ABSTRACT: Objective: To assess the impact of a child feeding training program for primary care health professionals about breastfeeding and complementary feeding practices. Methods: Cluster-randomized field trial conducted in the city of Porto Alegre, (RS), Brazil. Twenty primary health care centers (HCC) were randomized into intervention (n = 9) and control (n = 11) groups. The health professionals (n = 200) at the intervention group centers received training about healthy feeding practices. Pregnant women were enrolled at the study. Up to six months of child’s age, home visits were made to obtain variables related to breastfeeding and introduction of foods. Results: 619 children were evaluated: 318 from the intervention group and 301 from the control group. Exclusive breastfeeding prevalence in the first (72.3 versus 59.4%; RR = 1.21; 95%CI 1.08 – 1.38), second (62.6 versus 48.2%; RR = 1.29; 95%CI 1.10 – 1.53), and third months of life (44.0% versus 34.6%; RR = 1.27; 95%CI 1.04 – 1.56) was higher in the intervention group compared to the control group. The prevalence of children who consumed meat four or five times per week was higher in the intervention group than in the control group (36.8 versus 22.6%; RR = 1.62; 95%CI 1.32 – 2.03). The prevalence of children who had consumed soft drinks (34.9 versus 52.5%; RR = 0.66; 95%CI 0.54 – 0.80), chocolate (24.5 versus 36.7% RR = 0.66 95%CI 0.53 – 0.83), petit suisse (68.9 versus 79.7; 95%CI 0.75 – 0.98) and coffee (10.4 versus 20.1%; RR = 0.51; 95%CI 0.31 – 0.85) in their six first months of life was lower in the intervention group. Conclusion: The training of health professionals had a positive impact on infant feeding practices, contributing to the promotion of child health.

Keywords: Child. Breastfeeding. Feeding. Intervention studies. Health services. Primary health care.
INTRODUCTION

The importance of breastfeeding and a complementary healthy diet as factors of mother-child health promotion and protection is a consensus in all countries\(^1\), but national surveys have highlighted the magnitude of such problems related to inappropriate infant feeding practices in Brazil\(^2\)\(^-\)\(^4\). The II Survey of Breastfeeding Prevalence in Brazilian Capitals\(^3\) showed prevalence of exclusive breastfeeding in 23.3% for 4 months and 9.3% for 6 months of age, data far from the parameters recommended as ideal. It was also found that the early introducing of water, teas and other kinds of milk in the first month of life and the elevated consumption of coffee, soft drinks and cookies/snacks among children between 9 and 12 months of age.

The transcedency of these problems is emphasized in literature by concrete evidence on the association of early termination of breastfeeding and inadequate nutritional diet to diarrhea, growth retardation, symptoms of respiratory diseases, infections and deficiency...
diseases\textsuperscript{5,6}. Recent studies also suggest a playing role for child nutrition in the development of obesity and cardiovascular diseases in adult life\textsuperscript{7-10}.

The effectiveness of educational interventions with mothers on the change of feeding habits in the first year of life has already been evidenced in previous studies\textsuperscript{11,12}, though, many times, the implementation of these methods in the routines of health care is limited due to local logistic and financial difficulties. Intervention programs using public health care which are accessible for the most vulnerable populations may be the most reliable channels for sustainable educational interventions. In this context, the qualification of health professionals for the implementation of feeding and nutrition policies, programs and actions aimed at promoting an appropriate and healthy diet represent a strategic need for facing the problems resulting from the current Brazilian feeding and nutritional situation\textsuperscript{13}, and the permanent education in health reveals itself as the mains strategy in order to qualify care practice\textsuperscript{13}.

The objective of this study was to evaluate the impact of updating primary health care professionals in relation to the food guide “Ten Steps for Healthy Feeding from Birth to Two Years of Age”\textsuperscript{14} in the practices of breastfeeding and in the quality of complementary diet of breastfed infants assisted by health care centers (HCC) of the city of Porto Alegre. With the intention of preventing the intervention to contaminate health professionals in the control group, in case randomization would be carried out within members of the working teams, the randomization criteria used were the health care centers (HCC).

**METHODS**

It consists of a cluster randomized field Trial carried out between April 2008 and September 2009 in Porto Alegre, Rio Grande do Sul, with a estimated population of 1,436,123 inhabitants. The randomization units were the health care centers (HCC) of the municipality and the outcomes were evaluated on mothers and children users of their services. The HCC are distributed throughout eight health districts managements, each of them related to a region of the municipality.

**RECRUTING AND CLUSTER RANDOMIZATION**

The HCC considered eligible to participate in the study were the ones which had had more than 100 attendances of children under one year of age, in 2006, and who were not part of the Family Health Strategy (Estratégia de Saúde da Família) or kept partnerships with other health institutions or companies. Considering these criteria, 31 out of the 56 HCC municipalities were considered eligible for the study. The names of the eligible US were included in a black envelope and, for each one of the eight health district managements of the municipality, two HCC were randomly selected, one for the intervention group and another for the control one. After the beginning of the recruitment of individuals for the
sample, four additional HCC were selected and randomized into the two groups in order to achieve the previously planned sample size. Twenty HCC, 9 from the intervention group and 11 from the control group, took part in the study. All HCC were visited in order to clarify the procedures for the study and to obtain the necessary consents.

The study was approved by the Ethics in Research Committee of the Universidade Federal de Ciências da Saúde de Porto Alegre (UFCSPA) and by the Ethics Committee of the Prefeitura Municipal de Porto Alegre, and the study was registered in ClinicalTrials.gov under the No. NCT00635453.

INTERVENTION

One hundred and sixty eight health professionals (doctors, nurses, nutritionists, auxiliary nurses, nursing technicians, dentists, administrative technicians and interns) of the HCC of the intervention groups participated in the updating session based on the program “Ten Steps for Healthy Feeding from Birth to Two Years of Age”\(^\text{14}\). This program is a initiative of the Ministry of Health and aims at supporting health professionals and promoting healthy eating habits for children under two years of age, prioritizing exclusive breastfeed in the six first months of life and complementary diet in enough quantity and quality in order to provide proper growth and development of the child. The recycling update lasted approximately one hour and it took place in one of the systematic meetings of staff by the researcher responsible for the study.

The teams of HCC health professionals of the intervention group received the technical handbook of the program, developed by the Ministry of Health\(^\text{14}\), as well as the pocket guide, developed especially for this study, containing objective information on the dietary practices recommended by national guidelines. Each HCC received educational material to be given to mothers of children under six months of age, in quantities in accordance to the demand for a period of six months. This material contained information on the importance of not offering other liquids and foods besides breastfeeding, the importance of introducing meat in order to prevent anemia, the adequate consistency of baby food, the importance of not substituting baby food for sandwiches or snacks and examples of food compositions for meals. Two colorful banners, made by durable plastic material, displayed: a) information on the scheme of introduction of complementary food, with number of meals and compositions of salty baby food, including meat; b) colorful and well visible pictures of food that should not be offered to children under two years of age, including coffee, stuffed cookies, jelly, candy, soft drink, petit Suisse cheese.

The HCC of the control group did not participate in the recycling program and did not receive the informative material. The study did not interfere in the strategy or routine of these places.

The primary hypothesis of this study was that the intervention would increase the rates of exclusive breastfeeding among children until six months of age. The secondary hypothesis
was that the intervention would (1) increase the consumption of fruit, beans, meat and liver and (2) reduce the consumption of food which are not recommended for breastfed children.

**RECRUITMENT OF THE INDIVIDUALS**

From April to December 2008, interviewers visited the HCC of both intervention and control group in order to identify the pregnant women indexed in these places and who were in the last trimester of pregnancy, potential mothers for the receiving of the guidance of the health professionals during the first year of life of their babies. The pregnant women were informed about the procedures of the study and the ones who agreed on taking part in it signed the Informed Consent. In this moment, the pregnant women answered to a survey regarding their age, school education and occupation, family structure and income and probable delivery date. Data such as address and telephone numbers were obtained in order to conduct later household visits. Pregnant women diagnosed as HIV positive were not considered eligible for this study.

To calculate the size of the sample, it was considered the frequency of exclusive breastfeeding until four months of age of 40% in the intervention group, power of 90%, confidence level of 95% and cluster correlation coefficient of 1.5, which determined the evaluation of 300 pairs of mother-baby in each group. Considering an anticipated loss of 20%, it was estimated the recruitment of 720 individuals so that the sampling size would be achieved.

**EVALUATING THE OUTCOMES**

Between November 2008 and September 2009, a household visit to the participant women was conducted, in order to collect data on the children between six and nine months of age. The data of the children were originally planned to be collected when they would reach six months of age. However, due to logistical problems (absence of the mother or child being sick), it was extended to nine months of age. The data on date of birth, gender, birth weight and height were collected in the child’s booklet of vaccines. The dietary data of the child during their first six months of life were collected through a survey in order to verify the time of breastfeeding, as well as the age the children started consuming other foods — water, tea, other liquids, other kinds of Milk and solid food. Exclusive breastfeeding was defined as the use of maternal milk as the sole food ingested, without the consumption of teas, water, other liquids or solids, with the exception of vitamin and mineral supplementation. The mothers provided information, about the week prior to the interview, on the frequency of consumption of fruit, beans, meat (categorized in less than, more than or 4 times a week) and liver (categorized in less than, more than or once a week) by their child and on the consumption of not recommended foods — added by sugar, candy/lollypop, jelly, soft drink, artificial juice (powdered), coffee, petit Suisse cheese, stuffed cookies, chocolate, chips.
snacks and processed food (ham, mortadella, salami, hot dog sausage) — at any time during their first six months of life.

After data collection, the confirmation of those was made by telephone calls in 5% of randomly selected surveys. The interviewers, undergraduate and postgraduate students in Nutrition, were not involved in the randomization process and received theoretical and practical training on data collection, with an average duration of eight hours.

STATISTICAL ANALYSIS

The database was typed twice into the statistical software SPSS, version 11.0 (Statistical Package for Social Science Inc., Chicago, United States) by two trained researchers. The data were validated in the Epi Info software, version 6.4 (Centers for Disease Control and Prevention, Atlanta, United States) and the statistical analysis were carried out in the 16.0 version of the SPSS software. The results were analyzed for treatment purposes.

The variables were described as percentages or average and standard deviations. In order to quantify the intervention, the relative risks (RR) and the respective confidence intervals of 95% (95%CI) were calculated. The results were adjusted for cluster randomization by the Generalized Estimation Equation (GEE) with robust variance and Poisson distribution. Here, p-values < 0.05 were considered significant.

RESULTS

Out of the 736 pregnant women invited to take part in the study, 715 (97.1%) entered the study, 360 of the HCC in the intervention group and 355 in the control group (Figure 1). 633 children between six and nine months of age were evaluated. The main reason for losses during follow-up was due to not locating the families’ homes (Figure 1). Fourteen children with congenital diseases were excluded from the analysis, which resulted in 318 subjects in the intervention group and 301 in the control one.

There was no significant difference between the pregnant women lost in the follow-up and those who took part in data collection at six and nine months of age of the child regarding their monthly family income (1066.6 ± 684.8 reais versus 1070.2 ± 732.2 reais, p = 0.96), maternal school education (8.4 ± 2.8 years versus 8.5 ± 2.6 years, p = 0.74) and age of the mother at the time of birth (24.8 ± 6.3 years versus 25.4 ± 6.7 years, p = 0.44).

Out of the 619 children evaluated, 325 (52.5%) of them were male. Most mothers did not live with a husband or partner (77.9%), did not have paid occupations (68.1%) and were multiparous (55.6%). The percentage of mothers with less than 8 years of school education was 47.6%, and only one of them declared not being able to read. The monthly income was lower than R$ 1,500 (mean: 1,073.4 ± 735.8; median: 900) in 75.4% of the
families. The characteristics of the children were similar for both intervention and control groups, as seen in Table 1.

In the studied population, 33.9% (n = 210) of the children received exclusive breastfeeding for less than one month and 75.9% (n = 470) were exclusively breastfed for less than four months. The breastfeeding rate was 66.1% (n = 409) at six months of age. When comparing the groups, it is observed that the average exclusive breastfeeding period was significantly higher in the intervention group (2.34 ± 1.63 months) in relation to the control one (1.92 ± 1.60 months) (difference of averages: 0.41; 95%CI 0.07 – 0.76). The prevalence of children who were fed exclusively with breast milk for less than one month was significantly lower in the intervention group (27.7%) when compared to the control one (40.5%) (RR = 0.68; 95%CI 0.53 – 0.86).
The intervention had a positive impact in the rates of exclusive breastfeeding until the third month of life, though there was a difference between the groups in months four, five and six (Table 2). The breastfeeding rates were similar between the groups until six months of age (Table 2).

Regarding the quality of the complementary diet, it was observed that the prevalence of children who ate meat four or more times a week was 62% higher than in the intervention group when compared to the control one (36.8 versus 22.6%; 95%CI 1.30 – 2.03) (Table 3). The prevalence of children who ate liver in the week prior to the interview seems to be higher in the intervention group when compared to the control group, although the statistic does not meet critical levels which would allow us to exclude the null hypothesis (10.4 versus 6.0%; 95%CI 1.00 – 2.99).

The prevalence of children who had already ingested soft drinks (34.9 versus 52.5%; RR = 0.66, 95%CI 0.54 – 0.80), chocolate (24.9 versus 36.7%; RR = 0.66; 95%CI 0.53 – 0.63), petit suisse cheese (68.9 versus 79.7%; RR = 0.86; 95%CI 0.75 – 0.98) and coffee (10.4 versus 20.1%; RR = 0.51; 95%CI 0.31 – 0.85) in the first six months of life was lower in the intervention group in comparison to the control one (Table 4).

**DISCUSSION**

The present study evaluated the impact of update recycling of health professionals who works in primary health care on child feeding according to the Brazilian feeding guide on the practices of maternal breastfeeding and complementary diet. The first randomized study to evaluate the effectiveness of the “Ten Steps for Healthy Feeding from Birth to Two Years of Age” guide was conducted with the intervention of university students in visits to the mother for in order to guide those on healthy dietary practices.
The prevalence of children in exclusive maternal breastfeeding observed in this study revealed that the intervention performed using the health service was effective in significantly increasing its practice within the three first months. The national rates observed in the II Pesquisa de Prevalência de Aleitamento Materno in the Brazilian capitals and in the Federal

### Table 2. Impact of the intervention on breastfeeding practices among children aged 6 to 9 months, Porto Alegre, RS, Brazil.

<table>
<thead>
<tr>
<th></th>
<th>Exclusive maternal breastfeeding&lt;sup&gt;a&lt;/sup&gt;</th>
<th>RR (95%CI)</th>
<th>Maternal breastfeeding</th>
<th>RR (95%CI)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Intervention</td>
<td>Control</td>
<td>Intervention</td>
<td>Control</td>
</tr>
<tr>
<td>1 month</td>
<td>230 (72.3)</td>
<td>179 (59.4)</td>
<td>1.21 (1.08 – 1.38)*</td>
<td>316 (99.4)</td>
</tr>
<tr>
<td>2 months</td>
<td>199 (62.6)</td>
<td>145 (48.2)</td>
<td>1.29 (1.10 – 1.53)*</td>
<td>299 (94.0)</td>
</tr>
<tr>
<td>3 months</td>
<td>140 (44.0)</td>
<td>104 (34.6)</td>
<td>1.27 (1.04 – 1.56)*</td>
<td>279 (87.7)</td>
</tr>
<tr>
<td>4 months</td>
<td>87 (27.4)</td>
<td>62 (20.6)</td>
<td>1.32 (0.87 – 2.02)</td>
<td>258 (81.0)</td>
</tr>
<tr>
<td>5 months</td>
<td>36 (11.3)</td>
<td>21 (7.0)</td>
<td>1.62 (0.89 – 2.93)</td>
<td>235 (73.9)</td>
</tr>
<tr>
<td>6 months</td>
<td>10 (3.1)</td>
<td>9 (3.0)</td>
<td>1.05 (0.34 – 3.21)</td>
<td>211 (66.4)</td>
</tr>
</tbody>
</table>

<sup>a</sup>Exclusive breastfeeding was defined as the infant receiving breast milk without any additional food, liquids or water, with the exception of medicine or mineral supplements.

<sup>*p < 0.05</sup>

### Table 3. Impact of the intervention on complementary feeding practices among children aged 6 to 9 months, Porto Alegre, RS, Brazil.

<table>
<thead>
<tr>
<th>Complementary diet</th>
<th>Intervention</th>
<th>Control</th>
<th>RR (95%CI)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fruit ≥ 4 times a week</td>
<td>220 (69.2)</td>
<td>182 (60.5)</td>
<td>1.14 (0.97 – 1.34)</td>
</tr>
<tr>
<td>Bean ≥ 4 times a week</td>
<td>119 (37.4)</td>
<td>104 (34.6)</td>
<td>1.08 (0.76 – 1.54)</td>
</tr>
<tr>
<td>Meat ≥ 4 times a week</td>
<td>16 (36.8)</td>
<td>68 (22.6)</td>
<td>1.62 (1.30 – 2.03)*</td>
</tr>
<tr>
<td>Liver ≥ once a week</td>
<td>33 (10.4)</td>
<td>18 (6.0)</td>
<td>1.73 (1.00 – 2.99)</td>
</tr>
</tbody>
</table>

<sup>*p < 0.05</sup>

The prevalence of children in exclusive maternal breastfeeding observed in this study revealed that the intervention performed using the health service was effective in significantly increasing its practice within the three first months. The national rates observed in the II Pesquisa de Prevalência de Aleitamento Materno in the Brazilian capitals and in the Federal...
Table 4. Impact of the intervention on the intake of non-recommended food among children aged 6 to 9 months, Porto Alegre, RS, Brazil.

<table>
<thead>
<tr>
<th>Foods not recommended</th>
<th>Intervention n (%)</th>
<th>Control n (%)</th>
<th>RR (95%CI)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Added sugar</td>
<td>229 (72.2)</td>
<td>246 (81.7)</td>
<td>0.88 (0.76 – 1.02)</td>
</tr>
<tr>
<td>Candies</td>
<td>123 (38.7)</td>
<td>138 (45.8)</td>
<td>0.84 (0.58 – 1.21)</td>
</tr>
<tr>
<td>Jelly</td>
<td>227 (71.4)</td>
<td>224 (74.4)</td>
<td>0.95 (0.82 – 1.10)</td>
</tr>
<tr>
<td>Soft drinks</td>
<td>111 (34.9)</td>
<td>158 (52.5)</td>
<td>0.66 (0.54 – 0.80)*</td>
</tr>
<tr>
<td>Artificial juice (powdered)</td>
<td>63 (19.8)</td>
<td>81 (27.0)</td>
<td>0.73 (0.49 – 1.09)</td>
</tr>
<tr>
<td>Coffee</td>
<td>33 (10.4)</td>
<td>60 (20.1)</td>
<td>0.51 (0.31 – 0.85)*</td>
</tr>
<tr>
<td><em>Petit suisse</em> cheese</td>
<td>219 (68.9)</td>
<td>240 (79.7)</td>
<td>0.86 (0.75 – 0.98)*</td>
</tr>
<tr>
<td>Stuffed cookies</td>
<td>105 (33.1)</td>
<td>130 (43.2)</td>
<td>0.76 (0.53 – 1.10)</td>
</tr>
<tr>
<td>Chocolate</td>
<td>78 (24.5)</td>
<td>110 (36.7)</td>
<td>0.66 (0.53 – 0.83)*</td>
</tr>
<tr>
<td>Chips snacks</td>
<td>57 (17.9)</td>
<td>65 (21.0)</td>
<td>0.83 (0.50 – 1.37)</td>
</tr>
<tr>
<td>Processed meatb</td>
<td>24 (7.5)</td>
<td>29 (9.7)</td>
<td>0.78 (0.40 – 1.51)</td>
</tr>
</tbody>
</table>

aConsumption of not-recommended food any time during the first six months of life. bHam, mortadella, salami, hot dog sausage, sausage.
*p < 0.05

District for exclusive breastfeeding of children of one, two and three months of age were 60.7, 47.3 and 34.3%, respectively, similar to the rates observed in the control group of this study and lower than the ones observed among children within the intervention group. However, the lack of impact of exclusive breastfeeding rates equal to or higher than four months old may be justified by some hypothesis. It is possible that, from four months old on, the frequency of pediatric visits decreased, reducing thus the impact of the guidance by health professionals in the quality of this practice. Unfortunately, this hypothesis cannot be confirmed by this study, since the data collection include only the quantity of consultations taken in the first six months of life, without specifying at what age these visits happened.

The second hypothesis is that the health professionals, when observing that the mother was committed into exclusive breastfeeding, would cease reinforcing the importance of continuing with the practice. And as a third hypothesis, it could be considered that the return of the
mother to work would keep them from continuing exclusive breastfeeding from four months old on, however, this is considered a poor assumption, once that, in this group, only 33% of the pregnant women reported working outside their homes and that, among those, only 5.5% of them were in maternity leave (data not shown). Besides that, a previous study has shown a great impact by the intervention carried out through household visits in the increase of prevalence of children exclusively breastfed until four months of age and breastfed until six months of age. Another hypothesis yet would be the high turnover of health professionals in the USs, considering that, after a few months, the staff that received the intervention might not be working in the same places any longer. A study in the countryside of Pernambuco, including the services provided by the Iniciativa Hospital Amigo da Criança (IHAC) and the intervention through household visits, in addition to another study on systematic review in order to evaluate effective programs in the promotion of maternal breastfeeding, got to the conclusion that combined actions strategies are necessary, involving prenatal, hospital and community care for the effective promotion of maternal breastfeeding.

The highest prevalence of children who ate meat four times a week or more at age six to nine months in the intervention group was a result of the emphasis given to this practice during the recycling of the health professionals and in the material provided to the professionals to the mothers. The reason for this emphasis is the high prevalence of anemia in children from 6 to 24 months of age and the importance of providing high bioavailability iron from the introduction of the complementary diet in order not to deprive the child’s iron reservations, from six months of age on. It was also shown, from the qualitative study in Brazil, which came up with the food guide “Ten Steps for Healthy Feeding from Birth to Two Years of Age”, that mothers delay meat introduction for considering it a food of hard consistency and of difficult digestion during the first year of life.

The eighth step of the program “Ten Steps...” recommends that mothers avoid offering sugar, coffee, canned food, fried food, snacks, soft drinks and candies in the first two years of life. This guideline was reinforced among health professionals, as national data evidenced the early introduction of these foods to children. Thus, the intervention was effective in reducing the prevalence of breastfed children who consumed soft drinks, chocolate, petit suisse cheese and coffee. It is noteworthy, however, that the prevalences of children who consumed these foods, even in the intervention group, remained high. Observing the data regarding the intake of sugar, candies, jelly and stuffed cookies, it is possible to conclude that preventing this food habit in an early age is, yet, a great challenge. It is known that dietary preferences are determined within the first two or three years of life and that the early exposure to high energy density and sweet foods influence their consumption later on. Besides that, the intake of foods which are not recommended in the first year of life is associated to risk of severe cavities in preschool children. Thus, it is suggested that the strategies of intervention in order to change these harmful practices to the health of children are not limited to the assistance in primary care, but that they include responsibilities involving the whole society.

As for the limitations of this study, it is possible that the little time spent for each US, in which presencial discussions with the health professional took place, was a limiting factpr to the...
level of impact observed. However, the proposal was made according to the real administrative conditions of the HCC and of the demands for the routine of the Service. The priority was that the intervention would take place within all categories of HCC professional in the intervention group, as opposed to only those ones who would deal directly with the children in their first years of life. Another aspect which may be considered is the lack of control of children who received the guidance from the health professionals. The registering of the children was made with the mother in their last trimester of pregnancy, and not after each pediatric consultation. This way, the impact of the orientations may have been diluted because of mother who did not take their children to the HCC for the follow-up. Due to the multiplicity of the outcomes evaluated in this study, another potential limitation is the chance that some results may have occurred by chance. However, due to the fact that the hypothesis were defined a priori, that the results are biologically plausible and that the impact on the breastfeeding practice is consisting with previous findings\textsuperscript{15}, we believe this is a remote possibility.

It has been shown that there is a need of qualifying health professionals, considering that the lack of information by the professionals\textsuperscript{27} and the difficulties in communication between professional and patient\textsuperscript{28} are among the main reasons related to weaning and to the early introduction of foods. Another randomized study has also shown that the training of professionals in health units was effective in the improvement of outcomes related to nutrition in the first years of life\textsuperscript{29}. There are also evidences that dietary counseling to mothers improve the dietary habits of children under two years of age\textsuperscript{11,15,30-32}, that pediatricians recognize the need for trainings in order to improve communication with parents\textsuperscript{33} and that more efforts from health policies are needed for the trainings in the service\textsuperscript{34}. Besides that, the intervention model tested in the study meets the National Policy for Food and Nutrition published by the Ministry of Health\textsuperscript{13}, which reinforces the importance of investments in instruments and strategies of communication and health education that support health professionals in their role of socializing knowledge and information on food and nutrition and in the support of individuals in the decision, by promoting health practices.

Thus, the results of the present study allow us to conclude that the intervention promoted in the HCC was effective in order to increase the prevalence of children being exclusively breastfed in their three first months of life, increasing the prevalence of children who ate meat in the beginning of the complementary diet and reducing the intake of foods not recommended between 6 and 9 months of life. More studies are necessary in order to determine the impact of the intervention in the US which took part in the Family Health Strategy, where there is the presence of community health agents, who carry out household visits in the area of their units and bring information capable of dimensioning the main health problem of their given community.

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