

Simantirakis Georgios

Curriculum Vitae



Personal Information

Date of birth : 21/12/1974
Place of Birth : Athens
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E-mail : georgios.simantirakis@eeae.gr
Field of expertise : Medical physics

Education and training

2015 University of Athens, School of Medicine, Ph.D in Medical Physics
2003 University of Athens, School of Medicine, M.Sc. in Medical Physics
2000 University of Athens, School of Sciences, B.Sc. in Physics

Work experience as a medical physicist

2003 – Present day Greek Atomic Energy Commission, Division of Licensing and Inspections
2002 - 2003 Maternity/gynecological and general clinic “ Mitera”. Participation in the quality assurance program of the radiological department

Teaching experience

2005 - Present day International Post-graduate Educational Course on Radiation Protection and the Safety of Radiation Sources (IAEA – GAEC), lecturer on the topics: “Accidents”, “Radiology” and “Quality Assurance in Radiology”
2006 - 2011 C.V.T. “SBIE” - training of assistant radiologists. Lecturer on the topics: “Medical physics” and “Medical equipment”

Languages

Mother tongue Greek
Other English (Proficient user)

Other information

2014 – Present day Reviewer for the international scientific magazine “Radiation Protection Dosimetry”
2012 - Present day Member of the scientific committee of National Organisation for the Certification of Qualifications & Vocational Guidance (EOPPEP)
2004 - Present day Representative of GAEC at the EU Civil Protection Mechanism as a deputy team leader of a CBRN detection & sampling team

Publications

- **G. Simantirakis**, C. J. Hourdakakis, Economides, I. Kaisas, M. Kalathaki, C. Koukorava, G. Manousaridis, C. Pafilis, P. Tritakis, S. Vogiatzi, V. Kamenopoulou and P. Dimitriou, "Diagnostic Reference Levels and Patient Doses in Computed Tomography Examinations in Greece", *Radiation Protection Dosimetry*, pp.1-6, doi:10.1093/rpd/ncu182, 2014
- **G. Simantirakis**, C. Koukorava, M. Kalathaki, C. Pafilis, I. Kaisas, S. Economides, C. J. Hourdakakis, V. Kamenopoulou, E. Georgiou, "Reference levels and patient doses in interventional cardiology procedures in Greece", *Eur Radiol* (2013) 23:2324–2332
- **G. Simantirakis**, C. J. Hourdakakis, S. Economides and P. Dimitriou, "Image Quality and Patient Dose in Computed Tomography Examinations in Greece", *Radiation Protection Dosimetry* vol. 147, No. 1-2, pp. 129-132, 2011
- P. Hiles, P. Gilligan, J. Damilakis, E. Briers, C. Candela-Juan, D. Faj, S. Foley, G. Frija, C. Granata, H. de las Heras Gala, R. Pauwels, M. Sans Merce, **G. Simantirakis**, E. Vano, "European consensus on patient contact shielding", *Physica Medica*, <https://doi.org/10.1016/j.ejmp.2021.12.006>, 2021
- P. Hiles, P. Gilligan, J. Damilakis, E. Briers, C. Candela-Juan, D. Faj, S. Foley, G. Frija, C. Granata, H. de las Heras Gala, R. Pauwels, M. Sans Merce, **G. Simantirakis**, E. Vano, "European consensus on patient contact shielding", *Insights into Imaging*, <https://doi.org/10.1186/s13244-021-01085-4>, 2021
- P. Hiles, P. Gilligan, J. Damilakis, E. Briers, C. Candela-Juan, D. Faj, S. Foley, G. Frija, C. Granata, H. de las Heras Gala, R. Pauwels, M. Sans Merce, **G. Simantirakis**, E. Vano, "European consensus on patient contact shielding", *Radiography*, <https://doi.org/10.1016/j.radi.2021.12.003>, 2021
- J.A. Feghali, J. Delépierre, O. Ciraj Belac, J. Dabin, M. Deleu, F. De Monte, M. Dobric, A. Gallagher, L. Hadid-Beurrier, P. Henry, H. Hršak, T. Kiernan, R. Kumar, Ž. Knežević, C. Maccia, M. Majer, F. Malchair, S. Noble, D. Obrad, M. Sans Merce, G. Sideris, **G. Simantirakis**, C. Spaulding, G. Tarantini, C. Van Ngoc Ty, "Patient exposure dose in interventional cardiology per clinical and technical complexity levels. Part 1: results of the VERIDIC project", *Acta Radiologica*, doi: 10.1177/028418512111061438, 2021
- J.A. Feghali, J. Delépierre, O. Ciraj Belac, J. Dabin, M. Deleu, F. De Monte, M. Dobric, A. Gallagher, L. Hadid-Beurrier, P. Henry, H. Hršak, T. Kiernan, R. Kumar, Ž. Knežević, C. Maccia, M. Majer, F. Malchair, S. Noble, D. Obrad, M. Sans Merce, G. Sideris, **G. Simantirakis**, C. Spaulding, G. Tarantini, C. Van Ngoc Ty, "Establishing a priori and a posteriori predictive models to assess patients' peak skin dose in interventional cardiology. Part 2: results of the VERIDIC project", *Acta Radiologica*, doi: 10.1177/028418512111062089, 2021
- C. Candela-Juan, O. Ciraj-Bjelac, M. Sans Merce, J. Dabin, D. Faj, A. Gallagher, H. de las Heras Gala, Z. Knezevic, F. Malchair, F. De Monte, **G. Simantirakis** and C. Theodorakou, "Use of out-of-field contact shielding on patients in medical imaging: a review of current guidelines, recommendations and legislative documents", *Physica Medica* 86 (2021) 44–56
- S. Economides, C.J. Hourdakakis, C. Pafilis, **G. Simantirakis**, P. Tritakis, M. Kalathaki, C. Koukorava, I. Kaisas and E. Carinou, "Radiological safety and assessment of the performance of X-ray systems in veterinary facilities", *Radioprotection* 2021, 56(1), 55–60
- J. Dabin, V. Blideanu, O. Ciraj Bjelac, M. Deleu, F. De Monte, J.A. Feghali, A. Gallagher, Z. Knezevic, C. Maccia, F. Malchair, M. Sans Merce and **G. Simantirakis**, "Accuracy of skin dose mapping in interventional cardiology: Comparison of 10 software products following a common protocol", *Physica Medica* 82 (2021) 279–294
- T. Siiskonen, O. Ciraj-Bjelac, J. Dabin, A. Diklic, J. Domienik–Andrzejewska, J. Farah, J.M. Fernandez, A. Gallagher, C.J. Hourdakakis, S. Jurkovic, H. Järvinen, J. Järvinen, Ž. Knežević, C. Koukorava, C. Maccia, M. Majer, F. Malchair, L. Riccardi, C. Rizk, R. Sanchez, M. Sandborg, M. Sans Merce, D. Segota, J. Sierpowska, **G. Simantirakis**, L. Sukupova, Z. Thrapsanioti, E. Vano, "Establishing the European diagnostic reference levels for interventional cardiology", *Physica Medica* vol 54, pp. 42-48, 2018

- P. Askounis, A. Boziari, E. Carinou, G. Drikos, S. Economides, C.J. Hourdakis, C. Housiadis, M. Kalathaki, V. Kamenopoulou, E. Karabetsos, K. Kehagia, M. Kolovou, C. Koukorava, M. Lasithiotakis, T. Makridakis, A. Maltezos, D. Mitrakos, M. Nikolaki, M. Nikolaou, P. Nicolaou, A. Petri, C. Potiriadis, S. Raftopoulos, **G. Simantirakis**, V. Tafili, C. Veltsos, S. Vogiatzi, D.C Xarchoulakos, K. Zourari, "A Holistic Approach to Assessment of Population Exposure to Radiation: Challenges and Initiatives of a Regulatory Authority", *Health Physics*: October 2018 - Volume 115 - Issue 4 - p 474–489
- E. Samei, H. Jarvinen, M. Kortensniemi, **G. Simantirakis**, C. Goh, A. Wallace, E. Vano, A. Bejan, M. M. Rehani, J. Vassileva, "Medical imaging dose optimization from ground up: expert opinion of an international summit", *Journal of Radiological Protection*, vol. 38, n. 3, 2018
- M. Kalathaki, C. J. Hourdakis, S. Economides, P. Tritakis, N. Kalyvas, **G. Simantirakis**, G. Manousaridis, I. Kaisas, and V. Kamenopoulou, "Comparison of Full Field Digital (FFD) and Computed Radiography (CR) mammography systems in Greece, *Radiation Protection Dosimetry*, vol. 147, No. 1-2, pp. 202-205, 2011
- C. Koukorava, E. Carinou, **G. Simantirakis**, T.G.Vrahliotis, E.Arhontakis, C. Tierris and P. Dimitriou, "Doses to operators during Interventional Radiology procedures - Focus on eye lens and extremity dosimetry", *Radiation Protection Dosimetry* vol.144, issue 1-4, pp. 482-486, 2010
- S. Economides, C.J. Hourdakis, N. Kalivas, M. Kalathaki, **G. Simantirakis**, P. Tritakis, G. Manousaridis, S. Vogiatzi, P. Kipouros, A. Boziari and V. Kamenopoulou, "Image quality evaluation and patient dose assessment of medical fluoroscopic X-ray systems: a national study", *Radiation Protection Dosimetry* vol.129, issue 4, pp. 419-425, 2008
- S. Economides, C.J. Hourdakis, N. Kalivas, M. Kalathaki, **G. Simantirakis**, P. Tritakis, G. Manousaridis, S. Vogiatzi, P. Kipouros, A. Boziari and V. Kamenopoulou., "Performance of medical radiographic X-ray Systems in Greece for the time period 1998-2004", *Physica Medica* 23, pp. 107-114, 2007

Conference presentations

- **G. Simantirakis**, «National CT DRLs», 1st PanHellenic Congress of Medical Physics, 23-25 September 2022, Athens, Greece
- Dario Faj, **G. Simantirakis** et al, «Foetal dosimetry in pregnant patients undergoing diagnostic and interventional radiology procedures: investigation of clinical routine practice», 4th European Congress of Medical Physics, 17 - 20 August 2022, Dublin, Ireland
- **G. Simantirakis**, C. J. Hourdakis, M. Kalathaki, C. Koukorava, M. Nikolaou, C. Pafilis, P. Tritakis and V. Kamenopoulou, «The Contribution of Computed Tomography to the Collective Dose of the Population in Greece», European Radiation Protection Week 2019, 14-18 October 2019, Stockholm, Sweden (poster presentation)
- J. Dabin, **G. Simantirakis** et al, «VERIDIC project: accuracy of skin dose calculation software in interventional cardiology», European Radiation Protection Week 2019, 14-18 October 2019, Stockholm, Sweden
- M. Nikolaou , S. Vogiatzi, M. Kalathaki, **G. Simantirakis**, C. Koukorava, S. Economides, C.J. Hourdakis, V. Kamenopoulou, "Medical Radiation Exposure of the Greek Population", 1st European Congress of Medical Physics, 1-4 September 2016, Athens
- M. Nikolaou, S. Vogiatzi, M. Kalathaki, **G. Simantirakis**, C. Koukorava, S. Economides, C.J.Hourdakis, V. Kamenopoulou "Estimation of the collective effective dose to the Greek population from medical exposures", 5th Balkan Congress & 13th National Congress of Nuclear Medicine (BCNM 2016), Thessaloniki, Greece, 17-20 June 2016
- **G. Simantirakis**, C. Koukorava, M. Kalathaki, C. Pafilis, I. Kaisas, S. Economides, C. J. Hourdakis, V. Kamenopoulou, E. Georgiou, "Establishing the Greek National Reference for Interventional

Cardiology Procedures", International Conference on Radiological Protection in Health, 18 – 20 September 2013, Lisbon, Portugal

- **G. Simantirakis**, "DRLs on MDCT: International literature and the first national data", conference of the Hellenic Association of Medical Physicists on Multi-detector CT, 13/04/2013, Athens
- **G. Simantirakis**, "DRLs on Interventional Radiology", Conference of the Hellenic Association of Medical Physicists on radiation protection in Interventional Radiology , 26/01/2013, Athens
- **G. Simantirakis**, C.J. Hourdakis, S. Economides, P. Dimitriou, "Image quality of CT scanners and patient dose from CT examinations in Greece", International Conference on Radiation Protection in Medicine, 1-3 September 2010, Varna, Bulgaria (electronic poster)
- M. Kalathaki, **G. Simantirakis**, S. Vogiati, G. Manousaridis, A. Boziari, S. Economides, I. Kaissas, C. Koukorava, M. Lamprinakou, A. Liosis, M. Nikolaou, C. Pafilis, P. Tritakis C. Hourdakis, "National Diagnostic Reference Levels: the current status in Greece", 4th European IRPA Congress, 23 – 27 June 2014, Geneva, Switzerland (poster)