SPEAKERS/INSTRUCTORS



Saleh Bamajboor, MIPEM, CSci Consultant Medical Physicist, Head Section, Medical Physics Dept. Prince Sultan Military Medical City Riyadh, Saudi Arabia



Camelia Constantinescu, PhD Medical Physicist, Oncology Department KFSH&RC-Jeddah, Saudi Arabia



François DeBlois, Ph.D. FCCPM
Assistant Professor, McGill University
Chief Physicist, Division of Radiation Oncology
Jewish General Hospital, Montréal, Québec



Osama Hassad, BSc, CMD Medical Dosimetrist, Biomedical Physics Department, KFSH&RC-Riyadh, Saudi Arabia



Hussain AlHussain, MD Consultant, Radiation Oncology King Fahad Medical City Riyadh, Saudi Arabia



Mohammad Hussain, MSc Medical Physicist, KFSH&RC-Jeddah, Saudi Arabia



Abrar Hussain, PhD, DABR Medical Physicist, Biomedical Physics Department, KFSH&RC-Riyadh, Saudi Arabia



Noha Jastaniyah, MD, FRCPC Consultant, Radiation Oncology Oncology Centre KFSH&RC-Riyadh, Saudi Arabia



Abdullah Al-Kafi, MSc, DABR Medical Physicist, Biomedical Physics Department, KFSH&RC-Riyadh, Saudi Arabia



Yasser Khafaga, MDConsultant, Radiation Oncology
Oncology Centre
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Belal Moftah, PhD, FCCPM Head, Radiation Oncology Physics Chairman, Biomedical Physics Dept. KFSH&RC-Riyadh, Saudi Arabia



Umar Mwidu, MSc, DABR Medical Physicist, Biomedical Physics Department, KFSH&RC-Riyadh, Saudi Arabia





2017 RADIATION IN MEDICINE SYMPOSIUM & WORKSHOP

KING FAISAL SPECIALIST HOSPITAL &

RESEARCH CENTRE, RIYADH, SAUDI ARABIA

PROGRAM HIGHLIGHTS



- Knowing how the planning systems works
- Learning the various parameters of optimization used in regular IMRT and in VMAT
- Discussing the pros and cons of FFF beams
- Small beam dosimetry
- Hands-on workshops on contouring (head and neck example), VMAT, Tomotherapy and Cyberknife
- Special treatment techniques (Cyberknife, Tomotherapy, and Gamma Knife)
- Heterogeneity corrections, TPS QA and plan QA

RADIOTHERAPY TREATMENT PLANNING:

WHAT YOU OUGHT TO KNOW



MONDAY-TUESDAY, 13-14 FEBRUARY 2017
VENUE: POST-GRADUATE CENTRE

CHAIR: Shada Wadi-Ramahi, PhD Email: salramahi92@kfshrc.edu.sa Tel. No.: 0112162919 ext. 42725

SPEAKERS/INSTRUCTORS



Waleed Al-Najjar, PhD, DABR
Chief Medical Physicist,
Radiation Oncology Physics Section
Biomedical Physics Department
KFSH&RC-Rivadh Saudi Arabia



Ghadeer Nazer, BSc, CMD Medical Dosimetrist, Biomedical Physics Department, KFSH&RC-Rivadh, Saudi Arabia



Ahmad Nobah, MSc, DABR Medical Physicist, Radiation Oncology Physics Section Biomedical Physics Department KFSH&RC-Riyadh, Saudi Arabia



Mohamed Rizwanullah, MD Consultant, Radiation Oncology Oncology Centre KFSH&RC-Riyadh, Saudi Arabia



Fathy Saeedi, PhD Physicist, King Abdulaziz Medical City Jeddah, Saudi Arabia



Wedyan Safar, BSc, CMD Medical Dosimetrist, Biomedical Physics Department, KFSH&RC-Riyadh, Saudi Arabia



Mohammad Al-Shabanah, MD Head, Radiation Oncology Acting Director, Oncology Centre KFSH&RC-Riyadh, Saudi Arabia



Mukhtar Alshanqity, PhD, DABR Consultant Physicist & Head, Medical Physics Comprehensive Cancer Center King Fahad Medical City, Riyadh, Saudi Arabia



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Shada Wadi-Ramahi, PhD, DABRChief Medical Physicist, Radiation Oncology
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Faisal Al-Zorkany, MSc Medical Physicist, Radiation Oncology Physics Section, Biomedical Physics Department KFSH&RC-Riyadh, Saudi Arabia

PROGRAM LAYOUT

DAY 1, MONDAY, FFBRUARY 13, 2017

DAY I,	MUNDAY, FEBRUARY 13, 2017					
Time						
07:30 - 08:30	Registration					
	SESSION I					
08:30 - 08:50	L1: Introduction and Evolution of Treatment Planning Systems (TPS) Speaker: Mr. Osama Hassad					
08:50 - 09:10	L2: Patient setup: CT simulation and delivery consideration (planning perspective) Speaker: Mrs. Afrah Al-Somali					
09:10 - 09:40	L3: 3D Planning Techniques Speaker: Dr. Fathi AlSaeedi					
09:40 - 10:00	L4: Image registration. Tips and pointers from a clinical perspective – pelvic example Speaker: Dr. Noha Jastaniyah					
10:00 - 11:00	OPENING CEREMONY & MORNING BREAK					
SESSION II						
11:00 - 11:30	L5: Inverse Planning Techniques: Explanation of parameters: FP vs IP; Dose Constraint, Normalization, Optimization, Modulation Speaker: Mrs. Ghadeer Al-Nazer					
11:30 - 12:15	M1: Mini workshop - Contouring. Head & neck example Speaker: Dr. Mohamed Rizwanullah					
12:15- 13:15	PRAYER & LUNCH BREAK					
SESSION III						
13:15 - 13:40	L6: TPS QA Speaker: Dr. Camelia Constantinescu					
13:40 - 14:10	Quantitative Evaluation and Quality Control of Treatment plans Speaker: Dr. Francois DeBlois					
14:10 - 14:35	L8: Treatment Planning Algorithms Speaker: Dr. Mukhtar Al-Shanqity					
14:35 - 15:00	L8: L9: Effect of heterogeneity Corrections in planning: Lung, bone and high Z materials. Discussion includes TG63 and TG65 protocols Speaker: Dr. Shada Wadi-Ramahi					
15:00 - 15:30	PRAYER & AFTERNOON BREAK					
	SESSION IV					
15:30 - 16:00	L10: TG-114 MU verification Speaker: Mr. Umar Mwidu					
16:00 - 16:30	L11: FFF or FF beams? Pros & Cons Speaker: Dr. Abrar Hussain					
16:30 - 17:00	L12: Incidents in Treatment planning Speaker: Dr. Belal Moftah					

17:00 - 17:30 L13: Electrons in Treatment planning: What you need to know Speaker: Mr. Abdullah Al-Kafi

DAY 2. TUESDAY, FEBRUARY 14, 2017

Time	Time					
SESSION I						
08:30 - 08:50	L14: 2017 H8 Speaker: Mr	L14: 2017 H&N Plan competition: Accept the challenge Speaker: Mr. Ahmad Nobah				
08:50 - 09:15	and Dosimet	L15: 2017 Plan Competition (H&N-NASO): Contouring and Dosimetric Objectives Speaker: Dr. Hussain Alhussain				
09:15 - 09:45	challenges a	L16: Treatment Planning for small field dosimetry: challenges and limitations Speaker: Dr. Waleed Al-Najjar				
09:45 - 10:00	Q&A SESSIO	Q&A SESSION				
10:00- 10:15	MORNING BREAK					
SESSION II						
10:15 - 10:45	L17: Specialized treatment planning techniques (CyberKnife and TomoTherapy) Speaker: Dr. Abrar Hussain & Mr. Mamoun Shehadeh					
10:45 - 11:15	L18: Patient-specific QA: Gamma criteria & what to do when it fails? Speaker: Mr. Mohammad Hussain					
11:15 - 12:00 P1: Panel discussions: a. Future of treatment planning Dr. Francois DeBlois, b. Modality and technique options for CSI treatment Dr. Yasser Khafaga c. Dose from imaging modalities - Dr. Waleed AlNajjar d. Pregnant patients: To treat or not to treat - Dr. Mohammad AlShabanah						
12:00- 13:15	PRAYER & LUNCH BREAK					
WORKSHOP I						
13:15 - 13:45	13:15 - 13:45 MW2: Mini workshop: RaySearch Treatment planning Speaker: RaySearch representative					
13:45 - 15:30	W1: RapidArc/ IMRT Planning (Group 1-3) Organizer: Mr. Ahmad Nobah Instructors: Osama Hassad, Ghadeer Nazer, Wedyan Safar	W2-TomoTherapy Planning (Group 1) Organizer: Mr. Mamoun Shehadeh Instructor: Umar Mwidu	W3: Cyberknife Planning (Group 1) Organizer: Dr. Abrar Hussain Instructor: Abdullah Al-Kafi, Faisal Al-Zorkany	W4: Gamma Knife (Group 1) Organizer: Dr. Saleh Bamajboor Instructor: Team at PSMMC		
	1st $\frac{1}{2}$ hour: Didactic lecture for TPS specific planning tips and techniques					
15:30- 16:00	PRAYER & AFTERNOON BREAK					

WORKSHOP II

W2: TomoTherapy

Planning

(Group 1)

Organizer:

Mr. Mamoun

Shehadeh

Instructor:

Umar Mwidu

1st ½ hour: Didactic lecture for TPS specific planning tips and techniques

W3: Cyberknife

Planning

Organizer:

Instructor:

Faisal Al-Zorkany

(Group 1)

Dr. Abrar Hussain Dr.

Abdullah Al-Kafi, Team at PSMMC

Knife

Organizer:

Instructor:

. Saleh Bamajboor

(Group 1)

W1: RapidArc/

IMRT Planning

(Group 1-3)

Organizer:

Mr. Ahmad Nobah

Instructors:

Osama Hassad,

Ghadeer Nazer.

16:00 - 17:00