Dr. Maria Mania Aspradakis

Curriculum vitae

Position

Seit 2018	Leiterin Medizinphysik in der Radio-Onkologie Kantonsspital Graubünden, Loëstr. 170, 7000 Chur, Schweiz

Ausbildung

1990	Physik Studium, Aristotle University of Thessaloniki, Griechenland
1996	Doctor of Philosophy, Medizinphysik, The University of Edinburgh, Schottland, Gross Britannien
1999	Fachanerkennung in der Medizinphysik, Health Professions Council, Gross Britannien
2004	Fachanerkennung in der Medizinphysik, Griechenland
2005	Fachanerkennung SGSMP, Schweiz

Beruflicher Werdegang

2010 - 2017	Medizinphysikerin in der Radio-Onkologie, Kantonsspital Luzern
2008 - 2010	Medizinphysikerin, Institut für Radio-Onkologie, Kantonsspital Graubünden
2006 - 2008	European Regional Physicist - TomoTherapy Europe GmbH
2004 - 2005	Wissentschaftliche Mitarbeiterin mbA, Klinik für Radio-Onkologie Universitätsspital Zürich
1997 - 2004	NHS Clinical Scientist, Regional Medical Physics Department, Newcastle upon Tyne, UK
1991 - 1993	Research Associate (AR1A), Department of Medical Physics and Medical Engineering, The University of Edinburgh

Ausgewählte Publikationen/Originalarbeiten

- **Aspradakis M M** and Zucchetti P, 'Acceptance, commissioning and clinical use of the WOmed T-200 kilovoltage X-ray therapy unit', The British Journal of Radiology, 88 (1055); 20150001, 2015
- Thomas S J, **Aspradakis M M**, Byrne J P, Chalmers G, Duane S, Rogers J, Thomas R A S, Tudor G S J and Twyman N, 'Reference dosimetry on TomoTherapy: an addendum to the 1990 UK MV dosimetry code of practice', Phys. Med. Biol. 59(6), 2014
- **Aspradakis M M**, McCallum H M, Wilson N, Dosimetric and treatment planning considerations for radiotherapy of the chest wall, The British Journal of Radiology; 79(946): p828-836, 2006
- **Aspradakis M M**, Lambert G D, Steele A, Elements of commissioning step and shoot IMRT: delivery equipment and planning system issues posed by small segment dimensions and small MU, Medical Dosimetry, 30(4), 233-242, 2005
- **Aspradakis M M**, Morrison R H, Richmond N D, Steele A, Experimental verification of convolution/superposition photon dose calculations for radiotherapy treatment planning, Physics in Medicine and Biology 48, 2873-2893, 2003
- Ahnesjö A, **Aspradakis M M**, Topical Review: Dose calculations for external photon beams in radiotherapy. Physics in Medicine and Biology 44, R99-155, 1999
- **Aspradakis M M**, Redpath A T, 'A technique for the fast calculation of three-dimensional photon dose distributions using the superposition model', Phys. Med. Biol 42, p 1475-1489, 1997

Buch

- **Aspradakis M M** (Author & Editor), Byrne J P, Palmans H, Conway J, Rosser K, Warrington, A P, Duane S; IPEM Report 103: Small field MV photon dosimetry', ISBN 978-1-903613-45-0, 2010

Kernkompetenzen/wissenschaftliche Schwerpunkte und Aktivität

- Dosisberechnungen (Dose Modelling) in der Strahlentherapie
- Dosimetrie
- Precisions Strahlentherapie
- Konventionelle Röntgentherapie
- Qualtitätsicherung in der Radio-Onkologie

Lehrtätigkeit

- ESTRO course on ‘Dose Modelling and Verification for External Beam RT’
- National Physical Laboratory (NPL, UK): 'Practical Course in Reference Dosimetry'. (2003, 2013, 2014).
- IAEA mission expert/invited consultant:
  IAEA/AFRA Training Workshop on Commissioning of Linear Accelerators, 24 - 28 November 2007, Alger, Algeria.
  IAEA/ROM6018: National Training Course on acceptance and commissioning of radiotherapy equipment. Practical approach for LINAC based equipment (3D-CRT, IMRT, VMAT), 3 – 6 November 2016, Bucharest, Romania.
- ETH (Eidgenössische Technische Hochschule) Zürich: 'Medical Physics III - New Trends in Radiotherapy', 2008-2009.

Mitgliedschaften

Institute of Physics (IOP)
Institute of Physics and Engineering in Medicine (IPEM); gewählt Fellow in 2015
American Association of Physicists in Medicine (AAPM)
European Society for Therapeutic Radiology and Oncology (ESTRO)
Schweizerische Gesellschaft für Strahlenbiologie und Medizinische Physik (SGSMP)
British Institute of Radiology (BIR)
Scientific Association of Swiss Radiation Oncology (SASRO)

Tätigkeit für wissenschaftliche Gesellschaften

SGSMP: Arbeitsgruppe: Empfehlungen für kilovolt Dosimetrie
SGSMP: Arbeitsgruppe: Empfehlungen für SBRT/SRS
BIR: Oncology & Radiotherapy special interest group (SIG) (2010-2016)
AAPM: Task Group 155 on ‘Small fields and non-standard photon beams' (seit 2008)
SASRO: Member of the board (2011 – 2015); Kassierin (2013-2015)
IPEM: Member of working party on 'Tomotherapy dosimetry' (2012-2013)
IPEM: Member of working party on 'Small Field MV Photon Dosimetry', (2004-2010)
IPEM RT-SIG (2000-2003); secretary (2002-2003)