

John E. Stratakis

Short CV



John Stratakis was born in Heraklion, Crete, Hellas in 1974. He received his BSc In Physics from the University of Crete in 1997, his MSc in Medical Physics from the University of Surrey, UK, in 1998 and his PhD in Medical Physics from the Medical School of the University of Crete in Heraklion. He has served as a scientific associate of the Laboratory of Medical Physics at the same institution, and as a Laboratory Associate in the Technical Education Institution of Iraklion, Applied Informatics and Multimedia Division.

He served as a radiation protection officer of the County Hospital of Agios Nikolaos, Crete.

Currently he is a research fellow of the Department of Medical Physics of the University of Crete and a medical physicist of the University Hospital of Heraklion Crete (radiotherapy department).

He is author or co-author in 18 scientific papers published in peer-review journals and two book chapters.

He is a member of European Congress of Radiology (ECR), ESTRO and Hellenic Society of Medical Physics.

Research interests

Monte Carlo dosimetry applied to radiographic and interventional procedures in order to :

- 1) Quantify the radiogenic risks from medical procedures involving ionizing radiation.
- 2) Optimize absorbed patient doses in radiological procedures.

Selected Publications

- Risk of contralateral breast and ipsilateral lung cancer induction from forward-planned IMRT for breast carcinoma. Mazonakis, M., Stratakis, J., Lyraraki, E., Damilakis, J. *Physica Medica*, 2019, 60, pp. 44–49
- ☒ Data and methods to estimate fetal dose from fluoroscopically guided prophylactic hypogastric artery balloon occlusion. Solomou, G., Perisinakis, K., Tsetis, D., Stratakis, J., Damilakis, J. *Medical Physics*, 2016, 43(6), pp. 2990–2997

- Data and methods to assess occupational exposure to personnel involved in cardiac catheterization procedures. Perisinakis K, Solomou G, **Stratakis J**, Damilakis J. *Phys Med*. 2016 Feb;32(2):386-92
- Efficient stereological approaches for the volumetry of a normal or enlarged spleen from MDCT images. Mazonakis M, **Stratakis J**, Damilakis J. *Eur Radiol*. 2015 Jun;25(6):1761-7
- Calculation of organ doses from breast cancer radiotherapy: a Monte Carlo study. Berris T, Mazonakis M, **Stratakis J**, Tzedakis A, Fasoulaki A, Damilakis J. *J Appl Clin Med Phys*. 2013 Jan 7;14(1):4029.
- Therapeutic ERCP and pregnancy: is the radiation risk for the conceptus trivial? Samara ET, Stratakis J, Enele Melono JM, Mouzas IA, Perisinakis K, Damilakis J. *Gastrointest Endosc*. 2009 Apr;69(4):824-31.
- Radiation dose and risk from fluoroscopically guided percutaneous transluminal angioplasty and stenting in the abdominal region. **Stratakis J**, Damilakis J, Tsetis D, Gourtsoyiannis N. *Eur Radiol*. 2007 Sep;17(9):2359-67.
- Normalized dose data for upper gastrointestinal tract contrast studies performed to infants. Damilakis J, **Stratakis J**, Raissaki M, Perisinakis K, Kourbetis N, Gourtsoyiannis N. *Med Phys*. 2006 Apr;33(4):1033-40.
- Occupational radiation exposure from fluoroscopically guided percutaneous transhepatic biliary procedures. Stratakis J, Damilakis J, Hatzidakis A, Theocharopoulos N, Gourtsoyiannis N. *J Vasc Interv Radiol*. 2006 May;17(5):863-71.
- Radiation dose and risk from fluoroscopically guided percutaneous transhepatic biliary procedures. **Stratakis J**, Damilakis J, Hatzidakis A, Perisinakis K, Gourtsoyiannis N. *J Vasc Interv Radiol*. 2006 Jan;17(1):77-84.
- The effect of z overscanning on patient effective dose from multidetector helical computed tomography examinations. Tzedakis A, Damilakis J, Perisinakis K, **Stratakis J**, Gourtsoyiannis N. *Med Phys*. 2005 Jun;32(6):1621-9.
- Organ and effective dose conversion coefficients for radiographic examinations of the pediatric skull estimated by Monte Carlo methods. **Stratakis J**, Damilakis J, Gourtsoyiannis N. *Eur Radiol*. 2005 Sep;15(9):1948-58.
- Influence of initial electron beam parameters on Monte Carlo calculated absorbed dose distributions for radiotherapy photon beams. Tzedakis A, Damilakis JE, Mazonakis M, **Stratakis J**, Varveris H, Gourtsoyiannis N. *Med Phys*. 2004 Apr;31(4):907-13.