

PEER-REVIEW REPORT

Name of journal: World Journal of Diabetes

Manuscript NO: 46338

Title: Are serum leptin levels predicted by lipoproteins, vitamin D and body composition?

Reviewer's code: 03352142

Reviewer's country: Iran

Science editor: Ying Dou

Reviewer accepted review: 2019-02-15 11:00

Reviewer performed review: 2019-02-27 21:29

Review time: 12 Days and 10 Hours

SCIENTIFIC QUALITY	LANGUAGE QUALITY	CONCLUSION	PEER-REVIEWER STATEMENTS
<input type="checkbox"/> Grade A: Excellent	<input type="checkbox"/> Grade A: Priority publishing	<input type="checkbox"/> Accept	Peer-Review:
<input type="checkbox"/> Grade B: Very good	<input checked="" type="checkbox"/> Grade B: Minor language	(High priority)	<input checked="" type="checkbox"/> Anonymous
<input type="checkbox"/> Grade C: Good	polishing	<input type="checkbox"/> Accept	<input type="checkbox"/> Onymous
<input checked="" type="checkbox"/> Grade D: Fair	<input type="checkbox"/> Grade C: A great deal of	(General priority)	Peer-reviewer's expertise on the
<input type="checkbox"/> Grade E: Do not	language polishing	<input type="checkbox"/> Minor revision	topic of the manuscript:
publish	<input type="checkbox"/> Grade D: Rejection	<input checked="" type="checkbox"/> Major revision	<input checked="" type="checkbox"/> Advanced
		<input type="checkbox"/> Rejection	<input type="checkbox"/> General
			<input type="checkbox"/> No expertise
			Conflicts-of-Interest:
			<input type="checkbox"/> Yes
			<input checked="" type="checkbox"/> No

SPECIFIC COMMENTS TO AUTHORS

Title should be revised in which from it; the manuscript readers can understand that the leptin is response or dependent variable and other variables are predictor; for example as: "are leptin levels predicted by body composition;: a cross-sectional study" I did



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not find the abstract in the body of manuscript; it should be added. It lacks the keywords In methods section; the process of sample selection should be expressed; the units of measured variables such as BMI should be presented. All analyzed variables in results section should be introduced carefully in methods section beforehand, R software's version should be presented; all statistical test used in data analysis should be presented in statistical analysis section; how about chi-square for categorical data how about the correlation coefficient such as Pearson or spearman for bivariate correlation analyses? How about the normality evaluation of continuous data? How variables have been presented (categorical and continuous data) in results section it should be declared in statistical analysis subsection; how about the non-parametric test for comparing non-normal data between two groups such as Mann-Whitney U test? the following sentences are wrong and does not have right sense! " ANOVA was used to observe the model fit taking value of 0.000 as statistically significant. Multiple regression analysis was done to explore the relative significance of main independent variables in the prediction of intention." And the next sentences too?!! Statistical analysis subsection needs major revisions; collinearity by which statistical test or index was evaluated? The process of model fitting should be revised and redone for regression analysis as follows : first those variables that have significant association with leptin in univariate analysis at $p < 0.2$ should be entered in multivariable analysis. highly significant is not a correct scientific term! Results: the categories of BMI are as (underweight; normal; over, obese); the p-values should be footnoted at the below tables that which statistical tests are based. Which regression coefficient was used in table 2, it should be introduced in statistical analysis subsection, the process of regression modeling according to my above comments should be reconsidered and those predictors that are significant in univariate or have $p < 0.2$ should be entered in multivariable; the regression coefficients should be interpreted more carful and correctly they needs major revisions; the regression



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coefficient for BMR is 0??!!the presented results for gender is not significant the confidence interval contain zero?!!! Collinearity diagnostic criterial in table 3 are not needed; although I see some indication of it VIF>5! Ethical approval and study project number should be presented;

INITIAL REVIEW OF THE MANUSCRIPT

Google Search:

- ☐ The same title
- ☐ Duplicate publication
- ☐ Plagiarism
- ☐ No

BPG Search:

- ☐ The same title
- ☐ Duplicate publication
- ☐ Plagiarism
- ☐ No

PEER-REVIEW REPORT

Name of journal: World Journal of Diabetes

Manuscript NO: 46338

Title: Are serum leptin levels predicted by lipoproteins, vitamin D and body composition?

Reviewer's code: 02465209

Reviewer's country: United States

Science editor: Ying Dou

Reviewer accepted review: 2019-03-04 15:39

Reviewer performed review: 2019-03-04 15:45

Review time: 1 Hour

SCIENTIFIC QUALITY	LANGUAGE QUALITY	CONCLUSION	PEER-REVIEWER STATEMENTS
<input type="checkbox"/> Grade A: Excellent	<input checked="" type="checkbox"/> Grade A: Priority publishing	<input checked="" type="checkbox"/> Accept	Peer-Review:
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			<input type="checkbox"/> No expertise
			Conflicts-of-Interest:
			<input type="checkbox"/> Yes
			<input checked="" type="checkbox"/> No

SPECIFIC COMMENTS TO AUTHORS

Well written and does add some to the available literature.

INITIAL REVIEW OF THE MANUSCRIPT



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