

Review Form 1.8

Journal Name:	International Journal of Advances in Nephrology Research
Manuscript Number:	Ms_IJANR_120069
Title of the Manuscript:	Anaemia and Chronic Kidney Disease: A Brief Review on the Direction of Their Relationship
Type of the Article	Review Article

General guideline for Peer Review process:

This journal's peer review policy states that **NO** manuscript should be rejected only on the basis of '**lack of Novelty**', provided the manuscript is scientifically robust and technically sound. To know the complete guideline for Peer Review process, reviewers are requested to visit this link:

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PART 1: Review Comments

Compulsory REVISION comments	Reviewer's comment	Author's Feedback <i>(Please correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)</i>
<p>Is the manuscript important for scientific community? (Please write few sentences regarding this manuscript to justify your answer)</p>	<p>1-Chronic kidney disease (CKD) is a major global health concern, affecting approximately 10% of the adult population worldwide. Is this related to gender? Explain this? 2-Discuss the following statement, "Chronic kidney disease is often accompanied by anemia, which severely affects the patient's quality of life and increases the risk of cardiovascular complications". 3-The main cause of anemia in patients with chronic kidney disease is insufficient production of erythropoietin (EPO). Does this apply to all ages? Explain this? 4-Discuss the following statement, "Effective management of anemia in patients with chronic kidney disease requires a comprehensive approach that includes regular monitoring of hemoglobin and iron levels, timely administration of treatments such as EPO and intravenous iron, and treatment of underlying causes". 5-CKD is characterized by a gradual decline in kidney function over months or years, often culminating in end-stage renal disease (ESRD), necessitating dialysis or a kidney transplant. How? Discuss it? 6-Nine out of ten individuals suffering from chronic kidney disease (CKD) are in resource-poor environments and are unaware of their condition, so they refrain from seeking specific treatment. Is it held that only poor environments are related to kidney disease? Explain it? 7- Anemia is a common complication in patients with chronic kidney disease, as hemoglobin levels decrease as kidney function deteriorates. How? Discuss it? 8-Discuss the following statement "Anemia affects more than two-thirds (68%) of individuals who begin dialysis. In addition, 49.6% of men and 51.2% of women with stage 4 or 5 CKD who do not receive referrals have From kidney specialists from anemia" 9-Why are the clinical complications of anemia in patients with chronic kidney disease profound and multifaceted? A range of symptoms, including fatigue, weakness, shortness of breath, and cognitive impairment, severely affect patients' quality of life. These symptoms can lead to decreased physical activity, depression, and overall decreased functional ability. Explain? 10-Discuss the following statement "Anemia is a well-recognized risk factor for cardiovascular complications in patients with CKD. It increases cardiac workload by necessitating increased cardiac output to compensate for decreased oxygen-carrying capacity, which may lead to left ventricular hypertrophy, heart failure, and heart disease." Ischemic heart 11-Do you believe that understanding the relationship between anemia and chronic kidney disease is essential for developing treatments, improving patient care and management, and ultimately enhancing patient outcomes? This review attempts to clarify the gray areas of pathophysiological links, clinical implications, and strategies for managing anemia in patients with CKD. Discuss it briefly? 12- Some studies indicate that using erythropoietin with iron to treat anemia associated with kidney failure is more beneficial for CKD patients who suffer from low Hb. How so? Explain it? 13-mitochondrial dysfunction in chronic kidney disease. Timely administration of intravenous iron may help alleviate further complications. How? Discuss it? 14-Discuss the following statement, "Chronic inflammation in chronic kidney disease contributes to anemia through the production of pro-inflammatory cytokines such as interleukin-6 (IL-6). These cytokines increase hepcidin levels, which further disrupts iron metabolism and impairs erythropoiesis". 15-Why should patients with kidney disease, including those dependent on dialysis or transplantation, feel actively supported in managing symptoms by identifying and targeting unpleasant symptoms through a personalized palliative care approach? Explain this? 16-How might the co-existence of anemia and chronic kidney disease (CKD) pose a particularly</p>	

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	<p>high risk to individuals with diabetes, who are already dealing with decreased oxygen supply and increased oxygen demand discussed?</p> <p>17-Diagnosis of anemia in chronic kidney disease includes measuring hemoglobin levels, serum ferritin, transferrin saturation, and EPO levels. A complete blood count (CBC) helps determine the severity of anemia, while iron studies evaluate iron status. How? Explain it?</p> <p>18-For patients with chronic kidney disease who do not suffer from anemia, hemoglobin concentration should be measured when clinically indicated and: at least annually in patients with stage 3 chronic kidney disease discussed?</p> <p>19-Discuss the following statement "The optimal frequency for monitoring hemoglobin levels cannot be precisely determined and the recommendation for periodic evaluation is based on the observations that in the absence of ESA use, Hb levels often gradually decline over time in CKD patients with low glomerular filtration rate (GFR) and that It requires regular monitoring of hemoglobin levels".</p> <p>20-Hemoglobin test should also be done whenever clinically indicated, such as after major surgery, hospitalization or bleeding episodes Do you agree with this?</p> <p>21-In pediatric CKD patients, there is no direct evidence indicating a different monitoring frequency than in adults. Do you agree with this statement?</p> <p>22 -Discuss the following statement "Peocytosis indicates folate or vitamin B12 deficiency, while microcytosis can indicate iron deficiency or hemoglobinopathy. The reticulocyte count helps assess erythropoietic activity. Evaluation of iron status included serum ferritin for iron storage and TSAT Iron availability is affected by inflammation, so careful interpretation is required.</p>	
<p>Is the title of the article suitable? Yes (If not please suggest an alternative title)</p>	<p>Yes</p>	
<p>Is the abstract of the article comprehensive? Yes</p>	<p>Yes</p>	
<p>Are subsections and structure of the manuscript appropriate?</p>	<p>Yes</p>	
<p>Do you think the manuscript is scientifically correct? yes (Please write few sentences regarding this manuscript to justify your answer)</p>	<p>23- A total of 715 patients were enrolled in the study, of whom 432 (59.2%) were male and 292 (40.8%) were female. The mean age was 56.4±15 years. Of the 715 patients, 531 (74.3%) were found to suffer from anemia, and 58 (8.1%) suffered from severe anemia, resulting in an overall prevalence of 82.4% among study participants if the proportion of males and females were equal and of the same ages. Does this affect the results obtained?</p>	
<p>Are the references sufficient and recent? If you have suggestion of additional references, please mention in the review form. Yes</p>	<p>Yes , please add 5 modern references at last 5 years</p>	

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<p>Minor REVISION comments</p> <p>Is language/English quality of the article suitable for scholarly communications?</p>	<p>Yes</p>	
<p>Optional/General comments</p>	<p>24Discuss the following statement “Continued efforts in research, clinical practice, and public health initiatives are critical to combating the burden of anemia in patients with CKD and improving outcomes for patients with CKD worldwide”.</p> <p>25-Discuss the following statement, “Continuing research into new treatments such as HIF-PHIs (hypoxia-inducible factor (HIF) prolyl hydroxylase (PH)) and other agents offers hope for more effective and safe management of anemia in patients with chronic kidney disease”.</p> <p>26-Future studies should focus on the long-term results, safety profiles, and cost-effectiveness of these treatments. Do you agree with that statement?</p>	

PART 2:

	<p>Reviewer’s comment</p>	<p>Author’s comment (if agreed with reviewer, correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)</p>
<p>Are there ethical issues in this manuscript?</p>	<p><i>(If yes, Kindly please write down the ethical issues here in details)</i></p>	

Reviewer Details:

Name:	Qusay Kh. Al_Dulamey
Department, University & Country	Mosul University, Iraq