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Difficulties Encountered by Computed Tomography Scan Technologist in Handling Traumatic Brain Injury Patient

Schner A. Ingco, Ronagene T. San Juan, Daniele Clyde P. Cacha

College of Radiologic Technology, Calayan Educational Foundation, Inc, Philippines

Corresponding author: Daniele Clyde P. Cacha

Email: danieleclyde.cacha@cefi.edu.ph

Introduction: Traumatic Brain Injury (TBI) poses unique challenges in diagnostic imaging, especially for Computed Tomography (CT) scan technologists who managed difficulties related to patient positioning, communication, cooperation, and time constraints. This study aimed to identify the specific challenges encountered by CT technologists when handling TBI patients and examine whether demographic variables influence these challenges. **Methods:** Using a descriptive quantitative method, the researchers surveyed 33 CT technologists working in hospitals and clinics around Lucena City. Data were analyzed using frequency and percentage, weighted mean, Spearman's rho, and Mann-Whitney U test. **Results:** The results indicated that patient cooperation was the most significant challenge, followed by difficulties in positioning and communicating with disoriented or aggressive patients. Time constraints during emergency scans also notably impacted workflow. A significant difference was found in positioning difficulties between male and female technologists, while age and caseload showed no significant effect. **Conclusion:** The study recommends targeted training, institutional support, and improved trauma imaging protocols to enhance technologists' preparedness and ensure better care for TBI patients in emergency settings.

Keywords: CT technologists, traumatic brain injury, emergency setting