

## **CURRICULUM VITAE**

### **Personal information**

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### **Current Position:**

#### **Certified Medical Physicist**

- 1) Department of Radiation therapy  
University Hospital Ghent,  
Corneel Heymanslaan 10, 9000 Gent, Belgium
  
- 2) Department of Radiotherapy,  
Centre Hospitalier de Mouscron  
Avenue de Fécamp, 49 B-7700 Mouscron, Belgium

Medical Physics License: FANC - Federaal Agentschap voor Nucleaire Controle, Belgium

### **Work experience**

Position held: 1.) Medical Physicist (2000-2006)  
B.P. Koirala Memorial Cancer Hospital Bharatpur, Chitwan Nepal  
2.) Medical Physicist (2012-2016)  
Dept. of Radiation therapy,  
University Hospital Ghent, Belgium

### **Education :**

- PhD in Medical Physics,  
Ghent University Hospital, Ghent University, Belgium (2006-2012)
- Diploma in Radiological Physics (Dip.R.P), BARC, Mumbai, India (1999-2000)  
equivalent by NARIC, Belgium as “Master of Science in de medische stralingsfysica”
- MS (Physics)  
Tribhuvan University, Kathmandu, Nepal (1994-97)

### **Advance trainings**

- EFOMP school for Medical Physics Experts in Treatment Planning Systems, 10-12 October 2019, Warsaw, Poland.
- Varian Advanced Techniques Physics IMRT/RA, 07-10 May 2019, Steinhausen, Switzerland.
- Monte Carlo Radiation Transport and Associated Needs for Medical application, IAEA, ICTP, 17-28 October 2011, Trieste, Italy.
- IMRT Training University of Pennsylvania, 04 Jun to 03 July 2005, USA.
- Medical physics education VUB, Brussels, 14 Sep. to 23 December 2003 Belgium.
- Medical physics training, KMC, Manipal, 1 Jan to 30 Jun 1998 India.

## **Scientific Activities**

### **Published Articles**

- Gamma Evaluation with Octavius 4D Phantom for PreTreatment of Modern Radiotherapy Treatment Techniques: International Journal of Nuclear Medicine & Radioactive Substances (IJNMRS), 2019, Volume 2 Issue 2: 1-6
- Clinical experience using Delta 4 phantom for pretreatment patient-specific quality assurance in modern radiotherapy: Journal of Radiotherapy in Practice, 2019,18(2) : 210-214
- AFOMP policy number 6: code of ethics for medical physicists in AFOMP Countries: Australas Phys Eng Sci Med, **2018**, 41(4):809-810
- AFOMP Policy No. 5: career progression for clinical medical physicists in AFOMP countries. Australas Phys Eng Sci Med, **2015**, 38(2):217-21
- The effects of incidence angle on film dosimetry and their consequences in IMRT dose verification: Medical Physics, 39, **2012**, 6129-6138
- Skin dose assessment in unmodulated and intensity modulated radiation fields with film dosimetry: Radiation Measurement 47, **2012**, 504-511
- Optimization of backscatter thickness for radiographic film dosimetry: Radiation Physics and Chemistry 81, **2012**, 242-247
- Evaluation of a glassless photographic film scanner for high-gradient radiochromic film dosimetry, Phys. Med. Biol. 57, **2012**, 127-142
- A method of increasing the film intrinsic robustness of radiochromic film dosimetry: Phys. Med. Biol. 57, **2012**, N445-N456
- Medical physics aspects of cancer care in the Asia Pacific region: 2011 survey result, Biomedical Imaging and Intervention Journal (Review Article), 8(2), **2012**, e10, 1-11
- AFOMP Policy Statement No. 3: recommendations for the education and training of medical physics in AFOMP countries. Australas Phys Eng Sci Med, 34(3), **2011**, 303-307
- Output measurement for small field photon beams in sandwich phantom: World Congress on Medical Physics and IFMBE Proceeding, Munich, Germany, **2009**, 25/I, 601-603, [www.springerlink.com](http://www.springerlink.com)
- Radiotherapy for Benign Diseases, Journal of Nepal Medical Association (Review Article) **2008**; 47: 151-155
- Medical physics aspects of cancer care in the Asia Pacific region: Biomedical Imaging and Intervention Journal, 4(3):**2008**, e33,1-8
- The value of EDR2 film Dosimetry in compensator-based intensity modulated radiation therapy: Phys. Med. Biol. 52, **2007**, N439-N447
- Practice of Quality Assurance of HDR Brachytherapy in Nepal: World Congress on Medical Physics and Bio-medical engineering proceeding, Seoul, Korea, **2006**, (1) 1624-1627

- Experience of Brachytherapy in Carcinoma of Uterine cervix at B.P.K. Memorial Cancer Hospital, Bharatpur, Chitwan, Nepal, Journal of Nepal Medical Association, 43, **2004**, 19-22

### **Presented Articles**

- Dosimetric verification of stereotactic body radiation therapy (SBRT) for lung cancer treatment plans using Octavius 4D phantom, AMPICON, November 02 - 04, **2018**, Chennai, India
- Dosimetry verification of Stereotactic Body Radiation Therapy (SBRT) for hepatocellular carcinoma (HCC) treatment, 17th Asia Oceania Congress of Medical Physics (AOCMP) and 38th Annual Conference of Association of Medical Physicists of India (AMPICON), November 04 - 07, **2017**, Jaipur, India
- Clinical experience with Delta4 dosimetry for patient specific quality assurance of modern radiotherapy treatment techniques, 22nd International Conference on Medical Physics, 9-12 December **2016**, Bangkok, Thailand
- PhD Thesis title: The application of film dosimetry in modern radiotherapy: radiographic film is still a viable dosimeter, **2012**, Ghent University, Belgium
- Elekta Multileaf Collimator study using a liquid ionization chamber and film dosimetry: 27<sup>rd</sup> BHPA Symposium Brussels 09-10 February **2012** Belgium. Société Belge des Physiciens d'Hôpital (BHPA)
- Radiographic film: Still a viable Dosimeter. Medical Physics in the Baltic States, 14-16 October, **2010**, Kaunas, Lithuania
- Output measurement of small field in sandwich Phantom: World Congress on Medical Physics and Bio-medical engineering proceeding, Munich, Germany, **2009**.
- The role of Back scatters in Radiographic film dosimetry: 10th BIENNIAL ESTRO CONFERENCE ON PHYSICS AND RADIATION TECHNOLOGY FOR CLINICAL RADIOTHERAPY, 30 August - 3 September **2009** / Maastricht, The Netherlands.
- Evaluation of Gafchromic EBT and EDR2 film for intensity modulated radiation therapy dose verification: 24<sup>rd</sup> BHPA Symposium Kortrijk 06-07 February **2009** Belgium. Société Belge des Physiciens d'Hôpital (BHPA)
- EDR2 film dosimetry for compensator-based Intensity Modulated Radiation Therapy: 23<sup>rd</sup> BHPA Symposium Leuven 08-09 February **2008** Belgium. Société Belge des Physiciens d'Hôpital (BHPA)
- Quality Assurance of MLC in Nepal: World Congress on Medical Physics and Bio-medical Engineering, Sydney, **2003**, Australia.
- Measurement of Bremsstrahlung Radiation with electron energy: KJMP Meeting on Medical Physics, 26-28 Sep. **2002**, South Korea

### **Organisational skills**

- Life Member of [UICC](#)
- Life Member of Association of Medical Physicists of India ([AMPI](#))
- Life Member of Indian Association of Radiation Protection ([IARP](#))
- Life Member of Indian Society of Radiation Physics ([ISRP](#))
- Member of Belgian Hospital Physicists Association

### **Fellowships**

- IAEA (2011)
- BOF, Ghent University (2006-2010)
- ICREET, UICC (2005)
- VLIR (2003)
- IOMP (2001)

### **Other Skills**

- Abilities to work in a team, Flexibility, Dynamism
- Good communication skills and Sense of humour