

# Cross-cultural validation of the Brief Social Phobia Scale for use in Portuguese and the development of a structured interview guide

## Validação transcultural para o português da Brief Social Phobia Scale e desenvolvimento de um roteiro de perguntas-guia

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### Abstract

**Objective:** To present the translation and validation of the Brief Social Phobia Scale for use in Brazilian Portuguese, to develop a structured interview guide in order to systemize its use and to perform a preliminary study of inter-rater reliability. **Method:** The instrument was translated and adapted to Portuguese by specialists in anxiety disorders and rating scales. A structured interview guide was created with the aim of covering all of the items of the instrument and grouping them into six categories. Specialists in mental health evaluated the guide. These professionals also watched the videotaped interviews of patients with and without social anxiety disorders, and, based on the interview guide, they rated the scale to evaluate its reliability. **Results:** No semantic or linguistic adjustments were needed. For the complete scale, the general evaluation showed a percentage of agreement of 0.84 and intraclass coefficient of 0.91. The mean inter-rater correlation was 0.84. **Conclusions:** The Portuguese-language version of the Brief Social Phobia Scale is available for use in the Brazilian population, with rather acceptable indicators of inter-rater reliability. The interview guide was useful in providing these values. Further studies are needed in order to improve the reliability and to study other psychometric properties of the instrument.

**Keywords:** Anxiety disorders; Phobic disorders; Validation studies [Publication type]; Evaluation studies; Reproducibility of results

### Resumo

**Objetivo:** Apresentar a tradução e validação da Brief Social Phobia Scale para o português, um roteiro de perguntas-guia para sistematizar sua aplicação e o estudo preliminar da confiabilidade inter-avaliadores. **Método:** O instrumento foi traduzido e adaptado para o português por especialistas em transtornos de ansiedade e escalas de avaliação. Um roteiro de perguntas-guia foi elaborado de modo a abranger todos os itens do instrumento, agrupando-os em seis categorias. O roteiro foi submetido à avaliação de profissionais de saúde mental. Tais profissionais também assistiram a entrevistas gravadas em videotape de pacientes com e sem transtorno de ansiedade social, as quais tiveram como referência o roteiro para pontuar a escala para o cálculo da confiabilidade. **Resultados:** Não foram necessárias reformulações e adaptações semânticas e lingüísticas. Para a escala total, a concordância geral foi 0.84 e o coeficiente de correlação intraclass 0.91. O nível médio de concordância dos avaliadores foi 0.84. **Conclusões:** a versão para o português está disponível para uso na população brasileira, apresentando indicadores preliminares de confiabilidade inter-avaliadores bastante aceitáveis, sendo que o uso do roteiro de perguntas-guia foi bastante útil para favorecer tais valores. Futuros estudos são necessários para aprimorar o valor desta e das demais propriedades psicométricas do instrumento.

**Descritores:** Transtorno da ansiedade; Fobia social; Estudos de validação, escalas; Estudos de avaliação; Confiabilidade da tecnologia

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## Introduction

Despite its high prevalence and adverse impact, social anxiety disorder (SAD) remains an under-recognized and underdiagnosed condition.<sup>1-2</sup> However, SAD responds well to pharmacological treatment and cognitive therapy.<sup>3</sup> Therefore, early detection is essential to preventing the development of comorbid conditions and improving the prognosis.

Rating scales are important instruments for characterizing clinical profiles, as well as for determining the severity of psychiatric disorders. Previous review studies<sup>4-5</sup> had identified a variety of available instruments, both self- and observer-rated, for SAD assessment.

Some scales are available for use in the Brazilian population.<sup>6-10</sup> However, to our knowledge, no observer-rated SAD assessment instrument is available for such use. The importance of such an instrument, specifically for SAD assessment, lies in the fact that individuals with SAD tend to underestimate their SAD symptoms, associating them and the consequent harms to comorbid situations such as depression.

Among the observer-rated instruments, the Brief Social Phobia Scale (BSPS)<sup>11</sup> is of great importance. It consists of 18 items, grouped in three subscales (fear, avoidance and physiological arousal), a score corresponding to one of five levels of severity (0 to 4) being assigned for each item. The BSPS has shown good psychometric qualities: test-retest reliability (0.91); internal consistency (0.81); and convergent validity (0.70) with the Liebowitz Social Anxiety Scale – observer-rated version. The factor analysis identifies six factors: generalized symptoms of fear and avoidance; physiological arousal; doing something while being watched; speaking in public; speaking at social gatherings; and talking to strangers.<sup>12</sup> This scale has been used to assess the severity of SAD and the response to treatment.

In the original proposition,<sup>11</sup> the BSPS is applied after an unstructured interview. This procedure presumes that raters are experienced and have received appropriate training for using the instrument, as well as for recognizing and classifying the psychopathological symptoms. The absence of such requisites may lead to reduced reliability.<sup>13</sup> Therefore, semistructured interviews and interview guides might increase standardization, thereby reducing variability in the interpretation of the information by different raters and minimizing the effect of rater experience with the instrument and with the disorder assessed.<sup>14-15</sup>

## Objective

The study had multiple objectives: to present the translation and cross-cultural validation of the BSPS for use in Portuguese; to evaluate a structured interview guide, created to facilitate and systemize the use of the scale; and to conduct a preliminary study of inter-rater reliability when the scale is used in conjunction with the interview guide.

## Method

This study was approved by the local research ethics committee (Nº HCRP 11570/2003), and all subjects (patients

and controls) gave written informed consent after being fully informed of the research procedure.

### 1. Translation and validation of the BSPS for use in Portuguese

The BSPS was translated from the original English into Portuguese by two psychiatrists and one psychopharmacologist specializing in anxiety disorders with experience in rating scales. All were Brazilian by birth and proficient in the English language. The three versions were compared and a single final version was obtained after reaching a consensus. The final Portuguese-language version was back translated by a bilingual psychiatrist who did not have access to the original English version, and the authors of the original version then compared the back-translation to the original.

### 2. Interview guide

In order to facilitate and systematize the use of the scale, we proposed a semistructured interview, which was based on a structured interview guide and addressed all items in the scale. We grouped the assessed items into six categories to favor a logical sequence of questions.

Eight researchers from the mental health field (four psychologists, two occupational therapists and two psychiatrists) individually reviewed the interview guide. This group of researchers consisted of one undergraduate in psychology and seven graduate professionals with one to twelve years of postgraduate experience and little ( $n = 4$ ) or sufficient ( $n = 4$ ) experience in using rating scales in a clinical and research contexts. The reviewers evaluated the guide in terms of clarity of the instructions, as well as in terms of pertinence/understandability of the content and the guide questions for the assessment of each item in the scale.

The members of the research group then watched a videotaped interview of an individual with SAD. The interview was conducted according to the previously created interview guide and took an average of 40 minutes. We then asked the researchers to complete the scale independently. The answers were compared, and the points of agreement/disagreement were discussed until a consensus was obtained.

After rating the instrument, the reviewers pointed out the difficulties they experienced in using the guide and suggested some changes. All suggestions were discussed and were included in the final version of the guide.

### 3. Preliminary study of BSPS inter-rater reliability

The aforementioned group of researchers participated as reviewers for the preliminary test of the reliability of the scale. At this stage, the group watched, at two different times, four videotaped interviews with four individuals: three presenting various degrees of SAD severity and one without SAD. After each video, the researchers completed the scale independently. The interviews were conducted using the final version of the

guide as a reference. After the scale had been completed, each answer was evaluated by the group, obtaining a consensus answer for each patient, which was used as a standard for establishing the inter-rater agreement level. The evaluations were compared for each item and each rater was compared individually to the group.

## Results

### 1. Translation and validation of the BSPS for use Portuguese

The back-translation of the BSPS was evaluated by the authors of the original version, who stated that no reformulations or semantic and linguistic adjustments were necessary. The Portuguese-language version was dubbed the *Escala Breve de Fobia Social* (Annex 1).

### 2. Development of a structured interview guide

In evaluating the guide, the raters found that, in general, the questions were appropriate, clear and favored the systematization of usage. However, they suggested that some questions be reformulated and others added. The problems identified were related to the criteria for the severity of fear subscale, which the raters felt needed more clarity and objectivity. Therefore, it was proposed that each of the four severity criteria be further detailed to make them more objective. After this reformulation, the researchers reviewed the material and concluded that the difficulties had been solved and that the instrument could now be submitted to the next stage of the test.

The final version of the guide (Annex 2) consists of questions grouped into six categories of investigation:

-Category 1: Social Gatherings: part 1– item 6 (fear and avoidance)

-Category 2: Physiological Arousal: part 2– items 1, 2, 3 and 4.

-Category 3: Being Observed: part 1– item 7 (fear and avoidance)

-Category 4: Speaking/Talking: part 1– items 1, 2 and 3 (fear and avoidance)

-Category 5: Being Embarrassed: part 1– item 4 (fear and avoidance)

-Category 6: Feeling Criticized: part 1– item 5 (fear and avoidance)

### 3. Preliminary study of BSPS inter-rater reliability

In the first stage of scoring, the percentage of agreement of the items ranged from 0.14 to 1.00 for the scale as a whole, from 0.14 to 0.86 for fear, from 0.57 to 1.00 for avoidance and from 0.57 to 0.86 for physiological arousal. Inter-rater agreement ranged from 0.55 to 0.88. The general mean was 0.68.

In the second stage, the percentage of agreement was 0.84 and the intraclass coefficient (ICC) was 0.91. Table 1 shows the information regarding the subscales.

**Table 1 – Agreement indexes and intraclass correlation coefficients (ICCs) of BSPS in terms of subscales and the scale as a whole**

Subscale	Agreement variation	Mean agreement	ICC
Fear	0.55-0.94	0.76	0.95
Avoidance	0.68-1.0	0.88	0.99
Physiological arousal	0.84-0.94	0.85	0.92
Total	0.55-1.0	0.84	0.91

Individual rater agreement with the group ranged from 0.79 to 0.94, with a mean of 0.84.

## Discussion

The Portuguese-language version of the BSPS is now available and meets an important need, since, to date, no observer-rated instruments were available for assessing SAD. As in previous studies of observer-rated instruments,<sup>13-15</sup> using a structured interview guide proved useful for the systematic use of the instrument and increased its reliability, independently of the level of experience of the raters. In the preliminary study of the psychometric quality of the scale, we observed that all items presented significance, with an overall percentage of agreement of 0.84 and an ICC of 0.91, the latter being a benchmark of excellent agreement.

The additional detail and specification given to the severity of fear criteria provided a further increase in the levels of inter-rater agreement on each item, strongly contributing to the acquisition of better reliability values. Although this psychometric quality has not been studied in the original version, the observed preliminary value is consistent with the psychometric values presented in the original study,<sup>12</sup> showing that the scale is appropriate for our context.

We believe that the present version is equivalent to the original in terms of language, concepts and items included. The back-translation was accepted by the authors of the original instrument, with no need for reformulations, and was thus designated the official version for use in the Portuguese language. The original layout of the instrument was maintained.

## Conclusion

The Portuguese-language version of the BSPS was created through a careful process of translation and adjustment. In this preliminary study, inter-rater reliability was found to be quite acceptable.

Further studies, involving larger samples, control groups and double-blind assessments, are needed in order to increase the value of this and other psychometric properties of the scale. Such studies might further the evaluation of the instrument in clinical and research contexts.

## Acknowledgments

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## Annex 1 - Brief Social Phobia Scale (BSPS) translated and adapted to Portuguese

## Brief Social Phobia Scale (BSPS) traduzida e adaptada para o português

Tradução e adaptação para o Português: Crippa JAS, Graeff FG, Zuardi AW, Hetem LA, Busatto GF, Loureiro SR (2003)

Iniciais:..... Idade:..... Data:.....

<b>Idade</b> _____	<b>Estado Civil</b>	<input type="radio"/> Casado	<input type="radio"/> Separado	<input type="radio"/> Viúvo	<b>Nº Protocolo</b> _____
		<input type="radio"/> Solteiro	<input type="radio"/> Divorciado		
<b>Sexo</b>	<b>Cor</b>	<input type="radio"/> Branco	<input type="radio"/> Negro	<input type="radio"/> hispânico	
<input type="radio"/> Masculino		<input type="radio"/> Amarelo	<input type="radio"/> Índio	<input type="radio"/> Outro	<input type="radio"/> Não sabe
<input type="radio"/> Feminino					

**INSTRUÇÕES** A avaliação deve ser feita levando em conta os últimos 7 dias. Se o paciente não tiver sido exposto às situações temidas na última semana, avalie o medo, o comportamento de esquiva e os sintomas fisiológicos de acordo com como o paciente se sentiria se confrontado com cada situação.

**Parte 1** O entrevistador deve avaliar separadamente a intensidade do medo e da esquiva anotando para cada item abaixo o escore correspondente, de acordo com os seguintes pontos de ancoragem.

(Medo / Esquiva)

Quanto você teme e evita as seguintes situações?

	Medo	Esquiva
1) Falar em público ou na frente de outras pessoas		
2) Conversar com autoridades		
3) Conversar com estranhos		
4) Ficar envergonhado ou sentir-se humilhado		
5) Ser criticado		
6) Reuniões sociais		
7) Fazer coisas enquanto está sendo observado (não inclui falar em público)		

## Pontos de Ancoragem

## Medo

- 0 Nenhum  
 1 Leve (Infrequente e/ou não angustiante)  
 2 Moderado (Frequente e/ou alguma angústia)  
 3 Grave (Constante, dominando a vida da pessoa e/ou claramente angustiante)  
 4 Extremo (Incapacitante e/ou muito dolorosamente angustiante)

## Esquiva

- 0 Nunca  
 1 Raro (1-33%)  
 2 Algumas vezes (34-66%)  
 3 Frequente (67-99%)  
 4 Sempre (100%)

**Parte 2** Quando você está numa situação que envolve contato com outras pessoas, ou quando se imagina em tal situação, você sente os seguintes sintomas? Assinale para cada item abaixo o escore correspondente aos seguintes pontos de ancoragem

1) Rubor	
2) Palpitações	
3) Tremores ou estremelecimento	
4) Transpiração	

## Pontos de Ancoragem

## Fisiológicos

- 0 Nenhum  
 1 Leve (Infrequente e/ou não angustiante)  
 2 Moderado (Frequente e/ou alguma angústia)  
 3 Grave (Constante, dominando a vida da pessoa e/ou claramente angustiante)  
 4 Extremo (Incapacitante e/ou muito dolorosamente angustiante)

Escore total	Parte 1	Medo itens 1-7	total = (M)
		Esquiva itens 1-7	total = (E)
	Parte 2	Fisiológicos itens 1-4	total = (F)

**Total = \_\_\_\_\_**  
(M+E+F)

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## Annex 2 – Structured interview guide for using use the Brief Social Phobia Scale (BSPS)

## STRUCTURED INTERVIEW GUIDE FOR USING THE BRIEF SOCIAL PHOBIA SCALE (BSPS)

Instructions: "This interview aims to assess how extreme shyness may influence your life in many ways".

Item	Guiding questions	Observe as severity criteria
<b>SOCIAL GATHERINGS</b> Part 1 Item 6	<p>Consider the last <b>seven days</b> (if you did not experience these situations in the last seven days, how would you feel if you did? - imagine):</p> <ul style="list-style-type: none"> <li>• How did you feel while attending social gatherings (parties, reunions with family and friends)? Did you feel fear or anguish when you had to attend social gatherings? Did you feel afraid? How afraid? How often? To what extent does the difficulty to attend social gatherings hinder your life? (<u>part 1-item 6</u>)</li> <li>• Do you avoid going to social gatherings? How often? Rate how much you avoid these meeting on a scale from 0 to 100 (<u>AVOIDANCE</u>)</li> </ul>	<ul style="list-style-type: none"> <li>• <b>Consider for fear:</b></li> <li>0- none</li> <li>1- slight (rarely/occasionally feels anguish)</li> <li>2- moderate (always feels fear/anguish, but still attends)</li> <li>3- severe (always feels fear/anguish when facing any type of gathering, such as parties, reunions with friends or family. Attends only when absolutely necessary)</li> <li>4- extreme (incapacitating/does not attend social gatherings)</li> </ul> <ul style="list-style-type: none"> <li>• <b>Consider for avoidance:</b></li> <li>0- never</li> <li>1- rarely (1-33%)</li> <li>2- sometimes (34-66%)</li> <li>3- often (67-99%)</li> <li>4- always (100%)</li> </ul>
<b>PHYSIOLOGICAL AROUSAL</b> Part 2 Items 1,2,3,4	<ul style="list-style-type: none"> <li>• When you meet someone or when you imagine yourself in this situation, you: <ul style="list-style-type: none"> <li>-Blush (your face becomes warm and red)? How often? (<u>item 1</u>). Rate the intensity of this symptom on a scale from 0 to 100.</li> <li>-Do you feel palpitations? How often? (<u>item 2</u>) Rate the intensity of this symptom on a scale from 0 to 100.</li> <li>-Do you feel tremors? How often? (<u>item 3</u>). Rate the intensity of this symptom on a scale from 0 to 100.</li> <li>-Do you sweat (perspire)? How often (<u>item 4</u>) Rate the intensity of this symptom on a scale from 0 to 100.</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>0- none</li> <li>1- slight (rarely)</li> <li>2- moderate (always in a specific interaction situation)</li> <li>3- severe (whenever there is interaction)</li> <li>4- extreme (constant/incapacitating)</li> </ul>
<b>BEING OBSERVED</b> Part 1 Item 7	<p>Consider the last <b>seven days</b> (if you did not experience these situations in the last seven days, how would you feel if you did? - imagine):</p> <ul style="list-style-type: none"> <li>• How do you feel about being observed by other people when performing the following activities: eating, drinking, using the phone, writing, and using a public restroom? Do you feel fear when doing any of these activities while being observed? How often? To what extent does the difficulty of being observed by others hinder your life? (<u>item 7</u>)</li> <li>-Do you avoid doing any of these activities when being observed? How often? Rate your avoidance on a scale from 0 to 100. (<u>AVOIDANCE</u>)</li> </ul>	<ul style="list-style-type: none"> <li>• <b>Consider for fear:</b></li> <li>0- none</li> <li>1- slight (rarely feels anguish)</li> <li>2- moderate (always feels fear/anguish, but still performs the activities when observed)</li> <li>3- severe (always feels fear/anguish when it is necessary to perform the activities while being observed and engages in the activities only when absolutely necessary)</li> <li>4- extreme (incapacitating, does not perform the activities when being observed)</li> </ul> <ul style="list-style-type: none"> <li>• <b>Consider for avoidance:</b></li> <li>0- never</li> <li>1- rarely (1-33%)</li> <li>2- sometimes (34-66%)</li> <li>3- often (67-99%)</li> <li>4- always (100%)</li> </ul>
<b>If necessary:</b>		
<b>SPEAKING/ TALKING</b> Part 1 Item 1,2,3	<p>Consider the last <b>seven days</b> (if you did not experience these situations in the last seven days, how would you feel if you did? - imagine):</p> <ul style="list-style-type: none"> <li>• How do you feel about speaking in public or to other people (seminars, giving messages to groups of people)? Do you feel fear or anguish? How often? (<u>item 1</u>).</li> <li>- Do you avoid speaking in public or to other people? Rate your avoidance on a scale from 0 to 100 (<u>AVOIDANCE</u>)</li> <li>• How do you feel about talking to authorities (boss, teacher, important people)? Do you feel fear or anguish? How often? (<u>item 2</u>).</li> <li>- Do you avoid talking to authorities? Rate your avoidance on a scale from 0 to 100 (<u>AVOIDANCE</u>)</li> <li>• How do you feel about talking to strangers? Do you feel fear or anguish? How often? (<u>item 3</u>).</li> <li>- Do you avoid talking to strangers? Rate your avoidance on a scale from 0 to 100 (<u>AVOIDANCE</u>)</li> </ul> <p>In a general way, to what extent does the difficulty to talk to people hinder your life?</p>	<ul style="list-style-type: none"> <li>• <b>Consider for fear:</b></li> <li>0- none;</li> <li>1- slight (rarely feels fear, occasionally feels anguish);</li> <li>2- moderate (always feels fear/anguish, but still talks);</li> <li>3- severe (constantly/takes over their life/talks only when absolutely necessary);</li> <li>4- extreme (incapacitating/painfully anguishing, does not talk).</li> </ul> <ul style="list-style-type: none"> <li>• <b>Consider for avoidance:</b></li> <li>0- never</li> <li>1- rarely (1-33%)</li> <li>2- sometimes (34-66%)</li> <li>3- often (67-99%)</li> <li>4- always (100%)</li> </ul>

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Item	Guiding questions	Observe as severity criteria
<b>GETTING EMBARRASSED</b>		
Part 1 Item 4	<p>Consider the last <b>seven days</b> (if you did not experience these situations in the last seven days, how would you feel if you did? -imagine):</p> <ul style="list-style-type: none"> <li>• Do you feel fear or anguish when there is a possibility of you feeling embarrassed or humiliated while among other people (known and strangers) or when performing activities? How often? To what extent does the possibility of feeling embarrassed or humiliated, while among other people or when performing activities, hinder your life? (item 4)</li> <li>• Do you avoid situations where you will be among other people or performing tasks in which you may feel embarrassed or humiliated? How often? Rate your avoidance on a scale from 0 to 100 (AVOIDANCE)</li> </ul>	<ul style="list-style-type: none"> <li>• <b>Consider for fear:</b></li> <li>0- none</li> <li>1- slight (rarely /sometimes feels anguish)</li> <li>2- moderate (always, almost always feels fear/anguish, but still contacts other people and performs activities)</li> <li>3- severe (always feels fear/anguish when facing the possibility of feeling embarrassed/humiliated, only contacts people or performs activities when absolutely necessary)</li> <li>4- extreme (incapacitating/ does not contact other people or perform activities as a way to avoid feeling embarrassed or humiliated)</li> <li>• <b>Consider for avoidance:</b></li> <li>0- never</li> <li>1- rarely (1-33%)</li> <li>2- sometimes (34-66%)</li> <li>3- often (67-99%)</li> <li>4- always (100%)</li> </ul>
<b>FEELING CRITICIZED</b>		
Part 1 Item 5	<p>Consider the last <b>seven days</b> (if you did not experience these situations in the last seven days, how would you feel if you did? -imagine):</p> <ul style="list-style-type: none"> <li>• Do you feel fear or anguish when facing the possibility of being criticized in situations when you are among other people or performing activities? How often? To what extent does the possibility of being criticized while among other people or when performing activities, hinder your life? (item 5)</li> <li>- Do you avoid situations of making contact with other people or performing activities in which you may be criticized? How often? Rate your avoidance on a scale from 0 to 100. (AVOIDANCE)</li> </ul>	<ul style="list-style-type: none"> <li>• <b>Consider for fear:</b></li> <li>0- none</li> <li>1- slight (rarely/sometimes feels anguish)</li> <li>2- moderate (always, almost always feels fear/anguish, but still performs the activities)</li> <li>3- severe (always feels fear/anguish when facing the possibility of being criticized and only performs the activities when absolutely necessary)</li> <li>4- extreme (incapacitating/does not perform the activities due to the fear of being criticized)</li> <li>• <b>Consider for avoidance:</b></li> <li>0- never</li> <li>1- rarely (1-33%)</li> <li>2- sometimes (34-66%)</li> <li>3- often (67-99%)</li> <li>4- always (100%)</li> </ul>

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