

Paweł Franciszek Kukołowicz

PERSONAL DATA

Address: 02-793 Warsaw, Pała Telekiego 10 m 24, Poland

e-mail: p.kukolowicz@zfm.coi.pl, tel. +48 512275979

Borne: 4th of October 1957, Łódź, Poland

married, 4 children

EDUCATION

1976 – 1981 Warsaw Univeristy, Faculty of Physics, Specialization in medical physics

1997 PhD Warsaw, Faculty of Physics

2007 Associate Professor, Nofer Institute of Occupational Institute

WORK EXPERIENCE

1980 – 1997 Institute of Oncology, Warsaw, Medical Physics Department, medical physicist

1998 – 2011 Holycross Cancer Center, Kielce, Medical Physics Department, head of department

2012 – now Cancer Center- Institute of Oncology, Warsaw, Medical Physics Department, head of department

From 2006 – specialist in medical physics according to Polish law

PROFESSIONAL EXPERIENCE

Member of

- Polish Society of Medical Physics, president of PSMP (2012-2014 and 2014 – now)
- European Federation of Organisations for Medical Physics,
- The Examination Board of the Ministry of Health in medical physics,

Lecturer

- at The Jan Kochanowski University in Kielce (2009 – 2011)
- at Warsaw University, Faculty of Physics, (2012 – 2016)
- European School of Medical Physics, Archamps (2012 – 2014)
- at Warsaw University of Technology, 2015, 2016.
- at courses in medical physics in the frame of specialization in medical physics

Supervisor of

- more than 40 Master of Science Thesis,
- 14 PhD thesis.

Activities in clinical medical physics and research

The head of the group for Total Body Irradiation before bone marrow transplantation; first transplantation in 1986.

Involved in implementation of the 3D treatment planning systems in Poland.

Author of more than 100 articles published in peer-review journals.

Author of the book "The characteristic of the treatment beams" (in Polish). The co-author of the book published in NATO Science and Security Series - B: Physics and Biophysics.

Co-author of Polish recommendations on quality control of treatment planning systems and quality control of set-up.

Editor-in Chief in Polish Journal of Medical Physics and Engineering, from December 2015 - 2018.

Consultant in medical physics for Ministry of Health, from 2019

Interests

Tracking in mountains

Running long distances; marathons

Publications in English 2018 – 2023

1. Dąbrowski, R; Drozdyk, I; **Kukołowicz, P**; High accuracy dosimetry with small pieces of Gafchromic films, Reports of Practical Oncology & Radiotherapy,23,2,114-120,2018.
2. **Kukołowicz, P**; Malicki, J; Egzamin specjalizacyjnyw dziedzinie fizyka medyczna - część teoretyczna, Inżynier i Fizyk Medyczny, 7, 1, 7-10, 2018.
3. Akhtaruzzaman, Md; **Kukołowicz, P**; ,Dependence of tissue inhomogeneity correction factors on photon-beam energy, Nukleonika,63,1,3-7,2018.
4. Bijok, M; Gruszczynska, E; Kowalczyk, A; Sikorska, K; Walewska, A; **Kukolowicz, P, F**; Analysis of the long-term stability of the output of electron beams generated by the Novac11™ IORT accelerator, Reports of Practical Oncology & Radiotherapy,23,5,341-345,2018.
5. Pasicz, K; Podgórska, J; Jasieniak, J; Fabiszewska, E; Skrzyński, W; Anysz-Grodzicka, A; Cieszanowski, A; **Kukołowicz, P**; Grabska, I; Optimal b-values for diffusion kurtosis imaging of the liver and pancreas in MR examinations, Physica Medica, 66, 119-123, 2019.
6. **Kukołowicz, P**; Bulski, W; Pęczkowski, P; Pilichowska, M; Dąbkowski; M; Modern external beam radiotherapy of prostate cancer, Inżynier, Fizyk Medyczny, 8, 3, 173-177,
7. 2019. Pasicz Katarzyna, Podgórska Joanna, Jasieniak Jakub, Fabiszewska Ewa, Skrzyński Witold, Anysz-Grodzicka Agnieszka, Cieszanowski Andrzej, **Kukołowicz Paweł**, Grabska Iwona: Optimal b-values for diffusion kurtosis imaging of the liver and pancreas in MR examinations, Physica Medica, 2019, 66, 119-123.

8. Giżyńska, M, **Kukołowicz, P, F**, Heijmen, B, J, M, Coping with interfraction time trends in tumor setup, *Medical Physics*, 2020, 47, (2), 331 – 341.
9. Latała, A; Fajak; E; Walewska, A; **Kukołowicz, P**; The comparison of VMAT test results for Clinac 2300C/D and TrueBeam accelerators, *Medical Dosimetry*, dostępne on-line od 31 stycznia 2020,
10. **Kukołowicz, P**; Mietelska, M; Kiprian, D, Effectiveness of the No Action Level Protocol for Head & Neck patients – time considerations, przyjęte do druku w *Reports of Practical Oncology & Radiotherapy* 2020.
11. Podgórska J., Pasicz K., Zagórowicz Edyta, Mróz Andrzej, Gołębiewski B, Kuś P., Jasieniak Jakub, Skrzyński Witold, **Kukołowicz P.**, Cieszanowski Andrzej: Intravoxel incoherent motion MRI in evaluating inflammatory activity in ulcerative colitis: a pilot study, *Acta Radiologica*, 2020, 62(4):439-446.
12. Latała A, Fajak E, Walewska A, **Kukołowicz P**. The comparison of VMAT test results for Clinac 2300C/D and TrueBeam accelerators. *Med Dosim.* 2020 45(3), 219-224.
13. Giżyńska, M.K., **Kukołowicz, P.F.** and Heijmen, B.J.M., Coping with interfraction time trends in tumor setup. *Med. Phys.*, 2020, 47, 331-341.
14. Janiak PT, **Kukołowicz PF**. Comparison of calculation algorithms to predict the IQM detector response for various modulation degrees of VMAT treatment plans on linear accelerator equipped with the HD120 MLC. *Med Phys.* 2021, 48(11), 7372-7381.
15. Dąbrowska-Szewczyk E., Zawadzka A., Walewska A., **Kukołowicz P.**, Independent verification of treatment planning system calculations, *Nukleonika*, 2021;66(2):47-53.
16. Grabska I, Bulski W, Ulkowski P, Ślusarczyk-Kacprzyk W, **Kukołowicz P**. Statistical analysis of the periodic intermediate checks results on the standards used for calibrations of ionizing radiation dosimeters in a ⁶⁰Co gamma ray beam. *Appl Radiat Isot.* 2022, 184-198.
17. Juda A., Fillmann M., **Kukołowicz P.**, Dosimetric verification of multi-tumor target cases treated with SRS HyperArc technique using EBT3 radiochromic films, *Polish Journal of Medical Physics and Engineering*, 2022; 28, 1-6.
18. Dąbrowska E. , Zawadzka A, Kowalczyk P., Podgórski R., Saworska G., Głowacki M., **Kukołowicz P.**, Brzozowska B., Low-density 3D-printed boluses with honeycomb infill 3D-printed boluses in radiotherapy, *Physica Medica*, 2023. 110