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REVIEWER'S REPORT

Manuscript No.: IJAR-53162 Date: 07-08-2025

Title: Red Blood Cell Indices and Morphological Changes in Chronic Kidney Disease: A Cross-Sectional Analysis from a Tertiary Care Hospital

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

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

Reviewer Name:Dr Payal Adwani(PT) **Date:07-08-2025**

Reviewer's Comment for Publication.
This article provides relevant clinical data on hematological alterations—particularly red blood cell indices and morphological changes—in patients with chronic kidney disease (CKD). It contributes usefully to the understanding of anemia in CKD, especially for clinicians in nephrology and internal medicine.
However, the manuscript would benefit from enhanced scientific language, expanded discussion, and clarification of statistical interpretation. With minor revisions, the article is recommended for publication.

Detailed Reviewer's Report

Appraisals / Strengths

- Relevant and Practical Topic:

The study addresses a common and significant complication in CKD—anemia—and provides data from real-world hospital settings.

- Good Sample Size:

Inclusion of 100 patients provides a reasonable base for clinical observation and prevalence estimation.

- Useful Hematological Parameters Covered:

A comprehensive range of RBC indices (Hb, MCV, MCH, MCHC) is analyzed along with peripheral smear results, which are clinically meaningful.

- Identification of Common Anemia Types:

The observation of normocytic normochromic and dimorphic anemia patterns aligns with expected CKD-related hematological presentations.

- Data Collection Tool Clearly Stated:

Use of SPSS 20.0 indicates statistical analysis was formally attempted.

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Critiques / Limitations

- Language and Grammar Issues:

There are several grammatical errors and awkward sentence constructions that require correction (e.g., "Haemoglobin(Hb),Red blood cell(RBC), Packed cell volume(PCV) were low" lacks proper spacing and parallelism).

- No Statistical Significance Reporting:

The study lacks inferential statistics (e.g., p-values, confidence intervals) to determine if observed trends are statistically significant.

- Peripheral Smear Interpretation Lacks Depth:

Although types of anemia are described, there is no detailed breakdown of morphological abnormalities (e.g., anisopoikilocytosis, target cells, etc.).

- Limited Discussion of Pathophysiology:

The paper would benefit from a brief explanation of why CKD leads to specific hematological changes (e.g., erythropoietin deficiency, uremic toxins).

- Missing Demographic Sub-analysis:

Age and gender are collected but not explored further to assess whether anemia patterns vary across these subgroups.

- Abstract and Conclusion Redundancy:

The abstract and conclusion sections repeat similar statements. A more insightful conclusion would discuss implications for practice or future research.

- Literature Review Minimal:

No citations or comparison with other regional/national/international studies are provided to contextualize findings.