

LEMBAR
HASIL PENILAIAN SEJAWAT SEBIDANG ATAU PEER REVIEW
KARYA ILMIAH : JURNAL ILMIAH

Judul Jurnal Ilmiah (Artikel) : Comparison of Central, Peripheral and Weighted Size Specific Dose in CT to Dose Results from IndoseCT Software

Nama/ Jumlah Penulis : 3 Orang

Status Pengusul : Penulis ke-3

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Semarang, 14 Juli 2022

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Semarang, 14 Juli 2022

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Paper ini membahas tentang penghitungan dosis rata-rata phantom dengan diameter 16 dan 32 cm, serta distribusi dosis di pusat dan pinggiran. Perhitungan hasil dosis kemudian dibandingkan dengan Software IndoseCT. Hasil menunjukkan perbedaan yang tidak signifikan dengan pengukuran dosis radiasi menggunakan phantom.

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Assessment of Knowledge and Awareness about Basics of Radiation and Safety Measures among Allied Health Science Professionals Including Radiographers and Students of Radiology and Imaging Technology: University Based Study

Prashant Kumar Jha¹, Rajdeep Thidwar², Piyush Yadav³

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ABSTRACT

Aim & Objective-This study has been undertaken to assess the knowledge and awareness about basics of radiation and safety measures in diagnostic radiology among allied health professionals including, Radiographers, and students of Radiology and imaging technology.

Materials and Methods: A questionnaire based survey was performed to collect data of knowledge about the radiation awareness and safety measures using in diagnostic radiology, among allied health professionals including radiographers, and students of Radiology and imaging technology.

Result- Knowledge about principle of radiation protection was very disappointing, because 30.60% of the participants know the basic principle of radiation protection (Justification, Optimization, and Dose Limit). 43.40% participants said that, ALARA is the basic principle of radiation protection while 26% participants said that, TDS (Time, Distance and Shielding) is the basic principle of radiation protection.

Discussion-Majority of participants needs to improve their knowledge about the radiation awareness and safety measure.

Keywords: Radiation, Safety, Protection, Radiation awareness.

INTRODUCTION

Radiation plays a massive role in the current health care system. Technical advancement in the medicine leads to increase the radiation exposure to general public with artificial source of radiation [1]. With advancement of technology in the field of science as well medicine after accidentally discovery of X ray by sir Wilhelm Conrad Roentgen in 1895, the use of ionizing radiation in the field of radiology has been rapidly increasing, which is attributable to current technology in the medical imaging, that are promising to solve the variety of clinical problems [2]. Ionizing radiation from medical use and applications leads to majority of the radiation doses from artificial or manmade sources to which the general public is exposed [3]. Most of the medical imaging procedures including, routine radiography angiography, fluoroscopy, computed tomography (CT) etc. utilize ionizing radiation to create a good quality of radiographic image. In some investigation such as several CT procedures and intervention procedures the threshold level may be exceeded as permitted by the competent authorities [4]. Thus it's very important to know about the radiation, their

Psychological Impacts and Coping Mechanisms of 4th District of Camarines Sur, Philippines during the Community Quarantine due to Corona Virus Disease (COVID-19)

Marilou Palmes-Barcela

Partido State University Goa, Camarines Sur, **Philippines**

DOI: <https://doi.org/10.52403/ijrr.20220746>

ABSTRACT

To determine the psychological impact and coping mechanisms of selected group of residents in the 4th District of Camarines Sur during the Community Quarantine due to COVID-19, this study was conducted. This a descriptive research and questionnaire was prepared and adopted the Self-Reporting questionnaire developed by World Health Organization (WHO); and the impact of Events Scale –Revised (IES-R). Findings revealed that students were high in terms of neurotic, psychotic and post-traumatic stress disorder (PTSD). Among these three, post-traumatic stress disorder (PTSD) was the highest at 76.81 % among students. Male recorded the highest compared to female. Symptoms were avoidance, intrusion and hyper arousal. Generally, they had experienced moderate symptoms. The respondents were with their family and stayed at home, generally felt sad and their top most coping mechanisms were praying, listening to music/singing, and connecting with others thru social media. Local governments and barangays provided support such as rice, grocery items and facemasks which in a way helped cope the impact of community quarantine. Some were happy and some were not due to some issues on the system of distribution. Various recommendations were given to improve the system and to cope with the impact of the community quarantine, that the local government and barangay officials must come up with the concrete programs and budget, specific focus on the distribution, prioritization of recipients, immediate response, protocols, recreational, wellness, moral and financial

support to boost the morale and avoid the adverse effect of community on the health condition of the residents.

Key words: psychological impact, coping mechanism, COVID- 19 pandemic, community quarantine, barangay and government support

INTRODUCTION

A pandemic is a global outbreak of disease. Pandemics happen when a new virus such as COVID-19 (coronavirus disease 2019), which emerges to infect people and can spread between people. On the onset of SARS-CoV-2 virus or Corona Virus (COVID -19) pandemic, one of the measures in order control the spread is the declaration of community quarantine. Samantha K Brooks (2020) explains that quarantine is the separation and restriction of movement of people who have potentially been exposed to a contagious disease to ascertain if they become unwell, so reducing the risk of them infecting others. It is often unpleasant experience for those who undergo it.

In India, Varshney M, Parel JT, Raizada N, Sarin SK (2020), find out that higher psychological impact was predicted with younger age, female gender and comorbid physical illness. Presence of physical symptoms and contact history predicted higher psychological impact, but did not reach statistical significance. Rodríguez-Rey R, Garrido-Hernansaiz H and Collado S