Percepções de indivíduos sobre o ato de cozinhar no ambiente doméstico: Revisão integrativa de estudos qualitativos


Published in:
Ciencia e Saude Coletiva

Document Version:
Publisher's PDF, also known as Version of record

Queen's University Belfast - Research Portal:
Link to publication record in Queen's University Belfast Research Portal

Publisher rights
Copyright 2020 the authors.
This is an open access article published under a Creative Commons Attribution License (https://creativecommons.org/licenses/by/4.0/), which permits unrestricted use, distribution and reproduction in any medium, provided the author and source are cited.

General rights
Copyright for the publications made accessible via the Queen's University Belfast Research Portal is retained by the author(s) and / or other copyright owners and it is a condition of accessing these publications that users recognise and abide by the legal requirements associated with these rights.

Take down policy
The Research Portal is Queen's institutional repository that provides access to Queen's research output. Every effort has been made to ensure that content in the Research Portal does not infringe any person's rights, or applicable UK laws. If you discover content in the Research Portal that you believe breaches copyright or violates any law, please contact openaccess@qub.ac.uk.

Open Access
This research has been made openly available by Queen's academics and its Open Research team. We would love to hear how access to this research benefits you. – Share your feedback with us: http://go.qub.ac.uk/oa-feedback
Reprints

Perceptions about home cooking: an integrative review of qualitative studies

Abstract  This study aimed to review qualitative studies on perceptions of home cooking. A systematic search was conducted in Scopus and SciELO databases using English and Portuguese terms related to home cooking, without date or language restrictions. Twenty-six articles, published between 2004 and 2017, investigated, whether as a primary objective or as a secondary finding, the perceptions of individuals on home cooking. More than half of the studies were conducted in English-speaking countries. Study participants included women and men, adults and seniors as well as residents of urban and rural areas, Eastern and Western countries, and developing and developed nations. Thematic analysis showed that home cooking has different interpretations and meanings in diverse contexts and revealed differences in how individuals plan and cook their meals at home. Cognitive, practical, affective, and emotional factors are the major motivators to home meal preparation. Having a cooking role model in the family, cooking confidence and skills, and living alone were reported as facilitators of home cooking. A better understanding of the heterogeneity of perceptions and meanings of home cooking can contribute to the development of effective and culturally appropriate interventions for stimulating healthy cooking habits.

Key words  Meal, Qualitative research, Review, Cooking
Introduction

The eating habits of Western urban societies have been constantly changing. Since the mid-20th century, individuals have devoted less time to home meal preparation. This reduction in home cooking is believed to be associated with the increasing unhealthy food choices made by modern society.

Strategies aimed at encouraging home cooking and increasing the nutritional quality of diets are gaining visibility. In Brazil, two important guidelines were published to encourage healthy eating habits. The Food and Nutrition Education Guidelines for Public Policies states that “home cooking promotes personal emancipation, develops autonomy, and contributes to sensory, cognitive, and social growth” (p.68). The Food Guide for the Brazilian Population is a comprehensive guide on healthy eating. It recommends the use of “raw and minimally processed foods as opposed to ultra-processed foods”. Minimally processed foods are raw foods that have undergone industrial processes, but do not involve the addition of salt, sugar, oils, fats or other substances. Ultra-processed foods are products subjected to different processing steps and techniques and with many ingredients, such as salt, sugar, fats and substances for exclusively industrial use.

Generally, raw and minimally processed foods need to be selected, pre-prepared, seasoned, cooked, and/or combined with other foods. To follow these important health recommendations, individuals must resort to cooking. Schools and communities around the world have taken to strategies aimed at teaching cooking skills and promoting cooking habits.

Research on cooking (and all its complexities), however, is still incipient. Short highlighted that there is no clear relationship between knowing how to cook and cooking at home. Meah and Watson argued that it is necessary to understand the processes involved in meal preparation and the dynamics of developing the habit of cooking. In addition, Halkier argues that the act of cooking must be understood as a phenomenon composed of variability and subtleties and that without this understanding there is a risk that researchers and policy-makers may act in a simplistic way, conducting normative and unrealistic initiatives, underestimating the complexity of cooking.

The qualitative approach is recommended to understand a given phenomenon and the perception of individuals about the topic, including their feelings, thoughts, and experiences. Thus, the aim of this study was to perform a systematic review of qualitative studies on home cooking.

Methods

The qualitative systematic review was conducted in the following steps: formulation of the guiding question, identification of inclusion criteria, data collection and treatment, data analysis, discussion of results, and critical review.

The guiding question was: “What do qualitative studies reveal about individuals’ perceptions of home cooking?” Search terms were derived from Medical Subject Headings (MeSH), Health Sciences Descriptors (DeCS), and articles identified in a preliminary search of the literature. Additionally, before the final definition of the search terms, exploratory searches were carried out in order to identify key words used in the articles and thus compose the groups of terms as shown in Chart 1.

The search in English and Portuguese was carried out on January 9, 2017, and updated on May 18, 2018, using Scopus and SciELO, without date or language restrictions. Scopus was chosen because it is the largest abstract and citation database of peer-reviewed literature. SciELO was used to increase coverage of Brazilian studies. The Scopus database was searched for terms in English within the fields title, abstract, and key words. Terms related to cooking equipment and environmental sustainability were excluded using the Boolean operator AND NOT. The SciELO database was searched for terms in Portuguese and English. Because of the small number of records identified, it was not necessary to use two categories of search words, and only terms related to home cooking and the other to qualitative research. Terms related to cooking equipment and environmental sustainability were excluded using the Boolean operator AND NOT.

The articles were selected based on the following inclusion criteria: article published in a peer-reviewed journal; full-text for access; study with a qualitative approach; results related to home cooking and the other to qualitative research. Terms related to cooking equipment and environmental sustainability were excluded using the Boolean operator AND NOT.

The articles were selected based on the following inclusion criteria: article published in a peer-reviewed journal; full-text for access; study with a qualitative approach; results related to home cooking and the other to qualitative research. Terms related to cooking equipment and environmental sustainability were excluded using the Boolean operator AND NOT.

In total, 476 articles were identified through database searching and imported into a reference manager. Of these, 50 were selected based on titles and abstracts. After reading the articles in full, 24 were excluded: 10 for adopting a quantitative approach although they used terms that referred to qualitative research such as perception or meanings, 10 for focusing on foods and nu-
Chart 1. Search strategy used in the study.

<table>
<thead>
<tr>
<th>Category</th>
<th>Search strategy</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Home cooking</strong></td>
<td>MeSH descriptors: cooking, food handling, meal</td>
</tr>
<tr>
<td></td>
<td>MeSH keywords: cook* behav*; cook* from scratch; cook* practices; cook* habits; cook* experience; cook* skills; domestic cook*; home cook*; home food prep*; domestic food; homemade food; food skills; homemade meal; home meal prep*; home prepared meal; home prod* meal; kitchen practices; foodwork; food agency; culinary</td>
</tr>
<tr>
<td></td>
<td>DeCS (Portuguese): Culinária</td>
</tr>
<tr>
<td></td>
<td>DeCS keywords (Portuguese): cozinha; refeição; comida caseira</td>
</tr>
<tr>
<td><strong>Qualitative</strong></td>
<td>MeSH descriptors: qualitative research; focus group; health knowledge, attitudes, practice</td>
</tr>
<tr>
<td><strong>research</strong></td>
<td>MeSH keywords: qualitative; semi-structured interview; in depth interview; narrative interview; life course perspective; life course interview; open ended interview; ethnography; focus groups; perception; meaning; belief; motivat*; benefit; barrier; enjoyment; involvement; pleasure; emotion; identit*</td>
</tr>
</tbody>
</table>

Source: the authors.

Home cooking was the main topic of research in 14 studies and a secondary finding in 12 studies.

We identified three major themes in cooking perception research: Meanings and interpretations of the act of cooking; Motivations for cooking; Facilitators and barriers to cooking.

**Meanings and interpretations of the act of cooking**

Four studies analyzed the different interpretations of cooking\(^{18,22,24}\). Two assessed participants’ understanding of the terms “home cooking”\(^{22}\) and “cooking from scratch”\(^{23,25}\). And the other two highlighted differences in planning, organizing, and carrying out cooking tasks\(^{18,22}\).

In United States, Wolfson et al.\(^{24}\) explored how individuals define home cooking. Definitions varied from “everything from scratch” to “anything prepared at home” (including ready-to-eat foods, frozen meals, etc.).

Lavelle et al.\(^{23}\), in a study carried out in Northern Ireland and the Republic of Ireland, identified the different meanings of cooking from scratch. Participants’ views ranged from a more traditional definition (using raw ingredients) to a more inclusive meaning (using pre-prepared, frozen foods like frozen fish fillets)\(^{23}\). Thus, in both studies there is a variety in the understand-
ing and definition of terms related to cooking, ranging from more restrictive versions to more comprehensive versions\textsuperscript{23,24}.

The great variety of perceptions about cooking identified in both studies mentioned above is corroborated by the results of Gatley\textsuperscript{22}. According to the author, a person’s understanding of cooking depends largely on the context in which she or he is inserted. The author assessed the cooking behavior and experiences of women and men in France and Great Britain. Respondents were asked to report what types of foods they prepared at home. Almost half of the British respondents reported to use convenience or ready-to-eat foods, whereas French participants reported using pre-prepared items for quick meal preparation; none, however, reported to use convenience foods, with the exception of pizza for children\textsuperscript{22}.

Halkier\textsuperscript{18} showed that individuals have different ways of planning and preparing meals. The author assessed the cooking practices of six women, aged 25 to 50 years, living in six different regions of Denmark, and with different family structures and levels of education. Different cooking styles were observed. Cooking required extensive planning for some women but came naturally to others. Ingredients were purchased based on predefined recipes or without planning, for improvisation. Knowledge of cooking was gained as a child/adolescent or later in life out of necessity. For some women, written recipes were considered essential for meal preparation, and, for others, recipes were sources of inspiration that could be adapted according to personal preferences or availability of ingredients\textsuperscript{18}.

**Motivations for cooking**

Figure 2 shows the main motivators to home cooking identified in this review.

According to reports from the United States\textsuperscript{24,26,27}, United Kingdom\textsuperscript{22,28}, and North Ireland and Republic of Ireland\textsuperscript{23}, cooking allows people to have control over their and their families’ eating habits. For instance, Canadian parents that cook at home can control the type of foods that their children eat, fulfilling their role as “gatekeepers” of family nutrition\textsuperscript{29}.

For Brazilian\textsuperscript{30}, Canadian\textsuperscript{29,31}, American\textsuperscript{24,26,27,32}, and British\textsuperscript{33} individuals, home cooking can be used as a strategy to reduce food costs even with scarce food and financial resources, allowing greater control of the domestic budget.
Chart 2. Description of studies included in the qualitative systematic review of home cooking, ordered by year of publication.

<table>
<thead>
<tr>
<th>Authors (year), Country</th>
<th>Sample</th>
<th>Objectives</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Studies aimed at investigating participant’s perceptions of cooking (n = 14)</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Halkier (2009)&lt;sup&gt;18&lt;/sup&gt;, Denmark</td>
<td>Six women aged 25-50 years from diverse sociodemographic backgrounds</td>
<td>Discuss how women position themselves in relation to homemade meals</td>
</tr>
<tr>
<td>Engler-Stringer (2010)&lt;sup&gt;31&lt;/sup&gt;, Canada</td>
<td>22 low-income women aged 18-35 years</td>
<td>Elucidate social practices related to food preparation among women living in Montreal through analysis of their domestic foodscape</td>
</tr>
<tr>
<td>Meah and Watson (2011)&lt;sup&gt;17&lt;/sup&gt;, United Kingdom</td>
<td>Two generations of two families</td>
<td>Make visible memories of cooking and the meanings behind individual’s practices as they interact with foods and objects</td>
</tr>
<tr>
<td>Simmons and Chapman (2012)&lt;sup&gt;29&lt;/sup&gt;, Canada</td>
<td>22 socioeconomically diverse families</td>
<td>Explore parents’ and teens’ perspectives on the importance of being able to cook</td>
</tr>
<tr>
<td>Sharif et al. (2014)&lt;sup&gt;44&lt;/sup&gt;, Malaysia</td>
<td>Individuals participating in meal preparation during festive celebrations</td>
<td>Identify and recognize the means of cooking knowledge transfer to younger generations in Malaysia</td>
</tr>
<tr>
<td>Gatley et al. (2014)&lt;sup&gt;35&lt;/sup&gt;, France and United Kingdom</td>
<td>27 individuals aged 23-73 years</td>
<td>Explore cooking attitudes and behaviors in France and Great Britain</td>
</tr>
<tr>
<td>Jones et al. (2014)&lt;sup&gt;26&lt;/sup&gt;, United States</td>
<td>239 students from two universities, mostly women</td>
<td>Identify motivators and barriers to home meal preparation versus purchase of pre-prepared foods and eating out</td>
</tr>
<tr>
<td>Gram et al. (2015)&lt;sup&gt;43&lt;/sup&gt;, Denmark</td>
<td>75 students aged 18-25 years, mostly women</td>
<td>Examine how relational family identity is experienced by young university students in a period of transition from the family home</td>
</tr>
<tr>
<td>Neuman et al. (2015)&lt;sup&gt;38&lt;/sup&gt;, Sweden</td>
<td>31 Swedish men aged 22–88 years</td>
<td>Explore stories of Swedish men about cooking and foodwork as part of their everyday lives and how these relate to broader notions of food and gender equality</td>
</tr>
<tr>
<td>Gatley (2016)&lt;sup&gt;22&lt;/sup&gt;, France and United Kingdom</td>
<td>13 French and 14 British individuals</td>
<td>Explore the routine, daily experiences, and attitudes of people toward cooking and eating and compare the significance of culinary cultures in France and Great Britain</td>
</tr>
<tr>
<td>Lavelle et al. (2016)&lt;sup&gt;23&lt;/sup&gt;, Northern Ireland and Republic of Ireland</td>
<td>27 participants aged 18-58 years</td>
<td>Qualitatively investigate how individuals define “cooking from scratch” and the barriers and facilitators to cooking with basic ingredients</td>
</tr>
<tr>
<td>Wollson et al. (2016)&lt;sup&gt;33&lt;/sup&gt;, United States</td>
<td>53 participants (mostly women) from medium/high- and low-income communities</td>
<td>Examine adults’ perceptions of cooking</td>
</tr>
<tr>
<td>Bostic and McClain (2017)&lt;sup&gt;27&lt;/sup&gt;, United States</td>
<td>17 adults aged 60 and older</td>
<td>Explore the cooking experiences of older adults living in the USA</td>
</tr>
<tr>
<td>Mills et al. (2017)&lt;sup&gt;28&lt;/sup&gt;, United Kingdom</td>
<td>18 adults, mostly women</td>
<td>Study home cooking perceptions, experiences, and practices among adults in England</td>
</tr>
<tr>
<td><strong>Studies reporting findings on cooking perception (n = 12)</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Moisio et al. (2004)&lt;sup&gt;32&lt;/sup&gt;, United States</td>
<td>65 individuals aged 36-60 years</td>
<td>Examine the role of homemade food in the construction of family identity</td>
</tr>
<tr>
<td>Johnson et al. (2010)&lt;sup&gt;39&lt;/sup&gt;, United States</td>
<td>Seven women (26-42 years of age) with at least one child under the age of 18 living in the same household</td>
<td>Understand the matrilineal influence on family food choices</td>
</tr>
</tbody>
</table>

it continues
Chart 2. Description of studies included in the qualitative systematic review of home cooking, ordered by year of publication.

<table>
<thead>
<tr>
<th>Authors (year), Country</th>
<th>Sample</th>
<th>Objectives</th>
</tr>
</thead>
<tbody>
<tr>
<td>Diez-Garcia and Castro (2011), Brazil</td>
<td>30 medium- and low-income families with at least one case of hypertension</td>
<td>Understand the impacts of dietary restriction on family food habits and self-care</td>
</tr>
<tr>
<td>Meah and Jackson (2013), United Kingdom</td>
<td>Eight families (men and women, 17-92 years of age)</td>
<td>Explore the extent to which changes in cooking practices have led to a democratization of domesticity and signal greater gender equality</td>
</tr>
<tr>
<td>Szabo (2014), Canada</td>
<td>30 men (26-58 years of age) who do about half or more of the cooking in the household</td>
<td>Investigate gender dichotomies through the experiences of men with cooking responsibilities</td>
</tr>
<tr>
<td>Szabo (2014), Canada</td>
<td></td>
<td>Understand through qualitative investigations with men who have significant household cooking responsibilities how masculinities might be affected by changing gender roles around food</td>
</tr>
<tr>
<td>Liu (2016), China</td>
<td>Three couples</td>
<td>Examine spousal relationships through the analysis of daily foodwork</td>
</tr>
<tr>
<td>Machin et al. (2017), Uruguay</td>
<td>91 participants, mostly women</td>
<td>Identify barriers and facilitators to implementing the Uruguayan dietary guidelines</td>
</tr>
<tr>
<td>Lane et al. (2014), United Kingdom</td>
<td>40 women aged 65 years and older who reduced their contact with food-related tasks in later life</td>
<td>Understand the impact of reduced contact with foodwork on the meanings of food, social engagement, and well-being among older women</td>
</tr>
<tr>
<td>Parsons (2016), United Kingdom</td>
<td>75 respondents (27-85 years of age), mostly middle-income women</td>
<td>Demonstrate how everyday foodways are still influenced by the intersectionalities of gender and class</td>
</tr>
<tr>
<td>Bailey (2017), Holland</td>
<td>30 Indian immigrants living in Holland (25-50 years), mostly men</td>
<td>Examine eating practices and the relationships between food, belonging, commensality, and care</td>
</tr>
<tr>
<td>Hertz and Halkier (2017), Denmark</td>
<td>13 families with at least one child, most respondents were female</td>
<td>Understand how Danish families use meal box schemes in their everyday lives</td>
</tr>
</tbody>
</table>

Source: the authors.

Canadian individuals reported that cooking is a skill that can increase self-sufficiency and everyone should possess. Knowing how to cook is perceived as a sign of independence and responsibility for personal food habits.

Men and women from Canada, United States, United Kingdom, France and China believe that cooking allows individuals to connect with others, strengthen relationships, and express love and care.

British people often feel pleasure in cooking and enjoy the social aspect of the activity. It is considered a recreational activity that involves friends and family, especially on weekends. Americans reported that home cooking is motivated by the pleasure of devoting oneself to the activity. For men in Sweden and Canada, cooking is a leisure activity that allows for experimentation and expression of creativity.

American, British and French individuals defined the act of cooking as a priority activity and incorporated into the daily routine. Swedish men reported that cooking was essential to meet daily needs. British individuals, especially mothers, identified responsibility for providing their children with food as an important motivation for cooking.

Cooking is seen as a means of maintaining family and cultural traditions as well as creating new ones. In Unite States, some women maintained the cooking habits of their mothers, whereas others resented their heritage and sought new cooking experiences. American seniors reported that they took pride in prepar-
ing dishes that had been passed down through generations. Danish young adults changed their eating habits and tried to influence those of their parents after developing cooking skills. In an observational study carried out in Malaysia, cooking with family members, especially the mother, strengthens family bonds and allows gaining knowledge about cooking. In the Netherlands, Indian immigrants reported that cooking is a central part of the sense of belonging and helps to deal with being away from home. The use of traditional family ingredients and utensils increased their ties to the family.

Cooking facilitators and barriers

The facilitators and barriers to cooking reported in the selected studies are summarized in Figure 3. American, Canadian, Danish, and Irish individuals highlighted the importance of having a family member as a cooking role model. Halkier observed that some Danish women who had learned to cook in their childhood considered cooking to be a natural and simple task. In another study in Denmark, participants considered their parents as positive role models regarding meal planning and the use of vegetables and spices. On the other hand, young adults in the United States attributed their lack of confidence in cooking to the small number of meals prepared at home by their parents during their childhood.

Knowing how to cook and having confidence in this ability was reported as an important factor for home cooking in the United Kingdom, Ireland, United States, and Uruguay and, when lacking, as a barrier to cooking. Additionally, individuals pointed out that the ability to organize and plan meals, which includes planning what will be prepared, organizing time, buying food, preparing food and cleaning the environment also facilitate and favor the effective act of home cooking. As a strategy to optimize time, American individuals cook meals in large quantities, use leftovers, and prepare or process ingredients in advance.

![Figure 2. Motivators to home cooking identified through thematic analysis of selected studies.](image-url)

Source: the authors.
Figure 3. Facilitators and barriers to home cooking identified through thematic analysis of selected studies.

Source: the authors.
mally processed ingredients, whereas, for others, cooking can be carried out using highly- or ultra-processed foods. These results indicate that individuals have different understandings about what it means to cook. The distinction between high-complexity and low-complexity cooking tasks and cooking from raw and pre-prepared foods is not always clear.

Cognitive, practical, social, and emotional factors were among the main motivators to cooking. Therefore, strategies aimed at encouraging home cooking should take into account not only economic and cognitive motivations but also the affective components of cooking, for instance, by promoting cooking as a form of leisure and creativity expression.

Six facilitators and six barriers to cooking were identified, some of which were considered ambivalent, such as the presence or absence of a cooking role model in the family, confidence, and cooking skills. The results demonstrate the importance of having contact with people who cook and developing confidence and cooking skills. Further studies should seek to understand how cooking skills are acquired and how other factors, such as creative inspiration for cooking and meal planning, influence the choice of cooking at home. Broader concepts of cooking skills that go beyond technical and mechanical skills may need to be adopted.

Living alone was considered both a barrier and a facilitator to cooking. More information is needed to understand the motivations for (not) cooking of individuals who live alone.

Lack of time and interest were major barriers. The feeling of time pressure leads individuals to dedicate less time to preparing and consuming meals and may affect their interest in cooking. Author identified that individuals who enjoy cooking do not perceive lack of time as a barrier but spend more time cooking.

The cost of fresh food was identified as an important barrier to cooking in the domestic environment, reiterating the role of income and financial access as important determinants for food choices.

The different barriers identified confirm the understanding that the determinants related to the habit of cooking in the domestic environment are more complex than the presence of culinary skills.

The availability of pre-prepared foods contributes to home cooking. Pre-prepared foods can be classified as either minimally processed foods (e.g., canned peeled tomatoes) or ultra-processed foods (e.g., tomato sauce containing corn starch and food additives). The Food Guide for the Brazilian Population states that raw and minimally processed foods are part of a healthy diet but ultra-processed foods should be avoided. The degree of processing can only be determined by analyzing the ingredients list. Therefore, it is of utmost importance that consumers be able to understand food labels and have access to clear and reliable information, thereby allowing them to make informed food choices.

Because the availability of places to eat out and purchase convenience foods affects the choice of cooking at home, meal nutritional quality should be constantly monitored in food establishments. Consumers must have access to qualitative food information to aid in their away-from-home food choices.

This review included studies carried out at different times and regions of the globe and with diverse populations (for example: men and women; young and elderly adults; eastern and western countries; developed and developing countries; rural and urban area; etc.). Thus, the results are influenced by cultural, social, and historical factors. It was not the objective to analyze such differences, which may be regarded as a limitation of this review. However, the compilation allowed to demonstrate different perceptions related to the act of cooking, contributing to deepen the discussion on the theme.

Most studies were conducted in English-speaking countries that share historical, political, and cultural characteristics attributed to the influence of the United Kingdom. More information is needed on other populations, as the act of cooking is defined as a cultural practice and is influenced by the presence of multinational food industries and fast-food chains.

The predominance of articles published in English-speaking countries may be related to the importance of the English language to the dissemination of scientific research. As the terms used to search the databases were in Portuguese or English, it is likely that studies published in French, Italian, or Spanish without an English or Portuguese abstract were not identified.

The use of different terms helped to broaden the literature search. Qualitative research typically adopts a variety of concepts and terms to refer to a given topic. The goal was to include studies with different objectives and gain a global view of cooking perceptions. In many studies, home cooking was not the primary focus. Articles were read in full to identify, even when pre-
presented as secondary findings, aspects related to perceptions of cooking. This approach allowed to broaden the understanding of the act of cooking, discussing the motivations, influences and the way individuals relate to this practice.

The analysis of the selected articles led to reflections on possible issues that can be explored in new studies, in order to understand how the habit of cooking develops over the course of life, or even what motivations lead individuals who live alone to cook (or not). It would also be interesting to know the motivations and behavior of individuals who overcome time constraints and develop the habit of cooking.

This review indicates that interventions and strategies aimed at promoting home cooking can address not only cognitive and practical factors but also affective and emotional ones. A broader view of home cooking should be adopted, taking into account the importance of planning meals and cooking skills, the combined use of raw and pre-prepared foods, and the need for creative inspiration for cooking. Strategies that consider the cost of raw foods, lack of time and interest, and meal planning may be effective in stimulating participants to develop healthy cooking habits.
Collaborations

AC Mazzonetto contributed to the conception and design of the study, collected and analyzed the data, and wrote the manuscript. M Dean contributed to the study conception and design. GMR Fiates contributed to the study design, selection of articles, data collection and analysis, and critical review of the manuscript.

References

43. Gram M, Hogg M, Blichfeldt BS, MacLaran P. Inter-generational relationships and food consumption: The stories of young adults leaving home. Young Con- sum 2015; 16(1):71-84.
44. Sharif MSM, Zahari MSM, Nor NM, Muhammad R. How could the transfer of food knowledge be passed down? Procedia Soc Behav Sci 2013; 105:429-438.


