand	Assessing the value of image-guided brachytherapy in endometrial cancer treatment in Thailand
3	441	**S. Gondhowiardjo**	Indonesia	Closing the gap of radiotherapy access in Indonesia
3	538	**R. Toumi**	Tunisia	Contribution of embedded imaging in positioning uncertainties in conformal radiotherapy with intensity modulation in prostate cancer
3	623	**H. Saleh**	United States	Bridging the radiotherapy education gap: 2D to 3DCRT to IMRT treatment planning for professionals in Libya
3	773	**I. Lahlali**	Morocco	The advanced 3D conformal technique and the classic box technique, what advantage in dosimetry for cervical cancer radiotherapy?
3	789	**E. Tembo**	Malawi	Pioneering radiotherapy in Malawi: preparing the radiation oncology team for Lilongwe's first facility
3	414	**T. Manik**	Indonesia	Economic study of Fluorine-18 medical radionuclide production using cyclotrons to support Indonesia's nuclear medicine independence
3	456	**A. A. B. Hartanto**	Indonesia	The role of the conformity assessment body (CAB) in ensuring the quality assurance of medical devices to support Indonesia's national cancer control plan (NCCP) 2024-2034
3	429	**J. S. Campos**	Chile	Stereotactic body radiotherapy in prostate cancer: results from A Cohort
3	452	**E. F. Medina**	Mexico	Calculation of setup margins for pelvis and breast radiotherapy using one-year online shifts database
3	536	**R. Oueslati**	Tunisia	Evaluation of positioning errors and determination of configuration margin in conformal radiotherapy guided by portal imaging for breast cancer.
3	667	**I. Komakech**	Uganda	Enhancing radiotherapy quality control, the role of in-vivo

Monitor No.	Paper No.	Author(s) [presenting author in bold]	Designating Member State/Organization	Title of Paper
				dosimetry in a low resource setting: Uganda's experience
3	697	**J. de Oliveira Dias**	Brazil	Hypofractionation improving locoregional control for sequential chemoradiotherapy in non-small cell lung cancer
4	627	**M. A. Erraisse**	Morocco	HDR head and neck Brachytherapy: lip carcinoma
4	675	**D. A. M. Perez**	Colombia	3D printed tailored applicators for complex brachytherapy treatments, beyond boundaries: Characterization, design, and manufacture for clinical application.
4	692	**H. Al Saleh**	Saudi Arabia	Accelerating gynecological HDR brachytherapy planning with deformable image registration
4	578	**M. Mahmoodvand**	Iran, Islamic Republic of	Locally advanced cervical high-dose-rate uterovaginal brachytherapy in Madagascar
4	585	**(tbc)**	Peru	High-dose-rate brachytherapy in the treatment of stage IIb cervical cancer: 20 years of experience at the national institute of neoplastic diseases
4	388	**E. Tharavichitkul**	Thailand	Assessing the survival gain in image-guided brachytherapy for cervical cancer – the proposed model from 14 centers from Thailand
4	411	**N. P. D. Ganapati**	Indonesia	A systematic review of the impact of economic barriers on radiotherapy delays and compliance among cancer patients
4	425	**J. S. Campos**	Chile	Image-guided brachytherapy for cervical cancer: updated results from Carlos Van Buren Hospital
4	449	**(tbc)**	Turkey	Assessing the earthquake vulnerability of radiotherapy centres in Turkey
4	506	**S. Ashmeg**	Sudan	Rebuilding radiotherapy in Sudan: challenges, solutions, and future directions

Monitor No.	Paper No.	Author(s) [presenting author in bold]	Designating Member State/Organization	Title of Paper
4	581	**S. L. Adamo**	Argentina	TBI with lung shielding at the radiotherapy service of Garrahan hospital: a pediatric reference center for Latin America and the Caribbean
4	569	**I. Komakech**	Uganda	Errors in manual radiotherapy treatment procedures and their evolution in a low resource setting: Uganda's experience
4	350	**F. P. González**	Cuba	Education and training of professionals for radiotherapy services in a Provincial Hospital in Cuba: a permanent challenge.
4	369	**E. Pei Ping Pang**	Singapore	Roadmap for setting up the radiation oncology facility at the National Cancer Centre Singapore.
4	527	**P. Chakalaroski**	North Macedonia	Case report of a renal cell carcinoma skin metastasis treated locally with contact brachytherapy
4	723	**(tbc)**	Azerbaijan	Ultra-fractionation for whole-breast irradiation in early breast cancer: Azerbaijan experience
4	547	**S. Aruah**	Nigeria	The status of government-funded radiotherapy centres in Nigeria

11:15–12:15 Session 9A: The Role of Imaging in Radiotherapy Board Room B/M1

Chairpersons: D. Paez, IAEA
S. Avery, United States of America

Time	Name		
11:15–11:30	**A. Chiti**	Italy	Role of Nuclear Medicine Techniques in Contouring
11:30–11:45	**G. Hanna**	Ireland	Advancing Functional Imaging in Radiation Therapy: Enhancing Precision and Outcomes
11:45–12:00	**L. Fong**	United States of America	Striking the Balance: Target Accuracy vs. Imaging Dose in Radiotherapy
12:00–12:15		*Q&A*	

11:15–12:15 Session 9B: The Role of Imaging in Radiotherapy M3

Chairpersons: J.M Michalski, United States of America
J. Palta, United States of America

Time	Name		
11:15–11:30	**J. Kavanaugh**	United States of America	Simulation Free Adaptative Radiotherapy: New workflow Era
11:30–11:45	**G. Sarria**	Germany	CT Adaptative Radiotherapy, are we ready for Prime Time?
11:45–12:00	**T. Refaat**	United States of America	MRI Adaptative Radiotherapy, are we ready for Prime Time?
12:00–12:15		*Q&A*	

Time		
12:15–13:45	*Lunch Break*	

12:15–13:15 **SIDE EVENT:** **M2**
Precision, Innovation, Synergy: Progress in Radiotherapy and Collaboration with the IAEA

Speakers:

13:45–14:45 **Session 10: Delivering Radiotherapy during Humanitarian Crises** **Board Room B/M1**

Chairpersons: **Y. Anacak, IAEA**
R. Sullivan, United Kingdom

Time	Name		
13:45–14:00	**C. Jabbour**	Lebanon	Radiotherapy in Lebanon: In the Middle of Crises
14:00–14:15	**L. Mula-Hussain**	Canada	Radiotherapy in Iraq: Recovering Radiotherapy Service After Wars and Conflicts
14:15–14:30	**M. Reuter-Oppermann**	Netherlands	Radiotherapy Continuity after Natural Disasters: Lessons learned
14:30–14:45		*Q&A*	

14:45–15:45 **Session 11A: Interactions of Radiotherapy and Immunity** **Board Room B/M1**

Chairpersons: **O. Belyakov, IAEA**
H. Mahmoud, Pakistan

Time	Name		
14:45–15:00	**S. Khleif**	United States of America	Updated Guideline's in Combination of Immunotherapy and Radiotherapy
15:00–15:15	**W. Yan**	United States of America	Modulate Immune responses post radiotherapy special techniques (SFRT, FLASH, SBRT)
15:15–15:30	**M. Santos**	Brazil	Patient Preparation and Expected Toxicities in Combination of Immunotherapy and Radiotherapy
15:30–15:45		*Q&A*	

14:45–15:45 Session 11B: Challenges and Solutions of the Research in LMIC **M3**

Chairpersons: S. Salem, IAEA
T. Olasinde, Nigeria

Time	Name		
14:45–15:00	**S. Grover**	United States of America	From research to clinical applications
15:00–15:15	**J. Khader**	Jordan	Research Success Stories coming from IAEA Anchor Centres
15:15–15:30	**M. Dosanjh**	United Kingdom	Improving access from collaborative data gathering to possible low-cost research solutions
15:30–15:40	**S. Kry**	Canada	Introduction for the Global Quality Assurance of Radiation Therapy Clinical Trials Harmonization Group (GHG)
15:40–15:45		Q&A	

15:45–16:30 **Session 12: Poster Presentations** **Poster Area**

Monitor No.	Paper No.	Author(s) [presenting author in bold]	Designating Member State/Organization	Title of Paper
1	628	**M. A. Erraisse**	Morocco	GTV contour for DRR in lung cancer radiotherapy: when CBCT is unavailable
1	749	**F. Costa**	Portugal	Correlation between gradient index and target volume: single institution experience in linac-based radiosurgery of brain metastasis
1	480	**A. Ayadi**	Tunisia	Automatic lung cancer segmentation by combining u-net and CT-PET techniques
1	475	**M. A. Said**	Malaysia	Impact of pet-guided radiotherapy planning on lung cancer treatment outcomes: A single-center study
1	608	**A. Alnsour**	Jordan	Identifying challenges and opportunities during implementation of MR guided radiotherapy technology in low- and-middle-income countries -King Hussein Cancer Center experience
1	620	**L. Farhat**	Tunisia	Comparative dosimetric analysis of halcyon and clinac-ix in nasopharyngeal carcinoma
1	320	**(tbc)**	Russian Federation	Diagnostic accuracy of 100 radiologists in detecting lung nodules on chest x-rays
1	348	**I. Alhoderi**	Libya	Evaluation of setup error and CTV-PTV margin in three-dimensional conformal radiotherapy for pelvic cancer using mega-voltage electronic portal imaging device
1	367	**N. Dazeo**	Argentina	Automatic segmentation of nuclear tracks in neutron autoradiography of cell cultures for BNCT applications
1	405	**(tbc)**	Egypt	New approach in characterization of regional lymph nodes in hepatocellular carcinoma patients before surgical resection: utilizing FDG PET/CT
1	469	**I. Ahmad**	Pakistan	Scatter fraction reevaluation with geant4 Monte Carlo simulations for heterogeneous geometries

Monitor No.	Paper No.	Author(s) [presenting author in bold]	Designating Member State/Organization	Title of Paper
1	421	**K. Charef**	Morocco	Modeling alpha and Li-7 particle energy transfer in BNCT using Geant4
1	446	**N. Silambarasan**	India	Evaluation of chamber volume and type dependency in dosimetry of small field
1	516	**M. Mehrabi**	Iran, Islamic Republic of	Advancements in precision MR-guided radiotherapy: enhancing dosimetric accuracy and tumor targeting in breast cancer treatment
1	540	**K. El Achy**	Belgium	Design of a new 2D amorphous silicon-based detector for particle therapy
1	541	**(tbc)**	Rwanda	Design and construction of in-house source holder for assaying the source strength of I-125 seeds, model #: STM1251
1	576	**(tbc)**	India	Validation of dosimetric leaf gap DLG) for high definition (HD)120 MLC: a comparitive study with different small field chambers
2	726	**I. Lahlou**	Morocco	Side effects of radiochemotherapy treatment in patients with non-small cell lung cancer (NSCLC)
2	741	**F. Z. Chakib**	Morocco	Vaginal dryness in women treated with radiotherapy: impact on sexual life
2	810	**K. A. Kyei**	Ghana	Sexual function outcomes in prostate and cervical cancer patients treated with radiotherapy at the Korle Bu Teaching Hospital: A cross-sectional study
2	313	**C. Odeny**	Kenya	Protection and safety of patient and staff during external beam radiotherapy using a linac in Africa: status, challenges and prospects
2	356	**E. Rotich**	Kenya	Incorporation of radiation safety in radiation therapy: multidisciplinary approach
2	315	**A. Boughalia-Ghaffar**	Algeria	Toxicity and secondary cancer risk to normal structures for pediatric medulloblastoma using dynamic and static junctions

Monitor No.	Paper No.	Author(s) [presenting author in bold]	Designating Member State/Organization	Title of Paper
2	316	**A. Boughalia-Ghaffar**	Algeria	Modeling the risk of induced second cancer for prostate carcinoma after helical tomotherapy compared to 3D-CRT
2	364	**A. Alem-Bezoubiri**	Algeria	Secondary cancer risks assessment in pediatric Hodgkin's lymphoma post-radiotherapy
2	444	**(tbc)**	Indonesia	Assessing the impact of total radiation dose on proctitis incidence in cervical cancer patients' post-radiation therapy: A comparative study utilizing CT and MRI evaluations
2	358	**K. Gordon**	Russian Federation	Stereotactic radiotherapy for oligometastatic (1-5 mts) patients
2	790	**F. Mawisire**	Zimbabwe	Radiation dermatitis in patients undergoing external beam radiotherapy: incidence and severity in relation to BMI. A case study, Harare Zimbabwe
2	631	**M. Ait Erraisse**	Morocco	Salvage tongue brachytherapy: case report
2	686	**F. Z. Chraa**	Morocco	Quality of life in vaginal brachytherapy for cervical carcinoma.
2	734	**I. Lahlou**	Morocco	Side effects of radiotherapy treatment in laryngeal cancer
2	762	**B. Agdi**	Morocco	Quality of life in canal anal cancer patients
2	551	**O. Safronova**	Ukraine	Evaluation of radiation doses to organs at risk and comparison of the manifestations of acute skin toxicity in adjuvant treatment for breast cancer with the usage of hypofractionation
2	596	**F. B. Leandro Baptista**	Brazil	Development of a IGRT protocol to decrease radiation exposure levels in pediatric patient
2	729	**I. Lahlou**	Morocco	Impairment of quality of life in patients with non-small cell lung cancer (NSCLC) treated with concomitant radiochemotherapy
3	733	**F. Z. Chakib**	Morocco	Laryngeal preservation in the treatment of laryngeal cancer
3	378	**N. Fergane**	Algeria	Transition from volumetric intensity modulated radiotherapy (VMAT)

Monitor No.	Paper No.	Author(s) [presenting author in bold]	Designating Member State/Organization	Title of Paper
				technique in simultaneous integrated boost (SIB) to IMRT technique in the treatment of nasopharyngeal cancer
3	566	**J. Khader**	Jordan	Outcomes of chemoradiotherapy with and without surgery in locally advanced esophageal cancer: A retrospective analysis
3	559	**S. Zarraa**	Tunisia	Young breast cancer patients' knowledge and perception of genetic counselling
3	679	**A. A. Jacinto**	Brazil	Resource sparing adjuvant accelerated radiotherapy for intermediate-risk head and neck cancer
3	688	**F. Z. Chraa**	Morocco	Impact of nutritional intervention on malnutrition and oncologic outcomes in head and neck cancer patients undergoing (chemo-)radiotherapy
3	691	**F. Z. Chraa**	Morocco	Quality of life in elderly breast cancer survivors: impact of surgery and key determinants of global QoL
3	696	**D. Asaf**	Argentina	Craniospinal irradiation for paediatric CNS tumours: challenges and approaches in the quality assurance of its planning
3	708	**F. Z. Chraa**	Morocco	Pineal germinoma: therapeutic management
3	732	**I. Lahlou**	Morocco	Impairment of quality of life in patients with rectal cancer treated with concomitant radiochemotherapy
3	745	**B. Agdi**	Morocco	Contribution of radiotherapy to the treatment of tongue cancer in young patients
3	765	**B. Agdi**	Morocco	Radiosurgery and systemic therapy in a patient with multiple brain metastases from breast cancer: report of an exceptional response to treatment
3	769	**(tbc)**	Tunisia	Short course radiotherapy in locally advanced rectal cancer: dosimetric evaluation of VMAT and 3D conformal radiotherapy

Monitor No.	Paper No.	Author(s) [presenting author in bold]	Designating Member State/Organization	Title of Paper
3	771	**I. Lahlali**	Morocco	What are the reasons for changing the indication from curative to palliative radiotherapy in localised lung cancer?
3	772	**(tbc)**	Morocco	Stereotactic radiosurgery for brain metastases: evaluation of efficacy at the radiotherapy department of the national institute of oncology (INO) in rabat
3	629	**I. Filipev**	Australia	Time-resolved real-time patient-specific QA for vertebral SABR in the axial plane using Verta-mp: A novel 2D semiconductor detector system with high spatial and temporal resolution
3	643	**K. Al Shukaili**	Oman	Computed tomography doses in radiation therapy
3	720	**G. Aranguiz**	Argentina	Evaluation of SDC dose calculator algorithm
4	740	**U. Tsegme**	Mongolia	An investigation of the best setting of collimator angles in automatically generated volumetric modulated arc therapy for nasopharyngeal cancer
4	804	**(tbc)**	Pakistan	Brain radiosurgery with cyberknife: comparison between fix and IRIS collimators plans single institute experience
4	453	**F. Laban**	Namibia	Dosimetric commissioning of the new cobalt-60 100 cm SSD and comparison with BJR supplement 25 data for clinical use, a Namibian radiotherapy upgrade.
4	306	**H. Nassor**	United Republic of Tanzania	Comparative analysis of 3DCRT and IMRT treating plan techniques in radiotherapy for cervical cancer in Ghana: A case study of Komfo Anokye Teaching Hospital (KATH)
4	721	**(tbc)**	Brazil	Enhancing radiotherapy access in Latin America: collaborative efforts of radiotherapy societies to overcome barriers and improve cancer outcomes
4	750	**N. Osman**	Sudan	The oncology medical doctorate of Sudan medical specialization board and its role in enhancing

Monitor No.	Paper No.	Author(s) [presenting author in bold]	Designating Member State/Organization	Title of Paper
				cancer management in the region
4	754	**(tbc)**	Brazil	Temporal trends in lung cancer mortality in Brazil: sex and age-based analyses (2000–2022)
4	782	**(tbc)**	Indonesia	Hadron radiotherapy for elderly non-small-cell lung cancer patients' treatment in Indonesia: A critical review
4	783	**T. Olasinde**	Nigeria	Effect of microplastic pollution on cancer development in Nigeria
4	407	**H. A. Molineu**	United States	Implementation science and change management considerations for introducing new technologies in radiation oncology departments
4	455	**C. Odeny**	Kenya	Protection and safety of patients and staff during external beam radiotherapy using a linac in Africa: status, challenges and prospects.
4	479	**(tbc)**	Tunisia	Study of neutron leaks caused by linear accelerators in radiotherapy and radiation protection for workers and patients
4	489	**(tbc)**	United States	Hemibody irradiation as an example of needed low-HDI research
4	495	**(tbc)**	Tunisia	Impact of innovative techniques on cervical cancer therapeutic results
4	517	**M. Mehrabi**	Iran, Islamic Republic of	Evaluating the impact of MR-guided adaptive radiotherapy on treatment precision and dosimetry in prostate cancer
4	636	**(tbc)**	Brazil	Calibration, validation and application of an in-vivo dosimetry (IVD) system for total body irradiation (TBI)
4	639	**V. Freer**	Costa Rica	Technology as a resource for monitoring health and safety of health workers exposed to ionizing radiation
4	662	**(tbc)**	Portugal	Establishment of an uncertainty budget for reference dosimetry

16:30–18:00 Session 13A: Contouring Workshop on Hypofractionated Radiotherapy for Prostate Cancer **M3**

Chairpersons: S. Salem, IAEA
A. Bello, Nigeria

Time	Name		
16:30–18:00	**M. Roach**	United States of America	

16:30–18:00 Session 13B: Contouring Workshop: Pediatric Craniospinal Irradiation **M2**

Chairpersons: Y. Anacak, IAEA
T. Merchant, United States of America

Time	Name		
16:30–16:40	**M. Zaghloul**	Egypt	What is CSI and when we use it?
16:40–16:55	**J. Lucas**	United States of America	How to position and immobilize a child for CSI? Tips and tricks
16:55–17:10	**N. Esiashvili**	United States of America	Tips and tricks of contouring
17:10–17:20	**N. Kovalchuk**	United States of America	Plan evaluation
17:20–17:40		*Hands-on contouring*	
17:40–18:00		*Case discussion*	

16:30–18:00 **Session 13C:** **M5**

Proffered Papers

Chairpersons:

S. Avery, United States of America

S. Kry, Canada

Paper No.	Author(s) [presenting author in bold]	Designating Member State/Organization	Title of Paper
400	**A. Alves**	Australia	Improving the sensitivity of dosimetry audits for motion management
419	**A. Alves**	Australia	Assessment of plan conformity in treatment plans from end-to-end dosimetry audits at the Australian Clinical Dosimetry Service (ACDS)
574	**J. Lehmann**	Australia	SEAFARER central: a new and accessible virtual approach to audit sensitivity of local patient specific quality assurance (PSQA) procedures to support centres with implementation of advanced treatment techniques
600	**S. Kry**	Canada	International collaboration: Ensuring high-quality audits for better cancer outcomes
387	**S. Pawiro**	Indonesia	Health Transformation Program in Indonesia: Impact and Challenge to Medical Physics Education and Clinical Training
471	**J. Van Dyk**	Canada	Global Medical Physics: A Guide for International Collaboration
550	**S. Wadi-Ramahi**	United States	Leadership Training for Medical Physicists
590	**A. Beavis**	UK	Virtual experiential training for clinical Physicists: Expanding access to training for LMICs.
512	**(tbc)**	United States	Navigating change: IROC's role in guiding the implementation of updated calibration protocols in radiation therapy
522	**(tbc)**	Poland	In vivo film detector (IVFD) for all teleradiotherapy techniques
614	**X. Ma**	China	Testing and evaluation of the radiation shielding performance for a novel self-shielded stereotactic radiotherapy system

16:30–18:00 **Session 13D:** **M6**
Proffered Papers

Chairpersons:

S. Alanyali, Turkey

A. Giselvania, Indonesia

Paper No.	Author(s) [presenting author in bold]	Designating Member State/Organization	Title of Paper
655	**(tbc)**	Indonesia	Impact of carbogen-enhanced chemoradiation on rectal cancer response: circulating biomarkers mir-21, and Mir-145
397	**(tbc)**	France	Concurrent use of Radiotherapy and Ribociclib
402	**M. Xu**	China	Preliminary outcomes of an innovative therapeutic model based on SBRT targeting HER-2 expression advanced solid tumors
664	**Y. Kong**	China	A Prospective Multicenter Clinical Study on PRaG Treatment for Advanced Solid Tumors Regulated by Thymosin Alpha 1
618	**M. Sanad**	Egypt	Radioiodination and bioscreening of quinazoline benzene sulfonamide derivative as a new highly selective probe for tumor theranosis
496	**A. Baeyens**	Belgium	Impact of X-ray beam quality and irradiator type on DNA damage and repair in peripheral blood lymphocytes
379	**M. Durdík**	Slovakia	Biomarkers of individual radiosensitivity of cancer patients

16:30–18:00 **Session 13E:** **M7**
Proffered Papers

Chairpersons: A. Poitevin, Mexico

J. Hinojosa, Mexico

Paper No.	Author(s) [presenting author in bold]	Designating Member State/Organization	Title of Paper
443	**L. Kochbati**	Tunisia	Bridging gaps for cancer children in Africa: The Tunisian leading role in IAEA programs

Paper No.	Author(s) [presenting author in bold]	Designating Member State/Organization	Title of Paper
715	**M. Chirila**	Romania	Financial index of toxicity in Romanian breast cancer patients treated with radiation therapy
785	**G. Javier Sarria**	Peru	Current Availability of Radiotherapy Devices in Peru and Artificial Intelligence-enhanced Plan for a Nationwide Implementation
678	**N. A. Hao**	Malaysia	Developing an incident learning system to enhance radiation safety culture in radiation oncology: A national initiative by Malaysia's community
477	**L. Miheso**	Kenya	National Cancer Control Strategies in African Low- and Middle-Income Countries (LMICs)
542	**L. Iiyambo**	Namibia	Namibia's progress on strengthening radiotherapy services. A review of patients treated on orthovoltage machine over 2 years at the Dr AB May Cancer Care Centre.
307	**M. Arustamyan**	Armenia	Radiation therapy for skull base tumors with limited resources. Comparison of 3DCRT and IMRT treatment planning. A developing country experience.

WEDNESDAY, 4 JUNE 2025

08:30–09:30 Session 14A: Educational session-Genito-Urinary Cancers **Board Room B/M1**

Chairpersons: S. Cai, IAEA
S. Shrivastava, India

Time	Name		
08:30–08:50	**A. Bello**	Nigeria	New Prostate cancer NCCN Guidelines for Sub-Saharan Africa
08:50–09:00	**S. Salem**	IAEA	Developing CT-Base Prostate Contouring Guidelines with an AI Tool: IAEA Anchor Centre Collaborative Research Project
09:00–09:20	**M. Roach**	United States of America	Future Directions in the Management of Clinically Localized Prostate Cancer
09:20–09:30		*Q&A*	

08:30–09:30 Session 14B: Educational Session-Insight into Current AI-Based Tools in Radiotherapy Medical Physics **M3**

Chairperson: G. Azangwe, IAEA

Time	Name		
08:30–08:55	**E. Titovich**	IAEA	IAEA Activities related to AI for Medical Physics
08:55–09:20	**P. Kalendralis**	Netherlands	AI- Based Tools in Radiotherapy Medical Physics
09:20–09:30		*Q&A*	

08:30-09:30 Session 14C: Educational Session-Gastro-Intestinal Cancers **M2**

Chairpersons: C. Acevedo, IAEA
I. Chitapanarux, Thailand

Time	Name		
08:30–08:45	**T. Refaat**	United States of America	Evolving Role of Radiation Therapy in Pancreas Cancer
08:45–09:00	**G. Sarria**	Germany	Evolving Role of Radiation Therapy in Rectal Cancer
09:00–09:15	**E. Gkika**	Germany	Advances in Radiotherapy for Oesophageal Cancer Treatment GUS
09:15–09:30		*Q&A*	

08:30–09:30 Session 14D: Educational Session-Ethical Considerations and Incident Management in Radiotherapy **M5**

Chairpersons: A. McKnight IAEA

Time	Name		
08:30–08:45	**L. Mula-Hussain**	Canada	Ethics in Radiation Therapy
08:45–09:00	**O. Holmberg**	IAEA	SAFRON: IAEA system for Safety in Radiation Oncology
09:00–09:15	**M. Coffey**	Ireland	ROSEIS: Radiation Oncology Safety Education and Information System of ESTRO
09:15–09:30		Q&A	

08:30–09:30 **Session 14C: Educational Session-VMAT Total Body Irradiation** **M6**

Chairpersons: B. Garcia, Mexico
J. Lucas, United States of America

Time	Name		
08:30–08:45	**N. Esiashvili**	United States of America	Clinical aspects of Total Body Irradiation
08:45–09:00	**N. Kovalchuk**	United States of America	Physics aspects of total Body Irradiation
09:00–09:15	**N. Esiashvili**	United States of America	The Use of E-Contouring as an effective learning tool for Pediatric Radiation Oncologist
09:15–09:30		Q&A	

09:30–10:30 **Session 15: Technological advances and implementational aspects in modern brachytherapy** **Board Room B/M1**

Chairpersons: E. Fidarova, IAEA
S. Shrivastava, India

Time	Name		
09:30–09:45	**S. Chopra**	India	Access to High-Quality RT for Cervical Cancer: Insights from IAEA study and Brachytherapy Skills Lab Project Tata Memorial Centre
09:45–10:00	**S. Nojin Paul**	Qatar	Implementation of MRI-based Brachytherapy Program: Medical Physics point of view
10:00–10:15	**S. Prajapati**	United States of America	Artificial Intelligence in Brachytherapy
10:15–10:30	**S. Lozares**	Spain	Electronic Brachytherapy: Implementation, Value, and Challenges
10:30–11:15		*Coffee/Tea Break*	

10:30–11:15 **Session 16: Poster Presentations** **Poster Area**

Monitor No.	Paper No.	Author(s) [presenting author in bold]	Designating Member State/Organization	Title of Paper
1	751	**B. Agdi**	Morocco	A case report and review of literature of unusual localization of melanoma: uterine cervix melanoma
1	757	**F. Z. Chakib**	Morocco	Refusal of surgery in laryngeal cancer
1	767	**H. Nalunga**	Uganda	A 10-year descriptive study on dermatofibrosarcoma protuberans (DFSP) among adult patients at Tygerberg Hospital
1	776	**S. Smiti**	Morocco	Male breast cancer, body image and quality of life after treatment
1	634	**U. Tsegme**	Mongolia	Introduction of stereotactic body radiation therapy for liver and lung cancers in Mongolia
1	328	**T. N. Ngo**	Viet Nam	Evaluation of the impact of non-coplanar factor on dose criteria in SRS planning for brain metastases
1	309	**L. Nicholas**	Uganda	Implementing stereotactic body radiation therapy (SBRT) in Uganda in relation to biomedical engineering
1	472	**(tbc)**	Pakistan	Impact of collimator angle variability on VMAT planning for head and neck carcinoma
1	344	**K. Sergieva**	Bulgaria	Adjuvant radiotherapy for acinic cell parotid carcinoma in 12 years old girl
1	353	**Ch. C. Lo**	Philippines	Evaluation of daily setup variations on intensity modulated radiotherapy of prostate cancer
1	354	**H. Tachibana**	Japan	Advancements in x-ray CT-based polymer gel dosimetry: clinical applications and accuracy enhancements in radiotherapy
1	427	**J. S. Campos**	Chile	Stereotactic re-irradiation in recurrent prostate cancer: case series from Carlos Van Buren Hospital
1	504	**S. Shabbir**	Pakistan	Robotic stereotactic radiotherapy for intracranial meningiomas: A single center analysis on assessment of efficacy and toxicity

Monitor No.	Paper No.	Author(s) [presenting author in bold]	Designating Member State/Organization	Title of Paper
1	513	**Z. Rasool**	Pakistan	Comparing radiotherapy schedules for bone metastasis pain relief
1	710	**F. Z. Chraa**	Morocco	Bilateral breast cancer: A report of 27 cases
1	637	**U. Tsegme**	Mongolia	An investigation of the best setting of collimator angles in automatically generated volumetric modulated arc therapy for nasopharyngeal cancer
1	668	**(tbc)**	Argentina	Improving the quality of SBRT in prostate cancer in LATAM: the initiative of the HUG working group
1	669	**(tbc)**	Argentina	Evaluation of the state of the art of SBRT in prostate cancer in Latin America.
2	779	**U. M. Gamboa**	Mexico	Role of re-irradiation in pediatric patients
2	554	**M. Zaghloul**	Egypt	Radiotherapy (RT) utilization and completion among pediatric brain tumor patients treated at children's cancer hospital Egypt (CCHE) between 2008 2009 and 2020
2	598	**L. Baptista**	Brazil	Volumetric modulated arc therapy: A superior approach for pediatric craniospinal irradiation?
2	660	**N. Scapellato**	Argentina	Evolution of planning techniques for craniospinal radiotherapy at Hospital de Pediatría Garrahan
2	557	**S. Zarraa**	Tunisia	Prognosis and neurological sequelae of children treated for central nervous system tumor
2	765	**B. Agdi**	Morocco	Mortality rate in esophageal cancer patients treated with RCC
2	802	**(tbc)**	Pakistan	Navigating unforeseen challenges in SRS and SBRT: lessons learned from cyberknife experience of 2 years
2	458	**(tbc)**	Pakistan	Treatment outcomes of stereotactic radiotherapy in patients of pituitary adenoma using cyberknife: A single-center study using different irradiation schemes
2	555	**(tbc)**	India	Efficacy and safety of cyberknife stereotactic radiosurgery for

Monitor No.	Paper No.	Author(s) [presenting author in bold]	Designating Member State/Organization	Title of Paper
				intracranial arteriovenous malformations
2	651	**Sh. Sharmin**	Bangladesh	Title: optimizing management of pediatric thyroid cancer in Bangladesh: dosing strategies, side effects, and treatment outcomes
2	683	**A. H. Ng**	Malaysia	Cost-saving approach for total body irradiation using c-arm linear accelerator-based volumetric modulated arc radiotherapy
2	684	**(tbc)**	Egypt	Adjuvant treatment of pediatric choroid plexus carcinoma; outcomes and toxicities
2	693	**F. Z. Chraa**	Morocco	Bowel function and bother after radiation therapy in prostate cancer patients: insights from a prospective study
2	694	**A. Majdi**	Morocco	Psychological impact of lung cancer diagnosis
2	705	**F. Z. Chraa**	Morocco	Childhood medulloblastoma: management, outcomes and challenges
2	758	**B. Agdi**	Morocco	Quality of life in patients with oesophago-gastric cancer
2	761	**I. Lahlali**	Morocco	Prognostic factors in oesophageal cancer treated with exclusive radiochemotherapy
2	763	**I. Lahlali**	Morocco	A night's experience of brachytherapy with applicator in place
3	303	**E. Moustafa**	Egypt	Chitinase from trichoderma viride and radiation boosted p62 expression triggers concomitant autophagy and apoptosis in a rat hepatocellular carcinoma model
3	373	**P. Kosik**	Slovakia	New biomarkers of glioblastoma and curcumin for the treatment of cognitive impairment
3	376	**L. Tomasova**	Slovakia	Effect of ionizing radiation on gene rearrangements in haematopoietic stem cells
3	381	**L. Zastko**	Slovakia	DNA repair focus formation and apoptosis in human lymphocytes after low-dose gamma rays

Monitor No.	Paper No.	Author(s) [presenting author in bold]	Designating Member State/Organization	Title of Paper
				irradiation and treatment with calyculin A
3	589	**M. Talbi**	Morocco	Optimizing treatment precision with radiobiological modeling for complex VMAT plans in prostate and head-and-neck cancers
3	409	**Y. Lusiyanti**	Indonesia	Identification of acrocentric chromosome associations (ACA) biomarkers in x-ray irradiated lymphocyte blood samples.
3	521	**D. Nantajit**	Thailand	Targeting BRD4 mediates radiosensitization of cervical cancer organoids through ferroptosis
3	346	**L. Chu**	Viet Nam	Evaluation of hypofractionated radiotherapy planning outcomes for breast cancer base on TCP/NTCP radiobiological models at k hospital
3	392	**R. B. Saragih**	Indonesia	Designing an accurate radioactive dose scheme using spectrum radiation and ionization molecular software (SRIM/TRIM): investigating the effects of particle destruction and ionization on biological tissues
3	332	**P. Strojan**	Slovenia	The importance of determining the p16 status in squamous cell carcinoma of the oropharynx (SCC-OP)
3	352	**L. Negrin**	Argentina	Decoding of radiobiological mechanisms involved in continuous irradiation with β- emitters
3	470	**M. Mezaguer**	Algeria	Long-term biological effect of radioactive iodine treatment on an experimental animal model
3	588	**F. Marzook**	Egypt	In-silico bioinformatics studies of novel triazine derivative, radiolabelling, in-vitro and in-vivo bioevaluation
3	370	**D. Seresova**	Slovakia	Effect of phytochemicals on genetic instability induced by therapeutic doses of ionizing radiation
3	412	**H. Handoko**	Indonesia	Conserved methylation signature accurately predicting heavily irradiated CNS tumour with perplexing histopathology

Monitor No.	Paper No.	Author(s) [presenting author in bold]	Designating Member State/Organization	Title of Paper
3	687	**(tbc)**	Egypt	H3k27m-mutant midline glioma: clinical characteristics and outcomes
3	700	**W. Altei**	Brazil	Ionizing radiation in women undergoing breast cancer treatment with breast reconstruction: the use of plasma-derived extracellular vesicles as biomarkers for response
4	311	**L. Nicholas**	Uganda	Roadmap for establishing a modern radiation oncology facility in Uganda
4	326	**J. A. Flores**	Philippines	Radiotherapy services in the Philippines: exploring geographical barriers to improve access to care
4	359	**G. K. Jain**	India	Critical considerations for the establishment of a state of art radiotherapy centre in a developing country: A radiation protection officer perspective
4	329	**D. Granin**	Russian Federation	Russian equipment for clinical dosimetry. Development of the industry.
4	333	**(tbc)**	Costa Rica	Education of radiation therapists (RTTs) in Latin America. "Enhancing education for radiation therapists in Latin America: A descriptive analysis of current training and professional development in radiotherapy administration
4	357	**R. Ramadhan**	United Republic of Tanzania	Establishment of the first MSC medical physics program in Tanzania
4	377	**N. Fergane**	Algeria	Implementation of the second edition of the IAEA TRS-398 code of practice at Pierre and Marie curie radiotherapy center of Algiers
4	385	**M. N. Hossain**	Bangladesh	Human resource development program for medical physicists under IAEA RCA projects in Bangladesh
4	390	**F. Paulo**	United Republic of Tanzania	Radiation therapists training in Tanzania: success stories and challenges

Monitor No.	Paper No.	Author(s) [presenting author in bold]	Designating Member State/Organization	Title of Paper
4	431	**C. C. B. Viegas**	Brazil	25 years of external auditing with postal kits for photon energies in radiotherapy in Brazil
4	432	**C. C. B. Viegas**	Brazil	Dose audits of heterogeneity correction algorithms in radiotherapy treatment planning systems in Brazil
4	435	**A. R. P. da Cruz**	Brazil	Alanine dosimetry for radiotherapy quality control: a strategic approach for Latin America
4	439	**(tbc)**	Cameroon	Radiotherapy and ENT cancers: impact on oral and dental health in a low resource setting
4	366	**V. Raveendran**	India	Structural quality indicators in radiotherapy for improved global standards
4	459	**M. Abdulhamid (tbc)**	Nigeria	Analysis of structural shielding design of 6MV, 10MV and 18MV flattening filter free linear accelerator
4	558	**S. Zarraa**	Tunisia	A dosimetric and radiobiological evaluation of simultaneous integrated boost and FFF beam during locoregional radiotherapy for left breast cancer
4	560	**H. Ammar**	Egypt	Volumetric-modulated arc therapy treatment planning for craniopharyngioma cancer with flattened beam and flattening filter free using physical and biological cost functions
4	764	**(tbc)**	Brazil	Temporal trends in rectal, colon, and sigmoid cancer mortality in Brazil: A focus on sex and regional disparities

11:15–12:15 Session 17: Hypofractionation **Board Room B/M1**

Chairpersons: L. Cordero, IAEA
M. Santos, Brazil

Time	Name		
11:15–11:30	**A. Baeyens**	Belgium	Radiobiology of Hypofractionation
11:30–11:45	**P. Hoskin**	United Kingdom	Hypofractionation: when less is more
11:45–12:00	**M. Roach**	United States of America	Controversies in Altered Fractionated treatment of Prostate Cancer
12:00–12:15		Q&A	

Time	Session Title
12:15–13:45	*Lunch Break*

12:15–13:15 SIDE EVENT: **M6**
Strengthening Radiotherapy Services in LMICs: From Planning to Financing for Sustainable Expansion

Speakers:

13:45–14:45 SESSION 18-PANEL DISCUSSION: **Board Room B/M1**
Bridging Global Gaps in Education and Training-IAEA Resources for Training and Education

Chairpersons: S. Ndarukwa, IAEA
G. Velez, IAEA

	Name	
	I. Ward	New Zealand
	M. Leech	Ireland
	S. Gondhowiardjo	Indonesia
	T. Olasinde	Nigeria
	T. Kron	Australia

14:45–15:45 Session 19A: Theranostics **Board Room B/M1**

Chairpersons: D. Paez, IAEA
N. Taunk, United States of America

Time	Name		
14:45–15:00	**S. Fanti**	Italy	Advancing Prostate Cancer Management: The Role of PSMA Theranostic Applications
15:00–15:15	**N. Taunk**	United States of America	Novel Targets and Novel Alpha Emitters
15:15–15:30	**J. M. Michalski**	United States of America	Role of Radiopharmaceutical Therapy for the Radiation Oncologist
15:30–15:45		*Q&A*	

14:45–15:45 Session 19B: Radiobiology **M2**

Chairpersons: O. Belyakov, IAEA
A. Baeyens, Belgium

Time	Name		
14:45–15:00	**I. Belyaev**	Slovakia	Molecular Markers for Biological Dosimetry in Radiation Protection, Cancer Risk Assessment and Optimizing Radiotherapy
15:00–15:15	**S. Baatout**	Belgium	Radiobiology of FLASH
15:15–15:30	**V. Djonov**	Switzerland	How submillimeter SFRT is changing the radio-oncology treatment
15:30–15:45	**L. Lebaron-Jacobs**	France	Imaging procedures and second primary cancer after radiotherapy.
		Q&A	
15:45–16:30		*Coffee/Tea Break*	

15:45–16:30 **Session 20: Poster Presentations** **Poster Area**

Monitor No.	Paper No.	Author(s) [presenting author in bold]	Designating Member State/Organization	Title of Paper
1	312	**P. F. R. Carmelo**	Peru	Clinical experience with "fast forward" ultra-hypofractionated scheme in breast cancer at IPEN
1	324	**J. D. Kisukari**	United Republic of Tanzania	Investigation of the effectiveness and safety of the treatment planning techniques in conventional and hypo-fractionated regimens for prostate cancer using an equivalent uniform dose-based program
1	351	**B. Q. Bieu**	Viet Nam	Stereotactic body radiation therapy applications for lung and liver cancers in Viet Nam: outcomes from RAS/6/085
1	647	**(tbc)**	Bangladesh	Design, fabrication, and validation of customized 3D-printed end-term applicators for electron beam therapy
1	335	**T. Saghatelyan**	Armenia	Utilization rate of radiation therapy for lung cancer in Armenia: analysis from 2020 to 2023.
1	398	**R. Brown**	Australia	Independent dosimetry audits: seeking equality in patient care, outcomes and safety across Australia and New Zealand
1	648	**H. Kanan**	Jordan	Commissioning and validation of HDR total skin electron therapy: A medical physics perspective
1	791	**C. N. Nyongesa**	Kenya	KNH-HBCRT: hypofractionated breast cancer radiotherapy for one-week (Wiki Moja) versus three-week randomized phase 3 trial KNH cohort, AKA "Wiki Moja Breast Cancer Study"
1	417	**F. Costa**	Portugal	Searching for the best treatment planning technique using ultrahypofractionation in breast cancer
1	505	**M. B. S. Baig**	Pakistan	Efficacy of SFRT using lattice radiotherapy treatment (LRT) in palliation of advanced tumors: A single center experience
1	604	**U. Nabidaze**	Azerbaijan	Results of lattice-spatially fractionated radiotherapy in

Monitor No.	Paper No.	Author(s) [presenting author in bold]	Designating Member State/Organization	Title of Paper
				patients with locally advanced non-small cell lung cancer
1	626	**M. Ait Erraisse**	Morocco	Hypofractionation in bladder carcinoma
1	652	**N. Lo**	United States	Memory circuit dosimetry in patients treated with stereotactic radiosurgery for brain metastases
1	677	**C. Nguyen**	United States	ALPS: an automated lattice radiotherapy planning suite
1	347	**L. Chu**	Viet Nam	Evaluating dose distribution to the volume regions of VMAT treatment plans using 6MV, 6FFF, 10MV and 10FFF beams for cervical cancer treatment at Hospital K
1	534	**(tbc)**	Egypt	SBRT reirradiation for recurrent or 2nd primary head & neck
1	670	**(tbc)**	Bangladesh	Hypofractionated locoregional radiotherapy of 40 GY in 15 fractions in post mastectomy breast cancer patients in a single center experience
1	706	**F. Z. Chraa**	Morocco	Stereotactic radiotherapy in oligometastatic prostate cancer
2	395	**O. Hamada**	Egypt	Cholangiocarcinoma: percutaneous transhepatic cholangiography in the era of magnetic resonance cholangiopancreatography
2	404	**H. Omar**	Egypt	Electromagnetic navigation with computed tomography and real-time sonography fusion imaging for guidance of percutaneous locoregional interventional therapy in hepatocellular carcinoma
2	645	**M. Djaroum**	France	Traceability of average glandular dose in digital mammography for breast cancer screening
2	632	**A. Akhter**	Bangladesh	Optimizing bone lesion detection in cancer patients: A comparative analysis of qualitative and quantitative SPECT-CT imaging in 99mtc-mdp bone scans
2	781	**I. Lahlali**	Morocco	Impact of tracheostomy on radiotherapy course
2	424	**(tbc)**	Egypt	Comparison between c-arm cone beam computed tomography and

Monitor No.	Paper No.	Author(s) [presenting author in bold]	Designating Member State/Organization	Title of Paper
				interventional angiography in transarterial chemoembolization of hepatocellular carcinoma
2	491	**H. Omar**	Egypt	Evaluation of combined transcathter arterial chemoembolization (TACE) with percutaneous ethanol injection (PEI) vs. (TACE) for unresectable hepatocellular carcinoma
2	374	**D. Kochanova**	Slovenia	Analysis of DNA damage and genomic instability in interventional radiologists
2	492	**H. Omar**	Egypt	Value of 18FFDG PET/CT in guiding management of facet joint arthropathy
2	490	**H. Omar**	Egypt	The role of FDG-PET/CT in the characterization of extra-hepatic diseases in patients with hepatocellular carcinoma
2	712	**M. Farina**	Morocco	Difficulties and challenges in the management of a patient with a pacemaker in radiotherapy
2	717	**(tbc)**	Tunisia	Safety and efficacy of hypofractionated radiotherapy for prostate cancer: first results from a Tunisian cohort
2	768	**S. Smiti**	Morocco	The response to treatment of patients treated for cervical cancer during COVID in Morocco
2	770	**S. Smiti**	Morocco	Nasopharyngeal cancer in young people: the particularities
2	774	**(tbc)**	Morocco	Evaluation of breast radiotherapy with boost at the national oncology institute of rabat: real-world data
2	775	**A. Majdi**	Morocco	Psychological impact of auditory disorders following radiotherapy for head and neck cancer: A 5-year retrospective study
2	780	**I. Lahlali**	Morocco	Safety and response rate of short-course brachytherapy for locally advanced cervical cancer
2	784	**S. Krishnamoorthy**	Oman	Palliative radiotherapy with simultaneous integrated boost for symptomatic advanced breast cancer: A retrospective study

Monitor No.	Paper No.	Author(s) [presenting author in bold]	Designating Member State/Organization	Title of Paper
3	408	**D. F. Bramantyo**	Indonesia	Impact of national holidays on breast cancer radiotherapy treatment time: the case for hypofractionation over conventional fractionation.
3	725	**U. Tsegme**	Mongolia	Introduction of stereotactic body radiation therapy for liver and lung cancers in Mongolia
3	365	**A. R. Reillo**	Philippines	Cost evaluation of hypofractionated versus conventionally fractionated post-mastectomy radiotherapy: an activity-based, cost-minimization and potential income analysis in a tertiary government hospital in the Philippines
3	338	**(tbc)**	Japan	Multicenter verification of plan review systems in radiotherapy
3	342	**D. S. K. Sihono**	Indonesia	Dose prediction of lung intensity modulated radiotherapy planning using gradient boosting decision trees and random forest models
3	501	**J. Al-Tuweity**	Yemen	Challenges and opportunities in medical physics education in Yemen: A survey-based analysis of barriers, needs, and strategic solutions
3	502	**(tbc)**	Indonesia	Technological advances and challenges in radiation oncology: bridging innovation and accessibility
3	592	**B. Compaore**	Burkina Faso	Setting up the first radiotherapy center in Burkina Faso: challenges and prospects
3	593	**B. Kidaya**	United Republic of Tanzania	Healthcare-seeking behaviors and factors influencing non-adherence among cervical cancer patients attending Bugando Oncology Clinic in Mwanza, Tanzania: A qualitative phenomenological study.
3	649	**(tbc)**	Zimbabwe	Radiation therapy planning for cervical and prostate cancer: an exploration of conformity and homogeneity indices at a central hospital in Zimbabwe
3	654	**R. B. Amor (tbc)**	Tunisia	Assessing the implementation of advanced radiotherapy techniques in a low-middle income country: A

Monitor No.	Paper No.	Author(s) [presenting author in bold]	Designating Member State/Organization	Title of Paper
				satisfaction survey of radiation therapists
3	674	**A. A. Jacinto**	Brazil	IMRT implementation is associated with improved overall survival for nasopharyngeal carcinoma in a reference cancer center from a middle-income country
3	673	**Julia de Oliveira Dias**	Brazil	Radiobiological effects of extreme hypofractionation in head and neck cancer cells: establishing experimental models in a reference Brazilian Cancer Hospital
3	666	**M. Goss**	United States	Advancing medical physics education: AAPM/HUG/UAMP collaboration for a resilient Ukraine
3	523	**A. Allouzie**	Jordan	Prospective study evaluating the impact of deep inspiratory breath hold in the treatment of right breast cancer with regional lymph node irradiation
3	563	**J. Khader**	Jordan	KHCC as a pillar of leadership in cancer education in the region
3	788	**F. Hasford**	Ghana	Education and training of medical physicists in the context of cancer control in Ghana
4	610	**Y. Lahfi**	Syrian Arab Republic	Radiation safety assessment from hyperthyroidism patient treated with radioiodine-131
4	368	**(tbc)**	India	A study on the comparative analysis of iridium-192 and cobalt-60 source for high dose rate brachytherapy for treatment of cervical cancer
4	468	**(tbc)**	Pakistan	Dosimetric feasibility and acute side effects with high dose rate CT -guided three-dimensional brachytherapy in carcinoma cervix: experience at NORIN Hospital
4	793	**C. Trauernicht**	South Africa	3D-printed s-tubes for the treatment of cervical cancer with high-dose rate brachytherapy
4	423	**A. C. A. Ekobena**	Cameroon	Radiation protection measures applied during the endocavitary brachytherapy of cervical cancer patients at the Yaoundé General Hospital

Monitor No.	Paper No.	Author(s) [presenting author in bold]	Designating Member State/Organization	Title of Paper
4	438	**L. Farhat**	Tunisia	Comprehensive quality control program for high-dose-rate brachytherapy: ensuring accurate and safe treatment delivery
4	520	**(tbc)**	Bangladesh	The necessity, need, and importance of a brachytherapy patient transfer table in Bangladesh radiotherapy units
4	571	**(tbc)**	Paraguay	Cost analysis of cervical cancer treatment at different stages: implications for national cancer control strategies in Paraguay
4	573	**T. Kron**	Australia	Development of national audits for special procedures: total skin electron therapy
4	625	**M. Ait Erraisse**	Morocco	Learning curve in breast boost brachytherapy
4	430	**(tbc)**	United Arab Emirates	Quantifying the effects of bladder and rectum changes on prostate radiotherapy and the necessity for adaptive planning
4	483	**F. Sabaya**	United Republic of Tanzania	Medical practitioners' awareness of radioactive iodine use in treating thyroid carcinoma and graves' disease: A study at ocean road
4	507	**R. Bakenova**	Kazakhstan	Radiotherapy dosimetry audit for the linacs in republic of Kazakhstan
4	509	**V. Bali**	Albania	Benefits and challenges of implementing stereotactic radiosurgery (SRS) in cranial tumor treatment in Albania: local experience from 2013-2023 and comparison with international practices
4	619	**W. Alhajal**	Jordan	Bladder filling impact on planning dosimetry in prostate cancer patients undergoing MR-based adaptive stereotactic body radiotherapy
4	681	**H. Alsaleh**	Saudi Arabia	A step towards MR-only brachytherapy planning: Zero-TE MRI for interstitial needle reconstruction

Monitor No.	Paper No.	Author(s) [presenting author in bold]	Designating Member State/Organization	Title of Paper
4	699	**(tbc)**	Canada	Disparities in access to stereotactic radiosurgery for brain metastases in Brazil: an observational analysis
4	794	**(tbc)**	Mexico	Stereotactic radiosurgery for tremor: center experience

16:30–18:00 **Session 21A: Workshop on Research- Rewrite, Respond, Repeat: The Art of Reviewers Communication** **Board Room B/M1**

Chairperson: S. Salem, IAEA

Time	Name		
16:30–17:03	**B. Li**	United States of America	Pro tips for how to write a research paper (and get it accepted): A Guide from Start to Finish
17:03–17:36	**S. Wadi-Alramahi**	United States of America	Rewrite, Respond, Repeat: The Art of Reviewer Communication
17:36–18:00	**M. Mallafré-Larrosa**	Spain	Global Research Grant Opportunities

16:30–18:00 **Session 21B: Workshop on Image-Guided Brachytherapy for Cervical Cancer** **M3**

Chairpersons: S. Ndarukwa, IAEA

Time	Name	
	U. Mahantshetty	India
	A. Jhingran	United States of America

16:30–18:00 **Session 21C:** **M6**
Proffered Papers

Chairpersons:

C. Jabbour, Lebanon

S. Kamer, Turkey

Paper No.	Author(s) [presenting author in bold]	Designating Member State/Organization	Title of Paper
406	**J. V. Rosales**	Costa Rica	Didactic Experiment: Contouring in reverse
570	**N. Esiashvili**	United States	Addressing Global Education in Pediatric Radiotherapy through the development of E-Contouring module
375	**B. Cuervo; A. Rosich**	Uruguay	Comparison and validation of AI-based auto-segmentation of the prostate on CT scans against manual segmentation by senior Latin American radiation oncologists: Validation of an open-source software.
500	**L. Court**	United States	A multi-institutional review of clinical acceptability of the Radiation Planning Assistant
428	**J. S. Campos**	Chile	A novel CT-based radiomic analysis for the prediction of overall survival in rectal cancer patients treated with short course rt total neoadjuvant therapy
713	**(tbc)**	India	Evaluation of Contoured Volumes and Dosimetric Indices Following ESTRO-EANO Contouring Guidelines for Glioblastoma: A Comparative Study of Recent and Previous Guidelines
653	**A. C. Pellizzon**	Brazil	Disparities in delineation between trained and non-trained radiation oncologists in tridimensional planned gynecological brachytherapy
524	**E. Karaman**	Turkey	Factors Influencing the Impact of MRI Distortion Correction on Target Delineation Accuracy for Brain Metastases Treatment
462	**(tbc)**	Egypt	Characterization of Postoperative Changes after Tumor Resection: Role of PET/CT, Fused MRI
580	**T. Netherton**	United States	A method to expedite quality assurance of head and neck clinical target volumes with lymph node level detection

16:30–18:00 **Session 21D:** **M7**
Proffered Papers

Chairpersons:

I. Ward, New Zealand

S. Chopra, India

Paper No.	Author(s) [presenting author in bold]	Designating Member State/Organization	Title of Paper
360	**V. C. Figueroa**	El Salvador	5 años de experiencia usando la radioterapia espacial fraccionada (GRID-LATTICE) en el tratamiento paliativo de tumores voluminosos en diferentes localizaciones anatómicas.
722	**A. Giselvania**	Indonesia	Spatially Fractionated Radiotherapy GRID and Lattice in the Palliative Treatment of Bulky Tumors: A Single Center Experience
579	**J. Khader**	Jordan	Beyond the Scalpel: SBRT in Stage I Lung Cancer and Lung Metastases
345	**(tbc)**	Mexico	SGRT for breast cancer: Who are the best candidates for this IGRT approach?
707	**J. Lehmann**	Australia	Hypofractionated Radiotherapy for Prostate Cancer: Preliminary Results from the HypoAfrica Study
362	**I. Gulidov**	Russian Federation	Upright proton radiation therapy for chordomas and chondrosarcomas of the skull base
514	**M. Zaghloul**	Egypt	Re-irradiation for the progressive Pediatric Diffuse Intrinsic Pontine Glioma (DIPG): A report on 169 children from a single center
760	**I. Lahlali**	Morocco	What are the dosimetric advantages of volumetric intensity modulated arc radiotherapy over 3D conformal radiotherapy for the treatment of breast cancer?

THURSDAY, 5 JUNE 2025

08:30–09:30 Session 22A: Educational Session-Lung Cancer Board Room B/M1

Chairperson: S. Salem, IAEA
J. Hinojosa, Mexico

Time	Name		
08:30–08:45	**S. Corradini**	Germany	Overview of the SBRT Management of Early Bronchogenic Carcinoma
08:45–09:00	**L. Fong**	United States of America	Motion Management Solutions for SBRT Lung Cancer
09:00–09:15	**Y. Tsang**	Canada	Technical Execution of Lung SBRT: The RTT's Role in Precision and Safety
09:15–09:30		*Q&A*	

08:30–09:30 Session 22B: Educational Session-Head and Neck Cancers M3

Chairperson: I. Ward, New Zealand

Time	Name		
08:30–08:55	**W. Yan**	United States of America	The state of the art in head and neck lymph node irradiation: challenges and updates
08:55–09:20	**J. P. Agarwal**	India	Prevention & management of dysphagia following curative radiotherapy in head neck cancer
09:20–09:30		*Q&A*	

08:30–09:30 Session 22C: Educational Session-Patient Specific QA **M2**

Chairperson: A. Mcknight, IAEA

Time	Name		
08:30–08:55	**A. Toutaoui**	Algeria	Clinical Paradigms and Challenges of PSQA in advanced radiotherapy treatment techniques
08:55–09:20	**S. Kry**	Canada	Validation of PSQA systems employed in advanced radiotherapy treatment techniques
09:20–09:30		*Q&A*	

08:30–09:30 Session 22D: Proffered Papers **M6**

Chairpersons:

S. Ndarukwa, IAEA

O. Spahiu- Albania

Paper No.	Author(s) [presenting author in bold]	Designating Member State/Organization	Title of Paper
450	**(tbc)**	Egypt	Brachytherapy Vs Stereotactic Body Radiotherapy: A Comparative Dosimetric Study in the Carcinoma of the Cervix
546	**G. Petrovska**	North Macedonia	Dosimetric evaluation and comparasion of organs at risk between ultrahypofractioned and hypofractionated radiotherapy in patients with early breast cancer
736	**B. Agdi**	Morocco	Place of HRT and concomitant radio-chemotherapy in the treatment of vaginal cancer
510	**(tbc)**	Turkey	Prognostic Value of Early Treatment Response to Craniospinal Irradiation (CSI) in Diffuse Leptomeningeal Glioneuronal Tumors (DLGNTs): A Case Series
526	**A. C. Pellizzon**	Brazil	Salvage stereotactic ablative radiation therapy (SART) for locoregional recurrence of head and neck cancers previously irradiated.
418	**L. Lebaron-Jacobs**	France	Second Primary Cancer after Radiotherapy – A forthcoming UNSCEAR report

Paper No.	Author(s) [presenting author in bold]	Designating Member State/Organization	Title of Paper

09:30–10:30 Session 23: Particle Therapy Board Room B/M1

Chairpersons: T. Tamaki, IAEA
T. Merchant, United States of America

Time	Name		
09:30–09:50	**S. Laskar**	India	Challenges & Opportunities of Implementing Proton Therapy in LMIC: Indian Experience
09:50–10:10	**D. Georg**	Austria	Innovative New Technologies in Particle Therapy
10:10–10:30	**T. Nakano**	Japan	Clinical Experience of Carbon-Ion Therapy: Experience of 30 years in QST
10:30–11:00		*Coffee/Tea Break*	

10:30–11:00 Session 24: Poster Presentations Poster Area

Monitor No.	Paper No.	Author(s) [presenting author in bold]	Designating Member State/Organization	Title of Paper
1	302	**M. I. Baffa**	Nigeria	Exploring the advancements in proton therapy in radiation oncology
1	410	**(tbc)**	Indonesia	Automation of mini ridge filters and energy degraders for cyclotron-based proton brain cancer radiotherapy
1	319	**Z. Lebedeva**	Russian Federation	Development of proton radiotherapy in Russia
1	548	**(tbc)**	India	Dosimetric characteristics of parallel plate chamber in photon beams
1	567	**(tbc)**	Pakistan	Brain radiosurgery with cyberknife: comparison between fixed and IRIS collimator plans single institute experience
1	605	**M. Abdelaziz**	Egypt	Efficacy and dosimetric analysis of stereotactic body radiation

Monitor No.	Paper No.	Author(s) [presenting author in bold]	Designating Member State/Organization	Title of Paper
				therapy (SBRT) using 6 MV flattening filter-free (FFF) beams for single and multiple lung lesions in unilateral and bilateral lungs
1	615	**I. Aligrudic**	Montenegro	Stereotactic radiotherapy with VMAT technique in cranial metastases: an analysis of cases with one and two metastases
1	633	**P. K. D. P. Alahakoon**	Sri Lanka	Dosimetric feasibility of fast forward breast radiotherapy using co-60 for right-sided breast cancer in a resource limited setting
1	318	**P.Sando**	Togo	Évaluation de la réponse à la radiothérapie à visée antalgique dans les métastases osseuses : étude prospective à propos de 56 cas
1	325	**(tbc)**	Bangladesh	Monte Carlo dosimetric study in homogeneous & inhomogeneous media compared with AAA & acuros (AXB)
1	737	**I. Lahlou**	Morocco	Effectiveness and tolerance of radiotherapy in the treatment of laryngeal cancer
2	635	**B. Garcia**	Peru	Development of an on-site auditing program for radiosurgery
2	711	**H. Ayouni**	Tunisia	Dosimetric and radiobiological comparison between three-dimensional conformal radiotherapy (3D-CRT) and volumetric modulated arc therapy (VMAT) in the treatment of synchronous bilateral breast cancer (SBBC) with internal-mammary-nodes (IMN) irradiation
2	714	**U. K. Utaminingtyas**	Indonesia	Revolutionizing medical physics education in Indonesia: A game-based learning solution
2	716	**F. Villavicencio**	Argentina	Vertebral dose management using volumetric modulated arc therapy technique in paediatric patients with neuroblastoma
2	663	**A. Dias**	Portugal	Development of a dosimetric audit methodology based on the latest revision of the IAEA TRS 398 protocol

Monitor No.	Paper No.	Author(s) [presenting author in bold]	Designating Member State/Organization	Title of Paper
2	572	**M. Hutama**	Indonesia	Evaluation of F-18 production yield enhancement to develop cancer treatment planning availability using PHITS simulation
2	671	**S.L Ulya**	Indonesia	Evaluation of gafchromic EBT 3 and EBT4 film on the dosimetric uncertainty
2	467	**(tbc)**	Pakistan	To study the mean parotid dose and degree of xerostomia in patients of head and neck carcinoma treated with IMRT or VMAT
2	415	**M. Mofya**	Zambia	Design and dosimetry of a 3d-printed grid collimator for telecobalt grid therapy
2	433	**A. Christian**	Indonesia	Modification of the potential radiochromic dosimeter based on ganyong tuber starch and red onion peel extract (allium cepa).
3	698	**W. K. Zhillan**	Indonesia	Borogypsum as a safer and sustainable alternative to concrete in radiotherapy facilities in Indonesia
3	792	**C. N. Nyongesa**	Kenya	Evaluating the impact of HIV on the non-inferiority of accelerated hypofractionated radiation therapy in treating cervical cancer • subtitle: the ENHANCE study
3	518	**S. Shoeir**	Egypt	Total body irradiation: A standardized VMAT approach for precise dosing across all body sizes
3	525	**A. C. Pellizzon**	Brazil	Adjuvant stereotactic body radiation therapy (SBRT) after surgical salvage of locoregional recurrence of head and neck cancers previously irradiated. Are the same risk factors from the first surgery also valid?
3	528	**F. Assaoui**	Morocco	Advancing breast cancer radiotherapy: A dosimetric comparison of helical tomotherapy and 3D-CRT
3	778	**O. Spahiu**	Albania	Transforming radiotherapy in Albania: advancements and contributions to global oncology research

Monitor No.	Paper No.	Author(s) [presenting author in bold]	Designating Member State/Organization	Title of Paper
3	382	**(tbc)**	Bangladesh	Stereotactic radiotherapy (SRT) with rapidarc: challenges and implementation into clinical work in developing countries
3	389	**M. Benarbia**	Algeria	Clinical outcomes and toxicities of HDR brachytherapy in patients with locally advanced cervical cancer
3	461	**L. O. Mejri**	Tunisia	Retrospective and prospective clinical study of 3D-CRT, 3D+E, and VMAT radiotherapy techniques for nasopharyngeal cancer: A collaborative effort between CNO-Mauritania and CNSTN-Tunisia
3	519	**(tbc)**	Pakistan	Clinical outcomes and dosimetric correlation of hybrid brachytherapy in locally advanced squamous cell carcinoma cervix: A study from northern Pakistan
4	602	**(tbc)**	Malaysia	Investigating and evaluating cosmic radiation dosimetry among Malaysian Royal Airforce
4	304	**K. Adhikari**	Nepal	Enhancing diagnostic and therapeutic radiology in Nepal: the role of medical physicists
4	323	**K. Ka**	Senegal	Evolution of radiotherapy techniques in Senegal: technical challenges and descriptive results of patients in different centers
4	327	**B. Li**	Philippines	Contouring practices and educational priorities in southeast Asia: results from a SEAROG survey
4	337	**E. Fiagbedzi**	Ghana	Access to brachytherapy treatment for cervical cancer management in Africa
4	436	**D. A. Pramitasari**	Indonesia	Too far for radiotherapy? Evaluating the effect of distance on radiotherapy utilization in 4 Indonesian provinces
4	437	**(tbc)**	Cameroon	Radiotherapy of pediatric cancers in Cameroon: epidemiological, therapeutic and prognostic aspects
4	466	**L. Dinar**	Indonesia	Strengthening Indonesia's regulatory framework for cervical cancer nuclear medicine through

Monitor No.	Paper No.	Author(s) [presenting author in bold]	Designating Member State/Organization	Title of Paper
				good regulatory practices (GRP) and regulatory impact assessment (RIA): aligning with national cervical cancer elimination plan (NCCEP) and national industrial development master plan (NIDMP) objectives
4	478	**T. Owino**	Kenya	Technological advances in radiation oncology in Africa: future prospects and challenges
4	485	**(tbc)**	Pakistan	Analyzing the influence of collimator angle adjustments on VMAT techniques in prostate cancer radiotherapy
4	401	**S. Sheibani**	Iran, Islamic Republic of	Evaluation of dosimetry parameters for a prototype thermo-brachytherapy 125I seed

11:00–12:00 Session 25: Spatially Fractionated Radiation Therapy (SFRT) **Board Room B/M1**

Chairpersons: S. Salem, IAEA
A. Giselvania, Indonesia

Time	Name		
11:00–11:15	**J. Niedzielski**	United States of America	Introduction-SFRT
11:15–11:30	**J. Yan**	United States of America	PArtial Tumor irradiation targeting HYpoxic segment-SCART
11:30–11:45	**J. Kavanaugh**	United States of America	Physical Aspect about Three different Techniques of SFRT Dose Delivery
11:45–11:55	**S. Salem**	IAEA	IAEA SFRT Global Randomized Controlled Trial
1:55–12:00		*Q&A*	

12:00–12:30 Session 26: Directory of Radiotherapy Centres (DIRAC) **Board Room B/M1**

Chairperson: L. Cordero, IAEA

Time	Name		
12:00–12:10	**M. Carrara**	IAEA	History and Current Status of DIRAC
12:10–12:20	**E. Titovich**	IAEA	Future Direction and Way Forward
12:20–12:25	**L. Duda**	IAEA	Steps to update DIRAC data
12:25–12:30		Q&A	

12:30–13:30		*Lunch Break*	

13:30–14:30 Session 27: Artificial Intelligence in Radiotherapy **Board Room B/M1**

Chairpersons: L. Cordero, IAEA
M. Carrara, IAEA

Time	Name		
13:30–13:50	**H. Elhalawani**	United States of America	A Practical Guide to Clinical Implementation of Artificial Intelligence in Radiation Oncology
13:50–14:10	**L. Court**	United States of America	AI-driven tools to support contouring in radiotherapy treatments
14:10–14:25	**H. Mahmood**	Pakistan	The Potential of E-Learning Interventions for AI-assisted Contouring Skills in Radiotherapy: IAEA study
14:25–14:30		*Q&A*	

14:30–15:00 Closing Keynote **Board Room B/M1**

Chairpersons: T. Tamaki, IAEA
M. Carrara, IAEA

Time	Name		
	S. Shrivastava	India	The Future of Patient Centred Radiotherapy

15:00–15:15 Signing Ceremony **Board Room B/M1**

15:15–16:15 Closing Ceremony **Board Room B/M1**

Time	Name		
15:15–15:24	**T. Tamaki**	IAEA	Highlights
	S. Salem	IAEA	Acknowledgment
	G. Azangwe	IAEA	
15:24–15:34	**M. Abdel-Wahab**	IAEA	Closing Remarks
	N. Mokhtar	IAEA	
15:34–16:15	**T. Tamaki**	IAEA	Award Ceremony
	S. Salem	IAEA	
	G. Azangwe	IAEA	

IAEA PUBLICATIONS RELATED TO THE SUBJECT OF THE EVENT

Publication	Year	Link
Absorbed Dose Determination in External Beam Radiotherapy: An International Code of Practice for Dosimetry Based on Standards of Absorbed Dose To Water	**2024**	https://doi.org/10.61092/iaea.ve7q-y94k
Guidance On Setting Up a Comprehensive Cancer Centre	**2024**	https://doi.org/10.61092/iaea.40dy-lc77
Artificial Intelligence in Medical Physics: Roles, Responsibilities, Education and Training of Clinically Qualified Medical Physicists	**2023**	Artificial Intelligence in Medical Physics | IAEA
Clinical Applications of SPECT–CT	**2023**	Clinical Applications of SPECT–CT | IAEA
Dosimetry in Brachytherapy – An International Code of Practice for Secondary Standards Dosimetry Laboratories and Hospitals	**2023**	Dosimetry in Brachytherapy – An International Code of Practice for Secondary Standards Dosimetry Laboratories and Hospitals | IAEA
Guidelines on Professional Ethics for Medical Physicists	**2023**	Guidelines on Professional Ethics for Medical Physicists | IAEA
National Networks for Radiotherapy Dosimetry Audits	**2023**	National Networks for Radiotherapy Dosimetry Audits | IAEA
PET-CT for the Management of Cancer Patients: a Review of the Existing Evidence	**2023**	PET-CT for the Management of Cancer Patients: a Review of the Existing Evidence | IAEA
Audit Methodology for Medical Physics Clinical Training Programmes	**2022**	Audit Methodology for Medical Physics Clinical Training Programmes | IAEA
Comprehensive Audits of Radiotherapy Practices: A Tool for Quality Improvement	**2022**	Comprehensive Audits of Radiotherapy Practices: A Tool for Quality Improvement | IAEA
Selecting Megavoltage Treatment Technologies in External Beam Radiotherapy	**2022**	Selecting Megavoltage Treatment Technologies in External Beam Radiotherapy | IAEA
Setting Up a Cancer Centre: A WHO–IAEA Framework	**2022**	Setting Up a Cancer Centre: A WHO–IAEA Framework | IAEA
Atlas of Non-FDG PET–CT in Diagnostic Oncology	**2021**	Atlas of Non-FDG PET–CT in Diagnostic Oncology | IAEA
Guidelines for the Certification of Clinically Qualified Medical Physicists	**2021**	Guidelines for the Certification of Clinically Qualified Medical Physicists | IAEA
Postgraduate Medical Physics Academic Programmes	**2021**	Postgraduate Medical Physics Academic Programmes | IAEA
Advances in Radiation Oncology (ICARO-2)	**2020**	Advances in Radiation Oncology (ICARO-2) | IAEA
Regulatory Control of the Safety of Ion Radiotherapy Facilities	**2020**	Regulatory Control of the Safety of Ion Radiotherapy Facilities | IAEA
Introduction of Image Guided Radiotherapy into Clinical Practice	**2019**	Introduction of Image Guided Radiotherapy into Clinical Practice | IAEA
Radiation Protection and Safety in Medical Uses of Ionizing Radiation	**2018**	Radiation Protection and Safety in Medical Uses of Ionizing Radiation | IAEA
Dosimetry of Small Static Fields Used in External Beam Radiotherapy: An International Code of Practice for Reference and Relative Dose Determination	**2017**	Dosimetry of Small Static Fields Used in External Beam Radiotherapy | IAEA

Radiotherapy in Cancer Care: Facing the Global Challenge	**2017**	Radiotherapy in Cancer Care: Facing the Global Challenge | IAEA
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The Transition from 2-D Brachytherapy to 3-D High Dose Rate Brachytherapy	**2015**	The Transition from 2-D Brachytherapy to 3-D High Dose Rate Brachytherapy | IAEA
Radiotherapy Facilities: Master Planning and Concept Design Considerations	**2014**	Radiotherapy Facilities: Master Planning and Concept Design Considerations | IAEA
Development of Procedures for In Vivo Dosimetry in Radiotherapy	**2013**	Development of Procedures for In Vivo Dosimetry in Radiotherapy | IAEA
Record and Verify Systems for Radiation Treatment of Cancer: Acceptance Testing, Commissioning and Quality Control	**2013**	Record and Verify Systems for Radiation Treatment of Cancer: Acceptance Testing, Commissioning and Quality Control | IAEA
Roles and Responsibilities, and Education and Training Requirements for Clinically Qualified Medical Physicists	**2013**	Roles and Responsibilities, and Education and Training Requirements for Clinically Qualified Medical Physicists | IAEA
Radiotherapy in Palliative Cancer Care: Development and Implementation	**2012**	Radiotherapy in Palliative Cancer Care: Development and Implementation | IAEA
Clinical Training of Medical Physicists Specializing in Radiation Oncology	**2010**	Clinical Training of Medical Physicists Specializing in Radiation Oncology | IAEA
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A Syllabus for the Education and Training of Radiation Oncology Nurses	**2008**	A Syllabus for the Education and Training of Radiation Oncology Nurses | IAEA
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13 – 18 October 2025, Chengdu, China

International Conference on Resilience of Nuclear Installations against External Events from Safety Perspective (CN-337)
20 – 24 October 2025, Vienna, Austria

International High-level Forum on NUTEC Plastics (CN-335)
25 – 26 November 2025, Manila, Philippines

International Conference on National, Regional and International Nuclear and Radiological Emergency Preparedness and Response: Facing New and Complex Challenges (CN-338)
1 – 4 December 2025, Riyadh, Saudi Arabia

International Symposium on Artificial Intelligence and Nuclear Energy (CN-334)
3 – 4 December 2025, Vienna, Austria

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