

From\ Iraqi Medical Physics Society (IMPS)**International Day of Medical Physics (IDMP) Celebration 2021**

The newly elected committee members of the IMPS in 1/10/2021 and directed by the president of IMPS Dr. Mustafa Al-Musawi the first Academic International Medical Physics Conference (AIMPC 2021) in corporation with college of medicine, Al-Mustansiriyah University in Baghdad, Iraq. The conference includes multiple sessions.

- The first session contains a speech of the president of the scientific committee and the dean of the college of al-Mustansiriyah Prof. Dr. Ali Ismail Al-Gharib, the president of Al-Mustansiriyah University, the president of the IMPS, and Dr. Hussam Ragab as a medical physics guest consultant from Egypt. They claimed the important role of the medical physicists in the health managements. Dr. Mustafa al-Musawi focuses on the challenges that faces the medical physicists in Iraq and especially those who work in the ministry of health.





The celebration opening



The president of the scientific committee and the dean of the college of al-Mustansiriyah Prof. Dr. Ali Ismail Al-Gharib



The president of Al-Mustansiriyah University



IMPS President Dr. Mustafa Al-Musawi



Dr. Hussam Ragab

- The second session was a lecture in medical physics advanced application from Dr. Nassir Alrawi from USM university of Malaysia



Dr. Nassir Al-rawi



- The third session involves an accepted papers that will published by the corporation with the IMPS in a Scopus journal managed in multiple halls for many spatiality that mainly related to a medical physics. The medical physics researches are as follows :
1. Evaluation of Intensity-Modulated Radiation Therapy (IMRT) treatment plans using various numbers of beams in pelvic cases
 2. Melasma Removal Using Q-Switched Nd: YAG Laser Toning and High-Intensity Focused Ultrasound
 3. The Evaluation of The Two-Dimensional Gamma Passing Rate Efficiency for The Unilateral Breast Cancer Dosimetry Using the IMRT
 4. In vitro comparison of low-power diode pumping solid-state laser radiation at 589 and 560 nm on red blood suspension viscosity and deformability
 5. Study of the Optical properties for blood Anemia samples using He-Ne and diode 785 nm lasers
 6. Comparative study of Using the Nd: YAG laser alone or in Combination with The HIFU Technique for Removing the Professional Tattoo
 7. Intensity-Modulated Radiotherapy (IMRT) Versus Three-Dimensional Conformal Radiotherapy (3DCRT) Aa Treatment Plans for Head and Neck Tumors
 8. Clinical and Histological Study of Cold Physical Plasma Jet in Treatment of Full Thickness Skin Wounds of Normal and Diabetic Dogs
 9. Determination of minimal inhibitory concentration of cadmium for Brevibacillus agri C15 and Brevibacillus agri C15 CdR
 10. Simultaneous Integrated Boost-Intensity Modulated Radiation Therapy (SIB-IMRT) Planning For Pelvic Tumors: Dose Coverage to Target Volume and Normal Tissue Sparing
 11. Influence of Geometric Parameters on the Quality of VMAT Plans in Inverse Planning
 12. Ultrasound Image Smoothing Based on Adaptive and Non Adaptive Filters
 13. The effect of central corneal thickness on intraocular pressure measurement in a sample of Iraqi patients with an age range between 30-60 years old.



14. Effect Of Using Bolus on The Efficiency of the 3DCRT of The Breast Cancer After Mastectomy
15. Effects of protein diet on expression of Anoctamin1 of Cajal cell in the nervous plexus of the stomach in male mice
16. Dosimetry Evaluation of photon beam profile characteristics for different treatment parameters of quality assurance
17. The Correlation Of Modulation Complexity Score (MCS) With Number Of Segments And Local Gamma Passing Rate For The IMRT Treatment Planning Delivery
18. Histological and Histochemical study of Effect of dietary fiber in motility of stomach in male mice
19. Evaluation of Imaging Parameters of Real-time B-mode Ultrasound Scanners in Khartoum
20. An Efficacy of Protection the Organs at Risks Comparison Between The Intensity-Modulated Radiotherapy Therapy (IMRT) and the Three-Dimensional Conformal Radiotherapy (3DCRT)
21. A comparison of intraocular pressure between males and females' Iraqi patients with an age range between 30-60 years old
22. Dosimetric comparison of photon beam profile characteristics for different treatment parameters of quality assurance
23. Evaluation of the hepatoprotective effect of Curcumin alone or in combination with vitamin C in Methotrexate-induced hepatotoxicity in mice
24. Effect of Macro-Tubes Absorber on Parabolic Trough Collector Steam Generation
25. Evaluation of concurrent use of Vitamin C and Niclosamide against methotrexate induced liver injury in mice
26. The value of concomitant testing of cutaneous silent period with sympathetic skin response and heart rate variability in type-2 diabetes: An electrophysiological study
27. Evaluation the effects of Omega-3 alone or in combination with vitamin C on Methotrexate-Induced Liver Injury (in animal model)
28. the angular dependence of the octa in a costume made phantom designed for quality assurance of stereotactic body radiation therapy for vertebral metastases





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- The final session was a workshop presented by Dr. Wissam Majeed (Dermatologist) and Shahad Abdulhadi (IMPS member with MSc degree in medical physics)



The application of physics in Laser and HIFU workshop for tattoo removal

- Finally the organization committee of celebration and conference had been honoring by the president of the scientific committee and the dean of the college of al-Mustansiriyah Prof. Dr. Ali Ismail Al-Gharib and the president of the IMPS Dr. Mustafa Al-Musawi



Organization committee of celebration and conference





Dr. Mustafa and Dr. Ali Ismail With Students college of medicine, al-Mustansiriyah university