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Ⓜ Manuscript

04 Aug 2022 03:31 PM (GMT) ↰ ⋮

Dear Trias Mahmudiono,

Psychology Production Office has sent you a message. Please click 'Reply' to send a direct response

Congratulations on the publication of your article: The Relationship between Big Five Personality Traits, Eating Habits, Physical Activity, and Obesity in Indonesia Based on Analysis of the 5th Wave Indonesia Family Life Survey (2014), by Trias Mahmudiono, Greena Pristyna, Mahmud Aditya Rifqi, Diah Indriani, published in Frontiers in Psychology, section Eating Behavior.

To view the online publication, please click here:

http://journal.frontiersin.org/article/10.3389/fpsyg.2022.881436/full?
&utm_source=Email_to_authors_&utm_medium=Email&utm_content=T1_11.5e1_author&utm_campaign=

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✓ 1. Initial Validation
✓ 2. Editorial Assignment
✓ 3.
✓ 6. Final Validation
✓ 7. Final Decision
✓ 4. Interactive Review

The Relationship between Big Five Personality Traits, Eating Habits, Physical Activity, and Obesity in Indonesia Based on Analysis of the 5th Wave Indonesia Family Life Survey (2014)

Trias Mahmudiono* , Greena Pristyna, Mahmud Aditya Rifqi and Diah Indriani

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Your manuscript has been accepted for publication.

History	Editor Active	Reviewer 1 Finalized	Reviewer 3 Withdrawn	Reviewer 4 Finalized	▪A▪I▪R▪A▪

Date	Updates
30 Jun 2022	Article accepted for publication.
27 Jun 2022	Review of Review Editor 4 finalized.
	Corresponding Author Trias Mahmudiono re-submitted manuscript.
08 Jun 2022	Corresponding Author Trias Mahmudiono re-submitted manuscript.
	Editorial Office reminded you to respond to reviewer 3 and/or resubmit your manuscript in the discussion forum.
25 May 2022	Editorial Office reminded you to respond to reviewer 3 and/or resubmit your manuscript in the discussion forum.
09 May 2022	Guest Associate Editor Fanchang Kong posted new comments in the Editor tab.
04 May 2022	Interactive review forum activated automatically.
04 Mar 2022	Review of Reviewer 1 is finalized.
22 Feb 2022	Corresponding Author Trias Mahmudiono submitted manuscript.

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| History | Editor **Active** | **Reviewer 1** **Finalized** | Reviewer 3 **Withdrawn** | Reviewer 4 **Finalized** | ▪A▪I▪R▪A▪ |

Reviewer 1
Independent review report submitted: 04 Mar 2022

Initial recommendation to the Editor: Revision is required

▼ EVALUATION

Q 1 ▸ Please list your revision requests for the authors and provide your detailed comments, including highlighting limitations and strengths of the study and evaluating the validity of the methods, results, and data interpretation. If you have additional comments based on Q2 and Q3 you can add them as well.

👤 **Reviewer 1** | 04 Mar 2022 | 07:42   #1

Comments

1. There may be selection issues regarding the survey data. Was the nonresponse to the survey random? If employees with worst health (high BMI) are least likely to respond to the survey, the estimates may be biased, at least to some degree. This issue should be noted in the revised version of the paper.
2. Does self-reported information on weight contain systematic measurement error? Does this have implications for the interpretation of the estimates that are presented in the paper?
3. It is widely known that BMI is not a perfect measure of obesity. The problem is that BMI does not distinct between fat and fat-free mass such as muscle and bone. For this reason, BMI is not considered to be a sufficient predictor of obesity-related health outcomes in the medical literature. There are earlier empirical studies that have used fat mass in economic research on obesity (https://doi.org/10.1016/j.ehb.2009.01.008). The authors should note this and discuss briefly about the alternative measures for BMI.
4. The effects may be non-linear.
5. Are all controls/covariates predetermined or not?
6. Is it possible to state more about the possible mechanisms at play?
7. The relationships can be significantly different for males vs. females or vary by age group.
8. The paper does not report causal effects.
9. What is the external validity of the results that are presented in the paper?
10. The concluding section could discuss more about the practical lessons that stem from the estimation results that are presented in the paper.

Q 2 ▸ Check List

👤 **Reviewer 1** | 04 Mar 2022 | 07:42   #1

a. Is the quality of the figures and tables satisfactory?
- Yes

b. Does the reference list cover the relevant literature adequately and in an unbiased manner?
- No

c. Are the statistical methods valid and correctly applied? (e.g. sample size, choice of test)
- Yes

d. Is a statistician required to evaluate this study?
- No

e. Are the methods sufficiently documented to allow replication studies?
- Yes

▼ QUALITY ASSESSMENT

Q 3 ▸ Rigor

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✓ 1. Initial Validation   ✓ 2. Editorial Assignment   ✓3. ✓ 6. Final Validation   ✓ 7. Final Decision   ✓ 4. Interactive Review

The Relationship between Big Five Personality Traits, Eating Habits, Physical Activity, and Obesity in Indonesia Based on Analysis of the 5th Wave Indonesia Family Life Survey (2014)

Trias Mahmudiono* , Greena Pristyna, Mahmud Aditya Rifqi and Diah Indriani

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| History | Editor
Active | Reviewer 1
Finalized | **Reviewer 3**
Withdrawn | Reviewer 4
Finalized | ▪A▪I▪R▪A▪ |

Reviewer 3
Independent review report submitted: 01 May 2022
Interactive review activated: 04 May 2022

Initial recommendation to the Editor: Substantial revision is required

▼ EVALUATION

Q 1 ▶ **Please list your revision requests for the authors and provide your detailed comments, including highlighting limitations and strengths of the study and evaluating the validity of the methods, results, and data interpretation. If you have additional comments based on Q2 and Q3 you can add them as well.**

👤 **Reviewer 3** | 01 May 2022 | 00:03   #1

The present manuscript (ms.) Is well written. In addition, it focuses on a topical research of high social relevance and the for ublic health psychology in a sample of Indonesian population.
However, it presents several important limitations which do not allow you to accept this MS in their current versión. These limitation suppose important major changes with respect to the current version of this manuscript (ms.):
Abstract
Indicate percentage thi size of sample, the males or females, age range, medium and SD, and the country of origin of this sample (i.e., Indonesia).
Indicates the type of sampling conducted in this study.
Indicate what measures or instruments were administered in this study.
Authors should specify the type of logistic regression conducted in this ms.

INTRODUCTION
This section is excessively long. Furthermore, bearing in mind, the important cross-cultural differences across East and West respect to variables analyzed in the present study, the authors must accurately describe all the studies previously published in Indonesia related to this research topic, indicating for each study, previously published in this country, the sample size, percentage of men or women, range and mean age, as well such as the evaluation or measurement attending to instruments administered, and the type of statistical analysis conducted in previous studies.
Just like that, the authors of this ms. they will be able to provide robust reasons and justifications that support the novelty, improvement and scientific advancement of this MS. In addition, this matter will allow the establishment and formulation with greater scientific rigor of the specific objectives and initial hypotheses, which, of course, cannot be supported by the results of this study, but rather by the previous empirical evidence founded using samples in Indonesia population. Furthermore, these hypotheses should be robustly accepted or rejected in the Discussion section.
Therefore, the authors should strive to highlight the novelty, improvement or scientific advance regarding the previously published empirical evidence using Indonesian samples.
The authors include a subsection titled "TARGET POPULATION AND SAMPLE." This is not possible, please.
Authors should include a subsection titled PARTICIPANTS and, another titled PROCEDURE.
PARTICIPANTS
The description of the sample recruited in this ms. it is TOTALLY FAILED.
Authors should indicate the exact type of sampling conducted in this ms. and, of course, accurately describe it.
The authors must attend to my comments regarding the ABSTRACT of this research.
MEASURES
This subsection is ambiguous, imprecise, and not very rigorous. why?
The authors should indicate for each instrument or measure used in this study whether it is an ad hoc instrument, comes from a translation and adaptation previously published in Indonesia, or has been developed ad hoc for this study.
The measurement and evaluation of the variables analyzed in this study absolutely lack psychometric rigor. They are not reliable and valid.
The authors of this ms applied. the counterbalancing technique to avoid response bias according to the order of administration of the instruments? NOT.

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ALL THE QUESTIONS I RAISE MUST BE ANSWERED AND INCLUDED, OF COURSE, IN this ms.

RESULTS

The authors state that the present study was conducted using logistic regression. First of all, what type and why was that type of logistic regression used? Second, the results of the logistic regression are not correctly presented (Results section) and, of course, they are not correctly interpreted.

The authors must justify the type of logistic regression conducted in this study and justify this issue robustly. Authors should consult some of the following papers (there are more):

Lemeshow, S., Sturdivant, R. X., & Hosmer Jr, D. W. (2013). Applied logistic regression. John Wiley & Sons.

Lombardo, L., & Mai, P. M. (2018). Presenting logistic regression-based landslide susceptibility results. Engineering geology, 244, 14-24.

Peng, C. Y. J., So, T. S. H., Stage, F. K., & St John, E. P. (2002). The use and interpretation of logistic regression in higher education journals: 1988-1999. Research in higher education, 43(3), 259-293.

Popescul, A., & Ungar, L. H. (2003). Structural logistic regression for link analysis. Departmental Papers (CIS), 133.

Hosmer Jr, D. W., Lemeshow, S., & Sturdivant, R. X. (2013). Applied logistic regression (Vol. 398). John Wiley & Sons.

Menard, S. (2010). Logistic regression: From introductory to advanced concepts and applications. Sage.

Akinci, S., Kaynak, E., Atilgan, E., & Aksoy, Ş. (2007). Where does the logistic regression analysis stand in marketing literature? A comparison of the market positioning of prominent marketing journals. European Journal of Marketing.

DISCUSSION

This section could improve substantially:

Accepting or rejecting the initial hypotheses robustly, supported by the previous empirical evidence found in Nigerian adolescents.

Emphasizing the practical implications of the results found in this study for teachers, psychologists (health psychologist, school psychologist, clinical psychologist, etc.)

👤 **Corresponding Author**: Trias Mahmudiono | 08 Jun 2022 | 20:30   #2

Thank you for your comments and suggestions.

The present manuscript (ms.) Is well written. In addition, it focuses on a topical research of high social relevance and the for ublic health psychology in a sample of Indonesian population.

However, it presents several important limitations which do not allow you to accept this MS in their current versión. These limitation suppose important major changes with respect to the current version of this manuscript (ms.):

ABSTRACT

Indicate percentage thi size of sample, the males or females, age range, medium and SD, and the country of origin of this sample (i.e., Indonesia).

Indicates the type of sampling conducted in this study.

Indicate what measures or instruments were administered in this study.

Authors should specify the type of logistic regression conducted in this ms.

Response: We have written binary logistic regression in the abstract line 18-19.

Thank you for your suggestion. We have added it to the revised manuscript. (Revised on page 1, line 13-18)

INTRODUCTION

This section is excessively long. Furthermore, bearing in mind, the important cross-cultural differences across East and West respect to variables analyzed in the present study, the authors must accurately describe all the studies previously published in Indonesia related to this research topic, indicating for each study, previously published in this country, the sample size, percentage of men or women, range and mean age, as well such as the evaluation or measurement attending to instruments administered, and the type of statistical analysis conducted in previous studies.

Just like that, the authors of this ms. they will be able to provide robust reasons and justifications that support the novelty, improvement and scientific advancement of this MS. In addition, this matter will allow the establishment and formulation with greater scientific rigor of the specific objectives and initial hypotheses, which, of course, cannot be supported by the results of this study, but rather by the previous empirical evidence founded using samples in Indonesia population. Furthermore, these hypotheses should be robustly accepted or rejected in the Discussion section.

Therefore, the authors should strive to highlight the novelty, improvement or scientific advance regarding the previously published empirical evidence using Indonesian samples.

Response:

Thank you for your suggestion, we have added it to the revised manuscript. (Revised on page 1-3)

The authors include a subsection titled "TARGET POPULATION AND SAMPLE." This is not possible, please.

Authors should include a subsection titled PARTICIPANTS and, another titled PROCEDURE.

Authors should indicate the exact type of sampling conducted in this ms. and, of course, accurately describe it.

The authors must attend to my comments regarding the ABSTRACT of this research.

MEASURES

This subsection is ambiguous, imprecise, and not very rigorous. why?

The authors should indicate for each instrument or measure used in this study whether it is an ad hoc instrument, comes from a translation and adaptation previously published in Indonesia, or has been developed ad hoc for this study.

The measurement and evaluation of the variables analyzed in this study absolutely lack psychometric rigor. They are not reliable and valid.

The authors of this ms applied. the counterbalancing technique to avoid response bias according to the order of administration of the instruments? NOT.

I am really surprised by the lack of scientific rigor regarding the establishment of cut-off points presented by the authors of this ms. : Who and how were these cut-off points established for each of the variables analyzed? EVERYTHING IS LACK OF SCIENTIFIC RIGOR. ALL THE QUESTIONS I RAISE MUST BE ANSWERED AND INCLUDED, OF COURSE, IN this ms.

Response: Thank you for your suggestion, we have added it to the revised manuscript. (Revised on page 3-6)

RESULTS

The authors state that the present study was conducted using logistic regression. First of all, what type and why was that type of logistic regression used? Second, the results of the logistic regression are not correctly presented (Results section) and, of course, they are not correctly interpreted.

The authors must justify the type of logistic regression conducted in this study and justify this issue robustly. Authors should consult some of the following papers (there are more):

Lemeshow, S., Sturdivant, R. X., & Hosmer Jr, D. W. (2013). Applied logistic regression. John Wiley & Sons.

Lombardo, L., & Mai, P. M. (2018). Presenting logistic regression-based landslide susceptibility results. Engineering geology, 244, 14-24.

Peng, C. Y. J., So, T. S. H., Stage, F. K., & St John, E. P. (2002). The use and interpretation of logistic regression in higher education journals: 1988-1999. Research in higher education, 43(3), 259-293.

Popescul, A., & Ungar, L. H. (2003). Structural logistic regression for link analysis. Departmental Papers (CIS), 133.

Hosmer Jr, D. W., Lemeshow, S., & Sturdivant, R. X. (2013). Applied logistic regression (Vol. 398). John Wiley & Sons.

Menard, S. (2010). Logistic regression: From introductory to advanced concepts and applications. Sage.

Akinci, S., Kaynak, E., Atilgan, E., & Aksoy, Ş. (2007). Where does the logistic regression analysis stand in marketing literature? A comparison of the market positioning of prominent marketing journals. European Journal of Marketing.

Response: We have written binary logistic regression in the data analysis and below the regression result tables (page 5, 12, 13).

Thank you for your suggestion, we have added the test we used and why to the results section and revised our tables in the revised manuscript and supplementary file. (Revised on page 8 line 247-250; table 9-10 on page 10-12 in the revised manuscript; table 4-8 on page 4-29 in the supplementary files)

DISCUSSION

This section could improve substantially:

Accepting or rejecting the initial hypotheses robustly, supported by the previous empirical evidence found in Nigerian adolescents.

Emphasizing the practical implications of the results found in this study for teachers, psychologists (health psychologist, school psychologist, clinical psychologist, etc.)

Response:

Thank you for your suggestion, we have added it to the revised manuscript. (Revised on line 416-419, 440, 469-472, 746-751)

Review supporting file - 321261

Q 2 ▶ Check List

👤 **Reviewer 3** | 01 May 2022 | 00:03   #1

a. Is the quality of the figures and tables satisfactory?
- No

b. Does the reference list cover the relevant literature adequately and in an unbiased

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The Relationship between Big Five Personality Traits, Physical Activity, and Obesity in Indonesia Based on Analysis of the 5th Wave Indonesia Family Life Survey (2014)

Trias Mahmudiono* , Greena Pristyna, Mahmud Aditya Rifqi and Diah Indriani

Original Research, Front. Psychol. - Eating Behavior
Received on: 22 Feb 2022, Edited by: Fanchang Kong ✉
Manuscript ID: 881436
Research Topic: Methods and Applications in Eating Behavior
Keywords: Big Five Personality Traits, physical activity, Obesity, Body Mass Index, Indonesia, Eating Habits

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| History | Editor Active | Reviewer 1 Finalized | Reviewer 3 Withdrawn | Reviewer 4 Finalized | ▪A▪|▪R▪A▪ |

Reviewer 4
Interactive review activated: 04 May 2022
Independent review report submitted: 19 Jun 2022
Review finalized: 27 Jun 2022

Initial recommendation to the Editor: Revision is required

▼ EVALUATION

Q 1 ▶ Please list your revision requests for the authors and provide your detailed comments, including highlighting limitations and strengths of the study and evaluating the validity of the methods, results, and data interpretation. If you have additional comments based on Q2 and Q3 you can add them as well.

👤 **Reviewer 4** | 19 Jun 2022 | 20:03   #1

Thank you for the opportunity to review the manuscript titled:
The relationship between Big Five personality traits, eating habits, physical activity, and obesity in Indonesia based on analysis of the 5th wave Indonesia family life survey

The Authors examine relationship between Big Five Personality Traits and nutrition-related variables.

They present in their article well-designed studies.

It is an interesting article with a good design that aims to present the contemporary issues of personality determinants of nutrition - theme which is very important in practice of clinical psychology and health public or psychoprophylaxis.
Therefore, this article has an important application context for the conducted analyses.
Therefore it is important an in-depth analysis of the practical side of the obtained research results.
Notation in Conclusion (line 746-751) in my opinion is not sufficient for such an impressive study with an important social and cultural dimension.
I am asking the authors to complete this part of the article.

The article has been correctly divided into parts as required by the journal.

It has been correctly written and has appropriately selected literature.

The introduction and demonstration of the research problem and methodology are sufficient, the findings and the discussion clear and accurate.

The literature consulted is quite current and the sample is quite large (which is a strength for this work)
Therefore, the manuscript brings significant knowledge of the scientific literature so and still covers existing gaps in the field.

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Overall, the writing is clear, the goals are well described, the introduction explain the objectives of the study based on review of contemporary literature.

The English language used by the authors in the article is of appropriate quality and the stylistic correction is recommended at the final stage of editing the final text.

The number and quality of tables in the article is satisfactory.

The statistical methods are correct and correctly applied in the research and deliver valid results.

The methods are sufficiently documented to allow replication of the studies.

The study complies with ethical standards.

The review of literature and the conclusions are properly made and presented.

Finally, In my opinion, it can be published in the current form in the journal – exept Conclusions.
Please complete the entry in Conclusions.

I wish the Authors the best in continuing this line of research.
Best wishes for Authors.

Corresponding Author: Trias Mahmudiono | 27 Jun 2022 | 17:39   #2

Thank you for your comments and suggestions.

We have revised the conclusion in the revised manuscript. (Revised on line 778-789)

Review supporting file - 332334

Q 2 **Check List**

Reviewer 4 | 19 Jun 2022 | 20:03   #1

a. Is the quality of the figures and tables satisfactory?
- Yes

b. Does the reference list cover the relevant literature adequately and in an unbiased manner?
- Yes

c. Are the statistical methods valid and correctly applied? (e.g. sample size, choice of test)
- Yes

d. Is a statistician required to evaluate this study?
- Yes

e. Are the methods sufficiently documented to allow replication studies?
- Yes

▼ QUALITY ASSESSMENT

Q 3 **Rigor**

Q 4 **Quality of the writing**

Q 5 **Overall quality of the content**

Q 6 **Interest to a general audience**

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