

CURRICULUM VITAE – MIKA KORTESIEMI



NAME	Mika Kortesiemi
NATIONALITY	Citizen of Finland
CONTACT INFORMATION	HUS Medical Imaging Center, POB 340, FI-00029 HUS, Finland Mobile: +358 50 4271319, E-mail: mika.kortesiemi@hus.fi

DEGREES AND QUALIFICATIONS

- Adjunct Professor in Medical Physics, University of Helsinki, Finland, 21.11.2007
- Certified Medical Physicist, National Medical Physicist Board of Finland, Helsinki, 23.01.2003
- Radiation Protection Officer, University of Helsinki, 25.09.2002
- PhD, University of Helsinki, 13.09.2002
- MSc, University of Helsinki, 28.11.1997
- Languages: English - fluent, Swedish –office level, Finnish - native

PRIMARY POSITIONS

Chief Physicist, HUS Medical Imaging Center, University of Helsinki, Finland, since 1/2010

- Co-ordination of physicist duties and projects in x-ray modalities
- Radiation Protection Officer (several radiological departments)
- Chairman of the radiation safety steering group
- Representative in the patient safety steering group of the HUS consortium
- Leading CT physicist, scanner procurements and updates
- Teaching and lectures (physicists, medical doctors, nursing staff, technologists)
- Scientific research and supervision
- Medical physics consultation and development in radiological technology, radiation dosimetry, quality assurance and optimization
- Internal auditor and consultant in external clinical audits

ADDITIONAL POSITIONS

Auditor, Finas (Finnish Accreditation Service), Finland, since 1/2014 (occasional duties)

- Accreditation audits - ISO/IEC 17025:2005, ISO 15189:2007: Clinical analytics: Nuclear medicine and clinical physiology

Auditor, Labquality, Finland, since 2010 (annual duties)

- Member of the Quality Council
- Clinical audits in diagnostic and interventional radiology
- ISO 9001 Certification audits (expert member)

Partner, Board Member, Physico-Medicae Ltd, Finland, since 5/2004 (continual duties)

- Management and strategic planning, contracts, development of medical physics service model and quality management software (WebTrace), senior medical physics consultant

Partner, Board Member, PhysMed Consulting GmbH, Switzerland, since 1/2014 (annual duties)

- Management and strategic planning, senior medical physics consultant

PREVIOUS POSITIONS

- Research Scientist, Boneca Ltd, Helsinki, 2002-2012

- BNCT (Boron Neutron Capture Therapy): radiation dosimetry, biokinetic modelling, patient positioning system, radiation protection officer duties and general consultations
- Deputy Chief Physicist, HUS Helsinki Medical Imaging Center, 03/2006-12/2009
- Technology Manager, HUS Helsinki Medical Imaging Center, 10/2008-10/2009
- Manager of Image Processing Center, HUS Helsinki Medical Imaging Center, 2/2003-3/2004
- Medical Physicist, HUS Helsinki Medical Imaging Center, 2/2003-2/2006
- Resident Physicist, HUS Helsinki Medical Imaging Center, 11/2000-1/2003
- Research Scientist, Helsinki Medical Research Institute, 1/1998-10/2000
- Junior Scientists, Helsinki Medical Research Institute, 7/1997-12/1997
- Assistant Physicist, Departments of Nuclear Medicine and Radiology, Helsinki University Central Hospital, 5/1996-6/1997

TEACHING EXPERIENCE

- Cumulated teaching experience: over 500 national and international lectures by 06/2017
- Clinical Radiology, Course in Medical Physics, University of Helsinki, 2006, 2010, 2013
- Lecturer, University of Helsinki, Department of Physics / Helsinki University Central Hospital, Department of Radiology, since 2006
- Lecturer, University of Helsinki, Faculty of Medicine, Institute of Dentistry, since 2010
- Lecturer, Helsinki Metropolia University of Applied Sciences, since 2008
- IAEA (International Atomic Energy Agency), Supervisor of the Fellow Radiologist training programme in Finland, since 2008 (several events and fellowship periods)

CONFIDENTIAL POSTS, EXPERT DUTIES AND MEMBERSHIPS

- IAEA (International Atomic Energy Agency), Medical physicist in numerous international expert missions, courses and workshops in Europe, Africa, Middle-East and Asia, since 1/2006 (on-going)
- Chairman of the Science Committee, European Federation of Organisations in Medical Physics (EFOMP), term 2017-2018
- Board Member, European Federation of Organisations in Medical Physics (EFOMP), term 2017-2018
- Chairman of the Board, Physicists in the Radiological Society of Finland, 2007-2009
- Chairman of the Board, Medical Physics in the Finnish Physical Society, 2009-2014, Vice-chairman 2006-2009
- Associate Editor in *Physica Medica*, 2016 to 2018
- Referee in several international journals, including *Acta Radiologica*, *Physics in Medicine and Biology*.
- EU / ESR – Pediatric Diagnostic Reference Levels, Guidelines for Radiology in EU, 2014-2015.
- STUK - Radiation and Nuclear Safety Authority of Finland, Co-author in: Guidelines for Pediatric CT Examinations, 2011-2012; Quality Assurance Guidelines in Dental Radiology, 2008-2010; Quality Assurance Guidelines in Diagnostic Radiology, 2006-2008; Imaging Criteria in Paediatric Radiology, 2008; Guidelines in Paediatric Radiology, 2005
- Radiological Society of Finland and Society of Radiographers in Finland, Co-author in the Imaging Guidelines in Mammography, 2008, update revision in 2012 and 2017
- HUS Medical Imaging Center, Technical Quality Assurance Planning Group, 2005; Clinical Audit Planning Group, 2002-2005
- Member in the International Society of Neutron Capture Therapy (ISNCT), since 1998
- Member in the Radiological Society of Finland (SRY), since 2002; Physicist member in the affiliated associations of Breast Radiology and Pediatric Radiology, since 2010
- Member in the Finnish Physical Society, since 2002
- Member in the European Federation of Organisations in Medical Physics (EFOMP), since 2003
- Member in the American Association of Physicists in Medicine (AAPM), since 12/2010
- Member in the IOMP Education and Training Committee, term 2015-2018.
- ESR (European Society of radiology) EuroSafe Imaging CT physics expert, term 2015-2017

RESEARCH AREAS

- Medical imaging: Digital radiology, especially computed tomography (CT) and cone-beam CT, quality assurance and dosimetry, optimization, radiation safety.
- Boron Neutron Capture Therapy (BNCT): neutron and photon dosimetry, biokinetic modelling and estimation, patient positioning system (past research area)
- Supervision of PhD and MSc students in clinical radiology
- Over 120 publications, including peer-reviewed articles, conference proceedings, reviews, general articles, patents and abstracts

List of publications will be provided as requested, main publications can be found through PubMed and Tuhat database (University of Helsinki)

OTHER QUALIFICATIONS

- Audit Qualification (AQ 493/2014; ISO/IEC 17025:2005, ISO 15189:2007: Clinical analytics. Nuclear medicine and clinical physiology), Finas, 2014
- Accreditation Auditor (ISO/IEC 17020, ISO/IEC 17025, ISO 15189), Finas, 2012
- QMS Lead Auditor (ISO 9001, IRCA), Bureau Veritas, 2010
- LEAN management training, Inspecta, 2010
- Public Administration Leadership in Action (PALS 7), VIA Leadership Academy, 2007-2008
- HQ2 Quality Management Expert Course, Helsinki University of Technology, 2002