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**A Capital Sin: Dispositional Envy and its Relations to Wellbeing**

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**Abstract**

Envy is a pancultural emotion felt by most individuals during their lifetime. The Dispositional Envy Scale (DES) is a 8-item self-reported measure developed to assess people’s tendencies to feel envy. This study first examines the reliability and validity of the DES in measuring envy in a Brazilian sample, and then the relationship between envy and wellbeing. The DES had acceptable reliability (internal consistency and homogeneity) as well as factorial and criterion-related validity. As expected, envy was negatively related to wellbeing measures (life satisfaction, vitality, and happiness), indicating that an envy-prone person is more likely to have low feelings of aliveness and energy, and to express unhappiness with their lives. The findings support the psychometric properties of the Brazilian-Portuguese version of the DES, and also highlight the potential impact of envy on people’s wellbeing.

**Keywords:** Envy; Wellbeing; Dispositional Envy Scale; Validity; Reliability.

“Envy is the ulcer of the soul”
(Socrates, 469-399 BC).

Research has shown that envy is found across cultures and felt by most individuals (Schoeck, 1969; Smith, Parrot, Diener, Hoyle, & Kim, 1999). Envy refers to the feelings aroused when one person desires what someone else has (Smith et al., 1999), and thus occurs when two individuals express mutual comparison (Schoeck, 1969). Although envy is sometimes confused with jealousy – and situations creating jealousy also tend to create envy – these two emotions can be theoretically and empirically distinguished (Epstein, 2006; Parrot & Smith, 1993). Differently from envy, jealously always involves three people and refers to the feelings aroused when one person is suspicious of rivals or fears losing a special relationship to another person (Parrot & Smith, 1993; Smith et al., 1999). The present study examines dispositional envy and its relations to wellbeing in a Brazilian sample.

**Measuring Dispositional Envy**

There are two principal affective components of envy: hostile and depressive components (Smith, Parrot, Ozer, & Moniz, 1994). The hostile component is associated with feelings of ill will and anger that result from subjective injustice beliefs. The depressive component is associated with feelings of inferiority that result from unfavourable social comparison. Therefore, hostile and depressive feelings in envy are respectively linked to the envying person’s subjective belief that the envied person’s advantage is unfair, and to the envying person’s sense of inferiority. Hence, people who are envy-prone

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(i.e., people with high dispositional envy) are likely to (a) be susceptible to frustration and subjective sense of injustice, and to (b) interpret upward social comparison as revealing inferiority (Smith et al., 1999; Smith et al., 1994). Independent research has also provided support for the link between envy and feelings of inferiority and ill will by showing that experienced familial injustice and relational imbalances enhance the development of envy (Luglio, 2002).

The Dispositional Envy Scale (DES) is a 8-item self-reported measure developed to assess tendencies to feel envy (Smith et al., 1999). The validity and reliability of the DES was assessed in several samples in the U.S. The item-total correlations ranged from .48 to .71; the alphas ranged from .83 to .86; the 2 weeks test-retest reliability was .80; and the DES showed a moderate correlation \(r = -.32, p < .01\) with social desirability. Although three different factor structure models (i.e., one-factor, two-factor, and bifactor models) were assessed by confirmatory factor analysis, results from both exploratory and confirmatory factors analysis indicate that the items of the DES represent a single construct.

Dispositional Envy and Wellbeing

The validity of the DES was supported by correlations with other individual differences measures. The DES was positively associated with measures linked to both inferiority (e.g., low self-esteem, depression, neuroticism, jealousy) and ill will (e.g., hostility, resentment), and negatively associated with measures of wellbeing (e.g., life satisfaction, happiness) (Smith et al., 1999). Specifically, Smith et al. (1999) found that dispositional envy was strongly and negatively related to life satisfaction across three different samples \(r_{\text{mean}} = -.38\). Similarly, dispositional envy was strongly and negatively related to an overall happiness index \(r = -.35\), and also to the percentage of time that participants feel unhappy \(r = -.25\). Dispositional envy has also been found to be positively associated with maternal grief (Barr & Cacciatoire, 2007), masochism and covert narcissism (Luglio, 2002), and interpersonal counterproductive work behaviour - behaviours aimed at inflicting personal harm on another (Cohen-Charash & Mueller, 2007). Dispositional envy has also been observed to be negatively associated with gratitude (McCullough, Emmons, & Tsang, 2002), and to be associated with higher levels of dispositional shame and lower levels of overall self-esteem (Zeelenberg & Pieters, 2007). These findings clearly indicate the link between dispositional envy and illbeing. Therefore, a negative association between the DES and wellbeing measures is expected.

The Present Study

The findings reviewed above support the reliability and validity of the DES, and also indicate that a dispositionally envious person is more likely to have low self-esteem, to feel depressed, and to express unhappiness with their lives. Although the psychometric property of the DES has been demonstrated, not many other studies have used this measure since its publication nearly ten years ago (Barr & Cacciatoire, 2007; Luglio, 2002; McCullough et al., 2002; Parks, Rubble, & Posey, 2002; Sawada & Arai, 2002). This lack of empirical studies using the DES seems to be a result of researchers’ focus on theoretical considerations of envy (e.g., Smith & Kim, 2007) rather than a focus on empirical research. The present study addresses this lack of empirical studies by examining the validity and reliability of the DES for measuring dispositional envy in another cultural context. Specifically, this study examines the reliability, construct validity, and criterion-related validity of the Brazilian-Portuguese version of the DES. Another aim of this study is to examine whether the relationship between dispositional envy and wellbeing holds in the Brazilian context.

Method

Participants and Instruments

A total of 102 undergraduate students participated in the study. Their ages ranged from 17 to 40 \((M = 22, SD = 4.55)\), and 74% were female. In addition to the DES, participants completed the Satisfaction With Life Scale (SWLS) [Diener, Emmons, Larsen, & Griffin, 1985; Gouveia, Milfont, Fonseca, & Coelho, 2009], the subjective vitality scale (Ryan & Frederick, 1997), and a single self-report happiness item (on a 7-point scale anchored by extremely unhappy and extremely happy).

Procedure and Data Analyses

The questionnaire was administered during class. The students were informed about the objectives, anonymity and confidentiality of the study. The reliability of the measures was examined in relation to the instrument’s internal consistency (Cronbach’s alpha coefficients) and homogeneity (mean inter-item correlations). Cronbach’s alpha coefficients of .70 or higher and mean inter-item correlations in the .20 to .40 range were deemed to indicate good reliability (Clark & Watson, 1995; Nunnally, 1978). Criterion-related validity was assessed by examining the correlations between DES and wellbeing measures.

Construct validity of the DES was assessed through exploratory and confirmatory factor analysis. Exploratory factor analysis was performed using principal
axis factoring, and confirmatory factor analysis was performed using LISREL and maximum-likelihood estimation procedures, taking the observed covariance matrix as the input. The degree to which the data fit the confirmatory models was assessed using the ratio of the \( \chi^2/df \), the comparative fit index (CFI), the root mean square error of approximation (RMSEA), and the standardized root mean square residual (SRMR). Models with a \( \chi^2/df \) ratio in the range of 2 to 3, and CFI, RMSEA and SRMR with values respectively close to .95, .06 and .08 or better indicate acceptable fit (Carmines & McIver, 1981; Hu & Bentler, 1999).

**Results**

**Descriptive Statistics and Reliability**

Table 1 presents the means, standard deviations, and reliabilities for each of the DES items. The factor loadings ranged from .45 to .73, item means from 1.36 to 2.21, and item-total correlations from .31 to .59. The coefficient alpha in the present study was .79, which is not significantly lower (van de Vijver & Leung, 1997) than the lower coefficient (.83) reported in the original study. The results thus suggest that each item is reliably correlated with the whole scale, and that the DES has high internal consistency.

**Table 1**

<table>
<thead>
<tr>
<th>Item</th>
<th>M</th>
<th>SD</th>
<th>ITC</th>
<th>EFA Loadings</th>
<th>CFA Loadings</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. I feel envy every day [Eu sinto inveja diariamente]</td>
<td>1.64</td>
<td>1.04</td>
<td>.59</td>
<td>.73</td>
<td>.67</td>
</tr>
<tr>
<td>2. The bitter truth is that I generally feel inferior to others [A pior verdade é que eu geralmente me sinto inferior em relação a outras pessoas]</td>
<td>1.84</td>
<td>1.26</td>
<td>.50</td>
<td>.64</td>
<td>.57</td>
</tr>
<tr>
<td>3. Feelings of envy constantly torment me [Sentimentos de inveja me atormentam constantemente]</td>
<td>1.42</td>
<td>.88</td>
<td>.55</td>
<td>.68</td>
<td>.62</td>
</tr>
<tr>
<td>4. It is so frustrating to see some people succeed so easily [É muito frustrante ver algumas pessoas terem sucesso tão facilmente]</td>
<td>2.21</td>
<td>1.37</td>
<td>.31</td>
<td>.45</td>
<td>.39</td>
</tr>
<tr>
<td>5. No matter what I do, envy always plagues me [Não importa o que eu faça, a inveja sempre me atormenta]</td>
<td>1.36</td>
<td>.87</td>
<td>.61</td>
<td>.73</td>
<td>.68</td>
</tr>
<tr>
<td>6. I am troubled by feelings of inadequacy [Eu vivo preocupado/a por sentimentos de incapacidade e inferioridade]</td>
<td>1.96</td>
<td>1.30</td>
<td>.55</td>
<td>.67</td>
<td>.60</td>
</tr>
<tr>
<td>7. It somehow doesn’t seem fair that some people seem to have all the talent [De certo modo não parece justo que algumas pessoas tenham todo o talento]</td>
<td>1.62</td>
<td>1.06</td>
<td>.47</td>
<td>.62</td>
<td>.55</td>
</tr>
<tr>
<td>8. Frankly, the success of my neighbors makes me resent them [Francamente, o sucesso de meus vizinhos me faz sentir mal e ofendido/a em relação a eles]</td>
<td>1.36</td>
<td>.87</td>
<td>.58</td>
<td>.71</td>
<td>.65</td>
</tr>
</tbody>
</table>

*Note. N = 102. EFA = exploratory factor analysis. CFA = confirmatory factor analysis. CFA loadings are standardized values and are statistically significant \( t > 1.96, p < .05 \).*

**Construct Validity**

Results from the exploratory factor analysis indicated that two eigenvalues were higher than one (3.48 and 1.22). However, the scree plot indicated a substantial drop after the first eigenvalue, and parallel analysis (Horn, 1965) also indicated that only the first eigenvalue was higher than those that would be obtained from 100 replications of random data with the same number of items and the same sample size (Fabrigar, MacCallum, Wegener, & Strahan, 1999; Watkins, 2000). This therefore suggests that only one factor should be extracted, which explained 43.5% of the total variance.

Taking into account Smith et al.’s (1999) findings as well as the results discussed above, confirmatory factor analysis was performed to evaluate the fit indices of the one-factor model of the DES. All loadings were statistically significant and ranged from .39 to .68 (see Table 1), but the indices indicated poor fit to the data: \( \chi^2 (20, N = 102) = 73.15, p < .001; \chi^2/df = 3.66; CFI = .85; RMSEA = .16 (90%CI = .12-.20); SRMR = .093. Inspection of the modification indices indicated that
items 2 and 6, and items 7 and 8 share common error variance. Because items 7 and 8 were also found to share common variance in other samples (Smith et al., 1999), this provided empirical support for modifying the confirmatory model. Allowing the errors from this pair of items to correlate, the indices indicate a better fit to the data: \( \chi^2 (19, N = 102) = 53.97, p < .001; \chi^2/df = 2.84; CFI = .90; RMSEA = .13 (90\% CI = .093-.18); \) SRMR = .080. These results suggest that the unidimensional factor structure of the DES is also adequate in this sample.

### Criterion-Related Validity

Correlations between the DES and wellbeing measures were performed and are shown in Table 2. In line with predictions, the DES was negatively correlated to all three wellbeing measures, and the correlations were moderate to high in terms of effect size (Hemphill, 2003). This indicates that tendencies to feel envy are negatively associated to life satisfaction, vitality, and happiness.

<table>
<thead>
<tr>
<th>Scale</th>
<th>No of Items</th>
<th>( \alpha )</th>
<th>Mean inter-item correlation</th>
<th>( M )</th>
<th>( SD )</th>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Envy</td>
<td>8</td>
<td>.79</td>
<td>.35</td>
<td>1.68</td>
<td>.70</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2. Life satisfaction</td>
<td>5</td>
<td>.83</td>
<td>.51</td>
<td>4.85</td>
<td>1.15</td>
<td>-.48***</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3. Vitality</td>
<td>7</td>
<td>.87</td>
<td>.52</td>
<td>5.36</td>
<td>1.17</td>
<td>-.44***</td>
<td>.62***</td>
<td></td>
<td></td>
</tr>
<tr>
<td>4. Happiness</td>
<td>1</td>
<td>—</td>
<td>—</td>
<td>5.49</td>
<td>1.30</td>
<td>-.33**</td>
<td>.51***</td>
<td>.49***</td>
<td></td>
</tr>
</tbody>
</table>

*Note. N = 102. * \( p < .05. ** p < .01. *** p < .001. Two-tailed.*

### Discussion

Envy is a pancultural emotion and thus felt by most individuals (Epstein, 2006; Schoeck, 1969). Envy is a result of subjective injustice beliefs and unfavourable social comparisons. Injustice beliefs and social comparisons lead respectively to feelings of ill will and feelings of inferiority, which form the hostile and depressive affective components of envy (Parrot & Smith, 1993; Smith et al., 1999). Smith et al. (1999) developed the Dispositional Envy Scale (DES) to assess tendencies to feel envy, demonstrating the validity and reliability of this measure in U.S. samples.

The present study contributed to the effort of assessing tendencies to feel envy by testing the validity and reliability of the Brazilian-Portuguese version of the DES. The results showed that the DES has high internal consistency and form a unidimensional factor structure. More importantly, the present study confirmed the negative relationship between envy and wellbeing. These results are in line with previous findings (Smith et al., 1999), indicating that the DES had acceptable internal reliability, criterion-related validity and construct validity in Brazil. Also in line with previous findings (Barr & Cacciato, 2007; Luglio, 2002; Smith et al., 1999), the present results showed that a dispositionally envious person is more likely to be unhappy and dissatisfied with their lives, and to have low feelings of aliveness and energy. Thus, tendencies to feel envy should be reduced if one seeks wellbeing.

Future studies should further examine the shared variance between items 7 and 8; this might indicate that these items share content overlap because are related to subjective feelings of injustice formed by another person’s achievements (Smith et al., 1999). Future studies should also further validate the DES by assessing its reliability and validity across diverse samples. The sample considered here was small in size, the gender distribution was uneven (74% female), and was composed only by undergraduate students. Given that the DES is a short measure, it could be used to assess envy in diverse samples and in large cross-cultural projects. Using the DES in diverse and cross-cultural samples would allow future studies to test the measurement invariance (e.g., Milfont, Duckitt, & Cameron, 2006) of the DES across age, gender, and cultural groups. Although research has indicated that envy is found across cultures and felt by most individuals, only a systematic cross-cultural project would provide strong empirical support for this pancultural quality of envy.

### References


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