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OPEN PEER REVIEW

One-decade transition of cardiovascular risk factors in south of IRAN (A population based two repeated cross sectional study)

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About this report

This open peer review (OPR) report shows the public comments made on this article during peer review, by the reviewers, the associate editor and the editor-in-chief, for every revision round, together with the authors' replies. Comments appear only with the consent of the people who wrote them. Reviewers who chose to sign their report are named; the others are shown as "Referee". Comments are edited for language only, and confidential remarks to the editors are not included.

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1 Original submission

3 comments · 26 Dec 2021 – 26 Dec 2021

Referee 1 Reviewer

MAJOR REVISION 26 Dec 2021

Title: One-decade transition of cardiovascular risk factors in south of IRAN (A population based two repeated cross sectional study)

This study examined a one-decade transition of cardiovascular risk factors in the south of Iran using two repeated population-based cross-sectional studies. The title of this study is interesting, and the study used a relatively new design. However, I have some feedback points that I will address below.

 Abstract

 I suggest adding frequencies next to the percentages in the results section of the abstract.

 Please select keywords based on MeSH.

 Introduction

 It is suggested that the manuscript be revised for writing and spelling to make the content easier to understand.

 The following sentence in the introduction needs to be edited, as it seems incomprehensible.

" Also CVDs is a major health challenge in any country's health system, as not only are cardiovascular events more common, but CVDs mortality is higher in cardiovascular patients".

 It is suggested that new references be used in the introduction.

 Please spell out acronyms at first use, for example, ACC / AHA 2019 guideline.

 I suggest adding studies in the introduction that have examined the epidemiological transition of CVDs.

 The last paragraph of the introduction states "Despite numerous community-based plans". Do you mean the programs implemented in Iran and Fars province? Is there a plan to reduce the levels of risk factors for CVDs in this area, such that we would expect these levels to change?

 Materials and Methods

 It is recommended that the methods section be rewritten using subsections. Subsections describing samples, variables, outcomes, or statistical analyses would improve readers' understanding of the content.

 What was your approach to patients with Pre-hypertension? Did you place them in a separate class? Or did you classify them as having normal blood pressure according to the classification mentioned?

 Because some of your variables are quantitative, other statistical methods need to be used. Please add these tests to the section on statistical methods and data analysis.

 Results

 It is suggested that the statistical test used be mentioned below the tables.

 It is suggested that the differences between men and women in each year and between age groups in each year be statistically analyzed and the corresponding P-values be reported.

 Discussion

 In the following sentence, you stated that BMI in your study was slightly high. By what criteria do you consider it high? "In this study, the mean of BMI as a risk factor was slightly high"

 It is suggested that you explain in the discussion section why BMI was higher in females than in males.

 It is suggested that you explain in the discussion section why blood pressure is higher in men than in women.

 It is recommended that you add the strengths and weaknesses of your study, as well as suggestions for future studies, to the end of the discussion.

Dear Editor,
Considering the positive points of the present manuscript, such as the large sample size of the study, the population-based study design, and the study of the epidemiological transition of CVDs, which will be important for future policies, it is suggested that the study undergo a major revision. After reviewing the changes, I will give you my final opinion. Thank you very much for your trust.

Associate Editor MAJOR REVISION 26 Dec 2021

Major revision

Editor-in-Chief MAJOR REVISION 26 Dec 2021

Please make the revisions based on the comments.

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Revision 1

AUTHORS' RESPONSE TO REVIEWERS

Authors' reply to reviewers

The next pages contain the authors' point-by-point reply to the comments of this revision round, as submitted with the revised manuscript. It is published as the authors wrote it.

Dear editors and reviewers Thanks for reaching out to us regarding the manuscript entitled " **A Decade of Epidemiological Transition of Cardiovascular Risk Factors in South of Iran** ". We believe that these comments have helped us enhance the quality of the manuscript. We also have done our best to revise as well as improve the paper according to the comments. Herewith, we provided the authors' response to each comment right after each statement. Also, all the changes have been highlighted in the manuscript.

Reviewers' Comments:

Reviewer 1:
Abstract:
Please remove the word behavioral in method section.

R: We removed the word behavioral

Please add the sampling method.

R: Our study was designed based on gathering data from a large study. Sampling of this study was random cluster sampling which added in method section.

Add the fars province in objective.

R: We added it .

Main body.
Please add the word iran in method section

R: We add it.

Add the sampling method and statistical method

R: We add the sampling method . Our study was designed based on gathering data from a large study. Sampling of this study was random cluster sampling which added in method section.

Results should be revised. R: Results were revised.
Did you use the aggregated data? Yes
was your study based on data collected? Yes

Reviewer 2:

Title: One-decade transition of cardiovascular risk factors in south of IRAN (A population based two repeated cross sectional study)
This study was performed by examining a one-decade transition of cardiovascular risk factors in the south of IRAN by population based on two repeated cross-sectional studies. The title of this study is interesting, while it has been done with a relatively new study design. However, I have some feedback points that I will address below.

ϖ Abstract
♣ I suggest adding frequency in the abstract section of the results next to the percentages.

R: according to valuable reviewer's comment, we added the numbers.

♣ Please select keywords based on Mesh.

R: We check it .

ϖ Introduction
♣ It is suggested that the manuscript be modified in order to better understand the content, in terms of writing and spelling.

R: We rechecked the manuscript in terms of writing and spelling and highlighted by yellow color

♣ The following sentence needs to be edited in the introduction, it seems incomprehensible.
" Also CVDs is a major health challenge in any country's health system, as not only are cardiovascular events more common, but CVDs mortality is higher in cardiovascular patients".

♣ It is suggested to use new references in the introduction.

R: We added some new reference .

♣ Please explain acronyms in full for the first time, for example, ACC / AHA 2019 guideline.

R: We corrected it .

♣ I suggest adding studies in the introduction that have examined the epidemiological transition of CVDs.

R: We added some studies about epidemiological transition of CVDs

♣ The last paragraph of the introduction states "Despite numerous community-based plans". Do you mean the programs implemented in Iran and Fars province? Yes

Is there a plan to reduce the level of risk factors for CVDs in this area that we are waiting for the level of these risk factors to change? YES .

ত Materials and Methods

♣ It is recommended to rewrite the method section using subgroups. The existence of subgroups such as descriptions of samples, variables, outcomes, or statistical analyzes improves the understanding of the content for the readers.

R: We rewrite the method section in some subheading .

♣ What was your approach to Pre-hypertension patients? Have you put them as a separate class? Or did you consider them according to the mentioned classification as normal blood pressure?

R : In this study just the prevalence of the hypertension was considered so the Pre-hypertension patients added in normal group .

♣ Due to the fact that some of your variables are quantitative, other statistical methods need to be used. Please add these tests in the section on statistical methods and data analysis.

R: Thanks. Independent sample t test was used.

ত Results

♣ It is suggested to mention the statistical test below used tables.

R: the name of statistical test was added below the tables.

♣ It is suggested that the statistical difference between men and women in each year and age groups in each year be statistically analyzed and the corresponding P.value be reported.

Response: The size of this study is already larger than usual, and if these analyses were also performed, the study would become very large and exceed the usual length; therefore, subgroup analysis was omitted in this study and this part was left to another study.

ত Discussion

♣ In the following sentence, you stated BMI in your study is slightly high, by what criteria do you consider it high? "In this study, the mean of BMI as a risk factor was slightly high".

Response: Since a body mass index above 25 is considered overweight and a warning sign for cardiovascular diseases, and since the mean of this index was above 25 in most age and sex groups, this sentence was written in this way.

It is suggested to explain in the discussion section why BMI was higher in females than males?

R: One paragraph was added.

♣ It is suggested to explain in the discussion section why blood pressure is higher in men than women?

R: One paragraph was added

♣ It is recommended to add the strengths and weaknesses of your study as well as suggestions for future studies to the end of the discussion.

R: One paragraph was added

[Translated from Persian by the Brieflands editorial office.]

2 Revision 1

1 comment · 6 Feb 2022

Editor-in-Chief

ACCEPT 6 Feb 2022

accept