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

2–5 June 2025

PROGRAMME

Organized by the International Atomic Energy Agency (IAEA)

IAEA Headquarters Vienna, Austria

IAEA Secretariat:

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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.

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Read abstracts and full papers of speakers



Participate in voting during sessions



Raise questions to speakers during session



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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
13:00–13:45	Side Event	Supporting Women in the field of Radiation Oncology: Fostering a culture of Safety, Training and Social Support	M3
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 Boar and Leadership Roles: Challenges and Solutions B/M1	
16:45–17:00		Break	
17:00–18:30	5A	Workshop: Reirradiation Board B/M1	
	5B	Proffered Papers	M6
18:30–20:30		Welcome Reception M-Build Ground	

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
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	Delivering Radiotherapy during Humanitarian Crises	M3
12:15–13:15	Side Event	Precision, Innovation, Integration: Progress in Radiotherapy and Collaboration with the IAEA	M2
12:30–13:35	Side Event	IAEA Collaborative Activities to Enhance Global Radiotherapy Capacity	Board Room B/M1
12:15–13:45		Lunch Break	
13:45–14:45	10	Adaptative Radiotherapy	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	15:45–16:30 Coffee/Tea Break		
	12	Poster Presentations	Poster Area

Tuesday, 03 June 2025

Time	Session No.	Session Title / Break	Venue
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

Session No.	Session Title / Break	Venue
14A	Educational session: Genito-Urinary Cancers	Board Room B/M1
14B	Educational session: Insight into Current Al- Based Tools in Radiotherapy Medical Physics	М3
14C		
	Educational session: Gastro-Intestinal Cancers	M2
14D		
	Educational session: Ethical Considerations and Incident Management in Radiotherapy	M5
14E		
	Educational session: VMA1 Total Body Irradiation	M6
15	Technological Advances and Implementational Aspects in Modern Brachytherapy	Board Room B/M1
	Coffee/Tea Break	
16	Poster Presentation	Poster Area
17	Hypofractionation	Board Room B/M1
Side Event	Strengthening Radiotherapy Services in LMICs: From Planning to Financing for Sustainable Expansion	M6
	Lunch Break	
18	Panel Discussion: Bridging Global Gaps inBoarEducation and Training-IAEA Resources forB/M1Training and EducationB/M1	
	No. 14A 14B 14C 14D 14E 15 16 17 Side Event	No.Session Title / Break14AEducational session: Genito-Urinary Cancers14BEducational session: Insight into Current Al- Based Tools in Radiotherapy Medical Physics14CEducational session: Gastro-Intestinal Cancers14DEducational session: Ethical Considerations and Incident Management in Radiotherapy14EEducational session: VMAT Total Body Irradiation15Technological Advances and Implementational Aspects in Modern Brachytherapy16Poster Presentation17HypofractionationSide EventStrengthening Radiotherapy Services in LMICs: From Planning to Financing for Sustainable Expansion18Panel Discussion: Bridging Global Gaps in Education and Training-IAEA Resources for

Time	Session No.	Session Title / Break Venue	
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 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	Al 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

Time	Session No.	Session Title / Break	Venue
15:15–16:15		Closing/Award Ceremony	Board Room B/M1

MONDAY, 2 JUNE 2025

10:00-11:05 OPENING SESSION

Board Room B/M1

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

Time	Name	Designating Member State/Organization	
10:00–10:05	M. Abdel-Wahab	Director, Division of Human Health, IAEA	Welcome
10:05–10:12	N. Mokhtar	Deputy Director General, NA IAEA	Opening Address
10:12–10:20	HE Mr M. B. Haidar	Minister of Labor, 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

Board Room B/M1

Moderator: T. Tamaki, IAEA

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

OPENING KEYNOTE

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

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

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

		Session Title	
13:00–13:45	Side Event	Supporting Women in the field of Radiation Oncology: Fostering a culture of Safety, Training and Social Support	М3
13:00–14:15		Lunch Break	

14:15–15:15 Session 2A: 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	

Time	Name	
15:15-16:00	Session 3:	Poster Area

Session 3: Poster

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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	Тодо	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	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
1	577	S. Das	India	A pilot study on the use radiomics features derived from the predicted dose fluence image for patient

Monitor No.	Paper No.	Author(s) [presenting author in bold]	Designating Member State/Organization	Title of Paper
				specific quality assurance in radiation therapy
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	A. Rosa	Brazil	Radiotherapy physician workforce gap in Brazil: challenges and projections for 2030
2	689	A. Rosa	Brazil	Inequities in travel distances for gynecological radiotherapy access in Brazil: A cross-sectional analysis from 2019 to 2022
2	759	A. Rosa	Brazil	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	515	M. Zaghloul	Egypt	Proton beam therapy in a lower middle-income country: patients' 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	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

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

Monitor No.	Paper No.	Author(s) [presenting author in bold]	Designating Member State/Organization	Title of Paper
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	587	M. Mahmoodvand	Iran	Al-based Radiation Oncology: The Role of Large Language Models and Generative Al 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 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	445	M. El Aslani	Могоссо	Advancing brain tumor detection: optimizing deep learning models with CNNs and quantum neural networks for enhanced MRI analysis
4	657	E. Yadamsuren	Mongolia	Tumor response evaluation of radiation therapy for locally

Monitor No.	Paper No.	Author(s) [presenting author in bold]	Designating Member State/Organization	Title of Paper
				advanced cervical cancer using "magnetic resonance tomography"
4	727	F. Z. Chakib	Могоссо	Management of weight loss and malnutrition during concomitant radiotherapy and chemotherapy in patients with head and neck cancer.
4	731	B. Agdi	Morocco	Malnutrition in oesophagogastric cancer
4	742	B. Agdi	Могоссо	Sleep disorders during radiotherapy and their impact on quality of life in gynecological cancers
4	743	I. Lahlou	Могоссо	The side effects of radiochemotherapy treatment in patients with rectal cancer

16:00-16:45 SESSION 4: PANEL DISCUSSION

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. Sebastián 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: Workshop: Reirradiation

Board Room B/M1

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	Imaging, EQD2 dose and planning: Clinical workflow in re- irradiation cases

17:00-18:30 Session 5B: **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 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

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

М3

08:30–09:30 Session 6B: 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 M2 Advances in Radiotherapy

Time Name 08:30–08:55 T. Kron Australia

Chairperson: G. Azangwe, IAEA

J. Palta

08:55-09:20

09:20-09:30

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

Q&A

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. Yang	United States of America	Essential Standards and Technology for CNS Radiosurgery Program
09:20-09:30		Q&A	

United States of America

Towards Better Outcomes and New Applications

Radiotherapy Data for Quality Care, Outcome Research, and Learning Health System

Harnessing

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 Presentations

Monitor No.	Paper No.	Author(s) [presenting author in bold]	Designating Member State/Organization	Title of Paper
1	746	I. Lahlou	Могоссо	Survival rate of patients with non- small cell lung cancer (NSCLC) treated with concomitant radiochemotherapy
1	380	H. Belmiloud	Algeria	Induction chemotherapy followed by concurrent chemoradiotherapy in the treatment of locally advanced 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	Могоссо	Role of exclusive concurrent chemoradiotherapy in the treatment of esophageal cancer
1	704	F. Z. Chraa	Могоссо	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	735	F. Z. Chakib	Могоссо	The impact of tobacco resumption in patients with aerodigestive cancers following radiotherapy treatment
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

Monitor No.	Paper No.	Author(s) [presenting author in bold]	Designating Member State/Organization	Title of Paper
1	755	B. Agdi	Morocco	Professional impact in tongue cancer
1	744	F. Z. Chakib	Могоссо	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	A. L. Davila	Peru	Single-fraction low-energy superficial x-ray radiation for conjunctival Kaposi sarcoma: a case report
2	739	A. Temani	Algeria	Comparison of dose-to-water versus dose-to-medium in the treatment of nasopharyngeal carcinoma
2	752	I. Lahlou	Могоссо	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	Y.Marlina	Indonesia	The effect of delayed time and prolonged overall treatment time on the overall survival of cervical cancer patients at Dr. Soetomo General Hospital Surabaya
2	682	F. Z. Chraa	Могоссо	Evaluation of cancer patient satisfaction in a radiation therapy department

Monitor No.	Paper No.	Author(s) [presenting author in bold]	Designating Member State/Organization	Title of Paper
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	A. L. Davila	Peru	Transgluteal brachyablation for lymph node recurrence in a high- risk prostate cancer patient following multimodal therapy
2	685	A. Majdi	Могоссо	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	448	Z. Alrahbi	Oman	Assessing random and systematic errors in image- guided radiation therapy across multiple cancer sites: A retrospective review
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

Monitor No.	Paper No.	Author(s) [presenting author in bold]	Designating Member State/Organization	Title of Paper
				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	Могоссо	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 dosimetry in a low resource setting: Uganda's experience
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

Monitor No.	Paper No.	Author(s) [presenting author in bold]	Designating Member State/Organization	Title of Paper
				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	A. L. Davila	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	610	Y. Lahfi	Syrian Arab Republic	Radiation safety assessment from hyperthyroidism patient treated with radioiodine-131
4	506	S. Ashmeg	United States of America	Rebuilding radiotherapy in Sudan: challenges, solutions, and future directions
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

Monitor No.	Paper No.	Author(s) [presenting author in bold]	Designating Member State/Organization	Title of Paper
				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	547	S. Aruah	Nigeria	The status of government-funded radiotherapy centres in Nigeria

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: Delivering Radiotherapy during M3 Humanitarian Crises

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

Time	Name		
11:15–11:30	C. Jabbour	Lebanon	Radiotherapy in Lebanon: In the Middle of Crises
11:30–11:45	L. Mula-Hussain	Canada	Radiotherapy in Iraq: Recovering Radiotherapy Service After Wars and Conflicts
11:45–12:00	M. Reuter- Oppermann	Netherlands	Radiotherapy Continuity after Natural Disasters: Lessons learned
12:00–12:15		Q&A	

Time			
12:15–13:15	Side Event	Precision, Innovation, Integration: Progress in	M2
		Radiotherapy and	
		Collaboration with the IAEA	
12:30–13:35	Side Event	IAEA Collaborative Activities to Enhance Global	Board Room B/M1
		Radiotherapy Capacity	B/WIT
12:15–13:45		Lunch Break	

13:45–14:45 Session 10: Adaptative Radiotherapy Board Room B/M1

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

Time	Name		
13:45–14:00	J. Kavanaugh	United States of America	Simulation Free Adaptative Radiotherapy: New workflow Era
14:00–14:15	G. Sarria	Germany	CT Adaptative Radiotherapy, are we ready for Prime Time?
14:15–14:30	T. Refaat	United States of America	MRI Adaptative Radiotherapy, are we ready for Prime Time?
14:30–14:45		Q&A	

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 (video)	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 M3 Research in LMIC

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	

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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	Могоссо	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. Ainsour	Jordan	Identifying challenges and opportunities during implementation of MR guided radiotherapy technology in low- and-middle- income countries -King Hussein Cancer Center experience
1	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
1	620	L. Farhat	Tunisia	Comparative dosimetric analysis of halcyon and clinac-ix in nasopharyngeal carcinoma
1	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
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

Monitor	Danar	Author(s)	Designating	
No.	Paper No.	[presenting author in bold]	Member State/Organization	Title of Paper
1	469	I. Ahmad	Pakistan	Scatter fraction reevaluation with geant4 Monte Carlo simulations for heterogeneous geometries
1	421	K. Charef	Могоссо	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	576	B. Thomas	India	Validation of dosimetric leaf gap DLG) for high definition (HD)120 MLC: a comparitive study with different small field chambers
2	726	l. Lahlou	Могоссо	Side effects of radiochemotherapy treatment in patients with non-small cell lung cancer (NSCLC)
2	741	F. Z. Chakib	Могоссо	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
2	316	A. Boughalia- Ghaffar	Algeria	Modeling the risk of induced second cancer for prostate carcinoma after helical

Monitor No.	Paper No.	Author(s) [presenting author in bold]	Designating Member State/Organization	Title of Paper
				tomotherapy compared to 3D- CRT
2	364	A. Alem-Bezoubiri	Algeria	Secondary cancer risks assessment in pediatric Hodgkin's lymphoma post- radiotherapy
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	Могоссо	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	Могоссо	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) 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

Monitor No.	Paper No.	Author(s) [presenting author in bold]	Designating Member State/Organization	Title of Paper
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	Могоссо	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	756	J.C.Romero Valencia	México	Radiosurgery and systemic therapy in a patient with multiple brain metastases from breast cancer: report of an exceptional response to treatment
3	771	I. Lahlali	Могоссо	What are the reasons for changing the indication from curative to palliative radiotherapy in localised lung cancer?
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
Monitor No.	Paper No.	Author(s) [presenting author in bold]	Designating Member State/Organization	Title of Paper
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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	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	G. N. Marta	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 cancer management in the region
4	782	U. K. U. Setyo Asih	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	517	M. Mehrabi	Iran, Islamic Republic of	Evaluating the impact of MR- guided adaptive radiotherapy on treatment precision and dosimetry in prostate cancer

Monitor No.	Paper No.	Author(s) [presenting author in bold]	Designating Member State/Organization	Title of Paper
4	639	R. Nyreen	Costa Rica	Technology as a resource for monitoring health and safety of health workers exposed to ionizing radiation
4	662	C. S. Souto	Portugal	Establishment of an uncertainty budget for reference dosimetry

М3

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

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 M2 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. Kovalchukv (video)	United States of America	CSI: Planning, Plan Evaluation, QA, and Treatment Delivery
17:20–17:40		Hands-on contouring	
17:40–18:00		Case discussion	

16:30–18:00 Session 13C:

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	J. Lowenstein	United States	Navigating change: IROC's role in guiding the implementation of updated calibration protocols in radiation therapy
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: Proffered Papers

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Chairpersons:

S. Alanyali, Turkey

A. Giselvania, Indonesia

Paper No.	Author(s) [presenting author in bold]	Designating Member State/Organization	Title of Paper
655	C. H. N. Prihharsanti	Indonesia	Impact of carbogen-enhanced chemoradiation on rectal cancer response: circulating biomarkers mir- 21, and Mir-145
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: 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
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. Liyambo	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 Board Room B/M1 Cancers

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 Al 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

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	Al- Based Tools in Radiotherapy Medical Physics
09:20-09:30		Q&A	

М3

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

Chairpersons: C. Acevedo, IAEA

I. Chitapanarux,	Thailand
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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	

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

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-	Session 14E: Educational Session-VMAT Total
09:30	Body Irradiation

M6

Chairpersons: B. Garcia, Mexico

J. Lucas,	United	States	of	America
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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: Technolo implementational asp brachytherapy		Board Room B/M1
<u>.</u>			
Chairpersons	: E. Fidarova, IAEA S. Shrivastava, India		
Time	•		
	S. Shrivastava, India	India	Access to High-Quality RT for Cervical Cancer: Insights from IAEA study and Brachytherapy Skills Lab Project Tata Memorial Centre
Time	S. Shrivastava, India Name		RT for Cervical Cancer: Insights from IAEA study and Brachytherapy Skills Lab Project Tata
Time 09:30–09:45	S. Shrivastava, India Name S. Chopra	India	RT for Cervical Cancer: Insights from IAEA study and Brachytherapy Skills Lab Project Tata Memorial Centre Implementation of MRI- based Brachytherapy Program: Medical
Time 09:30–09:45 09:45–10:00	S. Shrivastava, India Name S. Chopra S. Nojin Paul	India Qatar	RT for Cervical Cancer: Insights from IAEA study and Brachytherapy Skills Lab Project Tata Memorial Centre Implementation of MRI- based Brachytherapy Program: Medical Physics point of view Artificial Intelligence in

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

Monitor No.	Paper No.	Author(s) [presenting author in bold]	Designating Member State/Organization	Title of Paper
1	751	B. Agdi	Могоссо	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	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
1	513	Z. Rasool	Pakistan	Comparing radiotherapy schedules for bone metastasis pain relief

Monitor No.	Paper No.	Author(s) [presenting author in bold]	Designating Member State/Organization	Title of Paper
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
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	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	693	F. Z. Chraa	Могоссо	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	Могоссо	Childhood medulloblastoma: management, outcomes and challenges
2	758	B. Agdi	Могоссо	Quality of life in patients with oesophago-gastric cancer

Monitor No.	Paper No.	Author(s) [presenting author in bold]	Designating Member State/Organization	Title of Paper
2	761	I. Lahlali	Morocco	Prognostic factors in oesophageal cancer treated with exclusive radiochemotherapy
2	763	I. Lahlali	Могоссо	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 irradiation and treatment with calyculin A
3	589	M. Talbi	Могоссо	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

Monitor No.	Paper No.	Author(s) [presenting author in bold]	Designating Member State/Organization	Title of Paper
				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	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
3	700	W. Altei	Brazil	lonizing 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	438	L. Farhat	Tunisia	Comprehensive quality control program for high-dose-rate brachytherapy: ensuring accurate and safe treatment delivery
4	329	D. Granin	Russian Federation	Russian equipment for clinical dosimetry. Development of the industry.
4	333	K. Ochandorenaces	Uruguay	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

Monitor No.	Paper No.	Author(s) [presenting author in bold]	Designating Member State/Organization	Title of Paper
				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 tt	United Republic of Tanzania	Radiation therapists training in Tanzania: success stories and challenges
4	431	C. C. B. Viegas	Braz	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	366	V. Raveendran	India	Structural quality indicators in radiotherapy for improved global standards
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

11:15–12:15 Session 17: Hypofractionation

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	
12:15–13:15	Side Event	Strengthening Radiotherapy Services in LMICs: From Planning to Financing for Sustainable Expansion	M6
12:15-13:45		Lunch Break	

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

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. Beliaev	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

Monitor	Demen	Author(s)	Designating	
No.	Paper No.	[presenting author in bold]	Member State/Organization	Title of Paper
1	312	P. Fuentes Rivera.	CPeru	Clinical experience with "fast forward" ultra-hypofractionated scheme in breast cancer at INEN
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	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 patients with locally advanced non- small cell lung cancer
1	626	M. Ait Erraisse	Morocco	Hypofractionation in bladder carcinoma

Monitor No.	Paper No.	Author(s) [presenting author in bold]	Designating Member State/Organization	Title of Paper
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	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	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
				guiding management of fa arthropathy The role of FDG-PET/CT

Monitor No.	Paper No.	Author(s) [presenting author in bold]	Designating Member State/Organization	Title of Paper
				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	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	775	A. Majdi	Могоссо	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
3	408	D. Ariyanto	Indonesia	Impact of national holidays on breast cancer radiotherapy treatment time: the case for hypofractionation over conventional fractionation.
t	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	Y. Ishihara	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

Monitor No.	Paper No.	Author(s) [presenting author	Designating Member	Title of Paper
		in bold]	State/Organization	barriers, needs, and strategic solutions
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	654	R. B. Amor	Tunisia	Assessing the implementation of advanced radiotherapy techniques in a low-middle income country: A 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	318	P. SANDO	Senegal	Evaluation of the Response to Palliative Radiotherapy for Bone Metastases: A Prospective Cohort Study of 56 Cases.
4	793	C. Trauernicht	South Africa	3D-printed s-tubes for the treatment of cervical cancer with high-dose rate brachytherapy

Monitor No.	Paper No.	Author(s) [presenting author in bold]	Designating Member State/Organization	Title of Paper
4	423	A. C. A. Ekobena	Cameroon	Radiation protection measures applied during the endocavitary brachytherapy of cervical cancer patients at the Yaoundé General Hospital
4	571	J. R. Martinez	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	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
4	699	A. Rosa	Brazil	Disparities in access to stereotactic radiosurgery for brain metastases in Brazil: an observational analysis

16:30–18:00 Session 21A: Workshop on Research- Rewrite, Boa Respond, Repeat: The Art of Reviewers Communication

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 M3 Brachytherapy for Cervical Cancer

Chairpersons: S. Ndarukwa, IAEA

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

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

Chairpersons:

C. Jabbour, Lebanon

S. Kamer, Turkey

Paper No.	Author(s) [presenti ng author in bold]	Designating Member State/Organization	Title of Paper
406	J. V. Rosale s	Costa Rica	Didactic Experiment: Contouring in reverse
570	N. Esiash vili	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 Al- 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. Campo s	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
653	A. C. Pellizz on	Brazil	Disparities in delineation between trained and non-trained radiation oncologists in tridimensional planned gynecological brachytherapy
524	E. Karam an	Turkey	Factors Influencing the Impact of MRI Distortion Correction on Target Delineation Accuracy for Brain Metastases Treatment
462	H. Abdelh alim	Egypt	Characterization of Postoperative Changes after Tumor Resection: Role of PET/CT, Fused MRI
580	T. Nethert on	United States	A method to expedite quality assurance of head and neck clinical target volumes with lymph node level detection
384	E. Karam an	Turkey	Assessing the Earthquake Vulnerability of Radiotherapy Centres in Türkiye

16:30–18:00 Session 21D: 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
345	J. H. Gomez	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	Могоссо	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 M3 Cancers

Chairperson: I. Ward, New Zealand E. Natelauri, Georgia

Time	Name		
08:30–08:55	W. Yan (video)	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	

Chairperson: A. McKnight, IAEA

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Name		
A. Toutaoui	Algeria	Clinical Paradigms and Challenges of PSQA in advanced radiotherapy treatment techniques
S. Kry	Canada	Validation of PSQA systems employed in advanced radiotherapy treatment techniques
	Q&A	
Session 22D: Proffered Papers	5	M6
Chairpersons:		
S. Ndarukwa, IA	EA	
O. Spahiu- Albar	nia	
Author(s) [presenting author in bold]	Designating Member State/Organization	Title of Paper
G. Petkovska	North Macedonia	Dosimetric evaluation and comparasion of organs at risk between ultrahypofractioned and hypofractionated radiotherapy in patients with early breast cancer
B. Agdi	Morocco	Place of HRT and concomitant radio- chemotherapy in the treatment of vaginal cancer
S. Kamer	Turkey	Prognostic Value of Early Treatment Response to Craniospinal Irradiation (CSI) in Diffuse Leptomeningeal Glioneuronal Tumors (DLGNTs): A Case Series
A. C. Pellizzon	Brazil	Salvage stereotactic ablative radiation therapy (SART) for locoregional recurrence of head and neck cancers previously irradiated.
L. Lebaron- Jacobs	France	Second Primary Cancer after Radiotherapy – A forthcoming UNSCEAR report
	A. Toutaoui S. Kry Session 22D: Proffered Papers Chairpersons: S. Ndarukwa, IA O. Spahiu- Albar Author(s) [presenting author in bold] G. Petkovska B. Agdi S. Kamer A. C. Pellizzon	A. Toutaoui Algeria A. Toutaoui Algeria S. Kry Canada Q&A Q&A Q&A Q&A Q&A Q&A Q&A Q&A

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	T. Septyani	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	605	M. Abdelaziz	Egypt	Efficacy and dosimetric analysis of stereotactic body radiation 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

Monitor No.	Paper No.	Author(s) [presenting author in bold]	Designating Member State/Organization	Title of Paper
				using co-60 for right-sided breast cancer in a resource limited setting
1	737	I. Lahlou	Morocco	Effectiveness and tolerance of radiotherapy in the treatment of laryngeal cancer
1	796	Z. E. Bouraoui	Algeria	Evaluation of morphological changes based on cone beam CT for adaptive radiation therapy
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
2	671	S.L Ulya	Indonesia	Evaluation of gafchromic EBT 3 and EBT4 film on the dosimetric uncertainty
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).
2	697	J. de Oliveira Dias	Brazil	Hypofractionation improving locoregional control for sequential chemoradiotherapy in non-small cell lung cancer
2	603	S. Prajapati	United States	Audits for safe and effective deployment of automated contouring and planning

Monitor No.	Paper No.	Author(s) [presenting author in bold]	Designating Member State/Organization	Title of Paper
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	Могоссо	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
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	658	L. Olveira	Brazil	Impact of script utilization for verification and standardization of radiotherapy treatment plans
3	531	C. Boccaletti	Brazil	How many physicists do we need? A Brazilian point of view
4	602	M. Hazeman	Malaysia	Investigating and evaluating cosmic radiation dosimetry among Malaysian Royal Airforce

Monitor No.	Paper No.	Author(s) [presenting author in bold]	Designating Member State/Organization	Title of Paper
4	304	K. Adhikari	Nepal	Enhancing diagnostic and therapeutic radiology in Nepal: the role of medical physicists
4	323	К. Ка	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	466	L. Dinar	Indonesia	Strengthening Indonesia's regulatory framework for cervical cancer nuclear medicine through 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	401	S. Sheibani	Iran, Islamic Republic of	Evaluation of dosimetry parameters for a prototype thermo- brachytherapy 125I seed
4	532	S. Alhatmi	Oman	Radiotherapy Nurse Roles in the Implementation of LDR Prostate Brachytherapy at Sultan Qaboos Comprehensive Cancer Care and Research Centre – A New Paradigm
4	616	C. Graeff	Ethiopia	Developing dye-based radio- chromic dosimeters for medical and environmental applications
4	444	Ch. H. N. Prihharsanti	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

Monitor No.	Paper No.	Author(s) [presenting author in bold]	Designating Member State/Organization	Title of Paper
4	434	Y. Kirpichev	Cyprus	Patient specific quality assurance for stereotactic treatment in radiation therapy

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. Yang	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 Board Room B/M1 (DIRAC)

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	

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

	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	Managing risk in the clinical deployment of Al-based radiotherapy tools
14:10–14:25	H. Mahmood	Pakistan	The Potential of E- Learning Interventions for Al-assisted Contouring Skills in Radiotherapy: IAEA study
14:25–14:30		Q&A	
14:30–15:00	Closing Keynote		Board Room B/M1
Chairpersons	s: T. Tamaki, IAEA M. Carrara, IAEA		
Time	Name		
Time	Name S. Shrivastava	India	The Future of Patient Centred Radiotherapy
Time 15:00–15:15 15:15–16:15	S. Shrivastava		Centred Radiotherapy
15:00–15:15	S. Shrivastava		Centred Radiotherapy Board Room B/M1
15:00–15:15 15:15–16:15	S. Shrivastava IAEA-EFOMP Signin Closing Ceremony		Centred Radiotherapy Board Room B/M1

Time	Name		
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 LIAEA
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) <u> IAEA</u>
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

Accuracy Requirements and	2016	Accuracy Requirements and Uncertainties
Uncertainties in Radiotherapy		in Radiotherapy IAEA
Implementation of High Dose Rate	2015	Implementation of High Dose Rate
Brachytherapy in Limited Resource		Brachytherapy in Limited Resource Settings
Settings		<u> IAEA</u>
The Transition from 2-D	2015	The Transition from 2-D Brachytherapy to
Brachytherapy to 3-D High Dose Rate		3-D High Dose Rate Brachytherapy IAEA
Brachytherapy		
Radiotherapy Facilities: Master	2014	Radiotherapy Facilities: Master Planning
Planning and Concept Design		and Concept Design Considerations IAEA
Considerations		
Development of Procedures for In Vivo	2013	Development of Procedures for In Vivo
Dosimetry in Radiotherapy		Dosimetry in Radiotherapy IAEA
Record and Verify Systems for	2013	Record and Verify Systems for Radiation
Radiation Treatment of Cancer:		Treatment of Cancer: Acceptance Testing,
Acceptance Testing, Commissioning		Commissioning and Quality Control IAEA
and Quality Control		
Roles and Responsibilities, and	2013	Roles and Responsibilities, and Education
Education and Training Requirements		and Training Requirements for Clinically
for Clinically Qualified Medical		Qualified Medical Physicists IAEA
Physicists		
Radiotherapy in Palliative Cancer	2012	Radiotherapy in Palliative Cancer Care:
Care: Development and		Development and Implementation IAEA
Implementation		
Clinical Training of Medical Physicists	2010	Clinical Training of Medical Physicists
Specializing in Radiation Oncology		Specializing in Radiation Oncology IAEA
Radiation Biology: A Handbook for	2010	Radiation Biology: A Handbook for
Teachers and Students		Teachers and Students IAEA
Transition from 2-D Radiotherapy to 3-	2010	Transition from 2-D Radiotherapy to 3-D
D Conformal and Intensity Modulated		Conformal and Intensity Modulated
Radiotherapy		Radiotherapy IAEA
A Syllabus for the Education and	2008	A Syllabus for the Education and Training of
Training of Radiation Oncology Nurses		Radiation Oncology Nurses IAEA
Setting up a Radiotherapy	2008	Setting Up a Radiotherapy Programme
Programme: Clinical, Medical Physics,		IAEA
Radiation Protection and Safety		
Aspects		
Radiation Oncology Physics: A	2005	Radiation Oncology Physics IAEA
Handbook for Teachers and Students		

PUBLICATIONS

Proceedings

The proceedings (conference report) of the conference will be published by the IAEA as soon as possible after the conference on the conference website.

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FORTHCOMING SCIENTIFIC CONFERENCES SCHEDULED BY THE IAEA

2025

30th IAEA Fusion Energy Conference (CN-336) 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

International Conference on Radiation Protection in Medicine: X Ray Vision (CN-339) 8 – 12 December 2025, Vienna Austria

For information on forthcoming scientific meetings, please consult the IAEA web site: <u>http://www.iaea.org/events</u>