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Is parental psychological flexibility a (uni)dimensional construct? A bifactor analysis of the Portuguese version of the Parental Acceptance Questionnaire (6-PAQ)

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Background

Parental psychological flexibility [PPF] is defined as the individual's non-judgmentally ability to accept changes and negative thoughts/emotions in relation to their parenting experience, while also engaging in value-based actions that promote good parenting practices (Burke & Moore, 2015).

The Parental Acceptance Questionnaire (6-PAQ) is a self-report questionnaire developed to measure the six core processes of psychological flexibility applied to the parenting context.

Results

1. Construct validity: (Uni)dimensionality of the 6-PAQ

- Tree models were initially tested: the one-factor model, the hierarchical model and the bifactor model. Multicollinearity problems \bullet between latent variables were identified in the hierarchical and in the bifactor model: items from the Values and from the Committed Action dimensions were combined into a single factor (Values & Committed action; 6 items), and items pertaining to the dimensions Defusion & Self as Context were also combined into a single factor (Defusion & Self as Context; 6 items). The hierarchical and the bifactor model were rerun.

Goals:

- To examine the (uni)dimensionality of the 6-PAQ scale in a sample of • Portuguese parents of children within the community using a bifactor model that can test the separate contribution of the dimensions and of the general score of PPF.
- To examine the reliability and the convergent validity of the 6-PAQ scores.

Methods

SAMPLE:

390 parents of children (1-11 years)

- 85.6% (*n* = 334) mothers;
- Mean age: 37.55 (*SD* = 5.47);
- 89.0% (*n* = 334) were currently employed;
- 57.2% (n = 223) of parents had more than one child;
- Child's mean age: 5.41 years (SD = 2.73)
- Child's gender: 54.9% (n = 214) were male

The bifactor model showed a better fit to the data compared with the unidimensional and the hierarchical models.

Unidimensional model: $X^{2}_{(135)}$ = 859.97, p < .001, CFI = .85, RMSEA = .117, 90% CI [.110, .125], p < .001 Hierarchical model: $X_{(131)}^2 = 476.22$, p < .001, CFI = .93, RMSEA = .082, 90% CI [.074, .090], p < .001Bifactor model: $X^{2}_{(118)}$ = 382.95, p < .001, CFI = .95, RMSEA = .07, 90% CI [.067, .084], p < .001



DESIGN and PROCEDURE:

Cross-sectional study Participants were recruited online (through social networks) and in-person (recruitment at schools).

MEASURES:

- Sociodemographic form
- Parental Acceptance Questionnaire [6-PAQ] | Greene, Field, Fargo, & Twohig, 2015

18 items, answered on a 4-point Likert Scale (from 1= Strongly Disagree/Never to 4 = Strongly Agree/Almost Always)

- Acceptance and Action Questionnaire-II [AAQ-II] | PV: Pinto-Gouveia, Gregório, Dinis & Xavier, 2012
- Interpersonal Mindfulness in Parenting Scale [IMP-P] | PV: Moreira & Canavarro, 2017
- Parenting Stress Scale [PSS] | PV: Mixão, Leal, & Maroco, 2010 •
- Parenting Styles and Dimensions Questionnaire [PSDQ] | PV: Pedro, Carapito, & Ribeiro, 2015

Figure 1. Bifactor model of the 6-PAQ: Standardized loadings

- Most of the items loaded strongly on the general factor than on the domain-specific factor a significant part of the shared variance of the items may be explained by the general factor of PPF.
- The index of the degree of unidimensionality (ECV) of the general factor was .59 and the PUC was .77 the general factor explains a \bullet relatively large proportion of the variance of the items (approximately 60% of the common variance), suggesting unidimensionality.

2. Reliability indices for the bifactor model

Table 1. Reliability indices

	Omega	omegaH	Relative
			Omega
General factor [PPF]	.93	.81	.870
Acceptance	.80	.32	.397
Defusion & Self-in-context	.88	.11	.120
Being Present	.77	.30	.384
Values & Committed Action	.82	.47	.577

- The general factor accounted for 87.0% of the \bullet reliable variance in the total score;
- The OmegaH values for the domain-specific factors

Discussion

- Although the 6-PAQ contains items assessing the six-core processes of PPF defined within the ACT model (Greeene et al., 2015), for the Portuguese version of the scale only the computation of a total score of PPF is currently supported and advised.
- The 6-PAQ scale showed adequate reliability and convergent validity, supporting its use in both clinical and research contexts.
- Further studies with the Portuguese version of the 6-PAQ should be conducted to:
- Clarify the (uni)dimensional structure of the scale;

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- Ascertain its validity and reliability across different population groups;
- Gather evidence that may allow the further refinement of the scale.

3. Convergent validity

Table 2. Pearson bivariate correlations between 6-PAQ scores and other related measures

	[6-PAQ] Total score
General Psychological Inflexibility [AAQ-II]	46***
Mindful parenting [IMP-P]	.75***
Parenting Stress [PSS]	56***
Parenting styles [PSDQ] – Authoritative	.49***
Parenting style [PSDQ] – Authoritarian	44***

were all below the threshold of .50;

These results are suggestive of the strength of the general factor of PPF;

- Higher PPF was significantly and moderately associated with lower general psychological inflexibility and with less frequent authoritative and more frequent authoritarian parenting styles;
- Higher PPF was largely and significantly associated with lower levels of parenting stress and higher levels of mindful parenting;