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OPEN PEER REVIEW

Accuracy of Ultrasonography in Fetal Gender Determination in 11 to 14 Week of Gestational Age

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SUBMITTED	REVISED	ACCEPTED	DOI
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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

0 comments

No public comments in this round.

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.

think this article with title “Accuracy of ultrasonograghy in fetal gender determination in 11 to 14 week of gestational age;” well written. I suggest accepting this paper after minor :revision for improving paper as follow

1. It's better to use the term “Gender Determination” for keywords instead of gender. Ok
2. Please state the aim of this study at the end of introduction after mentioning the previous studies. Ok
3. Please use the table to express the results. It will be pleasant for the reader. Reading all the results in the text is boring.

Table 1. Sensitivity, specificity, positive and negative predictive value of ultrasonography

Overall Accuracy	Negative predictive value	Positive predictive value	Specificity	Sensitivity	
95.15%	91.3%	99.1%	99.05%	91.73%	Boy ultrasonography
95.15%	99.1%	91.3%	91.73%	99.05%	Girl ultrasonography
85.71%	78.26%	94.73%	94.73%	78.26%	Boy ultrasonography 11-12
85.71%	94.73%	78.26%	78.26%	94.73%	Girl ultrasonography 11-12
95.04%	89.79%	100%	100%	91.22%	Boy ultrasonography 12-13
95.04%	100%	89.79%	91.22%	100%	Girl ultrasonography 12-13
100%	100%	100%	100%	100%	Boy ultrasonography 13-14
% 100	% 100	% 100	% 100	% 100	Girl

					ultrasonography 13-14

Table 2. Sensitivity, specificity, positive and negative predictive value of ultrasonography in women with BMI

Overall Accuracy	Negative predictive value	Positive predictive value	Specificity	Sensitivity	
93.75%	87.5%	100%	100%	88.88%	Boy ultrasonography less than 18
93.75%	100%	87.5%	88.88%	100%%	Girl ultrasonography less than 18
99.35%	98.78%	100%	100%	98.64%	Boy ultrasonography 18-25
99.35%	100%	98.78%	98.64%	100%	Girl ultrasonography 18-25
87.5%	73.68%	96.55%	93.3%	84.84%	Boy ultrasonography 25-30
87.5%	96.55%	73.68%	84.84%	93.3%	Girl ultrasonography 25-30
62.5%	50%	100%	100%	40%	Boy ultrasonography more than 30
62.5%	100%	50%	40%	100%	Girl ultrasonography more than 30

It would be better if you put an ultrasound images for both .4 .gender. Explain how to recognize male and female


Dr. R. Behzadmehr
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:Reviewer 3
Concerning the manuscript entitled “Accuracy of ultrasonograghy in fetal gender determination in 11 to 14 .week of gestational ages" for Gene, Cell and Tissue Journal

:Final evaluation
With respect to the authors, the article is recommended to reject or accept after major revision. Rewriting or more .research could improve the study

Authors concluded that ultrasonography at the weeks of 11 .1 .to 14 has high sensitivity and specificity in detecting genders As Whitlow et al. (1999) and Efrat et al. (1999) previously reported the possible gender identification between 11 and 14 weeks, what is the novelty of the present manuscript? These results were first in zabol

Authors mentioned detection of the vulva, clitoris, and labia .2

to represent females and observing scrotum, testicles and penis to allocate males fetuses. Authors should be recalled plunging into embryology books as well as A Color Atlas of Life before Birth by Marjorie England. According to them, genitalia looks the same for both genders until the 11th week and phallus until this time does not differentiate enough to detect as male or female external genital organs. Ok

3. It is indicated that early gender identification requires a great deal of experience from the operator. Therefore, the results of the study could be affected by this item and not reliable enough. A study by another operator could result in different findings. Ok

4. English editing is highly recommended.

2 Revision 1

3 comments · 6 Oct 2019 – 14 Oct 2019

Referee 1 Reviewer

ACCEPT 6 Oct 2019

Dear editor,
I think it's ready for publication.

Associate Editor

MINOR REVISION 14 Oct 2019

Based on the reviewers' comments and my reading, this manuscript needs minor revision and a precise point-by-point reply to the comments.

Editor-in-Chief

MINOR REVISION 14 Oct 2019

Based on the reviewers' and AE's comments, this manuscript needs minor revision and a precise point-by-point reply to the comments.

3

Revision 2

AUTHORS' RESPONSE TO REVIEWERS

Authors' reply to reviewers

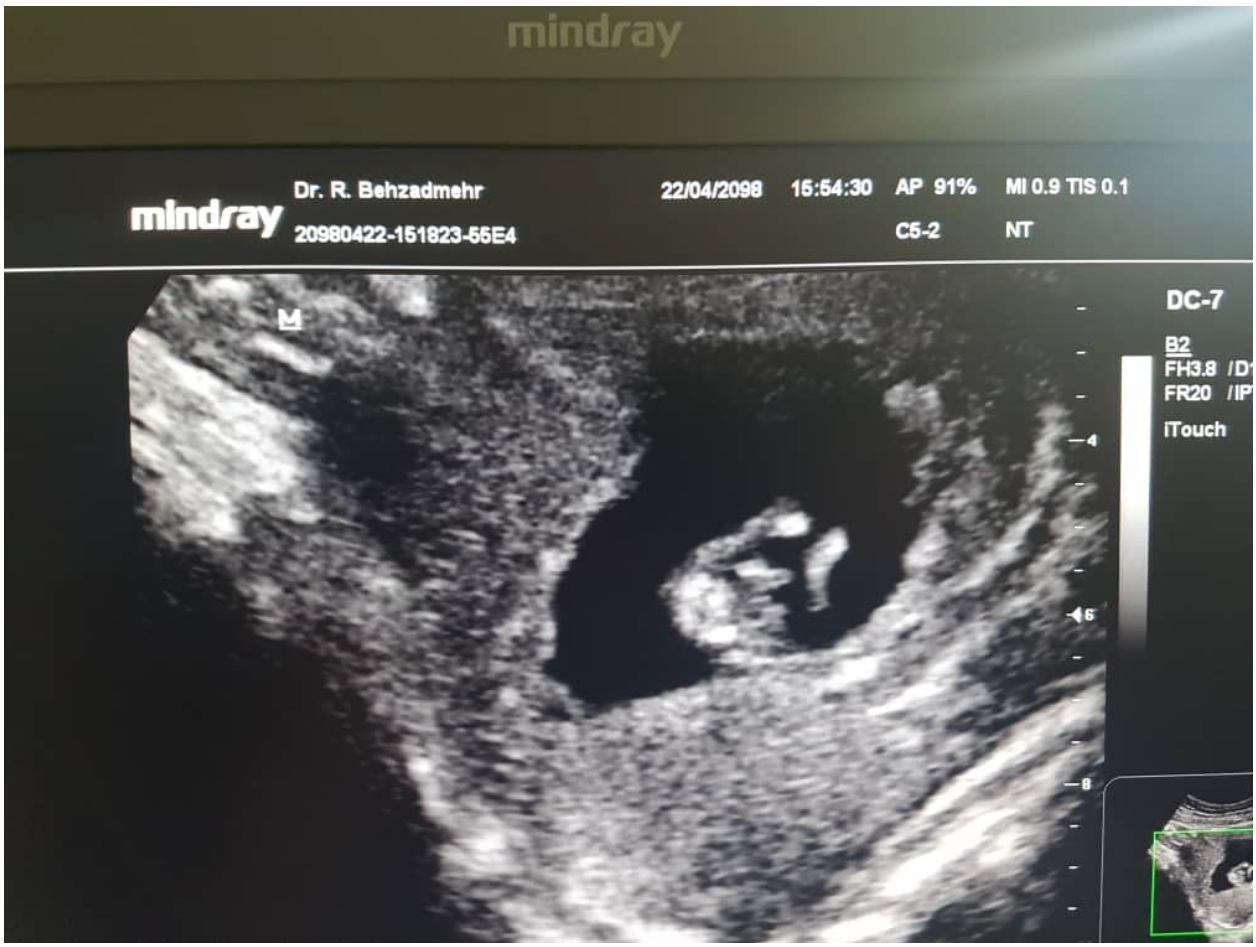
The next pages contain the authors' point-by-point reply to the comments of this revision round, as submitted with the revised manuscript. It is published as the authors wrote it.

Authors must state the aim of the study at the end of introduction after .1
.mentioning the previous studies
Figures 1 and 2 are not clear. Include additional information on figure in .2
.its caption and legend

Figure 1:ultrasound of female fetus in 12 week and 3 day



Figure 2: ultrasound of male fetus in 13 week



The results should be summarized, because the tables show more .3 complete data. Ok

.There is no explanation for the images in the results .4

Table 1. Sensitivity, specificity, positive and negative predictive value of ultrasonography

	Sensitivity	Specificity	Positive predictive value	Negative predictive value	Overall Accuracy

Boy ultrasonography	91.73%	99.05%	99.1%	91.3%	95.15%
Girl ultrasonography	99.05%	91.73%	91.3%	99.1%	95.15%
Boy ultrasonography 11-12	78.26%	94.73%	94.73%	78.26%	85.71%
Girl ultrasonography 11-12	94.73%	78.26%	78.26%	94.73%	85.71%
Boy ultrasonography 12-13	91.22%	100%	100%	89.79%	95.04%
Girl ultrasonography 12-13	100%	91.22%	89.79%	100%	95.04%
Boy ultrasonography 13-14	100%	100%	100%	100%	100%
Girl ultrasonography 13-14	% 100	% 100	% 100	% 100	% 100

Table 2. Sensitivity, specificity, positive and negative predictive value of ultrasonography in women with BMI

	Sensitivity	Specificity	Positive predictive value	Negative predictive value	Overall Accuracy
Boy ultrasonography less than 18	88.88%	100%	100%	87.5%	93.75%
Girl ultrasonography less than 18	100%%	88.88%	87.5%	100%	93.75%
Boy ultrasonography 18-25	98.64%	100%	100%	98.78%	99.35%
Girl ultrasonography 18-25	100%	98.64%	98.78%	100%	99.35%

Boy ultrasonography 25-30	84.84%	93.3%	96.55%	73.68%	87.5%
Girl ultrasonography 25-30	93.3%	84.84%	73.68%	96.55%	87.5%
Boy ultrasonography more than 30	40%	100%	100%	50%	62.5%
Girl ultrasonography more than 30	100%	40%	50%	100%	62.5%

Fight1: Ultrasound image of female fetus

Fight2: Ultrasound image of male fetus



.Add more update references if possible .5

3 Revision 2

2 comments · 17 Dec 2019 – 17 Dec 2019

Associate Editor

MINOR REVISION 17 Dec 2019

Dear Author(s)
I am waiting for
1- high-resolution and vivid ultrasound images
2- detailed footnotes
3- new references published since 2015
to approve your manuscript for publication.

Sincerely

Editor-in-Chief

MINOR REVISION 17 Dec 2019

Based on the AE comments and my reading, this manuscript needs minor revisions.

4

Revision 3

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.

The authors did not provide a point-by-point response to the reviewers' comments in this round.

4 Revision 3

4 comments · 8 May 2020 – 10 May 2020

Referee 1 Reviewer

ACCEPT 8 May 2020

Dear Editor,
I read the manuscript and reviewed the sections modified by the author in response to the reviewers. I must point out that this version is suitable for acceptance.

Referee 2 Reviewer

ACCEPT 10 May 2020

Dear Editor-In-Chief
The article was read. It is a good topic for the GCT journal. Also, the authors have made revisions.
Best regards.

Associate Editor

ACCEPT 10 May 2020

Based on the reviewers' comments, the revisions were done well. Thus, it can be accepted for publication in GCT.

Editor-in-Chief

ACCEPT 10 May 2020

Based on the reviewers' comments, the revisions were done well. Thus, it can be accepted for publication in GCT.