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Abstract

Background and Aim: kidney dysfunction is the loss of elimination of wastes of the kidneys in an adequate manner, which causes the accumulation of nitrogenous substances in the circulation. This condition is present in acute and chronic forms. The last stage renal disease (ESRD) is the terminus stage which requires renal replacement measures.

Methods: The present study was undertaken using the sample of patients with renal failure undergoing dialysis at Baquba Teaching Hospital during the months of January to April 2022. The 62 and 35 were the patients who reported kidney failure and non-renal healthy controls, respectively. Alanine aminotransferase (ALT), aspartate aminotransferase (AST), and alkaline phosphatase (ALP) on serum samples were measured using the Cobas e411 analyzer. Nephric functional parameters (urea, uric acid and creatinine) were also measured on serum samples through the Cobas e411 analyzer. Ghrelin and erythropoietin hormone assays were done through the enzyme linked immunosorbent assay. The SPSS comprehension software was used to conduct the statistical analysis and data processing.

Results: Metabolic, hepatic and renal biomarkers, and hormonal values were also important ($P < 0.05$) between the patient group and the control group. The patients had high glucose, triglycerides, cholesterol, liver enzymes (ALT, AST and ALP) and kidney (urea, urate acid, creatinine and potassium) indicators. The patients experienced the reduction of albumin and erythropoietin. There was no significant difference between the total protein, sodium and calcium levels according to the group ($p > 0.05$).

Conclusion: We found that physiological parameters are connected with the presence of renal dysfunction to a large extent. The chronic renal failure affects to a considerable extent the biochemical indicators and blood regulators, that is, the level of erythropoietin and ghrelin. The results indicate a lack of electrolyte, metabolism, and hormone homeostasis, which implies that ghrelin and erythropoietin are the possible diagnostic and treatment etiological variables in the treatment of renal diseases.

Keywords: Renal failure; Erythropoietin; Ghrelin; Biochemical Parameters. **The Keywords should be [Mesh](#)**

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Introduction should clearly state the problem, introduce relevant literature, note any controversies, and present the aim or hypothesis in the last paragraph; insert reference format using Endnote based on **Vancouver** style. **References should be numeric and in parenthesis (1).**

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It should provide a concise and precise description of the experimental results and their interpretation. You can use subheadings in this section too. tables should be inserted at the bottom of the file with a clear title.

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Discuss the results and how they can be interpreted in perspective of previous studies. This section may contain: Statement of principal findings, Strengths and weaknesses of the study, Strengths and weaknesses in relation to other studies, discussing important differences in results and recommendation for future research.

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Acknowledgments

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Financial resources should also be included in Acknowledgments. Full or partial investment and the information associated with the grant received, if applicable, need to be specified.

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Sample II: We would like to extend our appreciation and thanks to all participants, staff, and managers who made this study possible.

Sample III: We are extremely grateful to Dr. Sarah Kahani for her comments and feedback during the study.

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Author's contributions

Please mention the contributor role of each author on this parts: Conceptualization, Methodology, Software, Validation, Formal Analysis, Investigation, Resources, Data Curation, Writing – Original Draft Preparation, Writing – Review & Editing, Visualization, Supervision, Project Administration, and Funding Acquisition.

The example below shows the Author Contributions:

Conceptualization and Supervision: Asghar Farhadi and Ibrahim Hassanpour; Methodology: Elahe Mahdavi; Investigation, Writing – original draft, and Writing – review & editing: All authors; Data collection: ???, ???, and ???; Data analysis: ??? and ???; Funding acquisition and Resources: Ibrahim Hassanpour, Elahe Mahdavi, Sima Kiani, and Reza Noori.

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Sample : The authors equally contributed to preparing this article.

6. References

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