

UNIVERSIDADE FEDERAL DE ALAGOAS





Departamento de Nutrição



Cross-cultural adaptation of Cooking Skills Evaluation Questionnaire: a tool to Brazilian foodservice context

Cardiff, Wales

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11th

International

Conference

on Culinary Arts and Sciences

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INTRODUCTION

Public health policies recommend cooking skills' evaluations aiming to

achieve healthy eating habits.



community food and health

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Canac Cook it!



Canada's

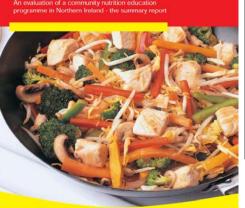
Guidelines

Canada.ca/FoodGuide

Dietary

This report is for anyone who runs, manages or commissions cooking skills courses. It uses evidence from a realist self-evaluation study group to show the impact of cooking skills courses on people who are affected by health inequalities: vulnerable people and parents managing on a low income.

Publishers: Community Food and Health (Scotland), NHS Health Scotland Publication category: Cooking and growing Related topics: community food activity, cookery sessions, evaluation Area of Work: Cookery skills







MINISTRY OF HEALTH

COOKING SKILLS

Cooking and other culinary skills are no longer being shared between generations. This favours consumption of ultraprocessed foods.

Natural or minimally processed foods, when not eaten by themselves, are selected, prepared, seasoned, cooked, combined with other foods and ingredients, and made into dishes and meals. These culinary skills have been devised, developed and perfected in all societies, and adjusted and improved from generation to generation. They make natural or minimally processed foods into attractive, delicious, satisfying and sometimes memorable meals.

Caraher et al., 1999; HSC Public Health Agency, 2009; Chenhall, 2010; Community Food and Health Scotland, 2013; Brazil, 2014

INTRODUCTION

In Brazil, foodservice sector can improve cooking

skills of their staffs to offer healthy and unprocessed

food preparations.

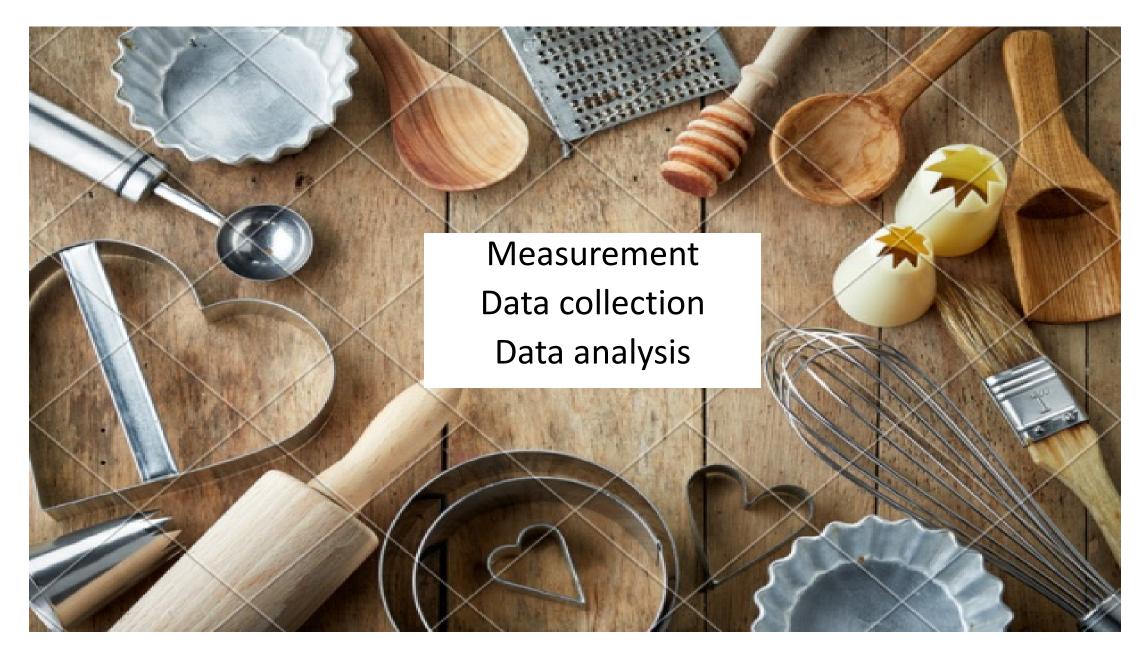


This study described the cross-cultural adaptation process of a cooking skills questionnaire from

the US to Brazil.



METHOD



Measurement

Availability and Accessibility of Fruits and Vegetables (AAFV) Index

DIRECTIONS: This section is about the presence of fruits and vegetables in your house 🗅 www.clemsor during the past week. Please circle YES or NO for EACH question. Did you have pure (100%) fruit juice in your home last week? 1. Yes No Did you have fresh fruit in your home last week? 2. Yes No Did you have raw or cooked vegetables in your home last week? 3. Yes No Did you have salad in your home last week? 4. Yes No In the last week, were fruit and vegetables on the kitchen counter or 5. Yes No somewhere in the open? 6. In the last week, was 100% fruit juice or cut up fresh fruit on the front shelf Yes No of the refrigerator as a snack? 7. In the last week, were cut up fresh vegetables on the front shelf of the Yes No refrigerator as a snack? In the last week, were vegetables in the refrigerator prepared so they readily 8. Yes No could be used in a meal? **8** 1. AAFV – Availability and Accessbility of F&V Yes/No 2. CA – Cooking Atitude 3. CB – Cooking Behavior 8 scales SEPC - Self-efficacy in Produce Consumption 3 5. SEC – Cooking Self-efficacy SECT – Self-efficacy in Basic Cooking Techniques 6. 12 64 items 7. SEFVS – Self-efficacy in Using F&V and Seazonings CTT - Knowledge of Cooking Terms and Techiniques 8. 8

Michaud, 2007; Warmin, 2009; Condrasky et al, 2011, 2013; Condrasky, Warmin, 2012

Measurement

Cooking Attitude (CA) Scale

DIRECTIONS: For each item below, indicate the extent to which you agree or disagree with the statement about cooking.

		Strongly disagree	Disagree	Neither agree nor disagree	Agree	Strongly agree
9.	I do NOT like to cook because it takes too much time.					
10.	Meals made at home are affordable					
11.	Cooking is frustrating.		٥		D	
12.	I like trying new recipes.					
13.	It is too much work to cook.	0	٥	٥	D	
14.	Making meals at home helps me to eat more healthfully.					
15.	I find cooking tiring.				٥	٥



Food, Nutrition, and Packaging Sciences

AAFV – Availability and Accessbility of F&V 2. CA – Cooking Atitude 3. CB – Cooking Behavior EPC - Self-efficacy in Produce Consumption 5. SEC – Cooking Self-efficacy – Self-efficacy in Basic Cooking Techniques – Self-efficacy in Using F&V and Seazonings owledge of Cooking Terms and Techiniques

Measurement

Cooking Behavior (CB) Scale

DIRECTIONS: For the 3 items below, think about your usual cooking habits. Select ONE box for EACH question.

	How often did you do the following?	Not at all	1 to 2 times this week	Once a week	Several times each week	About everyday
16.	Prepare meals from basic ingredients (such as whole fresh produce, raw chicken, etc).					
17.	Prepare meals using convenience items (such as bagged salad, prepared mashed potatoes, pre- shredded carrots, deli rotisserie chicken).	_				
18.	Reheat or use leftovers in another meal.					
18 a	Eat breakfast away from home					
18b	Reheating leftovers from a home cooked lunch or dinner meal					
18c	Reheating leftovers from a meal from away from home for lunch or dinner meal					
18d	Using leftovers from a home cooked meal in a new dish	•				
18e	Using leftovers from a meal away from home in a new dish					
18f	Using fresh and convenience items in combination for home meal preparation (i.e. a bag salad with cooked meat or pasta dish)			-		
18g	Eat lunch away from home					
18h	Eat dinner away from home					



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lity and Accessbility of F&V
2. CA – Cooking Atitude
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Using F&V and Seazonings

king Terms and Techiniques

Produce Consumption Self-Efficacy (SEPC) Scale

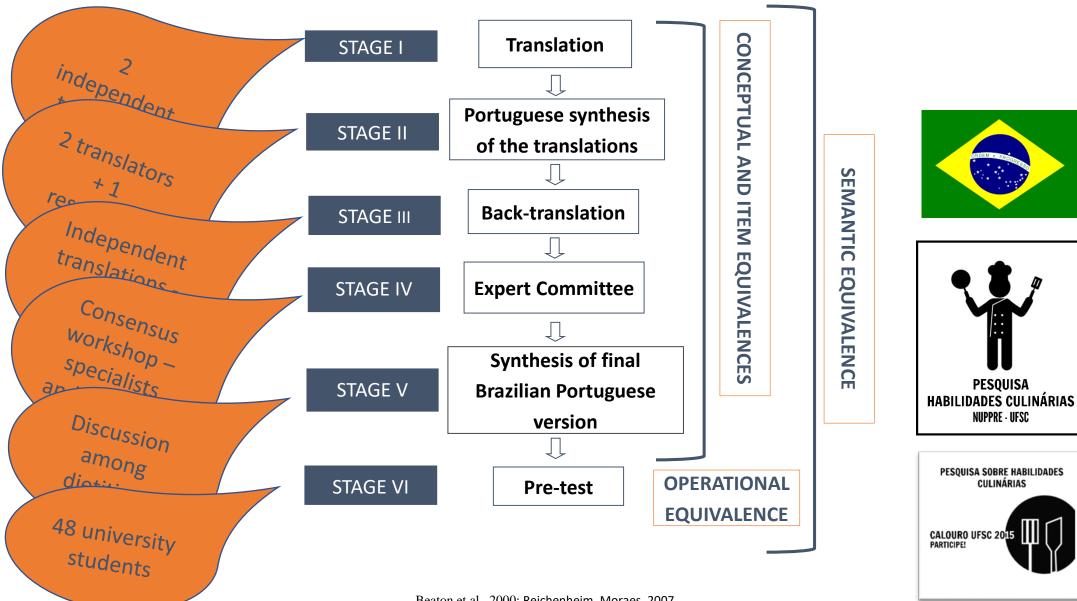
			Cooking Self-Effi				Self-Effica	cy for Using	Fruits, Vege	tables, and Seas	onings (SEFV	'S) Scale	ident about
			m below, indicate ctivity. Select ONE							the extent to w s. Select ONE b			Extremely
	r		NOT at NO	confid	ont			NOT at all confident	NOT very confident	Neither confident nor unconfident	Confident	Extremely confident	confident
22.	Cook from ba ingredients (e whole lettuce fresh tomatoe		<u>Self-Effi</u> ECTIONS: For ea orming the particu	ular activity. S	, indicate t	40.	Fresh or frozen green vegetables (ex: broccoli, spinach)	_	_		_		
23.	chicken) Follow a writ recipe (ex: preparing fres salsa from	28.	Boiling	NOT at all confident	NOT vei confider	41.	Root vegetables (ex: potatoes, beets, sweet potatoes)				_		
	tomatoes, oni garlic, jalaper peppers)	29. 30.	Simmering Steaming			42.	Fruit (ex: peaches, watermelon)	_					
24.	Prepare dinne items you cur have in your j	31. 32.	Deep frying Sautéing			43.	Herbs (ex: basil, thyme)			-	-		
25.	and refrigerat Use knife skil the kitchen.	33. 34.	Stir-frying Grilling			43a	Spices (ex: cayenne pepper, cinnamon)						
26.	Plan nutritiou	35.	Poaching			43b	Vinegars						
27.	meals. Use basic coo	36.	Baking			43c 43d	Citrus juice Citrus zest					-	
21.	techniques.	37.	Roasting			43a 43e	Hot sauces						
		38. 39.	Stewing Microwaving						of of the	Cooking Tei	rms and Te	chiniques	

Knowledge of Cooking Terms and Techniques Evaluation						
DIRECTIONS: For questions 56-61 below, indicate what you believe is the best answer by checking the box next to your response. Select ONE answer for EACH question.						
44. Cooking peaches briefly in boiling water then cooling in ice water to remove the skins is an example of:						
 * Blanching * Poaching * Broiling * Don't know 						
45. If a recipe tells you to sauté an onion, you should cook it:						
 * In a basket set above boiling water. * In a pan with a small amount of hot oil. * In a pan with a small amount of water. * Don't know. 						
46. A diced potato should be cut into :						
 * Long, thin matchstick size pieces. * Very small and uneven pieces. * Cubes usually ¹/₄ to ³/₄ inch in size. * Don't know. 						
47. Water is simmering when:						
 * Steam begins to form. * Tiny bubbles collect on the bottom and sides of the pan. * Bubbles rise rapidly and break on the surface. * Don't know. 						
48. Sweet potatoes are roasting when they are:						
 Cooked by dry heat in a hot oven. Cooked in a hot oven with liquid in the pan. Cooked in a covered pan with a small amount of liquid. Don't know. 						

Data Analysis

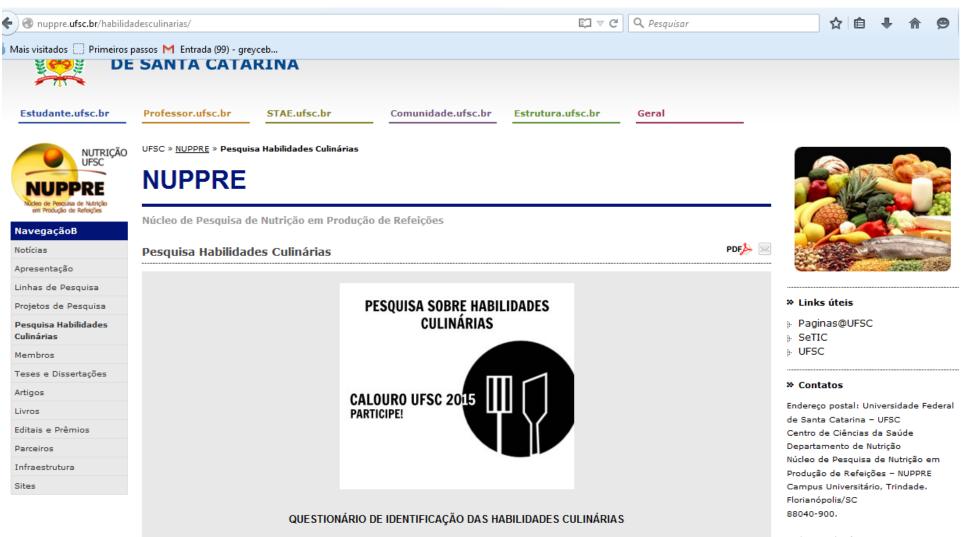
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Cross-cultural adaptation of CWC Questionnaire



Beaton et al., 2000; Reichenheim, Moraes, 2007

www.nuppre.ufsc.br/habilidadesculinarias/

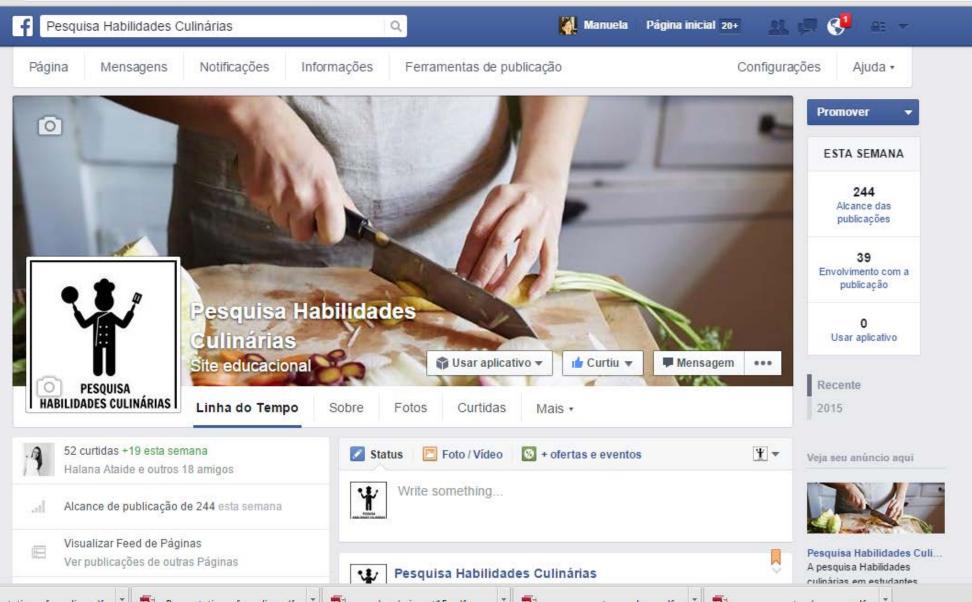


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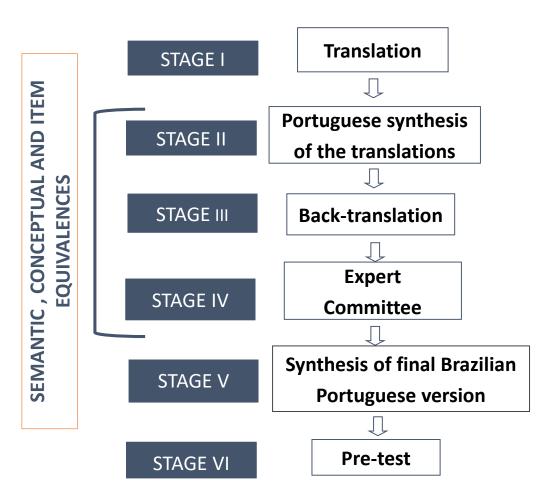


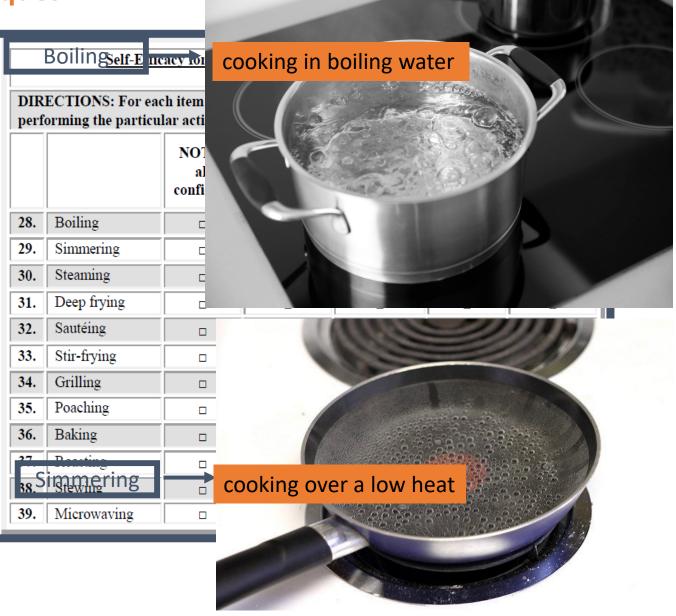
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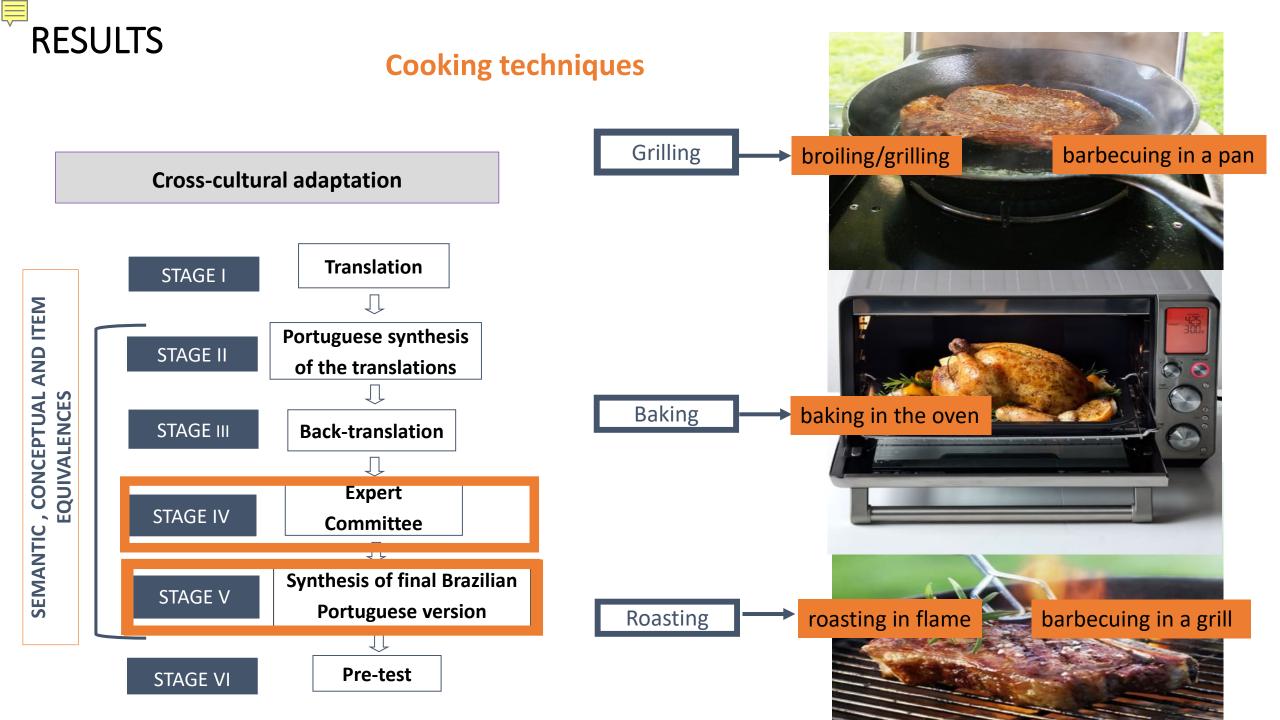
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DAS HA	BILIDADES CULINÁRIAS Por favor, preencha os dados a seguir.
Continuar »	BILIDADES CULINÁRIAS

Cooking techniques

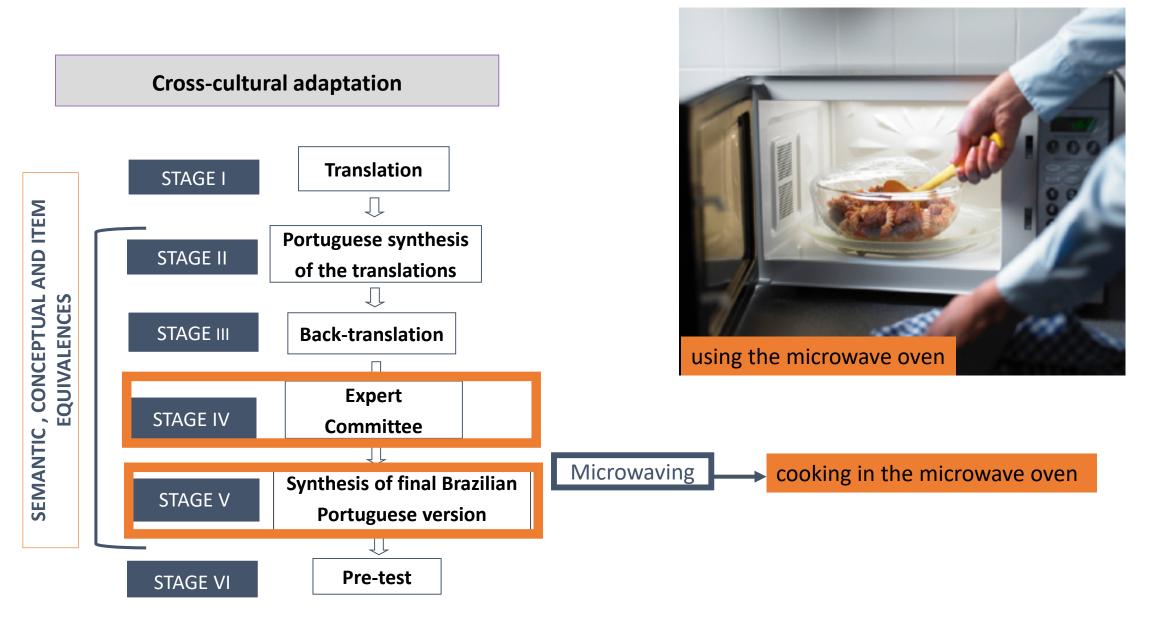
Cross-cultural adaptation

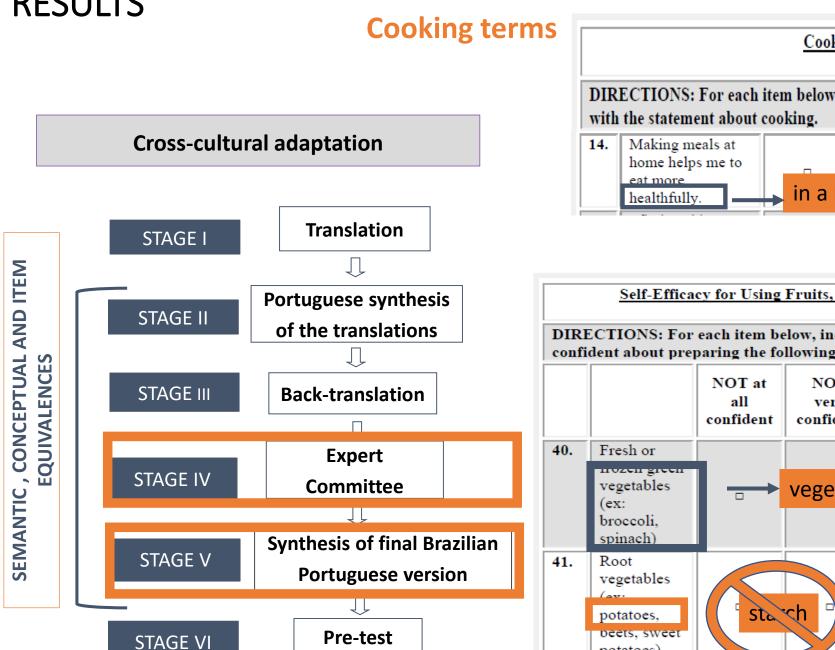






Cooking techniques

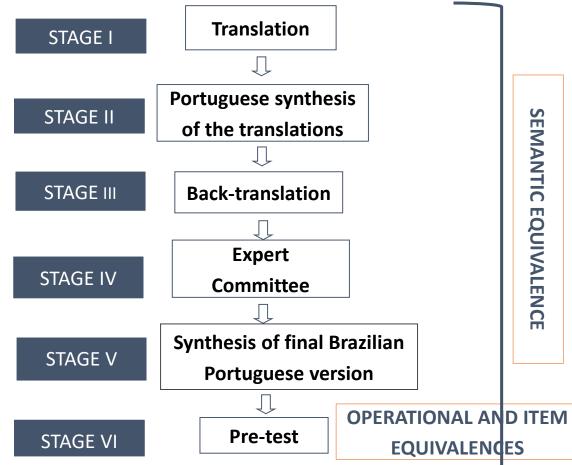




Cooking Attitude (CA) Scale DIRECTIONS: For each item below, indicate the extent to which you agree or disagree in a healthier way

	<u>Self-Effica</u> ECTIONS: For ident about prej	each item be	low, indicate		hich you curi	ently feel
		NOT at all confident	NOT very confident	Neither confident nor unconfident	Confident	Extremely confident
40.	Fresh or					
	vegetables (ex: broccoli, spinach)		vegetable	es and gree	ns 🗉	
41.	Root vegetables (ev: potatoes, beets, sweet potatoes)	r ste	ch			

Cross-cultural adaptation



In the **pre-test**, few participants misunderstood the questionnaire, thus supporting **semantic**, **item and operational equivalences** between the **original** and the **Brazilian Portuguese versions**.



The concept of cooking skills: A review with contributions to the scientific debate

O conceito de habilidades culinárias: uma revisão com contribuições ao debate científico

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JOMORI, Manuela Mika et al. *Rev. Nutr.* [online]. 2018, 31(1): 119-135. http://dx.doi.org/10.1590/1678-98652018000100010

REVIEW

DISCUSSION

The amendments of cooking skills terms showed the complexity of cooking skills concepts and highlighted the importance of the cross-cultural adaptation process.

ABSTRACT

Beaton et al., 2000; Reichenheim, Moraes, 2007; Streineret al., 2015;Condrasky et al., 2011; Wolfson et al., 2016; Jomori et al., 2018

CONCLUSIONS

The use of an adapted questionnaire in Brazil can adequate the evaluation of cooking skills and plan appropriated interventions in foodservice sector to provide healthy preparations.



THANK YOU!

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