



PEER-REVIEW REPORT

Name of journal: *World Journal of Biological Chemistry*

Manuscript NO: 79460

Title: Serum leptin level in Sudanese women with unexplained infertility and its relationship with some reproductive hormones

Provenance and peer review: Unsolicited manuscript; Externally peer reviewed

Peer-review model: Single blind

Reviewer's code: 03724944

Position: Peer Reviewer

Academic degree: BSc

Professional title: Chief Technician

Reviewer's Country/Territory: Italy

Author's Country/Territory: Nigeria

Manuscript submission date: 2022-08-22

Reviewer chosen by: AI Technique

Reviewer accepted review: 2022-08-25 08:44

Reviewer performed review: 2022-09-07 14:28

Review time: 13 Days and 5 Hours

Scientific quality	<input type="checkbox"/> Grade A: Excellent <input type="checkbox"/> Grade B: Very good <input checked="" type="checkbox"/> Grade C: Good <input type="checkbox"/> Grade D: Fair <input type="checkbox"/> Grade E: Do not publish
Language quality	<input type="checkbox"/> Grade A: Priority publishing <input checked="" type="checkbox"/> Grade B: Minor language polishing <input type="checkbox"/> Grade C: A great deal of language polishing <input type="checkbox"/> Grade D: Rejection
Conclusion	<input type="checkbox"/> Accept (High priority) <input type="checkbox"/> Accept (General priority) <input checked="" type="checkbox"/> Minor revision <input type="checkbox"/> Major revision <input type="checkbox"/> Rejection
Re-review	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No



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Peer-reviewer statements	Peer-Review: <input checked="" type="checkbox"/> Anonymous <input type="checkbox"/> Onymous Conflicts-of-Interest: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
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SPECIFIC COMMENTS TO AUTHORS

Manuscript ID: World Journal of Biological Chemistry 79460 Title: Serum Leptin level in Sudanese Women with Unexplained Infertility and its relationship with some reproductive hormones
Comment for the authors: The article entitled "Serum Leptin level in Sudanese Women with Unexplained Infertility and its relationship with some reproductive hormones" investigated the role of leptin in the regulation of endocrine and reproductive system. The authors analyzed serum levels of leptin and seven other biomarkers in a group of women with unexplained infertility (IU) that was compared to a control group with fertile women. The results showed that there was statistically significant difference between the two groups for leptin level and all the biomarkers. Moreover, the high leptin level was positively or negatively associated with the examined biomarkers. The results confirm the data of previous works carried out in other countries. My concerns are listed below: -The aim of the work must be more detailed, highlighting the relationship of leptin levels with other important biomarkers - indicate in "Materials and Methods" the kits used for ELISA



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Peer-review model: Single blind

Reviewer's code: 03793076

Position: Editorial Board

Academic degree: PhD

Professional title: Assistant Professor, Reader (Associate Professor), Research Assistant Professor

Reviewer's Country/Territory: China

Author's Country/Territory: Nigeria

Manuscript submission date: 2022-08-22

Reviewer chosen by: AI Technique

Reviewer accepted review: 2022-09-08 01:48

Reviewer performed review: 2022-09-18 09:34

Review time: 10 Days and 7 Hours

Scientific quality	<input type="checkbox"/> Grade A: Excellent <input type="checkbox"/> Grade B: Very good <input checked="" type="checkbox"/> Grade C: Good <input type="checkbox"/> Grade D: Fair <input type="checkbox"/> Grade E: Do not publish
Language quality	<input type="checkbox"/> Grade A: Priority publishing <input type="checkbox"/> Grade B: Minor language polishing <input checked="" type="checkbox"/> Grade C: A great deal of language polishing <input type="checkbox"/> Grade D: Rejection
Conclusion	<input type="checkbox"/> Accept (High priority) <input type="checkbox"/> Accept (General priority) <input type="checkbox"/> Minor revision <input checked="" type="checkbox"/> Major revision <input type="checkbox"/> Rejection



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Re-review	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Peer-reviewer statements	Peer-Review: <input checked="" type="checkbox"/> Anonymous <input type="checkbox"/> Onymous Conflicts-of-Interest: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

SPECIFIC COMMENTS TO AUTHORS

Title: serum leptin level in Sudanese women with unexplained infertility and its relationship with some reproductive hormones. The work is interesting and inspiring to the field of unexplained infertility, and conclusion seems to be fully justified. If the authors consider the following mentioned remarks and further improve the manuscript before submitting the final version, I would like to recommend this paper to be published. There are some major points need to be addressed as follows. 1. The language of the manuscript must be improved before re-submission. Although the meaning is by and large clear, many sentences are incorrect. In particular, there are numerous characters presented in a capital form where these characters should be ordinary form. In addition, some interpunctuations are improper. 2. In the introduction section, the description on leptin is tedious and redundant, and not close to the current theme. 3. In table 1, I want to know how the 95% CIs were generated. 4. For the results in figures 1 and 2, full description should be performed.