



БДБФИ -
БЪЛГАРСКО ДРУЖЕСТВО ПО
БИОМЕДИЦИНСКА ФИЗИКА И
ИНЖЕНЕРСТВО

BSBPE -
BULGARIAN SOCIETY OF
BIOMEDICAL PHYSICS AND
ENGINEERING



XIV-TH NATIONAL CONFERENCE ON MEDICAL PHYSICS AND BIOMEDICAL ENGINEERING

sponsored by:



Intermedica



8 November 2024

NCPHA, Sofia, Bulgaria

AGENDA

10.00h – Opening

10.15h – Presentations

Chair: Prof. J. Vassileva

M. Stoeva - *IOMP - Inspiring the next generations of Medical Physicists*

M. Israel - *The "unpopular" activities performed by medical physicists to protect the health of the population*

J. Vassileva - *Issues and solutions for ensuring radiation protection in medical exposure*

Y. Baneva - *Radiation protection worldwide*

D. Kostova-Lefterova, F. Simeonov, M. Yunakova, E. Valerieva, M. Slaveva-Vasileva - *Communication issues and access to up-to-date information in X-ray imaging during pregnancy*

N. Grigorova, D. Kaloyanova, N. Dukov - *Exploring opportunities for manufacturing of breast phantom for ultrasound procedures*

11.30h – Coffee break

12.00h – Presentations

Chair: Prof. Kristina Bliznakova

K. Bliznakova, N. Dukov, Zh. Bliznakov - *Advances by the ELPIDA research group in technologies for breast screening and diagnosis*

A. Zagorska, D. Kostova-Lefterova - *National project BUL9026 with a support of IAEA on a topic "Enhancing National Capacity for Ensuring Radiation Protection of Patients Undergoing High Dose Medical Imaging Procedures" – current achievements*

D. Ivanova, K. Romanova, D. Kostova-Lefterova - *Pilot study of a patient dose monitoring software for different CT examinations*

F. Simeonov, G. Gueorgiev, Ts. Todorova, B. Vladimirov - *Pilot application of a platform for calculation of mean glandular dose in mammographic X-ray examinations*

V. Nastev, K. Bliznakova - *Evaluation of an innovative technique for creating 3D anatomical models*

P. Marinov, I. Petrov, Ts. Lazhovski, K. Stoilov, P. Temnishki, S. Petrova, K. Balashev - *The influence of photon ionizing radiation generated by a medical linear accelerator (LINAC) on the physicochemical properties of gold nanoparticles*

L. Traykov, T. Bogdanov, K. Smezhkalova, T. Hikov, M. Dimitrova, E. Stoyanova, R. Tafradzhiska-Hadzhiova, Z. Sabit, F. O'Connor, A. Ushiyama, Sh. Okubo – *Influence of cold microwave argon plasma on the vascular endothelium - molecular mechanisms of structural changes in the microcirculatory bed*

Y. Baneva, Y. Eneva, B. Dogan - *Chat GPT in radiology*

13.30h – Break for lunch

14.00h – Poster session

Chair: Prof. Mihaela Ivanova

M. Ivanova - *Application of national legislation for the protection of laser radiation workers*

V. Zaryabova - *Exposure assessment of electromagnetic field from telecommunications sources in populated areas in correlation with public concern*

V. Zochinova - *Pilot study of microclimate in educational institutions*

K. Romanova, D. Ivanova - *Analysis of the patient exposure and technical parameters for different conventional X-ray examinations performed on three DR systems*

I. Dyakov - *Comprehensive study of the utilization of different breast imaging modalities*

14.45h – Presentations from the support companies

15.30h – Closing the conference

18.30h – Cocktail