

JOURNAL
OF
CLINICAL
AND
HEALTH SCIENCES

JCHS

SUPPLEMENTARY ISSUE

MARCH 2026
VOLUME 11 ISSUE 1 (SUPPLEMENTARY)



Fakulti
Sains Kesihatan



EMERGING TRENDS
IN MEDICAL IMAGING:
FROM PATIENTS TO PIXELS
SYMPOSIUM

Official Journal of
Faculty of Medicine
Universiti Teknologi
MARA



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eISSN-0127-984X

ETU011

Analysis of Dose History and Health of Radiation Workers in Radiology Installation of PKU Muhammadiyah Hospital Bantul and Panti Nugroho Hospital Sleman

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Introduction: The Radiology Department is a vital unit in hospitals that provides diagnostic and interventional services. However, exposure to ionizing radiation poses health risks for radiation workers. To ensure their safety, regular radiation dose monitoring and health examinations are necessary. This study aims to analyze the radiation dose history and health status of workers in the Radiology Department of RS PKU Muhammadiyah Bantul and RS Panti Nugroho Sleman. **Methods:** This study employed a qualitative method with a descriptive approach. Data were collected through observation, interviews, literature studies, and documentation from 12 radiographers and 1 radiologist at RS PKU Muhammadiyah Bantul, and 6 radiographers at RS Panti Nugroho Sleman. Data analysis was conducted through data reduction, data presentation, and conclusion drawing. **Results:** The radiation doses received by workers at both hospitals remain within the safe limits as regulated by BAPETEN Regulation No. 13 of 2013 (maximum 20 mSv/year). However, not all workers have consistently undergone dose monitoring, particularly those not yet permanent employees. Health examinations showed normal hemoglobin levels, but some workers experienced elevated leukocyte levels, impaired liver function (SGOT/SGPT), and leukocyturia in urine tests. **Conclusions:** Radiation doses received by radiology workers in both hospitals are within safe limits. Dose monitoring is carried out periodically but is not yet consistent for all staff. Health examinations are generally normal, although some indicators of potential health issues were observed in several workers.

Keywords: occupational safety, dose monitoring, health monitoring, radiology