

# Predicting the Role of the Meaning in Life on Depression, Hopelessness, and Suicide Risk among Spanish Borderline Personality Disorder Patients\*

Prediciendo el papel del significado de vida sobre la depresión, la desesperanza y el riesgo de suicidio entre pacientes españoles con trastorno límite de la personalidad

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## ABSTRACT

The relation between the meaning in life and depression, hopelessness, and suicide risk in a sample of Spanish Borderline Personality Disorder patients is analyzed. The hypothesis suggested that meaning in life is a significant negative predictor of these variables. Participants were 80 Spanish Borderline Personality Disorder patients (75 women, 5 men) ranged 16-60 years old,  $M = 32.21$ ,  $SD = 8.85$ , from a psychological private practice. Spanish adaptations of the Purpose-In-Life Test, the Beck Depression Inventory-II, the Beck Hopelessness Scale, and the Plutchick's Suicide Risk Scale were used. Analysis included descriptive, correlations, and simple linear regression. Results showed that Meaning in life was negatively related to depression, hopelessness, and suicide risk. It is necessary to introduce the evaluation of the meaning in life in the assessment of patients with Borderline Personality Disorder and to include in the psychotherapeutic intervention elements to enhance their perception and experience of meaning in life.

## Keywords

meaning in life; depression; hopelessness; suicide risk; borderline personality disorder.

## RESUMEN

Se analizan las relaciones entre sentido de la vida, depresión, desesperanza y riesgo de suicidio en un grupo de pacientes españoles con Trastorno Límite de Personalidad. La hipótesis al respecto afirma que el sentido de la vida predice negativamente de estas variables. En el estudio participaron 80 pacientes españoles con Trastorno Límite de Personalidad (75 mujeres, 5 hombres) de una clínica privada, con edades entre los 16 y los 60 años. Se utilizaron versiones españolas del Purpose-In-Life Test, del Inventario de Depresión-II y la Escala de Desesperanza de Beck y de la Escala de Riesgo Suicida de Plutchick. Los análisis incluyeron estadísticos descriptivos, correlaciones y regresión lineal simple. Los resultados mostraron que el sentido de la vida se relacionó negativamente con la depresión, la desesperanza y el riesgo de suicidio. Se concluye que hay necesidad de introducir la valoración del sentido de la vida en la evaluación de pacientes con Trastorno Límite de Personalidad y de incluir en la intervención psicoterapéutica elementos para mejorar su percepción y vivencia de sentido de la vida.

## Palabras clave

sentido de la vida; depresión; desesperanza; riesgo de suicidio; trastorno límite de personalidad.

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## Introduction

The Logotherapy emphasizes the role of self-transcendence and productive, experiential, and attitudinal values in the development of the sense of existential fullness, and it is opposite to the “existential *vacuum*” (Frankl, 2006; Lukas & Hirsch, 2002; Stark, 2003). Meaning in life is related to experience of freedom, responsibility, self-determination, positive view of life, future, oneself, purpose and accomplishment of existential goals, coping, satisfaction with life, and self-realization. People experiencing meaning in life are better prepared to successfully tackle the vital circumstances, have a strong sense of autonomy, self-determination, and purpose in life. Ryff and Keyes (1995) suggested that a critical component of mental health and personal development includes the conviction and the feeling that life is meaningful. On the contrary, existential *vacuum* is a negative cognitive-emotional-motivational state associated with hopelessness, perception of lack of control over one’s life, and absence of vital goals. The existential *vacuum* causes a negative and pessimistic attitude towards life as a whole, which is contrary to the perception of independence and control over the circumstances and prevents the activation of resources for their satisfactory resolution.

Several studies show that a poor meaning in life is associated to mental health problems, addiction problems, suicide, depression, hopelessness, and suicide (Beck, Brown, Berchick, Stewart, & Steer, 1990; Clarke & Kissane, 2002; Esposito, Spirito, Boergers, & Donaldson, 2003; Gallego-Pérez, García-Alandete, & Perez-Delgado, 2009; Noffsinger & Knoll, 2003). On the contrary, a high meaning in life has been positively associated to mental health and psychological well-being (Chan, 2009; Halama & Dedova, 2007; Ho, Cheung, & Cheung, 2010; Kleftras & Psarra, 2012; Mulders, 2011; Nygren et al., 2005; Psarra & Kleftras, 2008; Rathi & Rastogi, 2007; Reker & Woo, 2011; Steger & Kashdan, 2007).

Meaning in life has been validated empirically with valid and reliable instruments, such as the Purpose-In-Life Test ([PIL]; Crumbaugh & Mahol-

ic, 1969), whose Part A is probably the most widely used scale for research purposes on meaning in life from logotherapeutic postulates –the other two parts are based on qualitative principles and used for clinical purposes. The original PIL-Part A is a 20 item, 7-point Likert-type response format related to different aspects of the meaning in life: meaning, purpose or mission in life, satisfaction with one’s life, freedom, fear of death, and valuation of life. Several recent studies have analyzed the psychometric properties of this scale, providing evidence of a good internal consistency (e.g., Jonsén et al., 2010; Schulenberg, Schnetzer, & Buchanan, 2011), although its validity has often been questioned since it measures different concepts (e.g., meaning in life, fear to death, or freedom) by way of social desirability bias, and it is also a scale heavily loaded with values. Another aspect of the PIL that has also been tested on a recurring basis is the structure factor. In this regard, although Crumbaugh and Maholic (1969) considered the PIL-Part A an uni-dimensional scale, the García-Alandete, Rosa, and Sellés (in press) 10-items model obtained the best fit in a comparative study of the main models of the PIL (Rosa, García-Alandete, Sellés, Bernabé, & Soucase, 2012).

### *Borderline Personality Disorder (BPD), Depression, Hopelessness, and Suicide Risk*

The Borderline Personality Disorder has an estimated prevalence of 1.4% (Lenzenwenger, Lane, Loranger, & Kessler, 2007), and patients are characterized by a general pattern of instability in their interpersonal relationships, self-image, affectivity, and impulsivity, which start at the beginning of adulthood. A main characteristic of Borderline Personality Disorder is the injurious behaviour (Mendieta, 1997) and the association with a high incidence of completed suicide –up to 10%–, a rate over 50 times higher than the suicide rate among the general population (Oldham, 2006; Torgersen, Kringle, & Cramer, 2001). The lifetime risk of death by suicide among patients with Borderline Personality Disorder ranges from 3%–10% (Paris & Zweig-Frank, 2001) and they represent the 9%–33%

of all suicides (Runeson & Beskow, 1991). These data indicate the need to study possible factors that reduce the risk of suicide in BPD.

Studies on suicide have traditionally focused on determining the risk factors of the suicidal act or the psychological variables that may explain the suicide attempts, and hopelessness is the best and strongest predictor of either consummate or eventual suicides, over others, such as depression or suicidal ideation (Beck, Brown, & Steer, 1989; Beck, Steer, Kovacs, & Garrison, 1985; Brown, Beck, Steer, & Grisham, 2000; Hawton & van Heeringen, 2009). Individuals who score  $\geq 9$  in the Beck Hopelessness Scale (BHS; Beck, Weissman, Lester, & Trexler, 1974) show that they are 11 times more likely to commit suicide than those who rate  $\leq 8$  (Beck et al., 1989), so hopelessness can identify patients at high risk of suicide (Klonsky, Kotov, Bakst, Rabinowitz, & Bromet, 2012; Kuo, Gallo, & Eaton, 2004). Other factors strongly associated with the risk of suicide are a history of previous suicide attempts, a history of self-harm, MDD or depressive symptoms, impulsivity, unemployment, living alone, low social support, or schizophrenia (Beautrais, 2004; Hawton & van Heeringen, 2009; King et al., 2001; Links et al., 2007; Soderberg, 2001; Soloff, Fabio, Kelly, Malone, & Mann, 2005; Soloff & Chiapetta, 2012; Soloff & Fabio, 2008). Regarding comorbidity and suicide risk, longitudinal studies carried out on depressed people have demonstrated that the highest prediction factor of the risk of fu-

ture suicide attempts is the presence of a Cluster B personality disorders, mainly Borderline Personality Disorder (May, Klonsky, & Klein, 2012). BPD is the first robustly replicated predictor of attempts over and above ideation (Bolton, Pagura, Enns, Grant, & Sareen, 2010; Conrad et al., 2009).

However, the presence of risk factors does not fully explain suicidal behavior (Hawton & van Heeringen, 2009). Recently, the research on suicide has focused on skills or beliefs that, while having suicide risk factors, protect the person to commit suicide (Johnson, Gooding, Wood, & Tarrier, 2010; Kazdin, 2003), and meaning in life may be a protective factor.

The aim of this work is to analyse the relation between the meaning in life and depression, hopelessness, and suicide risk in a sample of Spanish Borderline Personality Disorder patients. The hypothesis suggests that meaning in life, as it is assessed with the PIL-10, is a significant negative predictor of depression, hopelessness and suicide risk.

## Method

### Participants

The sample was recruited from a public mental health service located in Castellón, Spain. The inclusion criteria included patients between 16-60 years who satisfied the DSM-IV-TR diagnostic criteria for Borderline Personality Disorder (Amer-

**TABLE 1**  
*Socio-Demographic Characteristics of Participants*

Variable	Category	n	%
Marital status	Single/separated	68	85
	Married	12	15
Children	Yes	16	20
	No	64	80
Educational level	College-level	21	26.3
	High school	42	52.5
	Primary school	17	21.3
Employment status	Unemployed	31	38.8
	Employed	49	61.2

Note. N = 80.

Source: Own work

ican Psychiatric Association [APA], 2000). The exclusion criteria included psychosis and moderate or severe mental retardation. Participants were European whites and all of them understood Spanish perfectly. The initial sample was made up of 85 participants, but 5 were excluded because they did not meet all the Borderline Personality Disorder criteria. One participant committed suicide during the analysis phase of this research. Participation was voluntary, participants gave informed consent and no compensation was given to them.

The final sample comprised 80 participants: 75 women (93%), and 5 men (6.3%). The 97.5%,  $n = 78$ , of them suffered from another Axis I disorder: 63.8%,  $n = 51$ , matched Eating disorders criteria; 15%,  $n = 12$ , Substance Dependence; 13%,  $n = 11$ , Major Depressive Disorder; 3.8%,  $n = 3$ , Anxiety Disorders; and 1.3%,  $n = 1$ , Body Dismorphic Disorder. The participants' age ranged 16-60 years old,  $M = 32.21$ ,  $SD = 8.85$ . The time span in which Borderline Personality Disorder had been taking place was 2-33 years,  $M = 13.18$ ,  $SD = 6.97$ . Table 1 shows other socio-demographic characteristics of participants.

## Measures

*Purpose In Life-10 Items Form* ([PIL-10]; García-Alandete et al., in press)

Spanish version of the PIL-Part A from the original Crumbaugh and Maholic's (1969), a 10-item Likert-type scale with seven response categories (both category 1 and 7 have specific labels, and category 4 indicates neutrality) that offers a measure of the achievement of the meaning in life. The reliability was high in García-Alandete et al. (in press),  $\alpha = 0.86$ , and in Rosa et al. (2012)  $\alpha = 0.86$ .

*Beck Depression Inventory-II* ([BDI-II]; Beck, Steer, & Brown, 1996)

21-item scale with 4 alternatives of response (0-4) that assesses depressive symptomatology and offers several quantitative ranges of depression: absent or minimal ( $< 13$ ), between slight and moderate

(14-19), moderate (20-28), and serious ( $> 28$ ). The Spanish version for clinical population offered good psychometric properties (Sanz, García-Vera, Espinosa, Fortun, & Vázquez, 2005).

*Beck Hopelessness Scale* ([BHS]; Beck et al., 1974)

A twenty dichotomic item, (true/false) scale designed for the assessment of the negative expectations about the future and personal well-being, and the personal skills to solve the difficulties and achieve success. Level of hopelessness is predictive to eventual suicide in clinic population. The total score ranges from 0 to 20. There are 4 levels of hopelessness: 0-3 = *null-minimum*, 4-8 = *medium*, 9-14 = *moderate*, 15-20 = *high*. The reliability of this scale was 0.93 and showed internal and temporary stability (Beck & Steer, 1993). It was validated among Spanish population (Viñas et al., 2004).

*Suicide Risk Scale* ([SRS]; Plutchik, Van Praag, Conte, & Picard, 1989)

It is a self-applied questionnaire that assesses general risk factors of suicide. It is aimed at discriminating between patients with attempted suicide from those who do not. It consists of 15 dichotomic items (yes/no) and scores of 6 and above are suggestive of suicide risk. The Spanish version reliability was 0.9 (Rubio et al., 1988).

## Procedure

Participants fulfilled voluntary the scales used in this study in a clinical session under the supervision of therapists, who were specialist in Borderline Personality Disorder. Neither therapists nor participants did not know the purpose or the assumptions of our study. Diagnosis for Borderline Personality Disorder was established in previous sessions, using the SCID-II (First, Gibbon, Spitzer, Williams, & Benjamin, 1997) and the diagnosis for mental disorders was confirmed with SCID-I (First, Spitzer, Gibbon, & Williams, 2002).

Data were analyzed using SPSS 15.0 for the estimation of the internal consistency (Cronbach's alpha) and the descriptive statistics of the scales, as well as to analyze the linear regression between meaning in life, as a predictor, and depression, hopelessness, and suicide risk, as criteria.

## Results

The means of the scales indicated a medium level of meaning in life, serious level of depression, moderate level of hopelessness, and moderate risk of suicide. The internal consistency of the scales was high (Kerlinger & Lee, 2000) (Table 2). The mean in meaning in life was significantly lower,  $U = 3089.5$ ,  $p = 0$ , than the obtained by García-Alandete et al. (in press) among undergraduates,  $M = 56.91$ ,  $SD = 7.75$ .

Meaning in life had a negative, significant correlation,  $p = 0$ , with depression,  $r = -0.824$ , hopelessness,  $r = -0.766$ , and suicide risk,  $r = -0.567$ . A serial of simple linear regression analysis showed that meaning in life predicted 67.8% of the variance of depression, 58.7% of the variance of

hopelessness, and 32.1% of the variance of suicide risk (Table 3).

Relationships between meaning in life, as predictor variable, and the measures of depression, hopelessness, and suicide risk, as predicted, were significant (Table 4). The linear dependence in all cases was significant, with what the models were adequate.

Likewise, non-standardized  $\beta$  coefficients, which indicate the average change corresponding to measures of depression, hopelessness, and suicide risk for unit of change in meaning in life, were significant (Table 5).

Values of non-standardized  $\beta$  coefficients were negative, so the relationship between meaning in life and depression, hopelessness, and suicide risk was inverse: the increase of meaning in life predicted a decrease of depression, hopelessness, and suicide risk. The highest non-standardized  $\beta$  value was associated to depression (closer to 1), followed by hopelessness and suicide risk: depression decreases 0.969 units, hopelessness decreases 0.334 units, and suicide risk decreases 0.131 units, when meaning in life increases by one.

**TABLE 2**  
*Descriptive Statistics and Internal Consistency of Scales*

Scale	A	Min.	Max.	M	SD
PIL-10	0.89	10	61	35.61	12.83
BDI-II	0.93	0	60	28.52	15.09
HS	0.9	0	19	9.91	5.59
SRS	0.72	0	14	9.18	2.97

Note. PIL-10 = Purpose In Life Test-10 Items Form; BDI-II = Beck Depression Inventory-II; HS = Hopelessness Scale; SRS = Suicide Risk Scale.  
In parentheses, standard error.  
Source: Own work.

**TABLE 3**  
*Summary of the Models*

Dependent variable	R	R <sup>2</sup>	Corrected R <sup>2</sup>	Standard error of estimation	Durbin-Watson
Depression	0.824	0.678	0.674	8.615	1.69
Hopelessness	0.766	0.587	0.582	3.616	1.938
Suicide Risk	0.567	0.321	0.312	2.46	2.022

Note. Predicting variable: (Constant), Meaning in Life.  
Source: Own work.

**TABLE 4**  
*ANOVA of the Models*

		Sum of squares	df	Root mean square	F	p
Depression	Regression	12203.123	1	12203.123	164.434	0
	Residual	5788.598	78	74.213		
	Total	17991.722	79			
Hopelessness	Regression	1448.589	1	1448.589	110.796	0
	Residual	1019.798	78	13.074		
	Total	2468.388	79			
Suicide risk	Regression	223.316	1	223.316	36.89	0
	Residual	472.171	78	6.053		
	Total	695.487	79			

Note. Predicting variable: (Constant), Meaning in Life.  
Source: Own work.

**TABLE 5**  
*Coefficients of the Models*

		Not standardized coefficients		Standardized coefficients	t	p
		B	Standard error	Beta		
Depression	(Constant)	63.013	2.857		22.054	0
	Meaning in life	-0.969	0.076	-0.824	-12.823	0
Hopelessness	(Constant)	21.797	1.199		18.175	0
	Meaning in life	-0.334	0.032	-0.766	-10.526	0
Suicide risk	(Constant)	13.846	0.816		16.967	0
	Meaning in life	-0.131	0.022	-0.567	-6.074	0

Note. Predicting variable: (Constant), Meaning in life.  
Source: Own work.

## Discussion

The objective of this study was to analyse whether meaning in life is a significant predictive variable of depression, hopelessness, and suicide risk among Spanish Borderline Personality Disorder patients. The BPD patients' mean in meaning in life was notably lower than that of undergraduates in García-Alandete et al. (in press), and showed a serious level of depression and suicide risk, and moderate level of hopelessness. On the other hand, meaning in life correlated negative, significantly with these clinical variables, and a regression analysis showed that meaning in life is a significant predictor of them, with high percentage of the vari-

ance explained for depression, 67.8%, hopelessness, 58.7%, and suicide risk, 32.1%.

Meaning in life, as it is understood from Logotherapy, implies the belief that one's life is useful and oriented towards goals and purposes. It also implies that one is autonomous (not controlled by the circumstances) and has control of one's own life, has a sense of responsibility and existential self-realization (Frankl, 2006). In other words, meaning in life may be a protective factor of welfare and mental health, which would moderate the relationship between stress and depression, hopelessness, and suicide risk; especially in adverse circumstances (Breitbart et al., 2000; Mascaro & Rosen, 2005, 2008; Nelson, Rosenfeld, Breitbart, & Galietta, 2002).

### *Clinical Implications, Limitations and Future Research*

Borderline Personality Disorder is associated with a high incidence of completed suicide (Oldham, 2006; Torgersen et al., 2001) and a high risk of death by suicide (Paris & Zweig-Frank, 2001). It is necessary to identify the factors that decrease the risk to attempt suicide in order to develop intervention programs aimed at increasing the protection factor in patients with Borderline Personality Disorder or other psychological disorders. Psychotherapeutic interventions to be developed in patients with Borderline Personality Disorder will act as protective of suicide risk factors and, to this regard, therapy for Borderline Personality Disorder (NICE, 2009), the Dialectical Behavioral Therapy (Linehan, 1993), insists that patients identify values deemed necessary to make later changes in their life. In this way, Borderline Personality Disorder patients can learn to set long-term and short-term goals, like weekly goals and actions based on their vital values to develop meaningful life projects. Dialectical Behavioral Therapy is effective in the treatment of Borderline Personality Disorder patients with suicide risk, and it helps to reduce suicide risk (Linehan et al., 2006; Marco, García-Palacios, Navarro, & Botella, 2012). However, we do not know the effect of Dialectical Behavioral Therapy on meaning in life, and it would be interesting to analyze the effect of current treatments on meaning in life for Borderline Personality Disorder diagnosed persons.

The relationship between meaning in life, as it is assessed by means of the PIL-10 (García-Alandete et al., in press), and depression, hopelessness, and suicide risk were confirmed. It would be interesting for future studies in the field of Borderline Personality Disorder to consider the way that Logotherapy explains human behavior, as it seems a promising theoretical approach, mainly with regard to coping the depressive and hopelessness symptomatology and decrease the suicide risk (Linehan et al., 2006; Marco et al., 2012). Moreover, it is interesting to study the construct of meaning in life in psychopathology and psychotherapy (Rogina, 2004;

Schulenberg, Melton, & Foote, 2006), including Borderline Personality Disorder (Rodrigues, 2004), and its comparison with data in general population.

Our results emphasize the need to introduce the evaluation of meaning in life in the protocols of evaluation of patients with Borderline Personality Disorder, to assess suicide risk. It is also important to include in the psychotherapeutic intervention elements to enhance meaning in life in these patients. As we noted, Logotherapy can provide resources to intervene on depression and hopelessness, minimizing or even eliminating the risk of suicide (Heisel & Flett, 2004). As it is known, it is one of the main therapeutic goals in patients with Borderline Personality Disorder (Linehan et al., 2006; Marco et al., 2012). Early intervention on meaning in life could act as a protective factor in suicidal behavior, and future studies are necessary to carry out intervention programs that enhance meaning in life in people who show some suicide risk factor (Lee, Steen, & Seligman, 2005).

One of the strengths of our study is that the sample comes from a public mental health institution, and that participants showed several of the main suicide risk factors recognized in the literature: Borderline Personality Disorder diagnosis, high level of depression, and previous suicide attempts (Black, Blum, Pfohl, & Hale, 2004; Soloff et al., 2000). Likewise, inclusion criteria were very broad, so the sample is representative of patients seen in daily clinical practice, and results obtained in our study may be generalizable to the population of Borderline Personality Disorder. Furthermore, we can point out that in case of having had a comparable subgroup of men available, we could have analyzed the differences associated to gender in the studied variables, as well as their relationships. This is a question to consider in future studies.

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