

Development and validation of scale assessing the knowledge about breast feeding benefits and practices among antenatal and postnatal mothers in South India

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Development and Validation of Scale Assessing the Knowledge about Breast Feeding Benefits and Practices among Antenatal and Postnatal Mothers in South India Journal of Clinical and Translational Research

Dear Dr Rushender,

Reviewers have now commented on your paper, which has yielded 2 minor revision and a reject verdict. You will see that they are advising that you revise your manuscript. If you are prepared to undertake the work required, I would be pleased to reconsider my decision. We kindly ask you to pay particular attention to the comments of reviewer 3 and request that you implement the reviewer's comments to the fullest extent possible or properly rebut the comments where you deem necessary.

For your guidance, reviewers' comments are appended below.

If you decide to revise the work, please submit a list of changes or a rebuttal against each point which is being raised when you submit the revised manuscript. Also, please ensure that the track changes function is switched on when implementing the revisions. This enables the reviewers to rapidly verify all changes made.

Your revision is due by Dec 22, 2021.



To submit a revision, go to https://www.editorialmanager.com/jctres/ and log in as an Author. You will see a menu item call Submission Needing Revision. You will find your submission record there.

Yours sincerely

Michal Heger Editor-in-Chief Journal of Clinical and Translational Research

Reviewers' comments:

Reviewer #1: The paper correctly follows the standard procedures for factor analysis in the development of a useable scale.

Reviewer #2: Hi Dr Michal, Below are my review comments: Review comments

Manuscript: JCTRes-D-21-00097

The authors reported the development and validation of an instrument for assessing knowledge about benefits of breastfeeding and practices. However, I believe the article could be improved by providing the readers with more information about how the instrument was developed. It currently unclear whether the 377 women were essential in developing and validating the instrument. Please consider the following points / questions;

- 1. There is limited information about how the items were selected and The composition of the review panel.
- 2. What literature did you used and how did you come about them?
- 3. What search terms were used and which databases were searched.
- 4. How were the themes/questions identified.
- 5. How many people were in the team of experts that considered face and content validity and what is there background? Are they experts in breastfeeding or paediatrics and what are there qualifications?
- 6. Why were 11 out 13 questions retained.
- 7. How many of the 11 questions are to asses knowledge about benefit of breastfeeding and how many to assess practice?
- 8. Could the instrument be developed and validated without involving the 384 participants?
- 9. How was the sample size of 384 determined? Could the pilot testing of the instrument be done with less participants?



10. Was the method of analysis the most appropriate? why was it necessary to perform exploratory factor analysis, confirmatory factor analysis, RMSEA and Turker-Lewis index.

Reviewer #3: As a woman (with children), I'm actually a bit perplexed by the introduction, and the one-sided exposure of the problem of not being able to breastfeed a child due to a lack of knowledge among women. As an European woman I can't judge the situation in South India at all, so maybe I'm wrong. And it is of course valid to measure women's knowledge on breastfeeding benefits and practices. However, now it is phrased as if it is mainly the responsibility and obligation of women. What about economic aspects for these women: do these women have the money to feed themselves enough to be able to breast feed their child? Do they have the opportunities to breastfeed the child while working (for 2 years for each child)? Are there opportunities to make sure they can expressing mother milk while working? What about women who want to breastfeed their child, but who are for whatever reason not able to do so? What about the responsibility for the society to value this role of women? By focusing only in the introduction about women's knowledge, I think the authors do them wrong, and feed the feeling as if it is their own fault and responsibility to not being able to breast feed their child which can even lead to death.

As a clinimetric expert, I have some more concerns and suggestions for improvement. The construct that the authors want to measure is not clear: in the title it is 'knowledge on breastfeeding benefits and practices', in the paper it is also described as 'good breastfeeding practices', or 'knowledge about breastfeeding'. And what do the authors mean by the construct: benefits for whom? Why not also talk about disadvantages (acting as natural contraception? In the Netherlands we learn that this is not true)? Does the knowledge mainly refers to knowledge on how to physically give breastfeeding, or also on societal and economic aspects of how to be able to give breastfeeding (e.g. which rights do women have for e.g. taking time off, is this paid by the employer etc.)? Without a clear definition, the validity of an instrument cannot be assessed. Should their knowledge also be true?

The first draft was developed by 'we' and a 'team of experts' (page 6 section 2.2). Who were these people, and what made them an expert? Were women involved? Also, in this stage 2 items were

removed (page 6). Which items were that? And for which reasons were they removed?

Nowadays, it is common practice to involve people from the target population to be involved in the development of an instrument. Were women involved? If no, why not?

Content (and face) validity refers to three aspects: relevance, comprehensiveness and comprehensibility. In the development of the draft the authors give attention to relevance and comprehensibility (p 5: appropriateness, relevancy, ambiguity, syntax and difficulty). What is the difference between appropriateness of items and relevancy of items? What do the authors mean by syntax? The final scorings algorithm? Does difficulty of items refers to the content of the items, in the context of IRT-based difficulty of items? or rather the difficulty of the wording of the items, and the difficulty of understanding what the developers intend?

In the next phase, the draft of the questionnaire was tested among women. What was asked in the semi-structured interview (page 6)? Were they asked again about relevance of



comprehensibility of each item, and the comprehensiveness of the items?

A factor analysis should only be conducted on items that are based on a reflective model. Is this a reflective or a formative model? When reading the items, I'm not sure whether it would be a reflective model and would like to read a reasoning about it (see for explanation e.g. Jarvis https://www.jstor.org/stable/10.1086/376806?seq=1#metadata_info_tab_contents) The results of the factor analyses informs us on how to add items into scores; only items within factors should be added, and not a total score across factors should be used, as this is not the fit of the model. Moreover, internal consistency should not be assessed on items that do not together form a unidimendional scale. As the Cronbach alpha likely increases when more items are involved (as is the case when it is calculated for the whole set of items), it is very likely that each of the Cronbach alpha's of the three unidimensional scales are (much) lower. Perhaps even too low, meaning that more items should be added in the subscale. The authors should provide the Cronbach alpha's for the three factors. (I disagree that a Cronbach alpha of 0.8 refers to 'very good' internal consistency - as is stated in the discussion).

The final set of items is provided in the Tables. However, I have some concerns on the phrasing and use of jargon. Is the exact wording used of the items, or are they shortened in the Tables? Many of the questions are not correct, i.e. 'whether the breastfeeding promote child to mother bonding?' is not a proper sentence. What is the stem of the items? is it 'do you know if...'? and if so, I can answer the question with 'yes', but are my ideas about it correct? Some items seem to be suggestive (e.g. items 6 and 7; if you ask, I guess it is probably true?). How is this guessing factor taken into account? Does the target population understands words like 'immunity', 'calorie', 'protein', 'uterine involution', and 'lactation'? what are the response options of each of the questions? Is the first question an open question, and how is this used in the scoring?

Authors' response

Reply to the reviewers' comments

Reviewe r Number	Original comments of the reviewer	Reply by the author(s)	Changes done on page number and line number
1	Reviewer #1: The paper correctly follows the standard procedures for factor analysis in the development of a useable scale.	We thank the reviewer for the valuable comments.	No changes required
2	The authors reported the development and validation of an instrument for assessing knowledge about benefits of breastfeeding and practices. However, I believe the article could be improved by providing the readers with more information about how the instrument was developed. It currently unclear whether the 377 women were essential in developing and validating the instrument. Please consider the following points / questions;	We thank the reviewer for the valuable comments. Though, there are no absolute rules for sample size in validating a questionnaire, larger samples are always better than smaller samples, it is recommended that	No changes required



investigators utilize as large a sample size as possible.	
sample size as	
Previous studies	
have also	
provided the	
following	
grading based	
on the sample	
size of a	
validation	
study:	
sample sizes of	
50 should be	
considered as	
very poor, 100	
as poor, 200 as	
fair, 300 as	
good, 500 as	
very good, and	
1000 or more as	
excellent.	
(Reference:	
Comfrey AL,	
Lee HB. A First	
Course in	
Factor Analysis. Hillsdale, NJ:	
Lawrence	
Erlbaum	
Associates)	
Since, our study	
falls in good	
category, it can	
be considered as	
appropriate	
sample size.	
1. There is limited information about how the items were selected and The We have Page	e 4,
composition of the review panel. developed the line	85
items based on	
literature review	
and expert	
opinion for	
assessing the	
knowledge and	
benefits of breastfeeding.	
The team of	
review panel	
consists of a	
panel of public	
health experts in	
the department	
of community	
medicine. We	
have also	
mentioned the	
same in the	
methods section	
now. We	
sincerely hope	
for reviewer's	
understanding in this regard.	



2. What literature did you used and how did you come about them?	We have	Page 4,
	conducted a	line 76-82
	rapid review of	
	literature and	
	identified	
	studies with	
	theme similar to	
	the current	
	study. We have	
	retrieved those	
	studies and	
	identified the	
	questions from	
	the	
	questionnaire	
	used in the	
	respective	
	study. We have	
	added this note	
	in the methods	
	section.	
3. What search terms were used and which databases were searched.	We thank the	Page 4,
The second secon	reviewer for the	line 76-82
	valuable	
	comments. We	
	have added the	
	search terms	
	and databases	
	searched in the	
	methods	
	section.	
4. How were the themes/questions identified.	The themes	Page 4,
1	were decided by	line 76-82
	the authors to	
	assess the	
	knowledge level	
	about the	
	benefits and	
	practices in	
	their own	
	service area and	
	the questions	
	were identified	
	based on the	
	literature review	
	and expert	
	opinion and	
	mentioned	
	extensively in	
	the methods	
	section.	
5. How many people were in the team of experts that considered face and	section. We had a team	Page 4,
content validity and what is there background? Are they experts in	section. We had a team of public health	Page 4, line 76-82
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		and practices	
		during their	
		undergraduate,	
		postgraduate	
		training and	
		post MD	
		experience in	
		the field of	
		public health.	
	6. Why were 11 out 13 questions retained.	Two questions	Page 4,
		were excluded	line 88-89
		as they were not	
		appropriate for	
		the theme of	
		questionnaire.	
		We have also	
		added that	
		information in	
	7 11	the manuscript	D 4
	7. How many of the 11 questions are to assess knowledge about benefit of	Eight questions	Page 4,
	breastfeeding and how many to assess practice?	on benefits of	line 87-89
		breastfeeding	
		and three	
		questions on practices of	
		breastfeeding.	
		We have also	
		added that	
		information in	
		the manuscript	
	8. Could the instrument be developed and validated without involving the	We thank the	No
	384 participants?	reviewer for the	changes
	9. How was the sample size of 384 determined? Could the pilot testing of	valuable	required
	the instrument be done with less participants?	comments.	required
	the instrument be done with 1635 participants.	Though, there	
		are no absolute	
		rules for sample	
		size in	
		validating a	
		questionnaire,	
		larger samples	
		are always	
		better than	
		smaller	
		samples, it is	
		recommended	
		that	
		investigators	
		utilize as large a	
		sample size as	
		possible.	
		Previous studies	
		have also	
		provided the	
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		on the sample size of a	
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		study: sample sizes of	
		50 should be	
		considered as	
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		2.2). Who were these people, and what made them an expert? Were women involved? Also, in this stage 2 items were removed (page 6). Which items were that? And for which reasons were	reviewer for the valuable comments. It	Page 4, line 76-82



		asked by the	
		previous	
		reviewer and we	
		have addressed	
		the same in the	
		methods section	
		and explained	
		the process	
		properly.	
	Nowadays, it is common practice to involve people from the target	We have not	No
	population to be involved in the development of an instrument. Were	included the	changes
	women involved? If no, why not?	target	required.
		population in	
		the development	
		of the	
		instrument. We	
		were not aware	
		of such practice	
		and we will	
		definitely follow it in our	
		follow it in our future studies.	
		We sincerely	
		regret for the mistake done in	
		our study.	
	Content (and face) validity refers to three aspects: relevance,	The difference	No
	comprehensiveness and comprehensibility. In the development of the draft	between	changes
	the authors give attention to relevance and comprehensibility (p 5:	appropriateness	required.
	appropriateness, relevancy, ambiguity, syntax and difficulty). What is the	and relevancy is	required.
	difference between appropriateness of items and relevancy of items? What	that	
	do the authors mean by syntax? The final scorings algorithm? Does	appropriateness	
	difficulty of items refers to the content of the items, in the context of IRT-	means the	
	based difficulty of items? or rather the difficulty of the wording of the	appropriate	
	items, and the difficulty of understanding what the developers intend?	placing of the	
		wordings in the	
		questions while	
		the relevance is	
		related to	
		relevance of the	
		question to the	
		particular theme	
		of the	
		questionnaire.	
		Syntax is	
		actually the	
		syntactic	
		ambiguity in	
		which we	
		assessed the	
		presence of two	
		or more	
		possible meanings within	
		a single	
		sentence or	
		sequence of	
		word. Difficulty	
		refers to the	
		difficulty in	
		understanding	
İ		the wording of	
		the items.	
	<u> </u>	are rems.	



	37 .1	3.7
In the next phase, the draft of the questionnaire was tested among women. What was asked in the semi-structured interview (page 6)? Were they asked again about relevance of comprehensibility of each item, and the	Yes, there were asked about the relevance and	No changes required.
comprehensiveness of the items?	comprehensibili ty of the items.	
A factor analysis should only be conducted on items that are based on a reflective model. Is this a reflective or a formative model? When reading the items, I'm not sure whether it would be a reflective model and would like to read a reasoning about it (see for explanation e.g. Jarvis https://www.jstor.org/stable/10.1086/376806?seq=1#metadata_info_tab_co ntents)	We have performed tetrad test to find out whether it is a reflective or formative model. We found that the comparison of intercorrelations between pairs of errors are zero indicating that the set of non-overlapping tetrads vanishes.	No changes required
The results of the factor analyses informs us on how to add items into scores; only items within factors should be added, and not a total score across factors should be used, as this is not the fit of the model. Moreover, internal consistency should not be assessed on items that do not together form a unidimendional scale. As the Cronbach alpha likely increases when more items are involved (as is the case when it is calculated for the whole set of items), it is very likely that each of the Cronbach alpha's of the three unidimensional scales are (much) lower. Perhaps even too low, meaning that more items should be added in the subscale. The authors should provide the Cronbach alpha's for the three factors. (I disagree that a Cronbach alpha of 0.8 refers to 'very good' internal consistency - as is stated in the discussion).	As suggested, we have reported separate Cronbach alpha for the three factors and found it to be 0.80 for the factor with items on breastfeeding practices and 0.74 for factors with items on general breastfeeding benefits and 0.52 for specific hormonal breastfeeding benefits. We have also removed the term very good and replaced it with acceptable.	Page 12, line 183- 185
The final set of items is provided in the Tables. However, I have some concerns on the phrasing and use of jargon. Is the exact wording used of the items, or are they shortened in the Tables? Many of the questions are not correct, i.e. 'whether the breastfeeding promote child to mother bonding?' is not a proper sentence. What is the stem of the items? is it 'do you know if'? and if so, I can answer the question with 'yes', but are my ideas about it correct? Some items seem to be suggestive (e.g. items 6 and 7; if you ask, I guess it is probably true?). How is this guessing factor taken into account? Does the target population understands words like 'immunity', 'calorie', 'protein', 'uterine involution', and 'lactation'? what are the response options of each of the questions? Is the first question an open question, and how is this used in the scoring?	We understand the concern of the reviewer. We have actually shortened the question for the purpose of Table while the exact question had the terms "do you know if". All the questions had three responses allowable except question	No changes are required.



	1: Yes, No and
	Don't know.
	Yes means it is
	correct answer.
	For the first
	question, the
	options were
	mother, baby,
	both mother and
	baby and don't
	know. We have
	actually
	translated it into
	the native
	language in a
	way that patient
	understands and
	we have
	clarified the
	same during
	initial piloting,
	where we
	assessed the
	difficulty of the
	terms used and
	we found the
	results to be
	satisfactory. We
	sincerely hope
	for reviewer
	understanding
	in this regard.

2nd Editorial decision 08-Jan-2022

Ref.: Ms. No. JCTRes-D-21-00097R1

Development and Validation of Scale Assessing the Knowledge about Breast Feeding Benefits and Practices among Antenatal and Postnatal Mothers in South India Journal of Clinical and Translational Research

Dear authors,

I am pleased to inform you that your manuscript has been accepted for publication in the Journal of Clinical and Translational Research.

You will receive the proofs of your article shortly, which we kindly ask you to thoroughly review for any errors.

Thank you for submitting your work to JCTR.

Kindest regards,

Michal Heger Editor-in-Chief Journal of Clinical and Translational Research



Comments from the editors and reviewers: