

# Second Day of Medical Physics

The event was held at the university of El-Oued, Algeria,  
November 7, 2020.

“This event has been organized via the Google Meet app”



For organizational purposes, we prepared a participation from using 'Google docs' for our online event. We received 159 responses (registrations) from different countries around the world such as Belgium, Jordan, India, Malaysia, Turkey, Egypt, USA, Filipin, Kenya, Tunisia, Morocco...etc.

**2nd DMP**

جامعة الشهيد حمدة لخضر  
University Echahid Hamma Lakhdar - El-Oued

Google Meet

For more information please visit:  
<https://medicalphysicsday.wordpress.com>

**WE ARE PLEASED TO INVITE YOU TO PARTICIPATE IN**

**SECOND DAY OF  
MEDICAL PHYSICS**

*Raise awareness of the physicists and doctors role in radiation protection*

November 7, 2020, El-Oued University, Algeria

**Topics :**

- Dosimetry • Radiation therapy • Nuclear medicine • Radiation Protection • Radiodiagnostic
- Oncology • Chemotherapy • Biophysics • Computational Physics • Numerical Simulation

**Abstract submission:**

Authors are requested to prepare the abstract and send it to the event email  
[medicalphy.day@gmail.com](mailto:medicalphy.day@gmail.com)



For the scientific program of our event, it was a pleasure to host distinguish keynotes speakers such as from Lebanon Dr. Ibrahim Duhaini, from Saudi Arabia Mehena Arib and from Algeria Dr. Abdel-Hai Benali,

Dr. Ismail Zergoug and Salah Bali, also Jawaher Al-Tuweity from Yemen. In addition, six brilliant students were hosted for oral presentations from Iraq, France, Morocco and Algeria.

For abstract submission, we requested authors to prepare an abstract containing sections summarizing the study and send it to the email of the event: [medicalphy.day@gmail.com](mailto:medicalphy.day@gmail.com)

It was announced that we are accepted the abstracts in following topics such as: Dosimetry, Radiation Therapy, Nuclear Medicine, Radiation Protection, Radiodiagnostic, Oncology, Chemotherapy, Biophysics, Computational Physics and Numerical Simulation.

The scientific program of our Second Day of Medical Physics (2<sup>nd</sup> DMP 2020), The presentations were in English and sometimes in Arabic and French, was as follows:

		Opening Ceremony	
	09:00 - 09 :20		
01	09:20 - 09:50	<p><b>Radiation Safety in Pediatric Radiology</b></p> <p>Dr. Ibrahim DUHAINI Chief medical physicist and radiation safety officer at Rafik Hariri University Hospital and a Medical Physics instructor at the Lebanese University (Beirut, Lebanon)</p>	<p><b>Session 01</b></p> <p><b>Chair :</b> Dr Abdel-Hai BENALI</p>
02	09:50 - 10 :20	<p><b>Testing the IAEA/AAPM Code of practice TRS 483 for small fields dosimetry at KFSHRC in Varian True Beam, Elekta Versa HD, Cyberknife and Tomotherapy machines</b></p> <p>Dr. Mehenna ARIB Biomedical Physics Department, King Faisal Specialist Hospital and Research Centre, Riyadh (Kingdom of Saudi Arabia)</p>	
03	10:20 - 10 :40	<p><b>Dosimetric impact of two hypofractionated IMRT techniques in the case of prostate cancer</b></p> <p>K. BOUDAUD, L. HAMZI, <b>H. BELLOUI</b>, S. KHOUDRI, Z. CHAOUI Department of physics, University Ferhat Abbas (Setif, Algeria) Faculty of Medicine, University Ferhat Abbas (Setif, Algeria) Centre de lutte contre le cancer de (Sétif, Algeria)</p>	
04	10:40 - 11 :00	<p><b>Overview about Proton Therapy</b></p> <p>Mr. Abbood Abbas ABBOOD College of Science, University of Diyala (Diyala, Iraq)</p>	
		 Coffee Break	<b>Break</b>
05	11:10 - 11 :30	<p><b>Daily 3D Cone Beam Computed Tomography imaging in the treatment of prostate cancer with Volumetric Modulated Arc Therapy</b></p> <p>Mr. Salah BALI Chief Medical Physicist, Radiation Oncology Department, Centre Anti Cancer Athena (Constantine, Algeria).</p>	<p><b>Session 02</b></p> <p><b>Chair :</b> Pr. Zin Elabidine CHAOUI</p>
06	12 :00 – 12:20	<p><b>Overview of Personal Requirements according to ISO/IEC17025 in Ionization Radiation Centers &amp; Laboratories</b></p> <p>Jawaher AL-TUWEITY, El Mahjoup CHAKIR SIMoLab, Physics Department, University of Ibn Tofail UIT, P. O. Box 133, Kenitra, Morocco</p>	
07	12:20 – 12:50	<p><b>ML/DL in radiotherapy</b></p> <p>Dr. Ismail ZERGOUG Chief Medical Physicist, Clinique Oncopole L'espoir (Oran, Algeria)</p>	
		 Coffee Break	<b>Break</b>
08	13:00 - 13:30	<p><b>An overview on the application of Monte Carlo simulation MCNP code for in vivo dosimetry</b></p> <p>Dr. Abdel-Hai BENALI Medical physicist and associate professor at El-Oued University ( El-Oued, Algeria)</p>	<p><b>Session 03</b></p> <p><b>Chair :</b></p>
09	13:30 – 13:50	<p><b>Mise en place de l'ArcCHECK-MR sur le système IRM linac MRIdian, ViewRay</b></p> <p>Mr. Saadi Oussama Elhamed 1er DQPRM - INSTN Saclay, Stagiaire Institut Sainte Catherine - Avignon (France)</p>	

10	13:50 – 14:10	<p><b>Monte Carlo simulation using the GATE /GEANT4 platform for breast imaging</b></p> <p>Mr. Billel Abdelaziz BOUCHIKHI, Saadia BENHALOUCHE, Anis Ahmed Samy DIB, Abdelghani TEBBOUNE, Ahmed Hafid BELBACHIR</p> <p>Laboratory of Analysis and Applications of radiation LAAR. Faculty of Physics. University of Science and Technology of Oran (USTO) Mohamed Boudiaf</p>	Dr. Ismail ZERGOUG
11	14:10 – 14:30	<p><b>Dosimetric characterization of high dose rate brachytherapy source using Monte Carlo simulation code</b></p> <p>Mr. Abderrahim EL YAZZAOUI, Dr. Amina KHARCHAF</p> <p>Engineering Sciences and Modeling Laboratory, Department of Physics, Faculty of Sciences, Ibn Tofail University, Kenitra, Morocco.</p>	
12	14:30 – 14:50	<p><b>Helical and Direct Irradiation in Tomotherapy: Dosimetric Comparison Study of Breast Cancer Treatment</b></p> <p>Mr. Ilyes BENABDALLAH, Anis samy amine DIB, Ahmed Hafid BELBACHIR, Meriem ALLEL, Hamid BENMAMER.</p> <p>University of Science and Technology of Oran (USTO) Mohamed Boudiaf.</p>	
<b>Round table and open discussion</b>			
<b>Closing of the event</b>			

Our second event DMP 2020 has been very successful and beneficial and after discussion some suggestions were recommended like:

- Continue to the third edition next year (3<sup>rd</sup> DMP 2021).
- Organizing a national or international conference in the Arabic language on medical physics and related fields.
- Organizing periodic webinars, and we chose the first Saturday of every month.

All the recorded videos of the 12 speakers are available on the "Hello Medical Physics" YouTube channel.

<https://www.youtube.com/channel/UCZ8EjsXDxHKTdopoU1R8MIQ>



In another part, this event is supported by the "Medical Physics Events" website, which provides publishing and advertising services for all medical physics events.

<https://medicalphysicsevents.wordpress.com/>



**RADIATION**  
SAFETY & PROTECTION