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OPEN PEER REVIEW

A Comparison of Demirjian and Cameriere Methods in Estimating Age and Development of a Modified Cameriere Method

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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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Contents

1 **Original submission** Referee 1, Associate Editor 2
2 **Revision 1** Maryam Paknahad, Associate Editor 3
Authors' reply to reviewers 4
Reviewer and editor comments 6

1 Original submission

2 comments · 3 Aug 2021 – 30 Aug 2021

Referee 1 Reviewer

MAJOR REVISION 3 Aug 2021

In the manuscript, the authors compare the Cameriere and Demirjian methods for estimating chronological age in an Iranian population and present a modification of the Cameriere method for this target population.
This paper seems to need some revisions:
How did the authors measure the magnification of the radiographs?
The authors should provide figures for dental age estimation using both methods.

Associate Editor

MAJOR REVISION 30 Aug 2021

1. Please follow the author guidelines.
2. Tables: please place them in the order in which they are cited in the manuscript.

2

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.

September 11, 2021

Dear Dr. Kamran Bagheri Lankarani

Editor in Chief of Shiraz E-Medical Journal

We greatly appreciate the reviewers and editors for their helpful comments and suggestions. We have carried out the comments that the reviewers suggested and revised the manuscript accordingly (it is highlighted in yellow). We hope that you find our responses satisfactory.

The followings are our point-by-point responses:

Reviewer 1:

1. Include time and location of the study in the abstract and methods.

Answer: The time and location of the study were included in abstract and methods.

2. MedCalc is true.

Answer: It was corrected.

3. Where is Table 1?

Answer: Tables' number were corrected.

4. In the current format, there are 2 Table 2!

Answer: Tables' number were corrected.

5. Remove Figure 2.

Answer: Figure 2 was removed based on the reviewer comment.

6. The proposed modified Cameriere index is data dependent. You must examine accuracy of proposed index on a new data set (test data) instead of train dataset.

Answer: In traditional models such as regression models, often after fitting the model with the data, the same data is used again for prediction and the model evaluation; while in classic models such as machine learning, the data from the training section are used for learning only, and used model fitting will not be used for forecasting, and the data that never encountered will be used to evaluate new model, which is called cross-validation. The goal of the researchers in this study

was not cross-validation; like the similar studies such as reference No. 20.

7. Report ICC for all the methods.

Answer: It was added.

Reviewer 2:

The authors in the manuscript compare Cameriere and Demirjian methods in estimating chronological age in an Iranian population and modification of the Cameriere method for this target population.

This paper seems to need some revisions:

How did the authors measure the magnification of the radiographs?

Answer: As it described in radiographic evaluation section, Demirjian method is based on calcification and is not magnification dependent. In Cameriere method, dental age is calculated by dividing the inner sides of the apex on tooth length, as a result radiographic magnification has no effect on measurements.

The authors should provide figures for the dental age estimation in both methods.

Answer: Two figures were added to manuscript which describe each methods measurement and calculation (Figure 1 and Figure 2).

Associate Editor's Comments:

Associate Editor 1:

1. Please follow the author guide line.

2. Tables: please place according to the sequence of citing them in the manuscript.

2 Revision 1

2 comments · 26 Oct 2021 – 16 Nov 2021

Maryam Paknahad Reviewer

ACCEPT 26 Oct 2021

The article has been revised in response to the comments.

Associate Editor

ACCEPT 16 Nov 2021

Accept