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Cross-cultural adaptation and validation of the Brazilian version of the
Beliefs about Emotions Scale

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ABSTRACT

INTRODUCTION: Beliefs about the unacceptability of expression and experience of emotion are present in the general population but seem to be more prevalent in patients with a number of health conditions. Such beliefs, which may be viewed as a form of perfectionism about emotions, may have a deleterious effect on symptomatology as well as treatment adherence and outcome. Nevertheless, few questionnaires have been developed to measure such beliefs about emotions, and no instrument has been validated in a developing country. The current study adapted and validated the Beliefs about Emotions Scale in a Brazilian sample. METHODS: The adaptation procedure included translation, back-translation and analysis of the content, with the final Brazilian Portuguese version of the scale being tested online in a sample of 645 participants. Internal consistency of the scale was very high and results of a principal axis factoring analysis indicated a 2-factor solution. RESULTS: Respondents with high fatigue showed more perfectionist beliefs and the scale correlated positively with questionnaires measuring anxiety, depression and fear of negative evaluation, confirming cross-culturally associations reported before. Finally, men, non-Caucasians and participants with lower educational achievement gave greater endorsement to such beliefs than women, Caucasian individuals and participants with higher educational level. CONCLUSIONS: The study confirms previous clinical findings reported in the literature, but indicate novel associations with demographic variables. The latter may reflect cultural
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differences related to beliefs about emotions in Brazil.

Key words: beliefs; emotion; emotional regulation; perfectionism; validation.

RESUMO

INTRODUÇÃO: Crenças sobre a inaceitabilidade da expressão e experiência de emoção estão presentes na população em geral, mas parecem ser mais prevalentes em pacientes com uma série de problemas de saúde. Tais crenças, que podem ser vistas como uma forma de perfeccionismo sobre as emoções, podem ter um efeito deletério na sintomatologia, bem como na adesão ao tratamento e os resultados. No entanto, poucos questionários foram desenvolvidos para medir tais crenças sobre emoções, e nenhum instrumento foi validado em um país em desenvolvimento. O presente estudo adaptou e validou a Escala de Crenças sobre Emoções (Beliefs about Emotions Scale) em uma amostra brasileira. MÉTODOS: O procedimento de adaptação incluiu tradução, tradução reversa e análise do conteúdo, com a versão final brasileira da escala testada online em uma amostra de 645 participantes. A consistência interna da escala foi muito alta e os resultados da análise fatorial de eixo principal indicaram uma solução de 2 fatores. RESULTADOS: Os respondentes com alta fadiga mostraram crenças mais perfeccionistas e a escala correlacionou positivamente com questionários medindo ansiedade, depressão e medo de avaliação negativa, confirmando associações interculturais relatadas anteriormente. Finalmente, homens, não-caucasianos e participantes com baixo nível de escolaridade endossaram mais tais crenças do que mulheres, indivíduos caucasianos e participantes com maior nível de escolaridade. CONCLUSÕES: O estudo confirma achados clínicos anteriores relatados na literatura, mas indicam novas associações com
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variáveis demográficas. O último pode refletir diferenças culturais relacionadas às crenças sobre emoções no Brasil.

**Palavras-Chave:** crenças; emoção; regulação emocional; perfeccionismo; validação.

**Introduction**

A number of health conditions are marked by the presence of beliefs about the unacceptability of the expression and experience of negative emotions, including chronic fatigue syndrome (CFS),\(^1\) eating disorders,\(^2\) and major depression.\(^3,4\) In addition, according to cognitive behavioral models, deleterious beliefs on emotions contribute to the etiology and maintenance of a range of other health conditions, such as hypertension,\(^5\) irritable bowel syndrome,\(^6,7\) and impulse control disorders.\(^8,9\) Beliefs about emotions also play a central role in the maintenance of clinical problems, being associated with a poor prognosis and low efficacy of treatment attempts.\(^2\) Identifying unhelpful beliefs about emotions may help with reducing maladaptive coping and compensatory strategies,\(^10\) leading to improved forms of treatment.

Despite the relevance of this theme, few attempts have been made to systematically measure beliefs about emotions.\(^11,12\) An initial attempt was made by Tamir and colleagues,\(^13\) who measured beliefs about the malleability and control over emotions with a brief four-item questionnaire. A full questionnaire, the Beliefs about Emotions Scale (BES), was later developed by Rimes and Chalder.\(^11\) The BES focuses on beliefs about the experience and expression of negative thoughts and feelings, based on cognitive models which suggest that beliefs about the unacceptability of negative emotions may lead to reduced expression of feelings and help-seeking behavior, resulting in increases
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in mental and physical symptoms. More recently, the Emotion and Regulation Beliefs Scale (ERBS) was developed, but, in addition to being considerably longer, it also measures beliefs about the construct of emotion in a broader sense, without emphasizing clinical aspects as much as the BES.

It is likely that these beliefs will vary according to context and cultural values. Cross-cultural studies on emotion identified differences in a number of features, including, for example, display rules, emotional meaning, attitudes towards pain and beliefs about emotional residue. Nevertheless, this has not been explored in relation to beliefs about emotions, a main reason being that no instrument measuring this aspect has been validated outside Anglophone countries.

The present study aims to adapt and validate the BES in a Brazilian sample. This will allow the exploration of how beliefs about emotions operate in other settings, also providing additional data on cultural differences in emotional processing. In addition, in agreement with previous studies, it is expected that the current study will provide further evidence that perfectionist beliefs about emotions are dysfunctional, by showing associations with higher levels of fatigue, depression, anxiety and social anxiety. Understanding the contribution of these beliefs to potentially harmful behaviors, such as emotional suppression, may have important clinical implications, impacting the way the therapeutic practice occurs in different conditions and disorders.

Material and methods

Scale adaptation
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The adaptation and validation of the BES followed the established methodology in this field. Firstly, a native Portuguese speaker fluent in English translated the scale. An expert panel consisting of two psychologists and one psychiatrist then discussed if the wording was appropriate and evaluated semantic and conceptual equivalence, leading to a consensus on the final items. The scale was then back-translated into English and compared to the original scale. During this procedure, the author of the original scale (K.A.R.) reviewed the back-translated version and established that there was no loss of meaning during the translation process. Final adjustments were made and the scale was again assessed by the expert panel, leading to the final validated version (see Annex).

Participants

The sample of this study consisted of 645 participants recruited via electronic advertisements on social networks and e-mails. Sociodemographic and clinical characteristics of the sample are described in Table 1. The full sample (n = 645) completed questionnaires of anxiety, depression and beliefs about emotion, with a subsample (n = 283) also providing data on fatigue and fear of negative evaluation (below).

PLEASE INSERT TABLE 1 HERE

Measures

Generalised Anxiety Disorder (GAD-7)

The GAD-7 is a 7-item questionnaire used as a screening tool and severity measure for
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patients with generalized anxiety disorder. It also has good psychometric properties to identify panic disorder, social anxiety disorder, and post-traumatic stress disorder. Each of the items matches the original structure of DSM-IV-TR diagnostic criteria, with scoring being done through a 4-point Likert scale ranging from “not at all” to “nearly every day”.

Patient Health Questionnaire (PHQ-9)

The Patient Health Questionnaire (PHQ-9) is a 9-item questionnaire based directly on the nine diagnostic criteria for major depressive disorder in the DSM-IV. It has good psychometric properties to diagnose depression and monitor treatment response. The scoring is done in a 4-point Likert scale, ranging from “not at all” to “nearly every day”.

Chalder Fatigue Questionnaire

The Chalder Fatigue Questionnaire (CFQ) has been designed to measure the severity of fatigue and screen for the presence of CFS. The 11-item questionnaire shows robust psychometric properties. Scores were attributed through a 4-point Likert scale, ranging from 0 ("less than usual") to 3 ("much more than usual").

Fear of Negative Evaluation Scale

The Fear of Negative Evaluation Scale (FNE) was developed to measure apprehension about others' evaluations and expectation of negative evaluation. It consists of 30 true or false questions, some of which being reverse-coded.
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Beliefs about Emotions Scale (BES)

The Beliefs about Emotions Scale (BES) was developed to evaluate beliefs about emotions related to unacceptability of experiencing negative emotions or the adverse consequences of expressing such feelings. The questionnaire consists of 12 items scored from 6 (“totally agree”) to 0 (“totally disagree”) and it has been shown to have very good reliability and validity.

Procedures

A cross-sectional questionnaire-based design was used. Participants recruited for this study were invited to answer the questionnaires available online in the “Survey Monkey” platform individually and without any restriction of time. Participants had the option of stopping the questionnaire and withdrawing from the study at any point.

Data analysis

To investigate internal consistency, Cronbach’s alpha was calculated for the full scale and for the extracted factors. The convergent and discriminant validity of the scale was explored with correlations between the BES and its factors with clinical variables, such as anxiety (GAD7), depression (PHQ9), and fear of negative evaluation (FNES); for all scales, total scores were used in this analysis. For the correlational analysis, to account for the effect of multiple testing, results were considered significant only if p < .001. The Kaiser-Meyer-Olkin (KMO) was used as a measure of sampling adequacy to carry out an exploratory factor analysis. Tabachnick and Fidell suggested that KMO values should be equal to or above .60 in order to perform and interpret satisfactorily a factor
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analysis solution.\(^{30}\) A principal component analysis (PCA) was not used because this procedure inflates variance estimates, since it does not discriminate shared from unique variance.\(^{31}\) Instead, a principal axis factoring (PAF) extraction method was used, with an oblique factor rotation employed (promax, \(\delta = 0\)) because of potential correlation among the factors. Examination of scree-plot, inspection of eigenvalues and parallel analysis were used to determine the number of factors.\(^{32}\) SPSS syntax was used to perform the parallel analysis.\(^{33}\) Following Matsunaga,\(^{34}\) factor loadings above \(.40\) were considered relevant.

Independent samples t-tests were calculated to explore differences in BES scores between males and females, participants with and without further post-school qualifications, and Caucasian and non-Caucasian ethnicity. Finally, considering the previous relationship between CFS and beliefs about emotion, and to keep the analysis consistent with the original validation study,\(^{11}\) the sample was split according to the cut-off score on the Chalder Fatigue Questionnaire (15, for Likert scoring of the scale),\(^{35}\) with a t-test investigating differences between participants with high and low fatigue.

**Ethics**

The project was approved by the King’s College London (KCL) College Research Ethics Committee (PNM/13/14-50) and by the Department of Psychology / PUC-Rio Ethics Committee (018/2014). All participants provided informed consent and the data were anonymized.

**Results**
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The validated version of the BES showed good psychometric properties. The mean score for each BES item can be seen in Table 2. Cronbach’s alpha for the full scale was very high (α = .86), indicating excellent internal consistency. The mean of corrected item-total correlation coefficients was moderate (r = .53), ranging from r = .68 for item #11 (“It would be a sign of weakness to show my emotions in public”) to r = .18 for item #7 (“I should not let myself give in to negative feelings”). Removal of item #7 would lead to a marginal increase in internal consistency of the scale (α = .87), but the improvement was considered minimal and the item was not deleted from the scale.

PLEASE INSERT TABLE 2 HERE

Exploratory Factor Analysis

The KMO analysis revealed a value of .90, indicating very good sampling adequacy and that the correlation matrix was suitable for factor analysis. The examination of scree plot, inspection of eigenvalues and parallel analysis led to a two-factor solution which accounted for 50.9% of the variance. Results from the structure and pattern matrix were similar, with the latter being reported here because these are typically more conservative and not inflated by overlap between factors. Table 3 depicts the pattern of rotated factor loadings for this two-factor solution.

The two-factor solution of the BES-BR presented a well-defined structure, with all items having salient loadings in a single factor exclusively. There were no hyperplane items. The first factor was responsible for 40.3% of the variance with an eigenvalue of 4.8. This factor consisted of 9 items related to seeing emotions as signs of weakness and inferiority.
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and not expressing them in front of others (#1, #2, #3, #5, #6, #8, #9, #10 and #11). Factor loadings were high and yielded excellent internal consistency (α = .87). The second factor explained 10.6% of the variance with an eigenvalue of 1.2, and incorporated 3 items associated with emotional control (#4, #7 and #12). Factor loadings were moderate, and internal consistency was acceptable to poor (α = .52).

PLEASE INSERT TABLE 3 HERE

Relationship between BES and sociodemographic variables

There were significant differences based on gender, ethnicity and educational level on beliefs about emotions, but no relationship with age. Significant differences between male (mean = 35.3, SD: 12.6) and female (mean = 30.5, SD: 13.2) participants were observed in total BES score ($t$ (638) = 4.10, $p < .001$). Significant differences were also found between Caucasian (mean = 30.8, SD: 12.8) and non-Caucasian (mean = 34.7, SD: 13.9) participants ($t$ (640) = 2.81, $p = .005$). There were also significant differences according to educational level ($t$ (559) = 2.87, $p = .004$), with participants without further post-school qualifications exhibiting higher total BES scores (mean = 35.3, SD: 12.9) than participants with higher educational achievement (mean = 30.9, SD: 13.1). To explore these results further, ANCOVAs were calculated including total scores on the GAD7 and PHQ9 as covariates. For gender and ethnicity, group differences in terms of total BES scores remained unchanged. Inclusion of covariates eliminated group differences related to educational level ($p = .099$). The correlation between total BES scores and age was not significant ($r = -.01, p = .763$).
Relationship between BES and clinical variables

Correlational analysis indicated positive weak relationships between beliefs and anxiety, depression and fear of negative evaluation; results can be seen in Table 4. Total BES scores showed significant weak correlations with total scores on the FNES, PHQ9 and GAD7 (p < .001 in all cases). Similar correlations were observed for the first factor of the BES (“Emotions and their expression as a weakness”), but no significant correlations were found for the second factor (“Self-control”). A very strong correlation was found between total scores and factor 1, with moderate correlations of factor 2 with total BES scores and factor 1.

PLEASE INSERT TABLE 4 HERE

Fatigue also showed an association with beliefs about emotions. Comparing BES scores of subsamples with high (mean = 36.7, SD: 13.4) and low fatigue (mean = 33.2, SD: 14.0) indicated significant differences between these groups (t (281) = 2.08, p = .038). Using a bimodal scoring for the CFQ and the cut-off indicated in Cho et al. and Chalter et al.,26,27 a similar result was found (t (281) = 3.15, p = .002), with higher BES scores for participants with high fatigue (mean = 37.2, SD: 13.9) in comparison to those with low fatigue (mean = 32.1, SD: 13.4).
Discussion

The analysis indicated an excellent internal consistency for the validated version ($\alpha = .88$), comparable to the original scale ($\alpha = .91$).\textsuperscript{11} Item-total correlations were moderate and the item with weaker correlation was the same as in the original study. A 2-factor solution, with items loading exclusively on one of the factors, was found: the first factor accounted for most of the variance and was related to considering emotions and their expressions as signs of weakness; the second factor accounted for considerably less variance and was linked to emotional self-control. This is in disagreement with the study by Rimes and Chalder,\textsuperscript{11} which indicated that the BES is unidimensional, and may reflect cultural differences. For example, it is possible that self-control is considered a different aspect of emotional expression in a Latin American culture, known anecdotally as being more expressive than European cultures. It may be argued that a different factor-structure was obtained because the authors of the original scale used PCA for factor extraction, while the current investigation employed PAF. As indicated in the methodology, PCA was not used because it inflates variance estimates.\textsuperscript{31} In any case, further analysis using PCA instead of PAF in the current study delivered similar results, which reinforces that the 2-factor structure may reflect cross-cultural differences. Internal consistency was excellent for the first factor ($\alpha = .90$), but only acceptable for the second factor ($\alpha = .53$), suggesting some instability for this factor. Nevertheless, a two-factor structure was the best option using the current data, with factor loadings and communalities dropping in a one-factor solution. In any case, the excellent internal consistency for the full scale suggests that the BES can be used as a single scale.
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Gender differences were found in the current study, with men showing greater endorsement of beliefs about the unacceptability of experiencing or expressing negative emotions than women, a finding which was not present with a British sample. This may reflect traditional gender roles and sexist values in Brazilian society, which has higher gender inequality than the UK. According to this view, Brazilian men would see the expression of emotions as signs of weakness or less masculine behavior, in agreement with the stereotype that women are more emotional. Ethnic differences were also found, with non-Caucasian participants – the majority being from black or mixed ethnicity – showing more perfectionist beliefs. These results cannot be accounted for by differences in anxiety or depression, since ANCOVAs with these variables did not change results. One potential explanation refers to social differences, with non-Caucasian participants being from less affluent backgrounds and having more restricted access to services, including education, or holding more traditional beliefs. In agreement with that, in the current study participants with lower educational achievement also had higher BES scores, although this difference was non-significant after covarying anxiety and depression. Similar to Rimes and Chalder, there was no relationship between age and beliefs about emotion.

The relationship between beliefs about emotions and clinical variables is largely in agreement with previous studies, with significant positive correlations being found between BES scores and assessments of anxiety, depression and fear of negative evaluation. Correlations were weaker than in previous studies using the BES, particularly in the case of anxiety and depression, but this may have been caused by the use of different questionnaires to measure these constructs. The fact that these correlations
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are present with many variables but are not particularly strong reinforce the notion of beliefs about emotion as a “transdiagnostic vulnerability factor”,11 which contribute to a range of clinical problems.

The study also replicates previous findings linking perfectionist beliefs about emotions with fatigue.11,43,44 It has been suggested that maladaptive strategies used by people with dysfunctional beliefs may lead to increased distressed, which in turn may contribute to higher levels of fatigue.11 It is also possible that increased fatigue leads to more perfectionist beliefs about emotions, for example with patients with chronic fatigue being more concerned about evaluation by others in general and fearing stigma. Future studies using an experimental design manipulating either fatigue or beliefs about emotions may help to establish the direction of causality in this case.

The current study has two main related limitations: data collection was carried out online and there was no detailed assessment of participants by a clinician. Because of that, the sample may contain patients with different disorders, leading to higher scores on the BES. Nevertheless, analysis of mean scores in the clinical scales (Table 1) suggests that the prevalence of psychiatric symptoms was not particularly prominent in this sample. Online data collection may have led to sampling biases, with participants with online access showing a different profile in relation to the general population. This is important to consider for future studies using the validated scale, which may opt to expand data collection to other settings. It is also possible that people respond to the BES differently if the scale is completed online in comparison to a “paper and pencil” assessment. However, previous studies using different application procedures showed similar results for the BES.45
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In conclusion, the current study provides evidence that the Brazilian adaptation of the BES has solid psychometric properties, being suitable for the assessment of perfectionist beliefs about emotion. This highlights that the construct of beliefs about emotion is valid also in developing countries, allowing more studies to be conducted exploring this theme. Differences between this study and the validation of the original scale may be related to cross-cultural and contextual differences, such as more emphasis given to self-control in expressive societies, traditional gender roles and inequality of access to services and information according to ethnicity and educational level. The study confirms previous associations of the BES with a number of important clinical outcomes, suggesting the need of future studies exploring the impact of these beliefs on prognosis and treatment success. Additionally, studies using an experimental approach may help to determine the direction of causality between beliefs about emotions and clinical outcomes.
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References

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34. Matsunaga M. How to Factor-Analyze Your Data Right: Do’s, Don’ts, and How-To’s. Int J Psychol Res. 2010; 3(1),97–110.


40. Timmers M, Fischer A, Manstead A. Ability versus vulnerability: Beliefs about men’s


Tables

Table 1 – Socio-demographic and clinical characteristics of participants (n = 645)
### Variable Mean (SD)/ Range/ p value

<table>
<thead>
<tr>
<th>Variable</th>
<th>Mean (SD)</th>
<th>Range/ p value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Age (mv = 7)</td>
<td>34.5 (14.5)</td>
<td>18–78</td>
</tr>
<tr>
<td>Gender (female/male; mv = 7)</td>
<td>493</td>
<td>185</td>
</tr>
<tr>
<td>Educational level (with/without further education; mv = 86)</td>
<td>501</td>
<td>98</td>
</tr>
<tr>
<td>Ethnicity (Caucasian/non-Caucasian; mv = 8)</td>
<td>463/214</td>
<td>463/214</td>
</tr>
<tr>
<td>GAD7 (mv = 10)</td>
<td>7.4 (4.7)</td>
<td>0–21</td>
</tr>
<tr>
<td>PHQ9 (mv = 10)</td>
<td>8.0 (5.7)</td>
<td>0–27</td>
</tr>
<tr>
<td>CFQ (mv = 362)</td>
<td>13.3 (6.0)</td>
<td>0–31</td>
</tr>
<tr>
<td>FNES (mv = 362)</td>
<td>16.4 (7.7)</td>
<td>0–30</td>
</tr>
</tbody>
</table>

mv – missing values; FNES – Fear of Negative Evaluation Scale; PHQ – Patient Health Questionnaire; CFQ – Chalder Fatigue Questionnaire; GAD – Generalized Anxiety Disorder.

### Table 2 – Mean score for each BES item and total scale

<table>
<thead>
<tr>
<th>Items</th>
<th>Mean (SD), Range</th>
</tr>
</thead>
</table>

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<table>
<thead>
<tr>
<th>BES #</th>
<th>Score (Standard Deviation), Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>#1</td>
<td>2.1 (2.0), 0–6</td>
</tr>
<tr>
<td>#2</td>
<td>1.8 (1.7), 0–6</td>
</tr>
<tr>
<td>#3</td>
<td>2.7 (1.8), 0–6</td>
</tr>
<tr>
<td>#4</td>
<td>4.2 (1.6), 0–6</td>
</tr>
<tr>
<td>#5</td>
<td>2.1 (1.7), 0–6</td>
</tr>
<tr>
<td>#6</td>
<td>2.1 (1.7), 0–6</td>
</tr>
<tr>
<td>#7</td>
<td>4.7 (1.6), 0–6</td>
</tr>
<tr>
<td>#8</td>
<td>2.7 (2.0), 0–6</td>
</tr>
<tr>
<td>#9</td>
<td>1.6 (1.7), 0–6</td>
</tr>
<tr>
<td>#10</td>
<td>1.5 (1.8), 0–6</td>
</tr>
<tr>
<td>#11</td>
<td>2.0 (1.8), 0–6</td>
</tr>
<tr>
<td>#12</td>
<td>4.0 (1.6), 0–6</td>
</tr>
<tr>
<td>Total Score</td>
<td>31.9 (13.2), 0–72</td>
</tr>
</tbody>
</table>
Table 3 – Factor loadings for the BES items

<table>
<thead>
<tr>
<th>Item #</th>
<th>Item</th>
<th>BES Factors</th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>I</td>
<td>II</td>
<td>Communalities</td>
<td></td>
</tr>
<tr>
<td>9</td>
<td>To be acceptable to others, I must keep any difficulties or negative feelings to myself.</td>
<td>.77</td>
<td>-.07</td>
<td>.56</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>If I have difficulties I should not admit them to others.</td>
<td>.76</td>
<td>-.10</td>
<td>.52</td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>If I show signs of weakness then others will reject me.</td>
<td>.69</td>
<td>-.02</td>
<td>.46</td>
<td></td>
</tr>
<tr>
<td>11</td>
<td>It would be a sign of weakness to show my emotions in public.</td>
<td>.68</td>
<td>.11</td>
<td>.55</td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>If I am having difficulties it is important to put on a brave face.</td>
<td>.68</td>
<td>.03</td>
<td>.49</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>If I lose control of my emotions in front of others, they will think less of me.</td>
<td>.62</td>
<td>-.02</td>
<td>.40</td>
<td></td>
</tr>
<tr>
<td>1</td>
<td>It is a sign of weakness if I have miserable thoughts.</td>
<td>.58</td>
<td>-.01</td>
<td>.34</td>
<td></td>
</tr>
<tr>
<td>10</td>
<td>It is stupid to have miserable thoughts.</td>
<td>.53</td>
<td>.04</td>
<td>.31</td>
<td></td>
</tr>
<tr>
<td>8</td>
<td>I should be able to cope with difficulties on my own without turning to others for support.</td>
<td>.44</td>
<td>.24</td>
<td>.35</td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>I should be able to control my emotions.</td>
<td>.11</td>
<td>.65</td>
<td>.51</td>
<td></td>
</tr>
<tr>
<td>12</td>
<td>Others expect me to always be in control of my emotions.</td>
<td>.09</td>
<td>.44</td>
<td>.24</td>
<td></td>
</tr>
<tr>
<td>7</td>
<td>I should not let myself give in to negative feelings.</td>
<td>-.06</td>
<td>.44</td>
<td>.14</td>
<td></td>
</tr>
</tbody>
</table>

Eigenvalue: 4.8, 1.3
Variance (%): 40.3, 10.6
Cronbach’s Alpha: .90, .53

Factor loadings obtained with principal axis factoring and promax rotation; loadings greater than .40 are presented in bold.
Table 4 – Correlations between the BES and clinical variables

<table>
<thead>
<tr>
<th>Variable</th>
<th>BES Factor 1</th>
<th>BES Factor 2</th>
<th>FNES</th>
<th>PHQ9</th>
<th>GAD7</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total BES score</td>
<td><strong>.97</strong></td>
<td><strong>.60</strong></td>
<td><strong>.30</strong></td>
<td><strong>.28</strong></td>
<td><strong>.20</strong></td>
</tr>
<tr>
<td>BES Factor 1</td>
<td><strong>.39</strong></td>
<td><strong>.32</strong></td>
<td><strong>.28</strong></td>
<td><strong>.20</strong></td>
<td></td>
</tr>
<tr>
<td>BES Factor 2</td>
<td>.09</td>
<td>.13</td>
<td>.10</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Significant results are presented in bold (p < .001)
Annex

Brazilian version of the Beliefs about Emotions Scale

<table>
<thead>
<tr>
<th></th>
<th>Concorde totalmente</th>
<th>Concorde muito</th>
<th>Concorde parcialmente</th>
<th>Neutro</th>
<th>Discordo parcialmente</th>
<th>Discordo muito</th>
<th>Discordo totalmente</th>
</tr>
</thead>
<tbody>
<tr>
<td>É um sinal de fraqueza se eu tenho pensamentos tristes.</td>
<td></td>
<td></td>
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<tr>
<td>Se eu tenho dificuldades, não devo admitir-las para os outros.</td>
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<tr>
<td>Se eu perder controle das minhas emoções na frente dos outros, eles vão me achar uma pessoa inferior.</td>
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<tr>
<td>Eu deveria ser capaz de controlar minhas emoções.</td>
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<tr>
<td>Se eu estou tendo dificuldades, é importante fingir que está tudo bem.</td>
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<tr>
<td>Se eu mostrar sinais de fraqueza, os outros não me rejeitar.</td>
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<tr>
<td>Eu não deve me deixar levar por sentimentos negativos.</td>
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<tr>
<td>Eu deveria ser capaz de lidar sozinho com dificuldades, sem contar com os outros para ajuda.</td>
<td></td>
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</tr>
<tr>
<td>Para ser aceito pelos outros, eu devo guardar quaisquer dificuldades ou sentimentos negativos para mim mesmo.</td>
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<tr>
<td>É idiócie ter pensamentos tristes.</td>
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</tr>
<tr>
<td>Seria um sinal de fraqueza mostrar minhas emoções em público.</td>
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</tr>
<tr>
<td>Outros esperam que eu sempre esteja no controle de minhas emoções.</td>
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</tr>
</tbody>
</table>