

Retno Zurma

M.Si Graduate in Medical Physics

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Personal Information

Position	: Nuclear Medicine Medical Physicist - Radiation Safety Officer
Place/ Date of Birth	: Painan, 11 Juni 1988
Office Address	: Instalasi Kedokteran Nuklir - RSUD Abdoel Wahab Sjahranie
Home address	: Villa Tamara Residence Jl. AW Sjahranie Blok F6 – Samarinda

Professional Experiences

RSUD Abdoel Wahab Sjahranie | Samarinda, Indonesia

Medical Physicist Nuclear Medicine (Permanent)

02/2019-present

– Radiation Protection Officer Medic level 1

- Planning radiation protection equipment and shielding radiation design for rooms nuclear medicine facilities and production facilities.
- Performing daily audit dose on internal dosimetry and radiation waste management
- Managing, supervising and evaluating the operation of radioisotope and radiopharmaceutical production facilities
- Supporting the training radiation protection for nuclear medicine team
- Conducting quality assurance and quality control nuclear medicine equipment
- Coordinating, monitoring and controlling medical physics service programs and operational aspects of radiation protection and safety programs
- Executing emergency handling of open sources, handling of contaminated areas and implementation of internal radiation protection
- Radiation protection during radioisotope and radiopharmaceutical production
- Conducting routine inspections and license verification for BAPETEN

Accomplishment: Consistent Performance with Quality 100%

- Rumah Sakit Pertamina Balikpapan | Balikpapan, Indonesia

Medical Physicist in Radiodiagnostic and Interventional (Full-Time Employment)

1/2017-07/2018

Medical Physicist in Radiodiagnostic and Interventional (Consultant Employment)

11/2018-07/2022

Duties:

- Conducted quality assurance and quality control radiodiagnosis and interventional equipment
- Created radiation protection application for facilities design, patient and radiation worker
- Performed daily audit on internal dosimetry and provide analysis of dose limit value and feedback to radiation worker
- Conducting routine inspections and license verification for BAPETEN
- Identified potential error in equipment and provide support on the quality related question

MRCCC Siloam Hospital Semanggi | Jakarta, Indonesia

Internship at Radiotherapy Department

07/2015-11/2015

- Applied of medical physics principles and techniques for treatment VMAT and IMRT for cancer
 - Provided clinical professional services in radiation oncology physics
 - Acknowledged the radiotherapy basic comprehension
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Education

University of Indonesia | Depok, Indonesia

Master of Science, (September 2013 – January 2016)

Research Student in Radiotherapy, (September 2014- August 2015)

- Advised by: Suprianto Ardjo Pawiro, Ph.D.

Andalas University | Padang, Indonesia

Bachelor of Science, (September 2006 – September 2011)

Research Student in Nuclear Medicine, (November 2010- March 2011)

- Supervised by: Dian Milvita, M.Si.
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Area of Expertise, Skills, and Language Skills

Area of expertise: Dosimetry Research, Quality control and quality assurance, Radiation protection, Experienced Data Analyst, Radiation Legacy, Nuclear medicine, Medical imaging physics, calibration, radiotherapy, radiodiagnostic and interventional.

Skills: Dosimetry Research, Calibration Radiation Equipment, Radiation Protection, Planning and Optimization Nuclear Medicine, Radiation Shielding Design, Communication & Leadership

Language skills: Indonesia (Native), English (Intermediate), Minangnese (Native)

Courses

- The Training Course on Radiation Protection Officer for Medical Application Level 1, BATAN (2019)
 - Imaging Physics Course, University of Indonesia – IAEA (2019)
 - Pelatihan Dasar Ilmu Kedokteran Nuklir, RSUD. AWS – RSUP. RSHS (2020)
 - QA/QC CT Simulator dan SPECT-CT, Afismi – GE (2020)
 - Radiation Protection in Medicine, IAEA Project INS9029 – BATAN (2020)
 - Radionuclide Therapy and Radiopharmaceutical development, University of Indonesia – ACOMP (2021)
 - Training Course on Nuclear Medicine for Health Workers, MRCCC Siloam Hospital (2022)
 - Workshop International On Radiation Protection and Safety in Application and Production of Radiopharmaceuticals – FGD IAEA TC INS9030 (2024)
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Publications

- Analysis of radiation exposure level on Linen and other objects in radiation isolation rooms (2023)
- Pengujian Karakteristik Alat ukur radiasi Dose Calibrator menggunakan sumber Tc99m dan CO57 (2023)
- Pengaruh Penurunan Aktivitas CO57 terhadap quality control harian SPECT (2023)
- Analisis laju paparan radiasi pada daerah kerja di Instalasi Kedokteran Nuklir (2023)
- Analisis Paparan Ekstremitas tangan dan dosis efektif pekerja radiasi di Instalasi Kedokteran Nuklir (2025)