

REVIEWER'S REPORT

Manuscript No.: IJAR-55780

Title: *The Effect of Cartoon-Based Distraction on Pain Perception During Intravenous Injection Among Preschool Children*

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 Name: Dr S. K. Nath

Date: 16.01.26

Detailed Reviewer's Report

Strengths of the Study:

- The topic addresses an important aspect of pediatric pain management, focusing on non-pharmacological interventions which are relevant and increasingly emphasized in clinical practice.
- The study explores a novel and engaging distraction technique utilizing cartoons that are developmentally appropriate for preschool children.
- The methodology employs a pretest-posttest design, allowing for direct comparison within subjects.
- The use of a validated pain assessment tool (FLACC scale) supports the reliability of the data collected.
- The study offers potential practical applications for pediatric healthcare providers to reduce procedural pain.

Weaknesses of the Study:

- The sample size of 65, while adequate for preliminary analyses, may limit the generalizability of findings.
- The use of a convenience sampling technique may introduce selection bias.
- The study is conducted in a single hospital, limiting external validity.
- Lack of a control group makes it difficult to attribute reductions in pain solely to the cartoon distraction.
- The statistical analysis, while appropriate (Wilcoxon signed-rank test), could benefit from reporting effect sizes and confidence intervals.
- Ethical considerations are briefly addressed, but details about the IRB approval number and informed consent process are lacking.
- The manuscript contains minor typographical and grammatical errors that affect readability.
- Presentation of tables requires clearer formatting; some tables are truncated or lack comprehensive legends.
- The discussion could be enhanced by comparing results with similar existing studies.

Reviewer Comments:

- **Title & Abstract:** The title is clear and specific. The abstract succinctly summarizes the background, objective, methods, results, and conclusion but could be improved with explicit mention of the statistical significance and effect size.

International Journal of Advanced Research

Publisher's Name: Jana Publication and Research LLP

www.journalijar.com

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- **Introduction & Objectives:** The introduction provides relevant background information on pediatric pain management and the rationale for using cartoon distraction. The objective is clearly stated but could be more specific regarding the anticipated outcomes.
- **Methodology & Statistical Analysis:** The choice of a pretest-posttest design is suitable; however, the absence of a control group is a significant limitation. Further, more detailed demographic data and inclusion/exclusion criteria would strengthen the methodology. The statistical analysis is appropriate but should include additional metrics such as effect size.
- **Results & Discussion:** Results are presented clearly, with appropriate use of tables to display pain scores before and after intervention. The significant reduction in pain perceptions supports the hypothesis; however, the clinical significance should be discussed. The discussion appropriately addresses implications but should be expanded to a broader context.
- **Conclusion & Implications:** The conclusion aligns with the findings but should emphasize limitations and suggest directions for future research.
- **Ethical Clearance:** Ethical approval details are briefly mentioned; however, the approval number, issuing authority, and specifics of informed consent should be explicitly stated.
- **Language & Formatting:** The manuscript contains minor language errors and some awkward phrasing. Proofreading and editing are recommended to improve clarity and professionalism.
- **Tables & References:** Tables are generally useful, but some formatting improvements are needed for clarity. The references cited are appropriate but limited; expanding the reference list to include more recent studies would be beneficial.

Note: Based on a preliminary search, there is no indication that this specific paper has been previously published online or elsewhere. However, a thorough plagiarism check should be conducted before publication.