







# Government-subsidized restaurants in Brazil: an evaluation within the framework of food and nutrition security

## *Restaurantes populares brasileiros: avaliação no âmbito da segurança alimentar e nutricional*

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### ABSTRACT

#### Objective

The objective was to evaluate government-subsidized restaurants in southern Brazil according to current regulations and the National Food and Nutrition Security Policy.

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Article elaborated from the thesis by J.T.C. OLIVEIRA, entitled “*Avaliação dos restaurantes populares no âmbito da segurança alimentar e nutricional*”. Universidade Federal de Santa Catarina; 2018.

Support: This research was funded by the *Secretaria Nacional de Segurança Alimentar e Nutricional* (SESAN, Food and Nutrition Security Department) / *Ministério do Desenvolvimento Social* (MDS, Ministry of Social Development). Public notice #01/2013.

#### How to cite this article

Oliveira JTC, Gabriel CG, Vasconcelos FAG, Machado ML, Soar C, Fagundes A. Government-subsidized restaurants in Brazil: an evaluation within the framework of food and nutrition security. *Rev Nutr.* 2020;33:e200085. <https://doi.org/10.1590/1678-9865202033e200085>

## Methods

An evaluation matrix was developed on the basis of a literature review, logic model, immersion in a government-subsidized restaurant, and workshops with experts in the field. The Government-Subsidized Restaurant Evaluation Matrix contemplates two dimensions: Political/Organizational, composed of the subdimensions Administration, Structure, and Target Groups; and Technical/Operational, composed of the subdimensions Meal Quality, Food and Nutrition Education, and Extended Social Support. Subdimensions comprised 24 indicators. Data were gathered through an online survey of the 35 government-subsidized restaurants operating in southern Brazil.

## Results

Of the 35 government-subsidized restaurants in southern Brazil, 86% (n=30) participated in the study. Meal Quality and Administration received the highest score in 73% and 60% of government-subsidized restaurants, respectively, whereas Food and Nutrition Education and Extended Social Support received the lowest score in 47% and 40%, respectively.

## Conclusion

Advances are needed in the understanding of government-subsidized restaurants as public facilities for ensuring food and nutrition security and the human right to adequate food.

**Keywords:** Food and nutrition security. Public policy. Restaurants.

## RESUMO

### Objetivo

*O objetivo do estudo foi avaliar os restaurantes populares da região Sul do Brasil utilizando como parâmetros as diretrizes e normativas em vigor e a Política Nacional de Segurança Alimentar e Nutricional.*

### Métodos

*Avaliação do tipo normativa. Para isso, foi utilizada a Matriz Avaliativa elaborada por meio das seguintes etapas: revisão sistematizada; elaboração do Modelo Teórico-Lógico; processo de imersão em um restaurante popular e oficinas de consenso com especialistas na temática. A matriz avaliativa contempla duas dimensões: Político-Organizacional, organizada nas subdimensões Administração, Estrutura e Público Freqüentador; e Técnico-Operacional, organizada nas subdimensões Alimentação Adequada, Educação Alimentar e Nutricional e Assistência Ampliada ao Usuário. Foram elencados 24 indicadores, coletados por meio de questionário online respondido pelos gestores dos restaurantes.*

### Resultados

*Dos 35 restaurantes existentes na região Sul, 86% (30) participaram da pesquisa. As subdimensões mais bem avaliadas foram Alimentação Adequada e Administração, com 70% e 63% dos restaurantes avaliados como "bom", respectivamente. As subdimensões com piores avaliações foram Educação Alimentar e Nutricional e Assistência Ampliada ao Usuário, com 47% e 40% dos restaurantes classificados como "ruim", respectivamente.*

### Conclusão

*Destaca-se a boa avaliação dos itens referentes à administração, estrutura e ao processo de produção de refeições, em detrimento aos aspectos relacionados à garantia dos direitos dos usuários.*

**Palavras-chave:** Segurança alimentar e nutricional. Política pública. Restaurantes.

## INTRODUCTION

Food insecurity, or the lack of access to adequate food, reduced from 18.6% in 1990-1992 to 10.9% in 2014-2016, reflecting a significant decrease in the number of people suffering from hunger worldwide. Nevertheless, despite advances in the global fight against hunger and malnutrition, it is estimated that 821 million people still suffer from such conditions [1]. Throughout history, various initiatives have been implemented to provide free or low-cost meals for vulnerable populations. For

instance, Canada provides free food for low-income and food-insecure people [2]. In the United States of America, soup kitchens target people experiencing homelessness [3], and in Spain, soup kitchens target those experiencing food insecurity [4]. In Mexico, community kitchens have been proposed as a strategy to improve the social conditions and food security of no-income, marginalized people [5]. In Peru, community kitchens provide subsidized meals for low-income people as part of a national economic and nutritional development program [6]. Such initiatives have different levels of stability; some are established based on public policies, whereas others are temporary programs to aid specific groups. These efforts are designed to reduce social and economic inequality by providing access to sufficient amounts of nutritious food [7].

In Brazil, Government-Subsidized Restaurants (GSR) emerged in the 1930s to support social security contributors. In 2003, GSR were included in the national program Zero Hunger [8]. From 2006, with the Organic Law of Food and Nutrition Security (LOSAN), some food and nutrition public programs, such as GSR and Food Banks, became essential strategies for fulfilling the human right to adequate food [7]. Therefore, Brazilian GSR are not isolated strategies; instead, they are part of complex and comprehensive public policies that integrate the Brazilian National Food and Nutrition Security Policy (PNSAN) [9]. GSR aim to increase the offer of healthy meals at affordable prices to food-insecure individuals with low purchasing power, in addition to being multipurpose spaces for social development activities and generation of employment and income, thereby strengthening citizenship [10].

Because GSR are valuable tools for improving food and nutrition security indices [8], it is crucial to evaluate and monitor their quality and results for the population [11]. Few studies have evaluated GSR as strategies to promote food and nutrition security and the right to food, characterizing a research gap [11,12]. Data indicate that 22.6% of Brazilian households experienced some degree of food insecurity in 2014 [13]. The country ranks 79<sup>th</sup> in Human Development Index (HDI) among the 188 countries listed. Among Mercosur countries, Brazil occupies the penultimate position, ranking higher than Paraguay only. Brazil's inequality is higher than the Latin American average, according to the inequality-adjusted Human Development Index score. These indices justify the importance of studies focused on improving and expanding food and nutrition security strategies, such as GSR, and the health conditions of the population. The aim of this study was to evaluate GSR in southern Brazil.

## **METHODS**

In this cross-sectional study, we assessed the performance of GSR in southern Brazil using, as parameters, the guidelines and regulations in force and the National Food and Nutrition Security Policy [10,11]. The number of GSR was obtained from the Brazilian Institute of Geography and Statistics and the 2015 Food and Nutrition Security Survey [9,13]. The sample included all 35 GSR in operation in the states of *Paraná*, *Santa Catarina*, and *Rio Grande do Sul* (Southern Brazil) in October 2017.

Detailed information on the development of the evaluation matrix is presented elsewhere [11]. Briefly, the matrix was elaborated in six stages: (1) systematic review of the literature; (2) immersion experience; (3) construction of the preliminary theoretical-logical model; (4) consensus workshops using the committee technique; (5) elaboration of the evaluation matrix; and (6) consensus with specialists in the field and in the implementation and management of GSR. Among the advantages

of immersion, the researchers highlight the possibility of comparing theoretical data with reality, as well as visualizing unexpected facts. From the immersion, it was possible to verify whether the theoretical-logical model and the evaluation matrix presented the appropriate similarity with the object of study [11].

The matrix contemplates two dimensions: Political/Organizational, with the subdimensions Management and Structure and Target Public; and Technical/Operational, comprising the subdimensions Adequate Food, Food and Nutrition Education, and Extended Public Assistance. Twenty-four indicators and 29 measures were listed [11]. Table 1 shows the dimensions, subdimensions, and indicators of the Government-Subsidized Restaurant Evaluation Matrix and their scoring criteria.

Questions were formulated to address each indicator of the Government-Subsidized Restaurant Evaluation Matrix. The possible answers to each question were "good", "fair", or "poor" (Table 2). This method of classification is standard in the field of health care research [5]. Data collection was performed from October to December 2017.

Data were subjected to absolute and relative frequency distribution analysis. All indicators were attributed the same weight. Variables classified as good by participants were attributed a score of 10, those ranked as fair were attributed a score of 5, and those classified as poor were given a score of 0. The indicator score is the mean score of its respective variables, the subdimension score is the mean score of its indicators, and the dimension score is the mean score of its subdimensions. Indicator, subdimension, dimension, and overall scores were categorized as good when above 7.0, fair when between 7.0 and 5.0, and poor when below 5.0 [5]. All participants signed an informed consent form. This study was approved by the Human Research Ethics Committee of the Federal University of *Santa Catarina*, Brazil (protocol 1.160.850).

## RESULTS

Of the 35 GSR in operation in Southern Brazil, 30 (86%) answered the questionnaire: 4 (100%) from *Santa Catarina*, 12 (83%) from *Rio Grande do Sul*, and 15 (79%) from Paraná. In total, 57% of the GSR were under municipal management, 30% under outsourced management, and 13% under a mixed management system. The majority of respondents were technically responsible dietitians or nutritionists (47%), followed by coordinators (17%), managers (13%), and contract inspectors (10%). Most GSR (73%) were created between 2003 and 2010; of these, the majority (43%) was inaugurated between 2003 and 2006. In total, 40% of the GSR had a good overall score (Table 2).

Indicator and subdimension scores are presented in Table 2. The highest-ranked indicator was Financial Resources (I3), on which 100% of GSR received a good score, followed by Location (I8) (97%), Food Safety (I14) (93%), and Physical Structure (I9) (90%). The worst-performing indicators were Maintenance (I10), on which none of the GSR ranked as good, followed by Socialization Activities (I22) (7%) and Availability (I1) (10%).

Among the indicators of the subdimension Administration (S1), the highest scores were recorded for Financial Resources (I3), with 100% of the GSR classified as good, and Quality Assessment and Monitoring (I7), with 87% of good scores. The worst indicator was Articulation with other Food and Nutrition Security Programs (I5), on which 40% of the establishments had poor performance (Table 2).

**Table 1.** Scoring table for evaluation of government-subsidized restaurants within the framework of food and nutrition security policies. *Florianópolis (SC), Brazil, 2020.*

Dimension	Subdimension/Indicator	Score					
		Indicator	Subdimension	Dimension	Overall		
D1. Political/ Organizational	S1. Management		Mean of indicator scores: 10-7= good 7-5= fair 5-0= poor	Mean of subdimension scores: 10-7= good 7-5= fair 5-0= poor	Mean of dimension scores: 10-7= good 7-5= fair 5-0= poor		
	I1. Availability	10= good 5= fair 0= poor					
	I2. Human Resources						
	I3. Financial Resources						
	I4. Meal Price						
	I5. Articulation with other Food and Nutrition Security Programs	10= good 0= poor					
	I6. Waste Management	10= good 5= fair 0= poor					
	I7. Quality Assessment and Monitoring	10= good 0= poor					
	S2. Structure		Mean of indicator scores: 10-7= good 7-5= fair 5-0= poor				
	I8. Location	10= good 0= poor					
	I9. Physical Structure	10= good 5= fair 0 = poor					
	I10. Maintenance	10= good 0= poor					
	S3. Target Groups		Mean of indicator scores: 10-7= good 7-5= fair 5-0= poor				
	I11. Users	10= good 0= poor					
	I12. Prioritization of Specific Populations						
	D2. Technical/ Operational	S4. Meal Quality				Mean of indicator scores: 10-7= good 7-5= fair 5-0= poor	Mean of subdimension scores: 10-7= good 7-5= fair 5-0= poor
		I13. Menu Planning	10= good 5= fair 0= poor				
I14. Food Safety		10= good 0= poor					
I15. Regional Foods and Recipes		10= good 5= fair 0= poor					
I16. Preference for Family-Grown Ingredients							
I17. Number of Meals Served		10= good 0 = poor					
I18. User Satisfaction		10= good 5= fair 0= poor					
S5. Food and Nutrition Education			Indicator score: 10-7= good 7-5= fair 5-0= poor				
I19. Education in Food and Nutrition and Food Security		10= good 5= fair 0= poor					
S6. Extended Social Support			Mean of indicator scores: 10-7= good 7-5= fair 5-0= poor				
I20. Promotion of other Social Assistance Initiatives		10= good 0= poor					
I21. Local Food and Nutrition Security Index							
I22. Socialization Activities		10= good 5= fair 0= poor					
I23. Intersectoral Actions		10= good 0= poor					
I24. Visibility of the Government- Subsidized Restaurants							

Note: D: Dimension; S: Subdimension; I: Indicator. Example: S1: Subdimension 1.

**Table 2.** Distribution of government-subsidized restaurants in southern Brazil according to their scores in the subdimensions and indicators of the Government-Subsidized Restaurant Evaluation Matrix. *Florianópolis* (SC), Brazil, 2020.

Subdimension/Indicator	Score category		
	Good (%)	Fair (%)	Poor (%)
S1. Management	63	30	7
I1. Availability	10	90	0
I2. Human Resources	37	50	13
I3. Financial Resources	100	0	0
I4. Meal Price	33	50	17
I5. Articulation with other Food and Nutrition Security Programs	60	0	40
I6. Waste Management	70	10	20
I7. Quality Assessment and Monitoring	87	0	13
S2. Structure	0	97	3
I8. Location	97	0	3
I9. Physical Structure	90	10	0
I10. Maintenance	0	0	100
S3. Target Groups	43	30	27
I11. Users	43	0	57
I12. Prioritization of Specific Populations	73	0	27
S4. Meal Quality	70	27	3
I13. Menu Planning	80	20	0
I14. Food Safety	93	0	7
I15. Regional Foods and Recipes	83	10	7
I16. Preference for Family-Grown Ingredients	70	0	30
I17. Number of Meals Served	90	0	10
I18. User Satisfaction	20	7	73
S5. Food and Nutrition Education	37	16	47
I19. Education in Food and Nutrition and Food Security	37	17	47
S6. Extended Social Support	13	47	40
I20. Promotion of other Social Assistance Initiatives	67	0	33
I21. Local Food and Nutrition Security Index	37	0	63
I22. Socialization Activities	7	3	90
I23. Intersectoral Actions	63	0	37
I24. Visibility of the Government-Subsidized Restaurants	73	0	27

Note: D: Dimension; S: Subdimension; I: Indicator. Example: S1: Subdimension 1.

The Structure (S2) subdimension had a high number of GSR ranked as good on two of the three indicators. Location (I8) and Physical structure (I9) received good scores in 97% and 90% of the GSR, respectively. However, 100% of the GSR had a poor score on Maintenance (I10), the third indicator (Table 2). The subdimension Target groups (S3) is composed of two indicators, Prioritization of Specific Populations (I12), on which 73% of the GSR had a good score, and Users (I11), on which 57% of the establishments had a poor score (Table 2).

In the subdimension Meal quality (S4), 90% of the GSR ranked good for Food Safety (I14) (93%) and Number of Meals Served (I17) (90%). The indicator with the worst score was User Satisfaction (I18); 73% of the establishments received a poor score (Table 2). The subdimension Food and Nutrition Education (S5) has only one indicator, Education in Food and Nutrition and Food Security (I19). This indicator was ranked as good in 37% of the GSR, fair in 16%, and poor in 47% (Table 2). The subdimension Extended Social Support (S6) achieved high scores because of the indicator Visibility of Government-Subsidized Restaurants (I24), classified as good in 73% of GSR. The lowest-scoring indicator was Socialization Activities (I22), on which 90% of the GSR had a poor score (Table 2).

Overall, 70% or more of the GSR had a good score on 50% of the indicators and a poor score on only 6.7% of the indicators. The highest-ranked subdimensions were Administration (S1) and Meal Quality (S4), on which the percentage of GSR evaluated as good amounted to 63% and 70%, respectively. The lowest-scoring subdimensions were Food and Nutrition Education (S5) (47% of poor scores) and Extended Social Support (S6) (40% of poor scores) (Table 2).

## DISCUSSION

Government-Subsidized Restaurants and similar food programs are aimed at minimizing inequality in access to food. Although they may not immediately and profoundly change the social conditions of their users [7], GSR are a necessary and crucial part of the daily lives of many. In Brazil, despite advances in policies and programs aimed at reducing social inequalities, hunger and food and nutrition insecurity are pervasive problems. Research has shown that these conditions are strongly associated with socioeconomic status, level of education, and place of residence [14]. GSR in Brazil and other countries are designed to deal with social vulnerability and socioeconomic problems specific to the region.

Among the GSR evaluated in this study, 40% outsourced management or had a mixed management system. Research on the outsourcing of public services to private and third sector organizations, although incipient, is important to understand the effects of this form of privatization on the quality of public services. Regulation on GSR defines that, if food production is outsourced, the government must monitor service quality and meal price [10]. Further research on the effects of the management system on the quality of GSR is needed.

Most GSR were inaugurated between 2003 and 2010, a period in which the government was concerned about programs aimed at increasing food access and agriculture production [8]. The intersectionality between GSR and public food procurement valorized family agriculture through the purchase of local, family-grown ingredients. GSR have the potential to strengthen food production and culture, encourage agroecological management practices, preserve regional biodiversity, and stimulate the local economy [10].

Government-Subsidized Restaurants scored highest on the subdimensions Management (S1) and Meal Quality (S4), confirming their potential to ensure adequate food for their users, many of which depend entirely on these spaces to have at least one full meal a day [5]. A study conducted with 374 users of 8 community kitchens in Lima, Peru, highlighted the importance of ensuring the nutritional adequacy of meals. Because target population groups include people experiencing different levels of poverty and food insecurity, meals must contribute to meeting the daily nutritional requirements of users [15].

Extended Social Support (S6) and Food and Nutrition Education (S5) received the worst scores, indicating the limitation of GSR in promoting emancipation through the exercise of a right. As public facilities of food and nutrition security, GSR should go beyond welfarism and provision of a balanced, affordable meal [7]. These spaces must minimize the harmful effects of food insecurity and allow vulnerable groups to exercise their citizenship [16].

It is known that financial resources are needed to maintain high-quality social programs and meet the demands of the population [7]. All GSR scored high on the indicator Financial Resources (I3); managers reported that the programs have received a sufficient amount of resources since their implementation. However, the reality of southern Brazil is not necessarily the same as that

of other regions of the country. Only 13.5% of Brazilian municipalities claim to have sufficient resources to maintain PNSAN public facilities [17]. As there is no direct transfer of federal resources to these programs, only decentralized resource allocation [17], the results suggest a great interest and commitment of municipalities in maintaining GSR with their resources. In other countries, as in the case of Mexico, food programs require resources from the federal government and, facing insufficient support, they may be temporarily closed [18]. As a strategy to achieve financial stability, Peruvian food programs were decentralized. Now, community kitchens in Peru are financed exclusively by municipal or state bodies [15,19].

Most GSR scored high on the Prioritization of Specific Populations (I12), indicating improved access of the most vulnerable population groups to adequate food. As a public facility of food and nutrition security, GSR are not only seen as food-producing units but also as strategies to ensure the right to adequate meals. The performance of GSR is not only related to low price or good meal quality but also to their guaranteed continuity, high coverage, and interaction with other PNSAN programs [7]. In Canada, the intersectionality of community food programs with food banks, soup kitchens, and social care services is evidence of the understanding of food and nutrition insecurity as a complex, multicultural, and socioeconomic challenge. Accordingly, these programs use cross-sectoral partnerships to help ensure the social, cultural, financial, and health equity of the population [2].

Some studies assessed household food insecurity in GSR users using the Brazilian Scale of Food Insecurity (EBIA) [20,21]. However, to effectively evaluate GSR as food and nutrition security facilities, several dimensions of different socio-organizational levels need to be analyzed. Researchers have suggested using the EBIA scale in conjunction with other indicators to expand evaluation beyond household variables in analyzing access to food [22]. GSR are also aimed at improving the health of users. Therefore, it is significant to monitor the impact of meals on users' health, assess whether resources are adequately managed, and determine the impact of the program on the lives of vulnerable people, especially in times of increasing poverty [22].

Local Food and Nutrition Security Index (I21) and User Satisfaction (I24) received low scores. These data suggest that GSR do not appropriately assess and monitor their performance. Monitoring indicators is of great importance because it allows to understand the adjustments needed to improve service quality [5]. Balam-Gómez *et al.* [18] interviewed 177 users and 41 workers of three community kitchens in Mexico in 2011 and observed that the programs lacked the technical and methodological tools to estimate their contribution to improving the food security of users. Another Mexican study, evaluating three community kitchens with 395 users in 2016, reported that 50% of users experienced low levels of food insecurity. However, the authors observed that the programs did not perform an initial assessment of the level of food security of first-time users, which makes it impossible to determine the efficiency of the program in improving food security levels [5].

The users' view and opinion of the GSR is an important measure of effectiveness. A study interviewing 95 users of three community kitchens in Mexico showed that most users (90%) were not evaluated for weight, nutrition status, or health, nor were they asked about the program or its impact on their lives [21]. The participation of users in the planning, monitoring, and evaluation of GSR allows for knowledge-based decision making and feedback on quality [21].

Social protection systems are essential tools in the fight against hunger. Their efficiency in promoting health, education, nutrition, and autonomy, however, depends on the involvement of different sectors of the government and society [5]. Intersectionality is a central element of PNSAN; it



relies on a strong association between different public policies and government sectors to guarantee the human right to food [5,23]. For some GSR, cross-sectoral partnerships promoted the development of the local community by generating employment and stimulating local agricultural production [24].

However, the Articulation with other Food and Nutrition Security Programs indicator (I5), identified 40% of establishments with poor performance. The intersectionality of the GSR contemplate actions related to the production, commercialization, supply, access and consumption of food. GSR incorporate all these actions on a daily basis, from the acquisition of food produced in family-based farming systems to the correct use of their organic waste [11]. An important example is the interaction between the GRS and the Food Acquisition Program, integrating two important populations: the users of the GRS and the producers of family farming. This relationship directly fosters important focuses of social policy, namely, social development, encouraging family farming and access to quality food for the most vulnerable individuals. It also contributes to generating jobs in the countryside, reducing the rural exodus and the poverty rate in the rural population [25].

Intersectionality can also be guaranteed through food and nutrition education actions that encourage users to have healthy eating habits and exercise their citizenship and their right to food [7]. However, in the analyzed GSR, a low frequency of educational actions was observed. Such actions could promote health and healthy eating habits in various population groups [7]. Education actions that take into consideration the socioeconomic status of users can help build bonds through learning [11]. A study carried out with 123 users of Peruvian community kitchens between 2004 and 2005 highlighted that food assistance programs should be used to introduce interventions aimed at improving the eating habits of users by teaching cooking skills and food and nutritional quality information [5].

Moreover, food and nutrition education can reinforce the human right to food. Knowledge and awareness of this right by the general population might help change the image of GSR and similar public policies and increase the access of people to a dignified life, without restrictions [12,16,26,27]. According to Buttorff *et al.*, GSR in low-income municipalities should be a place for food and nutrition education as part of a broader strategy to combat lifestyle-related diseases [6].

We emphasize the need to adapt Brazilian regulations on GSR to PNSAN and the reality of small municipalities. Most GSR were located in small municipalities and thus were not able to comply with guidelines aimed at metropolises. More efficient decentralization mechanisms are needed to incorporate GSR into municipal frameworks.

Advances in evaluation methods that consider food security as the basis of GSR are needed. Through efficient monitoring, it is possible to ensure that the program achieves its objectives more efficiently and effectively [5]. By considering GSR as an intersectoral element of PNSAN, decision-makers can use them as effective tools to fulfill the right to food [5].

## CONCLUSION

Government-Subsidized Restaurants in southern Brazil are important elements of PNSAN and play a crucial role in ensuring food and nutrition security and the right to food to vulnerable populations. Almost all GSR in operation in southern Brazil participated in this study and scored high on variables related to management, structure, and meal quality. However, unsatisfactory results were obtained regarding indicators that define GSR as welfare programs and public facilities of food

security. Greater awareness is needed on the important role of these programs as well as efficient monitoring tools to evaluate (and increase) the potential of GSR in fulfilling the right to food.

As a limitation of this study, we highlight its regional character, since only the GSR located in southern Brazil, comprising three states, were evaluated. However, as the evaluation matrix is flexible, it can be successfully applied in other regions of the country. Other variables and indicators can be incorporated to adapt the tool to the context of each GSR. Thus, our results may stimulate the evaluation of other establishments.

The normative evaluation is based on the strong relationship between respect for the criteria and norms chosen and the real effects of the program. Therefore, the potential of this evaluation is to identify activities and actions that can be improved on the intervention, optimizing and improving it. However, it may present itself as a limitation in this study, due to the aforementioned outdated of existing regulations.

This study presents current and relevant data that can be useful to other countries with similar programs, especially those with a large number of people experiencing vulnerability. Each country, according to the local context, must evaluate and improve these public facilities to expand their potential to fulfill the human right to adequate food.

## CONTRIBUTORS

JTC OLIVEIRA participated in the conception, design, analysis, interpretation of data, and writing the article. CG GABRIEL, ML MACHADO, C SOAR, and A FAGUNDES participated in the conception, design, review, and final approval of the article. FAG VASCONCELOS participated in the conception, review, and final approval of the article.

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Received: May 4, 2020  
Final version: July 2, 2020  
Approved: August 18, 2020