



### REVIEWER'S REPORT

Manuscript No.: IJAR-50377

Date: 24-02-2025

**Title: Effect of Comprehensive Nursing Intervention on self-care practices of patients undergoing hemodialysis**

**Recommendation:**

- Accept as it is.....**YES**.....
- 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*)

### Reviewer's Comment / Report

The study "**Effect of Comprehensive Nursing Intervention on Self-Care Practices of Patients Undergoing Hemodialysis**" presents a structured investigation into the impact of nursing interventions on self-care practices among patients receiving hemodialysis. Chronic Kidney Disease (CKD) is a progressive condition requiring long-term management, and this study effectively highlights the role of comprehensive nursing interventions in improving self-care behaviors.

The research employs an **experimental time series design** with **randomized controlled methodology**, which strengthens its validity. A **total enumerative sampling** approach was utilized to recruit **106 patients**, ensuring a broad representation of newly initiated hemodialysis patients. Participants were randomly assigned to either an **intervention group**, receiving a structured nursing intervention, or a **control group**, receiving routine care. The structured self-care practice checklist, covering **fistula care, physical activity, dietary modification, and fluid restriction**, provided a robust framework for evaluating patient adherence and outcomes.

The study findings indicate a significant improvement ( $p < 0.05$ ) in the self-care practices of the intervention group compared to the control group. The results highlight the positive impact of structured

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nursing interventions in fostering adherence to recommended self-care behaviors, which are crucial for managing CKD effectively.

The introduction provides a strong contextual background by discussing **global trends** in CKD incidence, **risk factors**, and **preventive strategies** at different levels. It effectively positions self-care management as a key determinant in improving both physical and psychological outcomes for hemodialysis patients. The discussion of prior research, including studies on dietary monitoring applications and self-care efficacy, reinforces the study's rationale and relevance.

The **methodology** is well-structured, detailing the **randomized controlled trial design** and **time series approach**. The use of **chi-square and independent t-tests** for statistical analysis ensures the robustness of the findings. The study's focus on essential self-care components—**vascular access maintenance, fluid management, dietary compliance, and adherence to treatment**—aligns with the broader goals of enhancing hemodialysis outcomes.

In conclusion, the study presents compelling evidence that **Comprehensive Nursing Intervention significantly enhances self-care practices among hemodialysis patients**. The findings contribute to the growing body of research advocating for structured nursing programs to improve patient adherence and treatment outcomes.

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