

PSYCHOMETRIC PROPERTIES FROM A SPANISH VALIDATION OF DEPRESSIVE EXPERIENCES QUESTIONNAIRE (DEQ)

PROPIEDADES PSICOMÉTRICAS DE LA VALIDACIÓN ESPAÑOLA DEL CUESTIONARIO DE EXPERIENCIAS DEPRESIVAS

LETICIA LINARES¹, DAVID HERRERO-FERNÁNDEZ¹,
LEIRE IRIARTE¹ Y ANA ESTÉVEZ¹

Cómo referenciar este artículo/How to reference this article:

Linares, L., Herrero-Fernández, D., Iriarte, L., & Estévez, A. (2017). Psychometric Properties from a Spanish Validation of Depressive Experiences Questionnaire (DEQ) [Propiedades psicométricas de la validación Española del Cuestionario de Experiencias Depresivas]. *Acción Psicológica*, 14(1), 137-150. <http://dx.doi.org/10.5944/ap.14.1.17989>

Abstract

Introduction: This study assessed the psychometric properties of the Spanish translation of the Depressive Experiences Questionnaire (DEQ). This questionnaire measures two different personality dimensions vulnerable to two different subtypes of depression, anaclitic depression and introjective depression, respectively. **Objectives:** The aims of this study are to assess the psychometric properties of Spanish translation of Depressive Experiences Questionnaire and its relationship with attachment styles. **Method:** The sample ($N = 416$) consisted

of undergraduate students with a mean of 27.63 ($ST = 10.98$) years old. The administration was collective and taken under the supervision of the researcher. **Results:** The results showed good internal consistency, similar to that of other studies. The findings showed significant relationships with other instruments measuring depressive symptomatology and confirmed the hypothesis of a relationship between the DEQ and attachment style. **Conclusion:** The Spanish version of the DEQ could be an instrument for distinguishing the types of personality vulnerability to different expressions of depression in the Spanish population.

Correspondencia: Leticia Linares: Universidad de Deusto.

Email: leticia.linares@deusto.es

¹Universidad de Deusto, España.

Recibido: 23 de enero de 2017.

Aceptado: 19 de mayo de 2017.

Keywords: depression; personality; vulnerability; attachment; assesment.

Resumen

Introducción: Este estudio evaluó las propiedades psicométricas del Cuestionario de Experiencias Depresivas en español, que mide dos dimensiones de la personalidad relacionadas con dos subtipos diferentes de depresión, depresión anaclítica y depresión introyectiva, respectivamente. **Objetivo:** Los objetivos de este estudio son comprobar las propiedades psicométricas del instrumento en población española y su relación con los estilos de apego. **Método:** La muestra ha sido de 416 personas y está formada por universitarios con una media de 27.63 ($DT = 10.98$) años de edad. La evaluación fue colectiva y llevada bajo la supervisión del investigador. **Resultados:** Los resultados han mostrado una buena consistencia interna, similar a la de otros estudios, así como relaciones significativas con otros instrumentos de evaluación de sintomatología depresiva y del apego. **Conclusiones:** La versión española del DEQ pueden ser un instrumento para distinguir los tipos de personalidad vulnerables a las diferentes expresiones de la depresión en la población española.

Palabras clave: depresión; personalidad; vulnerabilidad; apego; evaluación.

Introduction

Depression is a common mental disorder that is experienced globally by more than 350 million people of all ages. It is the leading cause of disability worldwide and is a major contributor to the global burden of disease (WHO, 2012). The health of 14.6 % of the Spanish population is directly affected by depression (INE, 2013). Depression has heterogenic psychological symptoms that significantly affect the individual's capacity to function (APA, 2013). Several models have highlighted the role of personality in predisposing towards depression (Clark, Watson, & Mineka, 1994). One of the most important

vulnerability models for depression was proposed by Blatt (2004), and this model was derived from cognitive development and attachment theories. This theory formulated a model of personality development based along two fundamental lines: self-definition and relatedness. Relatedness was defined as “the capacity to establish increasingly mature, reciprocal and satisfying interpersonal relationships”, whereas self-definition processes involved “the development of a realistic, essentially positive and increasingly integrated self-definition and self-identity” (Blatt, 1991, p. 453). In normal personality development, these two processes evolve into balanced and flexible functioning (Kopala-Sibley, Zuroff, Hermanto, & Joyal-Desmarais, 2016). Thus, an overemphasis on relatedness would characterize dependent individuals, and rigid functioning in self-definition would correspond to a self-critical personality style. Each personality style is linked to two subtypes of depression. Individuals with an emphasis on relatedness aspects would have a predisposition towards developing anaclitic depression. Anaclitic depression would be activated by disruptions of gratifying interpersonal relationships. People with this type of depression would express intense fear of being abandoned and a sense of helplessness. By contrast, people with a main emphasis on self-definition would present tendencies towards developing introjective depression. The activation of this type of depression would be related to disruptions of a positive sense of self –failure– (Blatt, 2004). These patients worry about loss of approval and recognition from others (Yao, Fang, Zhu, & Zuroff, 2009). This type of depression is typified by feelings of guilt, self-criticism and self-doubt (Blatt, Shahar, & Zuroff, 2001). These depressive personality styles have found similarities with other contemporary theories (Clark et al., 1994). Anaclitic patients would gain benefit from short-term supportive therapy because they can connect more easily with therapists. By contrast, introjective patients would require more revealing interpretations in long-term treatment because they have greater difficulties in connecting with others, and projection mechanisms are at the core of their suffering (Blatt, 2004; Zuroff, Sadikaj, Kelly, & Leybman, 2016). The literature on anaclitic depression is not as voluminous as that on introjective depression. It is relatively difficult to diagnose anaclitic depression due to the poor level of mental representations, which increases the presence of

drug abuse or somatization, and the absence of reflectiveness on the part of patients about their feelings, particularly about sadness (Blatt et al., 2001).

A questionnaire developed to measure experiences related to the two subtypes of depression was the Depressive Experiences Questionnaire (DEQ, Blatt, D'Afflitti, & Quinlan, 1979). The statements on the DEQ did not reflect common depressive symptoms, nor were they based on experiences reported by depressed patients (Zuroff, Moskowitz, Wielgus, Powers, & Franko, 1983). Initially, the DEQ was constructed using non-clinical samples. The results showed three factors: (1) Dependency, corresponding to the anaclitic personality dimension; (2) Self-Criticism (failure), representing the introjective dimension; and (3) Efficacy. Dependency involved items referring to interpersonal relationships and included themes of abandonment, desire for proximity to others, feelings of helplessness and difficulty in managing aggressiveness. In this factor, two subscales have been identified. One subscale (relatedness) includes items considering feelings of loss and loneliness in reaction to disruption of a particular relationship. In contrast, the second subscale (dependence) refers to items expressing feelings of helplessness and fears about separation; and concerns about possible loss more generally without a link to a particular relationship (Blatt, Zohar, Quinlan, Zuroff, & Mongrain, 1995; Campos, Mesquita, Besser, & Blatt, 2014). The second factor was more internally oriented and involved items concerned with feeling guilty, empty, hopeless, and unsatisfied, failure to meet expectations, difficulties in assuming responsibility, ambivalence towards oneself and others and the tendency to be critical towards oneself. Finally, the third factor referred to a positive sense of self and others, expressed by confidence in one's acceptance and independence. This factor showed a resilient dimension in the prediction of depression (Blatt et al., 1995; Campos, Besser, Abreu, Parreira, & Blatt, 2014). Thus, the questionnaire measured four different factors, Dependence, Relatedness, Self-Criticism and Efficacy. The questionnaire measures the two personality dimensions related to the vulnerability of developing one or the other type of depression. Mild deviations from the two factors fall within the normal range, whereas more extensive deviations result in psychopathology (Yao et al., 2009). The most recent re-

vision of Unit Weighted Dependency and Self-Criticism scales has identified sets of unit-weighted items that preserve the original DEQ scales (Santor, Zuroff, & Fielding, 1997).

The questionnaire has been compared with other instruments, including the Beck Depression Inventory and Center for Epidemiologic Studies Depression Scale (CESD; Yao et al., 2009). The Self-Criticism factor has tended to show stronger correlations with these instruments. These results suggest that there has been negligence in measuring the Dependency personality dimension as an expression of vulnerability to anaclitic depression. Several studies (Blatt, 2004) have distinguished three types of depression: high scores in Dependency, high scores in Self-Criticism and high scores in both factors. This last form would be the most vulnerable to developing depression. Different results have been reported for the Efficacy factor in several studies. In the original study, the internal consistency varied between .72 and .83, and the sample consisted of college students with significant differences between the men and women, showing higher scores of Self-criticisms for men and higher scores of Dependency for women (Blatt, 2004). The instrument has been replicated several times, showing similar results of .69 to .80 for internal consistency (Zuroff, Igreja, & Mongrain, 1990). High scores have not been reported for the Efficacy factor in several replications (Boucher, Cyr, & Fortin, 2006). The validation of the questionnaire in other cultures has normally focused on factorial analysis, subscale correlations and comparison of the weight of the factors using the original sample. The results of the questionnaire in different languages have shown good internal consistency; ranged from .63 to .94 (Ahmad & Soenens, 2010; Boucher et al., 2006; Campos, 2000; Campos, Besser, & Blatt, 2013; Yao et al., 2009). The structural model found in the different languages was Portuguese (dependency, self-criticism and efficacy), French (dependency, self-criticism (with low weight) and efficacy), Arab (dependency and self-criticism), Chinese (dependence, relatedness, self-criticism and efficacy).

To the knowledge of the authors, literature reviews have shown no studies published about the DEQ in Spain, and this instrument could facilitate adequate

treatment for depression, depending on the type of depressive structure that the subject presents. In this study, validation of the DEQ in an undergraduate population was undertaken, including convergent and discriminant validity. For this reason, the goals of this study were (1) to analyse DEQ constructs in an undergraduate Spanish population and their factor structure. Initially, a four-factor structure was hypothesized: Dependence, Self-Criticism, Relatedness and Efficacy, (2) to determine the predictive capacity of the DEQ in depressive symptoms and (3) to analyse the relationship between depressive structures and attachment styles.

Method

Participantes

Four hundred and sixteen participants were enrolled in the study. The participants were aged 18 to 67 years, with a mean age of 27.63 years ($SD = 10.98$). Three hundred and fourteen of them were women (75.4 %) and 102 (24.6 %) were men. The participants were recruited from the general population of the province of Bizkaia (Spain). They were recruited among college students, students from an adult education centre and people participating in social network, thus constituting a convenience sample. The inclusion criterion was being 18 years old or older. Most of the participants ($n = 334$, 80.3 %) were current college students or had completed their university studies, whereas 42 of them (10.1 %) had completed secondary education studies, 36 (8.7 %) or technical studies, and only one of them (0.2%) had completed only primary education studies. Three of the participants (0.7 %) did not inform their academic level. Finally, 81 % of the participants ($n = 337$) were single, whereas 15.3 % ($n = 64$) were married or engaged in a common-law-marriage. Only 1.9 % ($n = 8$) were divorced, and 0.7 % ($n = 3$) were widowed. There was no available information about four of the participants (1 %).

Instruments

An ad-hoc sociodemographic questionnaire was completed by the participants to collect information about age, gender, marital status and working situation, and mental health assistance received.

DEQ (Blatt, D'Afflitti, & Quinlan, 1979) includes 66 Likert-scale items of seven points, from 1 = "strongly disagree" to 7 = "strongly agree". For the purposes of this study, a Spanish version was developed following the steps explained in the procedure, because one did not exist before.

The Center for Epidemiologic Studies Depression Scale (CESD) is a screening test for depression and depressive disorder, which measures symptoms defined by the American Psychiatric Association's Diagnostic and Statistical Manual, 5th version revised (APA, 2013), for a major depressive episode. It was created by Radloff (1977). It is one of the most commonly used instruments for depression epidemiology worldwide. For its use in a Spanish population, the adaptation developed by Vazquez, Blanco and López (2007) was used. It is a self-administered scale consisting of 20 items. Each item is answered according to a Likert-type scale of four response options, ranging from 0 (rarely or never) to 3 (most of the time). It provides a score of depressive symptoms for the previous week. The internal consistency of the instrument in the present study was high ($\alpha = .87$), as well as in the study of the Spanish adaptation ($\alpha = .89$).

The Relationship Questionnaire (RQ; Bartholomew & Horowitz, 1991) is a brief self-report instrument that evaluates the attachment style and underlying dimensions, called by the authors the model of self and model of others. The RQ consists of four paragraphs describing prototypes of the four attachment styles: secure, worried, fearful and avoidant. Participants must choose the paragraph that best describes themselves and then score the extent to which they identify with each of the prototypes using a scale of 7 points, ranging from "totally disagree" to "totally agree". The Spanish version of the RQ employed was developed by Alonso-Arbiol (2000). Given that this questionnaire is composed of four

individual items which are not grouped into factors, internal consistency is not relevant in this case.

Procedures

The recruitment of the sample was undertaken among college students, students from an adult education centre and participants in a social network.

The survey was conducted collectively in the case of the college students. In the adult education centre the administration was individual. Facebook was used for the diffusion of the questionnaires in other cases.

In all cases, the participants received the necessary instructions, and at the same time, the voluntary nature of their participation was emphasized, and the anonymity and confidentiality of their responses were guaranteed.

To obtain a Spanish version of the DEQ, the instrument was translated and conceptually adapted to our context and then back-translated into the original language (Behling & McFillen, 2000).

Data Analysis

The statistical analysis was based on three parts. In the first part, the internal consistency of the instrument was analysed using Cronbach's α and composite reliability index (as usually Cronbach's α underestimates the reliability in ordinal measures) to verify whether the hypothesized factors of the DEQ were consistent, and each item was correlated with the belonging factor, with those with low correlations subsequently discarded. Then, confirmatory factor analysis (CFA) was conducted with the selected items, following the robust diagonally weighted least squares method of parameter estimation. This is the most recommendable method for use with ordinal data and when multivariate normality is not assumed (Mindrila, 2010). The fit of the model was assessed using six indices: the quotient between $\chi^2_{\text{Satorra-Bentler}}$ and the degrees of freedom of the model, the value of which must be less than 3 to accept the fit of the model (Carmines & McIver, 1981); the *Comparative Fit*

Index (CFI), the *Non-Normed Fit Index* (NNFI), the *Goodness of Fit Index* (GFI) and the *Adjusted Goodness of Fit Index* (AGFI), the values of which must be greater than .90 (Bentler & Bonnet, 1980); and the the *Root Mean Squared Error of Approximation* (RMSEA), the value of which must be less than .08 (Hu & Bentler, 1999). Finally, in the last two models, given that several pairs of items with correlated errors were established, the Cross-Validation Index was computed. In this case, with the lower is the value, the better is the fit (Browne & Cudeck, 1993).

After verifying the factorial structure of the DEQ, a descriptive analysis, both of the items and of the factors, was performed, calculating the mean, standard deviation and asymmetry. Subsequently, convergent and discriminant validity analysis of the DEQ was performed through the calculation of correlations (Pearson's r) and multiple regression models among the factors of the DEQ and the other questionnaires.

All of the statistical analyses were conducted with IBM SPSS Statistics v. 22.0, except for the confirmatory factor analyses, which were carried out with Lisrel 8.80.

Resultados

Psychometric Analysis

First, psychometric analysis of the instrument was performed, so the internal consistency and composite reliability (CR) of the hypothesized factors was calculated, and CFA was then conducted to verify the original factorial structure of the instrument.

The results showed that the Efficacy factor had very low internal consistency ($\alpha = .47$; CR = .50), so it was discarded. This factor was composed of eight items: "1. I set my personal goals and standards as high as possible"; "14. I enjoy sharp competition with others"; "15. I feel I have many responsibilities that I must meet"; "24. Other people have high expectations of me"; "33. I have many inner resources (abilities, strengths)"; "59. What I do and say has a very strong impact on those around me"; "60. I

sometimes feel that I am “special”; “62. I am very satisfied with myself and my accomplishments”; and “66. I very frequently compare myself to standard or goals”.

Regarding the other three factors (Dependence, Self-Criticism, and Relatedness), their consistency was high, although there were some items that were removed because of weak correlations shown with their respective factors (Table 1). From these results, the factorial struc-

ture was analysed. Thus, two factorial structures were compared (Appendix A). The first model, according to which the questionnaire consisted of two factors (the first factor, Dependence, including all the items from Dependence and Relatedness; and the second factor, Self-Criticism), showed an unacceptable global fit of the model to the data according to the parsimony and absolute fit indices: $\chi^2_{\text{Satorra-Bentler}} / df = 4.50$, CFI = .90, NNFI = .89, GFI = .93, AGFI = .92, RMSEA = .093

Table 1.

Descriptive statistics of the DEQ items and factors (Mean, Standard Deviation, Asymmetry, Correlation item-total, consistence of the factor if the item was removed, factor load and error of estimation).

Ítem / factor	M	SD	Asim.	Corr. Ítem-Total	Consistence without item	Factor load (λ)	Error of Estimation (δ)
<i>Dependence</i> ($\alpha = .82$; CR = .83)	68.12	12.34	0.12	-	-	-	-
2	4.51	1.57	-0.23	.41	.80	.39	.85
6	2.66	1.31	0.70	.37	.80	.46	.79
11	3.66	1.55	0.16	.50	.79	.66	.56
19	4.49	1.76	-0.34	.58	.79	.59	.65
22	3.85	1.74	-0.02	.42	.80	.49	.76
23	4.26	1.72	-0.19	.52	.79	.52	.73
26	4.47	1.56	-0.26	.33	.81	.37	.86
27	3.99	1.66	-0.12	.31	.81	.35	.88
28	4.19	1.59	-0.14	.56	.79	.66	.56
30	2.86	1.53	0.67	.47	.80	.65	.57
35	2.99	1.62	0.50	.46	.80	.56	.68
37	3.76	1.52	0.04	.42	.80	.47	.78
42	3.41	1.45	0.32	.37	.80	.38	.85
58	3.25	1.77	0.38	.42	.80	.52	.73
<i>Self-Critique</i> ($\alpha = .85$; CR = .86)	39.43	11.09	0.11	-	-	-	-
7	3.25	1.46	0.44	.47	.83	.48	.77
10	3.93	1.61	-0.08	.46	.83	.63	.60
13	3.35	1.56	0.34	.60	.82	.63	.60
16	3.66	1.75	0.23	.64	.82	.69	.53
17	3.30	1.65	0.39	.56	.82	.58	.66
36	3.30	1.81	0.41	.68	.81	.77	.41
41	3.91	1.53	0.06	.51	.83	.63	.60
43	3.06	1.56	0.58	.61	.82	.66	.56
51	3.39	1.61	0.34	.35	.84	.43	.82
64	4.68	1.58	-0.44	.58	.82	.65	.58
<i>Relatedness</i> ($\alpha = .71$; CR = .74)	37.60	7.06	0.03	-	-	-	-
9	5.77	1.37	-1.24	.31	.70	.31	.90
20	4.92	1.56	-0.65	.49	.66	.60	.65
32	5.36	1.13	-0.63	.43	.68	.42	.83
34	4.50	1.63	-0.37	.37	.69	.44	.81
45	4.51	1.84	-0.58	.29	.72	.44	.80
50	4.33	1.55	-0.26	.54	.65	.70	.51
55	3.90	1.66	0.04	.45	.67	.65	.58
65	4.17	1.75	-0.10	.41	.68	.54	.71

Note. The factors were correlated each other: Dependence – Self-Critique: $\phi = .92$; Dependence – Relatedness: $\phi = .84$; Self-Critique – Relatedness: $\phi = .57$.

(90% C.I.: .089 – .097). The second model analysed the fit of the questionnaire in three correlated factors: Dependence, Relatedness and Self-Critique. The results also showed a poor fit, $\chi^2_{\text{Satorra-Bentler}}/df = 3.69$, CFI = .92, NNFI = .91, GFI = .94; AGFI = .93, RMSEA = .082 (90% C.I.: .078 – .086). However, the Lagrange multiplier test suggested that the global fit of the model would improve by correlating the errors of 10 pairs of items (Table 2), so a new structural model was attempted. No redundancy was found. The results indicated a better global fit in all of the assessed indices: $\chi^2_{\text{Satorra-Bentler}}/df = 2.82$, CFI = .95, NNFI = .94, GFI = .94, AGFI = .93, RMSEA = .067 (90% C.I.: .063 – .071). It was verified a better fit of this model compared with the model without correlated errors, according to not only the χ^2 -test (which tends to be significant in large samples), $\chi^2(10) = 430.82$, $p < .001$, but also to the Chen’s criterion, $\Delta CFI = .03$; $\Delta RMSEA = .015$ (Chen, 2007). Finally, the Cross-Validation Index was analyzed in order to assess the adequacy of the model with correlated errors in the 10 pair of items. The results showed a lower value in the model with correlated errors (ECVI = 3.40, 90% C.I: 3.15 – 3.66) than in the model without correlated errors (ECVI = 4.46, 90% C.I: 4.17 – 4.77). Therefore, the model with correlated errors was supported empirically. Thus, the factors were labelled according to the original version of the questionnaire: “Dependence” (17 items), “Self-Criticism” (11 items) and “Relatedness” (8 items). In the case of the Dependence factor, three of the items were removed because of their low correlation with the total factor ($r < .30$). In the case of the Self-Critique factor, one item was discarded for the same reason.

Table 2.

Correlation coefficients (Pearson’s r) among the DEQ factors and the validity measures.

Pairs of items	Error correlation
Item 2 – Item 19	.68
Item 2 – Item 23	.40
Item 7 – Item 13	.25
Item 9 – Item 65	.52
Item 16 – Item 17	.35
Item 16 – Item 36	.28
Item 19 – Item 23	.47
Item 26 – Item 27	.49
Item 26 – Item 28	.49
Item 41 – Item 43	.26

Descriptive Analysis of the Questionnaire

Subsequently, descriptive analysis of the items and factors was performed. The results are detailed in Table 1. As can be seen, the mean scores of the items were between 2.66 (item 6) and 5.77 (item 9). In addition, all of the items and factors had asymmetry coefficients within the limits of normality (± 1) except for item 9, which had slightly greater asymmetry.

Analysis of Convergent Validity

To analyse convergent validity, Pearson’s correlation coefficients were calculated with measurements of depression and attachment. The results are shown in Table 3. As can be seen, the DEQ factors were correlated positively and significantly with each other and with the depression measurement of the CESD, which supported the convergent validity of the instrument. Regarding the RQ

Table 3.

Correlation coefficients (Pearson’s r) among the DEQ factors and the validity measures.

	1	2	3	4	5	6	7	8
1.Dependence	-							
2.Self-Critique	.71***	-						
3.Relatedness	.69***	.42***	-					
4.Total DEQ	.94***	.86***	.76***	-				
5.Depression	.39***	.47***	.21***	.43***	-			
6.Att. Secure	-.25***	-.26***	-.10**	-.25***	-.31***	-		
7.Att. Avoidant	-.19***	-.09	-.26***	-.20***	-.07	.07	-	
8.Att. Anxious	.45***	.41***	.31***	.46***	.25**	-.34***	-.07	-
9.Att. Desorg.	.30***	.29***	.10**	.28***	.22**	-.49***	.01	.22***

Note. Att. secure = secure attachment, att. avoidant = avoidant attachment, att. anxious = anxious attachment, att. desorg. = desorganized attachment. * $p < .05$, ** $p < .01$, *** $p < .001$.

measurements, both the individual DEQ factors and the global score were correlated negatively and significantly with secure and evitative styles, whereas they were positively and significantly correlated with disorganized and anxious styles. These findings indicated convergent and discriminant validity of the DEQ.

Finally, the multivariate relationships among each DEQ subscale and the predictors were analysed through multiple regressions to test more accurately the convergent and discriminant validity. The results are shown in Table 4 (Dependence), Table 5 (Self-Criticism), Table 6 (Relatedness) and Table 7 (Total score). As can be seen, in general, depression and anxious attachment were the strongest predictors of the DEQ subscales and total score, whereas secure attachment did not attain significance in any of the cases.

Table 4.

Multiple regression predicting the score of Dependence.

	B	E.T. B	β
Depression	0.25	0.05	.25*
Ac. Secure	0.29	0.43	.04
Ac. Avoidant	-1.26	0.35	-.15*
Ac. Anxious	2.61	0.35	.34*
Ac. Desorg.	1.34	0.35	.19*

Note. Dependence: $R^2 = .33$ ($p < .001$). * $p < .001$.

Table 5.

Multiple regression predicting the score of Self-Critique.

	B	E.T. B	β
Depression	0.34	0.04	.37*
Ac. Secure	0.15	0.39	.02
Ac. Avoidant	-0.21	0.31	-.03
Ac. Anxious	1.89	0.31	.28*
Ac. Desorg.	1.05	0.31	.17*

Note. Dependence: $R^2 = .33$ ($p < .001$). * $p < .001$.

Table 6.

Multiple regression predicting the score of Relatedness.

	B	E.T. B	β
Depression	0.08	0.03	.14*
Ac. Secure	0.26	0.28	.05
Ac. Avoidant	-1.11	0.22	-.24**
Ac. Anxious	1.11	0.23	.25*
Ac. Desorg.	0.21	0.22	.05

Note. Dependence: $R^2 = .16$ ($p < .001$). * $p < .01$, ** $p < .001$.

Table 7.

Multiple regression predicting the score of Total score of the DEQ.

	B	E.T. B	β
Depression	0.67	0.10	.31*
Ac. Secure	0.70	0.91	.04
Ac. Avoidant	-2.57	0.73	-.15*
Ac. Anxious	5.62	0.74	.34*
Ac. Desorg.	2.60	0.73	.17*

Note. Dependence: $R^2 = .36$ ($p < .001$). * $p < .001$.

Discussion

The aim of this study was to assess the psychometric properties of the Spanish version of the DEQ. The results showed a good fit of the three reliable factors to the model, similar to the original research, in which three different factors emerged: Self-Criticism, Dependency and Efficacy (Blatt, 2004). The results did not support the internal consistency of the Efficacy factor, so it was discarded. Several studies have discarded the Efficacy factor because of its low weight (Zuroff et al., 1983). Thus, the instrument was organized in a three-factor model, based on previous publications (Blatt et al., 1995). In this model, the Dependency factor was divided into Dependence and Relatedness. In the CFA, both dependency and relatedness were strongly related. However, the Dependence factor is related to feelings of helplessness, whereas Relatedness is related to feelings of loss and loneliness. Both factors refer to a disruption or a separation. These two factors submit to different developmental levels; Dependence is the most primitive,

whereas Relatedness shows a more mature style of experiencing loss (Blatt et al., 1995). All of this could be the reason of the strong association between these two factors. However, theoretical differences should be observed to maintain both individual factors instead of only general one.

In this three-factor model, pair of errors was correlated to improve the fit of the model. These correlations indicated a possible redundancy in these pairs of items, thereby improving the fit of the model. Pairs formed by Item 2 – Item 19, Item 7 – Item 13, Item 9 – Item 65, Item 19 – Item 23 and Item 41 – Item 43 could be measuring similar aspects. The results showed a normal distribution of the score of the items and of the total score of factors, according to the skewness data. The highest factor loadings of the items in each factor differ from the original res. From the Dependence factor three items were discarded “46. Anger frightens me”, “52. After a fight with a friend, I must make amends as soon as possible” and “56. In my relationships with others, I am very concerned about what they can give to me”. These three items seem to refer more to Relatedness factor. Regarding the Self-Criticism factor, item 53 was removed (“I have a difficult time accepting weaknesses in myself”). This item could be referring to a very general aspect of self-criticism.

In the third level of analysis, convergent and divergent validity were tested. DEQ was compared with CESD. The results showed that depressive symptomatology had a stronger correlation with Self-Criticism than the correlations between the CESD and the Dependency factor and between the CESD and the Relatedness factor. Other studies have confirmed these results, showing a stronger correlation between Self-Criticism and the instrument used for the measurement of depressive symptoms (Kopala-Sibley, Zuroff, Hankin, & Abela, 2015). These results confirmed the negligence in diagnosing depression in anaclitic patients (Yao et al., 2009).

Differences in the intensity of depressive symptoms appeared between the Relatedness and Dependence factors. The strength of the correlation was higher between Dependency and the CESD than between Relatedness and the CESD. Relatedness expresses more mature strat-

egies, whereas the Dependency factor is more primitive. Consequently, more severe pathology is expected in the Dependency factor (Blatt et al., 1995).

Divergent validity was analysed based on a comparison between the DEQ and RQ questionnaires. Blatt's theory noted the relationship between attachment and the development of the Dependency or the Self-Criticism personality dimensions (Blatt & Homann, 1992). Several investigations confirmed these relationships with the results indicating a relationship between Dependency and Anxious attachment style and another relationship between Self-Criticism and Dismissing attachment style (Ahmad et al., 2010; Bers, Besser, Harpaz-Rotem, & Blatt, 2013; Tondar, Campos, Shakiba, Dadkhah, & Blatt, 2016), as well as higher scores for the correlation between Dependency and Anxious attachment. However, correlations between Self-Criticism and the Dismissing attachment style were not significant, although they were nevertheless strong than those for the Dismissing and Dependency styles (Ahmad & Soenens, 2010). The Self-Criticism factor requires further investigation into its resilient or mature patterns, as with those found for Dependency.

This study was not exempt from limitations. First, its cross-sectional design did not allow for the extrapolation of causal relationships. Second, the normative sample consisted of undergraduate students. Therefore, it would be interesting to conduct further studies with clinical samples. Third, the data were obtained through the Internet and using a paper-and-pencil version. Some studies have shown that scores could be influenced by the method of application; nevertheless, a recent study conducted by Herrero-Fernández (2015) showed similar psychometric properties in both versions.

Future studies should be oriented towards the strengths of personality that this questionnaire could show by clarification of the Efficacy factor and replication of the structure with the Connectedness and Efficacy factors as resilient aspects of Dependency and Self-Criticism, respectively (Besser & Priel, 2005).

References

- Ahmad, I. & Soenens, B. (2010). Perceived Maternal Parenting as a Mediator of the Intergenerational Similarity of Dependency and Self-Criticism: A Study with Arab Jordanian Adolescents and Their Mothers. *Journal of Family Psychology*, 24(6), 756-765. <http://dx.doi.org/10.1037/a0021508>.
- Alonso-Arbiol, I. (2000). *Atxikimendu ineguru eta genero rolak pertsonarteko mendekotasunaren korrelatu gisa [Stylistic and gender roles as adhesions correlates of interpersonal dependency]*. (Tesis doctoral), Universidad del País Vasco/Euskal Herriko Unibertsitatea, San Sebastián.
- American Psychiatric Association (2013). *DSM-V: Diagnostic and statistical manual of mental disorders*: 5th edition. Washington: Author.
- Bartholomew, K. & Horowitz, L. M. (1991). Attachment styles among young adults: A test of a four-category model. *Journal of Personality and Social Psychology*, 61(2), 226-244.
- Behling O. & McFillen J. M. (2000) *Translating questionnaires and other research instruments. Problems and solutions*. London, UK: Sage.
- Bentler, P. M. & Bonnet, D. G. (1980). Significance test and goodness of fit in the analysis of covariance structures. *Psychological Bulletin*, 88, 588-606.
- Bers, S. A., Besser, A., Harpaz-Rotem, I., & Blatt, S. J. (2013). An Empirical Exploration of the Dynamics of Anorexia Nervosa: Representations of Self, Mother, and Father. *Psychoanalytic Psychology*, 30(2), 188-209. <http://dx.doi.org/10.1037/a0032512>
- Besser, A. & Priel, B. (2005). Interpersonal Relatedness and Self-Definition in Late Adulthood Depression: Personality Predispositions, and Protective Factors. *Social Behavior and Personality: An International Journal*, 33(4), 351-382. <http://dx.doi.org/10.2224/sbp.2005.33.4.351>
- Blatt, S. J. (1991). A Cognitive Morphology of Psychopathology. *Journal of Nervous and Mental Disease*, 179, 449-458.
- Blatt, S. (2004). *Experiences of Depression. Theoretical, Clinical and Research Perspectives*. Washington: American Psychological Association.
- Blatt, S. J. & Homann, E. (1992). Parent-Child Interaction in the Etiology of Dependent and Self-Critical Depression. *Clinical Psychology Review*, 72, 47-91.
- Blatt, S. J., Shahar, G., & Zuroff, D. C. (2001). Anaclitic (Sociotropic) and Introjective (Autonomous) dimensions. *Psychotherapy: Theory, Research, Practice, Training*, 38(4), 449-454.
- Blatt, S., D'Afflitti, J., & Quinlan, D. (1979). Depressive Experiences Questionnaire. Unpublished Manual, Yale University, New Haven, CT.
- Blatt, S. J., Zohar, A. H., Quinlan, D. M., Zuroff, D. C. & Mongrain, M. (1995). Subscales within the Dependency Factor of the Depressive Experiences Questionnaire. *Journal of Personality Assessment*, 64(2), 319-339.
- Boucher, S., Cyr, M., & Fortin, A. (2006). Propriétés psychométriques d'une version canadienne-française du Questionnaire des expériences dépressives. *Canadian Journal of Behavioural Science/Revue Canadienne des Sciences Du Comportement*, 38(3), 230-237. <http://dx.doi.org/10.1037/cjbs2006010>
- Browne, M. W., & Cudeck, R. (1993). Alternative Ways of Assessing Fit. In K. A. Bollen (Ed.), *Testing Structural Equation Models* (pp. 136-162). Newbury Park, CA: Sage.
- Campos, R. C. (2000). Adaptação do Questionário de Experiências Depressivas (de Sidney Blatt e colegas) para a população portuguesa. *Análise Psicológica*, 18(3), 285-309.

- Campos, R. C., Besser, A., & Blatt, S. J. (2013). The Portuguese Version of the Depressive Experiences Questionnaire (DEQ): Results from a Validation Program in Clinical and non-Clinical Samples. *Spanish Journal of Psychology*, 16, 103, 1-13. <http://dx.doi.org/10.1017/sjp.2013.104>
- Campos, R. C., Besser, A., Abreu, H., Parreira, T., & Blatt, S. J. (2014). Personality vulnerabilities in adolescent suicidality: The mediating role of psychological distress. *Bulletin of the Menninger Clinic*, 78(2), 115-139. <http://dx.doi.org/10.1521/bumc.2014.78.2.115>
- Campos, R. C., Mesquita, I., Besser, A., & Blatt, S. J. (2014). Neediness and Depression in Women. *Bulletin of the Menninger Clinic*, 78(1), 16-33. <http://dx.doi.org/10.1521/bumc.2014.78.1.16>
- Carmines, E. G. & McIver, J. P. (1981). Analyzing Models with Unobserved Variables: Analysis of Covariance Structures. In G. W. Bohrnstedt & E. F. Borgatta (Eds.), *Social Measurement: Current Issues* (pp. 65-110). Newbury Park, CA: Sage.
- Chen, F. F. (2007). Sensitivity of Goodness of Fit Indexes to Lack of Measurement Invariance. *Structural Equation Modeling*, 14(3), 464-504.
- Clark, L. A., Watson, D., & Mineka, S. (1994). Temperament, Personality, and the Mood and Anxiety Disorders. *Journal of Abnormal Psychology*, 103, 103-116. <http://dx.doi.org/10.1037/0021-843X.103.1.103>
- Herrero-Fernández, D. (2015). A Comparison of Internet-based and Paper-And-Pencil Questionnaires in Assessing Driving Anger in a Spanish Sample. *REMA: Revista Electrónica de Metodología Aplicada*, 20(1), 1-15. <http://dx.doi.org/10.17811/rema.20.1.2015.1-15>
- Hu, L. & Bentler, P. M. (1999). Cutoff Criteria for Fit Indexes in Covariance Structure Analysis: Conventional Criteria versus new Alternatives. *Structural Equation Modeling*, 6, 1-55. <http://dx.doi.org/10.1080/10705519909540118>
- Instituto Nacional de Salud. (2013). *Notas de Prensa. Encuesta Nacional de Salud 2011 – 2012*. Retrieved from <http://www.ine.es/prensa/np770.pdf> [National Institute of Health. (2013). Press Releases. National Health Survey 2011 – 2012].
- Kopala-Sibley, D. C., Zuroff, D. C., Hankin, B. L., & Abela, J. R. (2015). The Development of Self-Criticism and Dependency in Early Adolescence and Their Role in the Development of Depressive and Anxiety Symptoms. *Personality and Social Psychology Bulletin*, 41(8), 1094-1109. <http://dx.doi.org/10.1177/0146167215590985>
- Kopala-Sibley, D. C., Zuroff, D. C., Hermanto, N., & Joyal-Desmarais, K. (2016). The Development of Self-Definition and Relatedness in Emerging Adulthood and their Role in the Development of Depressive Symptoms. *International Journal of Behavioral Development*, 40(4), 302-312. <http://dx.doi.org/10.1177/0165025415573640>
- Mindrila, D. (2010). Maximum Likelihood (ML) and Diagonally Weighted Least Squares (DWLS) Estimation Procedures: A Comparison of Estimation Bias with Ordinal and Multivariate Non-Normal Data. *International Journal of Digital Society*, 1(1), 60-66. <http://dx.doi.org/10.20533/ijds.2040.2570.2010.0010>
- Radloff, L. S. (1977). The CES-D Scale: A Self-Report Depression Scale for Research in the General Population. *Applied Psychological Measurement*, 1(3), 385-401.
- Santor, D. A., Zuroff, D. C., & Fielding, A. (1997). Analysis and Revision of the Depressive Experiences Questionnaire: Examining Scale Performance as a Function of Scale Length. *Journal of Personality Assessment*, 69(1), 145-163. http://dx.doi.org/10.1207/s15327752jpa6901_8

- Tondar, S., Campos, R. C., Shakiba, S., Dadkhah, A., & Blatt, S. J. (2016). The Associations Between the Maladaptive Personality Dimensions of Neediness and Self-Criticism, Defense Styles, Selfobject Needs, and Attachment Styles in an Iranian Sample. *Psychoanalytic Psychology, 34*(1), 26-34. <http://dx.doi.org/10.1037/pap0000097>
- Vázquez, F. L., Blanco, V., & López, M. (2007). AN adaptation of the Center for Epidemiologic Studies Depression Scale for use in Non-Psychiatric Spanish Populations. *Psychiatry Research, 149*(1), 247-252. <http://dx.doi.org/10.1016/j.psychres.2006.03.004>
- World Health Organization (2012). *Fact sheet N°369. Depression*. Retrieved from <http://www.who.int/mediacentre/factsheets/fs369/en/>
- Yao, S., Fang, J., Zhu, X., & Zuroff, D. C. (2009). The Depressive Experiences Questionnaire: Construct Validity and Prediction of Depressive Symptoms in a sample of Chinese Undergraduates. *Depression and Anxiety, 26*(10), 930-937. <http://dx.doi.org/10.1002/da.20465>
- Zuroff, D. C., Igreja, I., & Mongrain, M. (1990). Dysfunctional attitudes, Dependency, and Selfcriticism as Predictors of Depressive Mood States: A 12-month Longitudinal Study. *Cognitive Therapy and Research, 14*, 315-326. <http://dx.doi.org/10.1007/BF01183999>
- Zuroff, D. C., Moskowitz, D., Wielgus, M. S., Powers, T. A., & Franko, D. L. (1983). Construct Validation of the Dependency and Self-Criticism Scales of the Depressive Experiences Questionnaire. *Journal of Research in Personality, 17*(2), 226-241. [http://dx.doi.org/10.1016/0092-6566\(83\)90033-8](http://dx.doi.org/10.1016/0092-6566(83)90033-8)
- Zuroff, D. C., Sadikaj, G., Kelly, A. C., & Leybman, M. J. (2016). Conceptualizing and Measuring Self-Criticism as both a Personality Trait and a Personality State. *Journal of Personality Assessment, 98*(1), 14-21. <http://dx.doi.org/10.1080/00223891.2015.1044604>

Appendix A: Ítems organied by factors

Dependency

- | | |
|--|---|
| <p>2. Without support from others who are close to me, I would be helpless.</p> <p>6. I urgently need things that only other people can provide.</p> <p>11. Many times I feel helpless.</p> <p>19. I became frightened when I feel alone</p> <p>22. I have difficulty breaking off a relationship that is making me unhappy.</p> <p>23. I often think about the danger of losing someone who is close to me.</p> <p>26. I am not very concerned with how other people respond to me.</p> <p>27. No matter how close a relationship between two people is, there is always a large amount of uncertainty and conflict.</p> <p>28. I am very sensitive to others for signs of rejection.</p> <p>30. Often, I feel I have disappointed others.</p> <p>35. I never really feel secure in a close relationship.</p> | <p>2. Sin el apoyo de quienes quiero me sentiría incapaz.</p> <p>6. Necesito urgentemente de cosas que solamente otras personas pueden proveer.</p> <p>11. Muchas veces me siento incapaz.</p> <p>19. Me da mucho miedo el encontrarme solo(a).</p> <p>22. Tengo dificultad en romper relaciones que me hacen sentir infeliz.</p> <p>23. Frecuentemente pienso lo difícil que sería el perder a alguien a quien aprecio.</p> <p>26. No me preocupa lo que otros piensen de mí.</p> <p>27. No importa lo íntima que una relación sea, siempre existen muchos conflictos y cosas inesperadas.</p> <p>28. Soy muy susceptible al rechazo.</p> <p>30. A menudo siento que he desilusionado a los demás.</p> <p>35. Nunca me siento seguro(a) en mis relaciones íntimas.</p> |
|--|---|

37. Often, I feel threatened by change.

42. I am a very independent person.

58. Very frequently, my feelings toward someone close to me vary: there are times when I feel completely angry and other times when I feel all-loving towards that person.

37. A menudo me incomoda el hecho de que las cosas cambien.

42. Soy una persona muy independiente.

58. Muy frecuentemente, mis sentimientos hacia personas allegadas cambian: a veces me siento completamente enojado(a) y otras veces siento mucho cariño hacia dichas personas.

Self critique

7. I often find that I don't live up to my own standards or ideals.

10. If I fail to live up expectations, I feel unworthy.

13. There is a considerable difference between how I am now and how I would like to be.

16. There are times when I feel empty inside.

17. I tend not to be satisfied with what I have.

36. The way I feel about myself frequently varies: there are times when I feel extremely good about myself and other times when I see only the bad in me and feel like a total failure.

41. I often blame myself for things I have done or said to someone.

43. I often feel guilty.

51. I feel uncomfortable when I am given important responsibilities.

64. I tend to be very critical of myself.

Relatedness

9. The lack of permanence in human relationships doesn't bother me.

20. I would feel like I'd be losing an important part of myself if I lost a very close friend.

32. I constantly try, and very often go out of my way, to please or help people I am close to.

34. I find it very difficult to say "No" to the requests of friends.

45. I worry a lot about offending or hurting someone who is close to me.

50. If someone I cared about became angry with me, I would feel threatened that he (she) might leave me.

55. After an argument, I feel very lonely.

65. Being alone doesn't bother me at all.

7. Usualmente me ocurre que no cumplo mis propias metas o ideales.

10. Si fallo en obtener mis metas me siento indigno(a).

13. Hay una diferencia considerable entre lo que ahora soy y como me gustaría ser.

16. Hay momentos durante los cuales me siento vacío.

17. Tiendo a no estar satisfecho(a) con lo que tengo.

36. Me siento constantemente diferente. A veces me siento extremadamente bien, otras veces me siento muy mal, como si fuese un(a) fracasado(a).

41. Frecuentemente me culpo por cosas que haya dicho o hecho a los demás.

43. Normalmente me siento culpable.

51. Me siento incomodo(a) cuando me dan responsabilidades importantes

64. Tiendo a criticarme mucho.

9. La falta de relaciones humanas no me afecta.

20. Si perdiera una amistad íntima sentiría como si perdiera una parte de mi mismo(a).

32. Constantemente trato y me esmero en ayudar o complacer a quienes estimo.

34. Me es muy difícil decir "no" a mis amistades.

45. Me preocupo mucho de ofender o herir a quienes estimo.

50. Si alguien a quien yo le tengo afecto se enoja conmigo, tendría temor que el/ella me abandonara.

55. Después de discutir me siento muy solo(a).

65. El estar solo(a) no me molesta en lo absoluto.
