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Patient's Perception of Radiation Safety Protocols in Radiation Therapy Facility in Batangas

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Introduction: Patient education on radiation safety is crucial in minimizing anxiety and ensuring compliance during radiation therapy. However, the extent to which patients understand these protocols remains underexplored. This study aimed to assess patient's perceptions of radiation safety before and during treatment in hospital in Batangas. **Methods:** A descriptive design was employed among 27 patients undergoing radiation therapy. An adapted questionnaire was administered to gather data on demographic variables and perceived understanding of safety measures. Statistical analyses were performed to identify relationships between demographic factors and patient understanding. **Results:** Findings revealed most respondents were aged 41–50 years, female, and held at least a bachelor's degree. Cervical cancer was the most common diagnosis. Participants reported high perceived understanding of safety protocols before and during treatment, with strong agreement on awareness and communication experiences. No significant relationship was found between understanding and age, sex, or cancer type. However, educational attainment showed a significant inverse correlation with understanding in the pre-treatment phase, suggesting that higher education levels don't guarantee better comprehension of radiation safety. **Conclusions:** These findings emphasized the need for clear patient education regardless of educational background. The development of standardized informational materials is recommended to enhance patient comprehension and ensure safety across diverse populations. This study highlighted the need for healthcare facilities to identify and address communication gaps in the implementation of radiation safety protocols. By enhancing the delivery of information and education strategies, facilities can strengthen patient trust and improve their overall treatment experiences.

Keywords: radiation therapy, radiation safety protocols, patient perception