



Text Messages Validation and Adaptation for Breastfeeding Promotion

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Abstract

Objective: to design and validate a text messages database to promote breastfeeding. **Materials and methods:** quantitative research, instruments validation type done in three phases: (1) creation of text messages from documental analysis, (2) validation of content with experts, (3) comprehension tests with pregnant and maternal women. The analyzed information was done with SPSS version 22. **Results:** the final database had 96 text messages, submitted to the content validation phase with the participation of 13 experts. The internal consistency was “very high” with Cronbach Alfa of 0.93. The results of comprehension tests showed an adequate understanding of messages by pregnant and maternal women, **Conclusions:** the quantitative results showed through Cronbach Alfa, and comprehension tests administered to pregnant and maternal women, allowed to keep all the messages elaborated in phase 0 of the research and justify their adequate use for the promotion of breastfeeding.

Key words

Validation study, breastfeeding, text messages sending, information technology (*DeCS, BIREME*).

Validación y adaptación de mensajes de texto para el fomento de la lactancia materna

Resumen

Objetivo: diseñar y validar una base de datos de mensajes de texto para el fomento de la lactancia materna. **Materiales y métodos:** investigación cuantitativa del tipo validación de instrumentos, realizada en tres fases, la primera, permitió elaborar los mensajes de texto a partir de indagación documental; en la segunda se llevó a cabo la validación de contenido con expertos en la temática y en la tercera se realizaron las pruebas de comprensión con gestantes y lactantes. La información fue analizada en el software SPSS versión 22. **Resultados:** la base de

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datos de mensajes de texto final estuvo conformada por 96 mensajes, los cuales fueron sometidos a la fase de validación de contenido donde participaron 13 expertos. La consistencia interna se ubicó como “muy alto” con el Alfa de Cronbach de 0,93. Los resultados de las pruebas de comprensión evidenciaron un adecuado entendimiento de los mensajes por parte de las gestantes y lactantes. **Conclusiones:** los resultados cuantitativos evidenciados a través del Alfa de Cronbach, junto con las pruebas de comprensión realizadas con madres gestantes y lactantes, permitieron conservar el total de mensajes elaborados en la fase 0 de la investigación y soportan su adecuada utilización para el fomento de la lactancia materna.

Palabras clave

Estudio de Validación, lactancia materna, envío de mensajes de texto, tecnología de la información (*DeCS, BIREME*).

Validação e adaptação de mensagens de texto para o fomento da lactância materna

Resumo

Objetivo: esenhar e validar uma base de dados de mensagens de texto para o fomento da lactância materna. **Materiais e métodos:** pesquisa quantitativa o tipo validação de instrumentos, feita em três fases, a primeira, permitiu elaborar as mensagens de texto a partir de indagação documental; na segunda se levou a cabo a validação de conteúdo com expertos na temática e na terceira se realizaram as provas de compreensão com gestantes e lactantes. A informação foi analisada no software SPSS versão 22. **Resultados:** a base de dados de mensagens de texto final esteve conformada por 96 mensagens, os quais foram submetidos à fase de validação de conteúdo onde participaram 13 expertos. A consistência interna se ubicou como “muito alto” com l Alfa de Cronbach de 0,93. Os resultados das provas de compreensão evidenciaram um adequado entendimento das mensagens por parte das gestantes e lactantes. **Conclusões:** os resultados quantitativos evidenciados a través do Alfa de Cronbach, junto com as provas de compressão feitas com mães gestantes e lactantes, permitiram conservar o total de mensagens elaborados na fase 0 da pesquisa e suportam sua adequada utilização para o fomento da lactância materna.

Palavras chave

Estudo de Validação, lactância materna, envio de mensagens de texto, tecnologia da informação (*DeCS, BIREME*).

Introduction

The World Health Organization and the Decennial Breastfeeding Plan 2010-2020 recommend breastfeeding at the first postpartum hour when the newborn receives its first colostrum milk, which has vital contents of immunoglobulins and antibodies and also stimulates breast milk production. Moreover, they insist that babies should exclusively be

breastfed for their first 6 months of life and that they should receive complementary food up to 2 years of age to assure their adequate growth and development and help prevent infant mortality (1, 2).

In Colombia, although the Decennial Breastfeeding Plan established actions to prioritize effective protection and support of breastfeeding, besides implementing strategies

for its promotion, there are low indices and premature termination of breastfeeding, which affects the health status of children.

Between 2005 and 2010, exclusive breastfeeding descended from 47% to 45% and the total duration remained in 15 months, while for 2019 it was only 36%. These figures justify the need to strength activities in this area, such as breastfeeding training and coaching with all health staff and community agents as well as promotion of adequate practices in baby feeding along with information, education and communication strategies to contribute to national goals and to reach an exclusive breastfeeding rate of 42% by 2023. (3, 4).

WHO and UNICEF proposed to improve early initiation of breastfeeding in at least 70% of Colombia in 2015; an average of 72,6% mothers of children under 3 years of age started breastfeeding in within an hour after birth, which exceeded the established goal of the organizations. Regarding breastfeeding, nearly 1 out of every 3 children under 5 months (36.1%) were exclusively breastfed. (5).

WHO and the consensus from different skilled groups concluded that exclusive breastfeeding during the first 6 months of age have benefits widely documented that benefited different aspects of the child and the mother, e.g., health, education, economy and social interaction. This indicator is part of the global goals in nutrition of WHO 2025 and states that during the decennial period from 2015 to 2015, 50% or children under six months of age were exclusively breastfed (5).

In 2015, 21.049 cases of exclusive breastfeeding with an average of 2.5, in 2017, 3.858 cases with an average of 3 were identified in Caldas. This indicator of exclusive breastfeeding remained for 3 months between 2016 and 2018 (6).

In relation with continuous exclusive breastfeeding indicator in the country, a decrease from 58.1% in 2010 to 52.2% in 2015 was observed. In continuous breastfeeding indicator up to two years a decrease was observed with less intensity, from 32.5% in 2010 to 31.6% in 2015 (6).

The most commonly used strategies in the current historical period are those related with Information and Communication Technologies (ICT), especially with mobile telephones, which is one the most important devices around the world. It is a useful and indispensable tool for transmission and reception of information in different ways (short messages service *-text messages-*) in daily life, even though its technology is simple (7.8).

Therefore the interest to include mobile phones in medical applications and similar areas has increased. They are tools that can be used to improve health care by sending educational and motivational text messages, which contributes to decrease medical attention, hospitalizations and selfcare, and allows real-time support for a health condition and improves self-care (7-9).

Thus, the goal of this research is to design and validate a database of text messages to encourage breastfeeding.

Materials and methods

Study Type: quantitative research, instrument validation type.

The process was done in three phases (Figure 1):

Phase 0. the text messages database was done through literature review, international and national manuals review, and messages sent by a group of professionals who participated in a diploma course in breastfeeding taught by the departmental breastfeeding committee of Caldas. Some semantic changes took place to obtain a better understanding that matched the project objective and the current guides of breastfeeding in the decennial breastfeeding plan 2010-2020.

Phase 1: review or judgement by experts through the Delphi technique: for this phase the research team selected the experts to participate through a non-probabilistic sampling, considering characteristics such as experience years, academic level and disciplinary working areas (Table 1). In total 20 professionals were invited from Gynecology - Obstetrics, Pediatrics, General Medicine, Nutrition, Nursing, Psychology, Dentistry, and Communication fields, 13 of them reviewed the messages database and made their evaluation, recommendations, and adjustments according to a matrix, qualifying relevance, pertinence, use, clarity, and appearance. Each dimension was graded with an -x- in a scale from 1 to 4, 1 was the lowest score and 4 was the highest. At the end of the quantitative evaluation, each expert presented their qualitative concept in relation with change proposals.

For the information analysis, the SPSS version 22 was used. The calculation of internal consistency was done through Cronbach Alfa, for each message and for the instrument. The range scale presented by Ruiz Bolivar was considered for the final evaluation (10):

- 0.81-1.00: Very high
- 0.61-0.80: High
- 0.41-0.60: Moderate
- 0,21-0,40: Low
- 0.01-0.20: Very low

Phase 2: from the consolidated matrix of text messages evaluation, 10 messages had the lowest score by experts and were submitted to validation through 4 focal groups (theorist sample), made up of women in their last trimester of pregnancy and in breastfeeding stage who participated in preparation courses for maternity and paternity in different Health institutions, in 3 municipalities of the Caldas Department. Each focal group was led by a moderator from the research group. The messages assessment took place in two moments: the first one was done from 1 to 4 on clarity, pertinence, and vocabulary aspects, 1 was the lowest score and 4 was the highest; the second moment consisted of an open discussion space where women informed their understanding of the message, how important it was and what words to change.

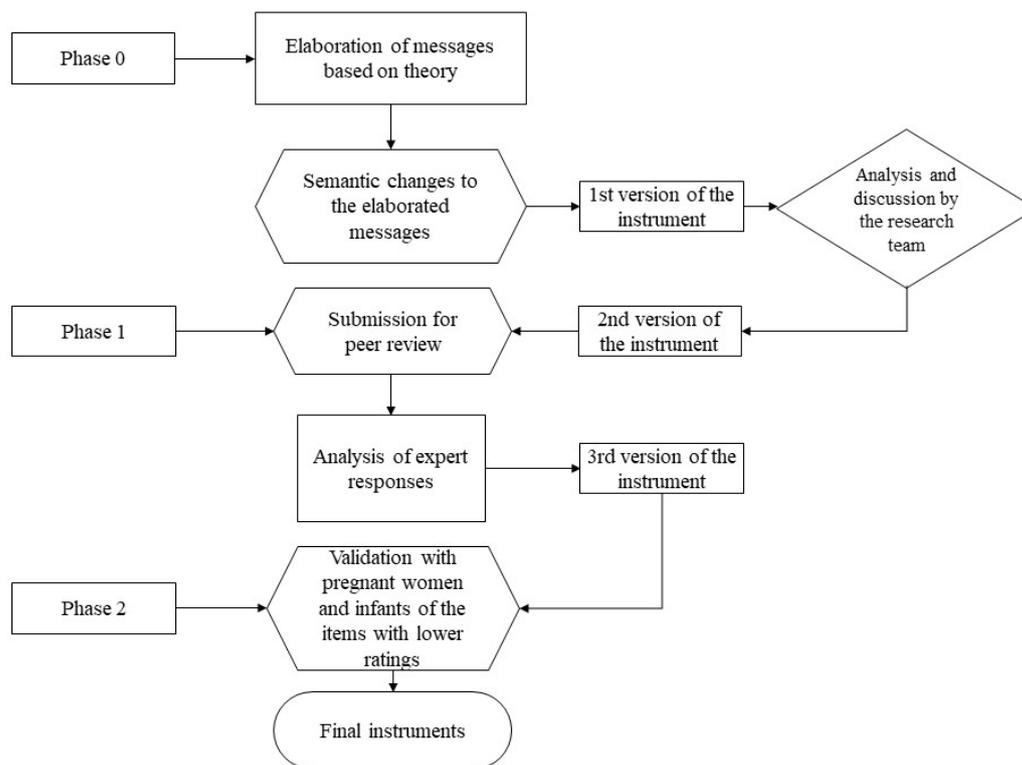


Figure 1. Phases in the process of validation and adaptation of text messages.

Source: compiled by authors.

Ethical considerations: the project was approved by the Bioethics Committee of Health Sciences of the Caldas University, with the consecutive CBCS-040. The research had the approval signature from experts and breast feeders. Moreover, the established parameters in the Helsinki Declaration (11) and Resolution 008430 of 1993 were fulfilled (12) and this is considered a non-risky research.

Results

Phase 0: Messages elaboration from theory.

The text messages Final Database included 96 messages on the following topics: anatomy and physiology of breastfeeding, human milk properties, breastfeeding advantages,

prenatal preparation for breastfeeding, techniques, collection, human milk storage and conservation. These items made up the first instrument version, or first database, then the researchers' teachers made the first review of messages and through a consensus technique a discussion of some semantic changes was held to better understand the project and breastfeeding guides in the decennial breastfeeding plan 2010-2020. The second database version was established and sent to experts for review and judgement.

Phase 1: Review by experts' judgement

As mentioned in the methodology, 13 Health Sciences experts with maternal-infant knowledge participated in the validation process of the text messages. They provided

input about the instrument adaptation for the Colombian breastfeeding population. Table 1 shows the characteristics of work experience with an average of 17.6 working years, professional and/or academic experience, with a minimum of 5 years and a maximum of 35.

Regarding education, 76% had postgraduate or master's degrees, completed at the time of the study. Higher academic education, support areas of expertise manifested by experts, mainly in pediatrics, maternal-infant and neonatology areas.

Table 1. Characterization of expert evaluators of text messages.

No.	Level of training	Specialty	Years of experience
1	Specialist	Medicine	15
2	Magister	Public health	10
3	University professional	Dentistry	5
4	Magister	Pediatrics, neonatology and epidemiology	25
5	University professional	Nutrition	10
6	Magister	Maternal and child	30
7	Specialist	Nursing health administration	13
8	Specialist	Pediatrics, neonatology and epidemiology	10
9	Specialist	Psychology; speech therapy; family guidance and counseling	35
10	University professional	Pediatrics	6
11	Magister	Neonatology; public health	30
12	Magister	Nursing	30
13	Specialist	Communication	10

Source: compiled by authors.

The contents validity was determined by the agreement of the experts who evaluated 96 text messages in the instrument, through a scale to evaluate pertinence, relevance, use, clarity, and appearance.

The analysis of internal consistency by Cronbach Alfa calculation was done through

messages, and for all the instrument (Table 2). Notice how all values are over 0.93, which means a “very high” internal consistency, according to the criteria established by Ruiz Bolivar, allowing the maintenance of all text messages to be included in the instrument final version.

Table 2. Cronbach's alpha calculation by text message.

Message	Cronbach's Alpha	Message	Cronbach's Alpha	Message	Cronbach's Alpha	Overall Cronbach's alpha
1	,935	34	,935	67	,934	0,935
2	,935	35	,934	68	,933	
3	,936	36	,933	69	,935	
4	,936	37	,935	70	,935	
5	,933	38	,934	71	,935	
6	,934	39	,935	72	,934	
7	,935	40	,935	73	,932	
8	,934	41	,935	74	,935	
9	,934	42	,935	75	,934	
10	,936	43	,934	76	,934	
11	,936	44	,934	77	,937	
12	,933	45	,935	78	,936	
13	,936	46	,935	79	,933	
14	,935	47	,933	80	,935	
15	,934	48	,935	81	,935	
16	,934	49	,935	82	,936	
17	,935	50	,934	83	,935	
18	,934	51	,935	84	,935	
19	,934	52	,935	85	,933	
20	,935	53	,934	86	,934	
21	,934	54	,933	87	,935	
22	,935	55	,935	88	,934	
23	,933	56	,934	89	,934	
24	,935	57	,935	90	,935	
25	,933	58	,935	91	,935	
26	,934	59	,935	92	,935	
27	,935	60	,935	93	,936	
28	,935	61	,934	94	,935	
29	,935	62	,934	95	,935	
30	,935	63	,934	96	,935	
31	,936	64	,934			
32	,936	65	,935			
33	,935	66	,934			

Source: compiled by authors.

Phase 2: Validation with pregnant and breastfeeding women.

Even though Alfa Cronbach for all messages was considered “very high”, researchers selected the 10 messages with the lowest scores to be validated with women in their last trimester of pregnancy and in breastfeeding stage.

In total, four focal groups were used, with the participation of 34 women who signed an informed consent; their duration oscillated between 45 and 60 minutes, in which the researcher read the text messages out loud with the support of an observation guide and follow up their capacity to interpret them.

In the discussion process, no major problems were found with answering questions. The difficulty of mothers to interpret some technical and scientific terms used in some messages, such as hypophysis, prolactin, and aureole was noticeable. In general, mothers concluded that messages were easy to understand. Therefore, the vocabulary of some messages was adapted.

Finally, messages were reviewed and valued by researchers to warranty that the text messages database on breastfeeding were relevant and fine as well as respectful of the recommendations of experts, and the group of mothers, based on the objective of this article which is to design and validate a database of text messages to encourage breastfeeding.

Discussion

In this research the validation and adaptation of text messages was done as a strategy with ITCs to encourage breastfeeding, which, according to Mota et al., must be strengthened in mothers to consolidate the relation mother-child and improve the health of the baby (13).

Text messages were considered as the best strategy to encourage breastfeeding since it foster mother-child communication in a very effective way in an era of technology, according to the findings by Jenaro et al, who in 2016 concluded that text messages intervention is a promising strategy to encourage healthy habits (14).

Likewise, Ortiz et al identified that most pregnant women had access to ITCs, especially to cellphones, which became the most used and most appropriate technological tools to provide health care, as part of health service attention. (15).

Results of this research show that the use of text messages to encourage breastfeeding is a relevant alternative that can be used easily thanks to the availability and access to cellphones by mothers; besides, they are interested in obtaining information and guidance through this device, as stated by Ortiz et al (15).

In total, there were 96 text messages included in this research about necessary aspects for an adequate breastfeeding process, among them, anatomy and physiology of breastfeeding, properties of human milk, advantages of breastfeeding, prenatal preparation, breastfeeding techniques, collection and storage and conservation of human milk. Strengthening these elements is important to avoid high rates of abandonment of exclusive breastfeeding before six months, as expressed by Araque et al, and it has a negative impact on society and affects both mothers and the community, which makes it a public health priority (16).

These authors consider that it is important to use the ITCs to encourage, assess and improve the support and professional care during the initiation and maintenance of

exclusive breastfeeding, mainly in the first puerperal days. They also consider that these technological tools give resources for health professionals to adequately coordinate health care, including prevention, promotion and follow up at different care levels. (16). Similar conclusions were found by Garcia et al who, in their research, identified how new technologies and social media help women to clear doubts of traditional health services, promote breastfeeding and create new areas to get in touch with mothers (17).

Cronbach Alfa was valued in this research as “very high”, suggesting an adequate internal consistency of text messages. These results are similar to the ones presented by Reyes and Ibarra who validated a family support questionnaire for exclusive breastfeeding maintenance, with a “high” grade, with Cronbach Alfa of 0.77 (18). Fernandez and Menendez found an internal consistency of 0.87 in the validation process of a questionnaire on knowledge and abilities in breastfeeding (19).

The results of the validation process with experts and the valuation given by pregnant women in comprehension tests support the importance of messages to promote breastfeeding, and coincide with Velez et al., (20) and Lira and Caballero (21) in their validation processes.

Conclusions

The validation process through expert consensus, with the delimitation of a clear methodology, is an ideal alternative for the development, organization, evaluation and adaptation of an instrument to encourage breastfeeding in pregnant women or in their breastfeeding period.

The participation of qualified experts in maternal -infant areas was fostered to obtain an objective messages evaluation, to identify opportunities of change and to improve and adapt the instrument in an optimal way with this population.

This research allowed to obtain information, elements and guidance to plan the recommendations that must be given to mothers and the community on breastfeeding and consider it as a methodology to work in educative health practices, supported by quantitative results shown through Cronbach Alfa, as well as to support the internal consistency of the instrument and comprehension tests for pregnant and breastfeeding mothers, maintaining total messages to encourage breastfeeding.

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