

# **DR. BIMALI SANJEEVANI WEERAKOON**



## **Official**

Department of Radiography/Radiotherapy,  
Faculty of Allied Health Sciences,  
University of Peradeniya,  
Sri Lanka.

Phone: +94-081-3999621  
Email: bsw888@gmail.com

## **Residential**

No: 260 B,  
Kotabogoda,  
Kdugannawa  
Sri Lanka.

Phone: +94-077-6209786  
+94-032-2253495

## **Objective**

To be an effective educator and researcher.

## **Present Appointment**

Lecturer,  
Department of Radiography/Radiotherapy,  
Faculty of Allied Health Sciences,  
University of Peradeniya.

## **Educational Qualifications**

**PhD.** (Magnetic Resonance Imaging) 2017  
Chiba University,  
Japan.

**BSc.** in Radiography 2011  
Faculty of Allied Health Sciences,  
University of Peradeniya.

## Professional Qualifications

- Lecturer  
Department of Radiography/Radiotherapy, University of Peradeniya from 2017.
- Lecturer (probationary)  
Department of Radiography/Radiotherapy, University of Peradeniya from 2012-2017.
- Temporary Lecturer  
Department of Radiography/ Radiotherapy, University of Peradeniya from 2011 to 2012.
- Registered Diagnostic Radiographer in Sri Lanka from 2012.

## Academic & Professional Training Programs and Workshops

- Certificate of participation in the workshop on 'Cardiac Imaging' conducted by Sri Lanka Collage of Radiologists, 16<sup>th</sup> Annual Academic Sessions– 2017.
- Certificate in Basic Japanese Language conducted by Center for International Education, Chiba University, Japan – 2014.
- Diploma in Computed Tomography- conducted by the Society of Radiological Technologist in Sri Lanka in collaboration with Education, Training and Research Unit of Ministry of Health– 2013.
- Induction Program for Academic Staff- conducted by the University Grants Commission of Sri Lanka and Staff Development Centre in University of Peradeniya, Sri Lanka. – 2013.
- Certificate of participation in the workshop on 'Forensic Radiography' conducted by the Department of Radiography / Radiotherapy, Faculty of Allied Health Sciences in collaboration with the Department of Forensic Medicine, Faculty of Medicine, University of Peradeniya, Sri Lanka – 2013.
- Certificate of participation in the seminar on 'Radiation Hazards and Patient Care' conducted by the Department of Radiography / Radiotherapy, Faculty of Allied Health Sciences in collaboration with the Department of Forensic Medicine, Faculty of Medicine, University of Peradeniya, Sri Lanka – 2013.

- Certificate of participation in the workshop on “Presenting Research Work at a Scientific Forum” organized by the Young Scientists Forum (YSF), National Science and Technology Commission (NASTEC) – 2013.
- Certificate of participation in the short course on Human Resource Management conducted by Center for Environmental Studies of the University of Peradeniya, Sri Lanka – 2013.
- Certificate of proficiency as Radiographers – 2012.
- Certificate of participation in the training program on Basic Statistical Package of Social Sciences (SPSS) software conducted by Institute of Applied Statistics, Sri Lanka – 2012.
- Certificate of participation in the short course on ISO Certification of Quality and Environmental Management Systems (Introductory Course on ISO 9001 & 14001) conducted by Center for Environmental Studies of the University of Peradeniya, Sri Lanka – 2012.
- Certificate of participation in and completion of workshop on ‘Radiation Protection for Medical Radiographers’ conducted by Department of Radiography / Radiotherapy, Faculty of Allied Health Sciences, University of Peradeniya, Sri Lanka – 2012.
- Certificate in ‘Instruction of First Aid’ conducted by St. John Ambulance Association and Brigade, Sri Lanka – 2008.
- Certificate in Computer Programming- Basic level (MS Office applications)- conducted by TEC (Sri Lanka), Sri Lanka – 1999.

### **Conference Attended as a Resource Person**

- Annual General meeting of Society of Radiological Technologists Sri Lanka (SRTSL)- 2017. Topic: “Radiography Education and Career Prospects: Opportunities and Challenges”

### **Scholarships, Awards and Grants**

- Japanese Government (Monbukagakusho: MEXT) Scholarship received for PhD course study (2014-2017).

- Travel grant received from the Association of Graduate Schools of Science and Technology (AGSST) in Chiba University, Japan to participate the 18<sup>th</sup> International Conference on Medical Imaging, Singapore. 7<sup>th</sup> - 8<sup>th</sup> January 2016.
- University of Peradeniya research grants 2012 (RG/2012/15/AHS) received for undertaken the study "Knowledge and attitudes of the radiographers on AIDS/HIV patients attending radiology units in Sri Lanka" with principle collaborator Prof. Ruwan Duminda Jayasinghe.
- University of Peradeniya research grants 2012 (RG/2012/14/AHS) received for undertaken the study "Correlation between the radiographic film densitometry with developing time " with principle collaborator Prof. Ruwan Duminda Jayasinghe.

### **Membership of Professional Organizations**

- Member of the Society of Radiological Technologists, Sri Lanka.
- Member of the International Society of Radiographers and Radiological Technologists (ISRRT).
- Member of the International Society for Magnetic Resonance in Medicine (ISMRM).
- Member of a profession supplementary to medicine at Sri Lanka Medical Council.

### **Contribution to the University**

- Quality Assurance Committee - Faculty of Allied Health Sciences, University of Peradeniya (2017)
- Ethical Review Committee (Secretary) - Faculty of Allied Health Sciences, University of Peradeniya (2017)
- University Safety Committee (2017)
- Part Time Academic Sub Warden in the Ramanathan Hall, University of Peradeniya, Sri Lanka – (2013).

- Faculty Library Committee - Faculty of Allied Health Sciences, University of Peradeniya (2013)

## Research Interests

- Magnetic Resonance Imaging
- Computed Tomography Imaging
- Dental Radiography
- Conventional X-ray Imaging

## Scientific Publications

### Journal Articles

#### 2017

- Osuga T, Ikehira H and **Weerakoon B.** "Diffusion Coefficient Measurements of T1-Enhanced Contrast Agents in Water Using 0.3 T Spin Echo Proton MRI." *Nanomedicine & Nanotechnology*, **2**(2), 2017.
- Osuga T, Ikehira H and **Weerakoon B.** "Transverse and Longitudinal Hydraulic Conductivities in Hollow Fiber Dialyzer Evaluated Using Capillary Flow Analysis." *Nanomedicine & Nanotechnology*, **2**(sp1), 2017.
- **Bimali Sanjeevani Weerakoon**, and Toshiaki Osuga. "Relative diffusion of paramagnetic metal complexes of MRI contrast agents in an isotropic hydrogel medium." *Radiological Physics and Technology*, **10**(1), p:82- 90, 2017.

#### 2016

- **Bimali Sanjeevani Weerakoon**, and Toshiaki Osuga. "Characterization of Flow Distribution in the Blood Compartment of Hollow Fiber Hemodialyzers with Contrast-Enhanced Spin Echo Magnetic Resonance Imaging." *Applied Magnetic Resonance*, **47**(4), p:453-469, 2016.
- **Bimali Sanjeevani Weerakoon**, Toshiaki Osuga, and Takehisa Konishi. "Assessment

the Optimal Effect of Time of Repetition: Extrinsic Pulse Parameter on Gd-DTPA Enhanced, Spin-Echo T1-Weighted MR Images under Low Magnetic Field Strength." International Journal of Medical Physics, Clinical Engineering and Radiation Oncology, **5**(03), p:196-203, 2016.

- **Bimali Sanjeevani Weerakoon**, Toshiaki Osuga, and Takehisa Konishi. "Enhancement Effect of Superparamagnetic Iron Oxide Nanoparticle-Based MRI Contrast Agent at Different Concentrations and Magnetic Field Strengths." World Academy of Science, Engineering and Technology, International Journal of Chemical, Molecular, Nuclear, Materials and Metallurgical Engineering, **10**(1), p:50-53, 2016.

## **2015**

- **Bimali Sanjeevani Weerakoon**, and Toshiaki Osuga. "The Applicability of Gd-DTPA Magnetic Resonance Imaging Contrast Agent for the Evaluation of Blood Compartment Flow Distribution in Hollow Fiber Hemodialyzers." Journal of Biomedical Science and Engineering, **8**(11), p:789-796, 2015.
- **Bimali Sanjeevani Weerakoon**, Toshiaki Osuga. "Approach of Magnetic Resonance Imaging to Analyze the Performance of a Clinical Artificial Kidney Dialyzer" International Journal of Advances in Science Engineering and Technology, ISSN: 2321-9009, (4), p:33-37, 2015.
- **Bimali Sanjeevani Weerakoon** and Toshiaki Osuga. "Concentration Dependent Physical Behaviour of Superparamagnetic Iron Oxide Nanoparticle MR Contrast Agents." International Journal of Innovative Research and Development, ISSN 2278-0211, **4**(9), 2015.
- Ruwan Duminda Jayasinghe, **Bimali Sanjeevani Weerakoon** and MGRS Perera. "Evaluation of Development Time Effect on X-Ray Film Density." International Journal of Modern and Alternative Medicine Research, ISSN 2053-1834, 3, p:1-4, 2015.

## 2014

- Ruwan Duminda Jayasinghe, and **Bimali Sanjeevani Weerakoon**. "Prevention of Nosocomial Infections and Standard Precautions: Knowledge and Practice Among Radiographers in Sri Lanka." *Journal of Medical & Allied Sciences*, 4(1), p:9-16, 2014.
- Ruwan Duminda Jayasinghe, and **Bimali Sanjeevani Weerakoon**. " Knowledge and Attitudes of the Radiographers on AIDS/HIV Patients Attending Radiology Units in Sri Lanka." *European International Journal of Science and Technology*, 3(2), p:17-26, 2014.
- MGRS Perera, **Bimali Sanjeevani Weerakoon**, LPG Sherminie, ML Jayatilake, R D Jayasinghe and W Huang. "Evaluation of Longitudinal Relaxation Time (T1) of Bone Marrow in Lumbar Vertebrae of Leukaemia Patients Undergoing Magnetic Resonance Imaging." *International Science Index*, 8(9) Part III, p:494-496, 2014.

## 2013

- Ruwan D Jayasinghe, **Bimali Sanjeevani Weerakoon**, Roshani S Perera, Wasana E.A. Madushanka, Manil C.N. Fonseka and Kamal A. Wettasinghe. ." Quality of Working Length Radiographs Taken and Used by Dental Students During Endodontic Treatment." *International Journal of Modern and Alternative Medicine Research*, 1(1), 1-4, 2013.

## 2012

- **Bimali Sanjeevani Weerakoon**, and Ruwan Duminda Jayasinghe. "Radiation Protection and the Quality Control Program in Dental Radiology unit. " *Sri Lanka Dental Journal*, 42(3), p:75-81, 2012.

## **International and Domestic article and Abstract Publications**

### **2015**

- **Bimali Sanjeevani Weerakoon**, “The Utility of Paramagnetic and Superparamagnetic Contrast Agents for Magnetic Resonance Imaging.”, *The Radiographer*, ISSN 1391-0795, **11**, 19-23, (2015).

### **2013**

- **Bimali Sanjeevani Weerakoon**, “Contrast Enhanced MRI (CE MRI).”, *The Radiographer*, ISSN 1391-0795, **9**, 22-23, (2013).

### **2012**

- **Bimali Sanjeevani Weerakoon**, “Claustrophobia and MRI Scan.”, *The Radiographer*, ISSN 1391-0795, **8**, 19-20, (2012)
- PB Hevawithana, D Nanayakkara, **Bimali Sanjeevani Weerakoon**, “Detection of Breast Cancer from Screening Mammography in a Sample of Patients Attended a Private Medical Institute in Kandy.”, *The Radiographer*, ISSN 1391-0795, **8**, 21-22, (2012).
- **BS Weerakoon**, RD Jayasinghe, “Radiation Protection and Quality Control Program in Dental Radiology Unit”, *Sri Lanka Dental Journal* 2012; 42 (3): pp 75-81.

## **International and Domestic Conference Oral Presentations and Proceedings**

### **2016**

- **Bimali Sanjeevani Weerakoon.** " Concentration-dependent Signal Enhancement Effect of Gd-DTPA Contrast Agent in Low Field Magnetic Resonance Imaging." Proceeding of the 75th Annual meeting of the Japan Radiological Society, Abstract No: 173, p: S230, Yokohama, Japan. 14th - 17th April 2016.



- **Bimali Sanjeevani Weerakoon**, Toshiaki Osuga, and Takehisa Konishi. "Enhancement Effect of Superparamagnetic Iron Oxide Nanoparticle-Based MRI Contrast Agent at Different Concentrations and Magnetic Field Strengths." Proceeding of the 18th International Conference on Medical Imaging, Singapore. 7th - 8th January 2016. International Science Index, 3(1), 2016 iastem.com/abstracts/37638.

## 2015

- **Bimali Sanjeevani Weerakoon**, Toshiaki Osuga, and Takehisa Konishi. "Experimental evaluation of flow distribution in the blood compartment of hollow fiber dialyzers by medical imaging techniques: an evidence-based review." Proceeding of the 20<sup>th</sup> IRES International Conference and 15<sup>th</sup> International Conference on Innovative Engineering Technologies (ICIET), ISBN: 978-93-85832-65-9, p:26-29, Tokyo, Japan. 12th December 2015.
- **Bimali Sanjeevani Weerakoon**, Toshiaki Osuga. "Approach of Magnetic Resonance Imaging to Analyze the Performance of a Clinical Artificial Kidney Dialyzer" Proceedings of 12th ISERD International Conference and 9th International Conference on Medical and Health Sciences (ICMHS), ISBN: 978-93-85832-00-0, p:66-70, Tokyo, Japan. 26th September 2015.
- **Bimali Sanjeevani Weerakoon**, Ketepee Kankanamalage Chamili Kumara, Toshiaki Osuga. "Characterization of the Particle Size in Magnetic Resonance Imaging Contrast Agents with the Concentration. " Proceeding of the 3rd International Conference on Asian Studies, ISBN:978-955-4543-27-0, Niigata, Japan, 20th – 21st June 2015.

## 2014

- MGRS Perera, **Bimali Sanjeevani Weerakoon**, LPG Sherminie, ML Jayatilake, R D Jayasinghe and W Huang. "Evaluation of Longitudinal Relaxation Time (T1) of Bone Marrow in Lumbar Vertebrae of Leukaemia Patients Undergoing Magnetic Resonance Imaging." Proceedings of the 18th International Conference on Medical Physics and Medical Sciences, Singapore. 11th - 12th September 2014. International Science Index 1(9), 2014 waset.org/abstracts/12985.
- MGRS Perera, **Bimali Sanjeevani Weerakoon**, LPG Sherminie, ML Jayatilake, R D Jayasinghe and W Huang. "Evaluation of Longitudinal Relaxation Time (T1) of Bone Marrow in Lumbar Vertebrae of Leukaemia Patients Undergoing Magnetic Resonance Imaging." Proceedings of the Peradeniya University International Research Sessions, Abstract No: 526, 18, p:298, Peradeniya, Sri Lanka, 4th -5th July 2014.
- Ruwan D Jayasinghe, S Senivirathne, **Bimali Sanjeevani Weerakoon**, Roshani S Perera, U Jayasekara, ML Jayatilake. "Evaluation of Surface Radiation Dose to the Thyroid Gland During Occlusal Intraoral Radiography." Proceedings of the 36th Asia Pacific Dental Congress, p:207, Dubai, United Arab Emirates, 17th -19th June 2014.
- H V U D Kumara, M G G Kanchana, **Bimali Sanjeevani Weerakoon**, S Kulatunga, P B Hewavithana. " Evaluation of Radiation Dose to the Eye During Routine Full Mouth Intra Oral Peri-Apical and Occlusal Radiography. " Proceedings of the International Conference on Multidisciplinary Approaches, p:24, University of Sri Jayawardenepura, Sri Lanka, 13th -14th August 2014.

## 2012

- Ruwan D Jayasinghe, **Bimali Sanjeevani Weerakoon**, Roshani S Perera, Wasana E.A. Madushanka, Manil C.N. Fonseka and Kamal A. Wettasinghe. "Quality of Working Length Radiographs Taken and Used by Final Year Undergraduate Dental Students

during Endodontic Treatment. "International Dental Journal, 62(Suppl. 1), p:74, Hong Kong, 29th August – 1st September 2012.

- Ruwan D Jayasinghe, **Bimali Sanjeevani Weerakoon**, Roshani S Perera, Wasana E.A. Madushanka, Manil C.N. Fonseka and Kamal A. Wettasinghe. "Evaluation of Intra Oral Periapical Radiographs Used by Final Year Dental Students in Endodontic Practice." Conference Manual of 79th Annual Scientific Sessions, Sri Lanka Dental Association, p:27, Colombo, Sri Lanka. 30th June – 1st July 2012.

## **International and Domestic Conference Poster Presentations and Proceedings**

### **2015**

- **Bimali Sanjeevani Weerakoon**, T. Uehara, H. Ikehira, T. Osuga. " Comparative Study of the Diffusion of High and Low Molecular Weight Magnetic Resonance Imaging Contrast Agents." Proceedings of the International Symposium on InfoComm & Medical Technology in Bio-Medical & Healthcare Application (IS-3T-in-3A), Chiba University, Chiba, Japan. 15<sup>th</sup>-18<sup>th</sup> November 2015.
- **Bimali Sanjeevani Weerakoon**, H. Ikehira, T. Osuga. " Evaluation of Molecular Transport Properties in Hemodialyzers." Proceedings of the International Symposium on InfoComm & Medical Technology in Bio-Medical & Healthcare Application (IS-3T-in-3A), Chiba University, Chiba, Japan. 15<sup>th</sup>-18<sup>th</sup> November 2015.
- **Bimali Sanjeevani Weerakoon**, Toshiaki Osuga. "Evidence-based Radionuclide and Radiopharmaceutical Approaches of Flow Perfusion in Hollow-Fiber Dialyzers." Proceedings of the 9<sup>th</sup> Japan-China Joint Seminar on Radiopharmaceutical Chemistry, National Institute of Radiological Sciences, Chiba, Japan. 8<sup>th</sup>-9<sup>th</sup> November 2015.
- Ruwan Duminda Jayasinghe, **Bimali Sanjeevani Weerakoon** and MGRS Perera. " An Evaluation of the Effect of Development Time on X-ray Film Density." Proceedings of the Peradeniya University International Research Sessions, Abstract No: 399, 19, Peradeniya, Sri Lanka, 5<sup>th</sup> -6<sup>th</sup> July 2015.

## 2013

- Ruwan Duminda Jayasinghe, and **Bimali Sanjeevani Weerakoon**. "Knowledge and practices of infection control among radiographers in Sri Lanka. " 35<sup>th</sup> Asia Pacific Dental Congress, Kuala Lumpur, Malaysia, 8<sup>th</sup> to 12<sup>th</sup> May 2013.