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REVIEWER'S REPORT

Manuscript No.: IJAR-50323 Date: 19-02-2025

Title: Investigating the Comparison between MDCT Brain Plain and MRI Findings in Infants Presenting with Hydrocephalus: A Hospital-based Cross-Sectional Study

Recommendation:
Accept as it is.....
Accept after minor revision.....
Accept after major revision .....
Do not accept (*Reasons below*) .....

Rating	Excel.	Good	Fair	Poor
Originality	√			
Techn. Quality		√		
Clarity		√		
Significance			√	

Reviewer's Name: Dr Aamina

Reviewer's Decision about Paper: **Recommended for Publication.**

Comments (*Use additional pages, if required*)

Detailed Reviewer's Comment / Report

Title: Investigating the Comparison between MDCT Brain Plain and MRI Findings in Infants Presenting with Hydrocephalus: A Hospital-based Cross-Sectional Study

Overall Evaluation

The study provides valuable insights into the comparative advantages of MDCT and MRI in diagnosing hydrocephalus in infants. The methodology is well-structured, and the statistical analysis is appropriately applied. However, some areas could be refined to improve clarity, depth, and impact.

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Strengths

1. **Clinical Relevance** – The study addresses an important diagnostic challenge in pediatric neuroimaging and provides practical insights for clinicians.
2. **Methodological Rigor** – The use of a 64-slice MDCT and 1.5 Tesla MRI ensures high-quality imaging, and the inclusion of a statistical comparison strengthens the reliability of the findings.
3. **Clear Presentation of Results** – The study effectively compares the diagnostic strengths of each modality, highlighting their specific advantages in detecting different conditions.

Areas for Improvement

1. Introduction & Background

☐ Strengths: The introduction provides a clear rationale for the study.

☐ Recommendation: Briefly expand on the significance of early hydrocephalus detection and how imaging choices impact treatment planning. Adding references to recent advancements in neuroimaging could strengthen the background.

2. Methods

☐ Strengths: The methodology is clearly described, and the statistical approach is appropriate.

☐ Recommendation:

- Specify the inclusion and exclusion criteria more explicitly. For example, were preterm infants included? Were there any exclusion criteria based on congenital abnormalities?
- Clarify the reasoning behind the sample size (n=39). Was a power calculation performed?

3. Results

☐ Strengths: The study presents a clear and comparative analysis of CT and MRI findings.

☐ Recommendation:

- Provide confidence intervals for key results to enhance statistical robustness.
- Consider adding a visual representation, such as a **bar graph or table**, to better illustrate the comparative detection rates of CT vs. MRI.

4. Discussion

☐ Strengths: The discussion appropriately interprets the findings.

☐ Recommendation:

- Expand on the **clinical implications** of the findings, particularly in scenarios where one imaging modality should be preferred over the other.

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- Discuss the **limitations** of each technique more explicitly (e.g., cost, accessibility, radiation exposure).
- Consider addressing future directions for research, such as potential roles of **artificial intelligence in automated hydrocephalus detection**.

5. Conclusion

☐ Strengths: The conclusion summarizes the findings well.

Publish the paper as it is.