

# Personality disorders and treatment drop out in the homeless

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**Abstract:** The homeless drop out of treatment relatively frequently. Also, prevalence rates of personality disorders are much higher in the homeless group than in the general population. We hypothesize that when both variables coexist – homelessness and personality disorders – the possibility of treatment drop out grows. The aim of this study was to analyze the hypotheses, that is, to study how the existence of personality disorders affects the evolution of and permanence in treatment. One sample of homeless people in a therapeutic community (N = 89) was studied. The structured clinical interview for the diagnostic and statistical manual of mental disorders (DSM-IV-TR) was administered and participants were asked to complete the Millon Clinical Multiaxial Inventory-II (MCMI-II). Cluster B personality disorders (antisocial, borderline, and narcissistic) avoided permanence in the treatment process while cluster C disorders, as dependent, favored adhesion to the treatment and improved the prognosis. Knowledge of these personality characteristics should be used to advocate for better services to support homeless people and prevent their dropping out before completing treatment.

**Keywords:** MCMI-II, abandonment, personality disorder, homeless

Homeless people are considered to be at the maximum level of social exclusion in a modern society. Homeless people make up one of the most vulnerable and disadvantaged social groups, living in the city streets and temporarily at shelters because of a chained, sudden, and traumatic rupture from family, social, and labor ties, and homelessness is associated with a low quality of life and with high physical and mental illness rates.<sup>1-7</sup>

Treatment drop out generates much concern among the working teams. In the case of the homeless, this occurs systematically. The way and mode in which they tackle their life, their lack of personal resources to face the situation, and their inertia, determines treatment abandonment, with higher levels than in other populations.<sup>8-10</sup>

Studies on withdrawal from treatment in people under addiction treatment have been done<sup>11-16</sup> and these have analyzed the comorbidity between dropping out and personality disorders.<sup>17</sup> The reviewed literature concludes that the presence of personality disorders makes the prognosis of the subjects more difficult; the presence of an associated psychopathology itself is a bad prognosis.<sup>18-20</sup>

A lower prevalence of schizophrenia and bipolar and somatic disorders has been found in homeless people<sup>21</sup> than in the general population. However, other mental pathologies, such as depression, alcohol and drug consumption, or personality disorders<sup>22</sup> have an important influence on the dropping out from treatment in homeless people.<sup>23</sup> Moreover, psychosocial aspects, such as the return of contact with the

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family or a history of use of services for homeless people, seem to have positive influence on the drop out rate.<sup>24,25</sup>

The working tools we have for these disorders are not likely to appear in clinical guidelines, as effective or probably effective treatments. Outcomes, despite the different techniques that have been used, are limited. Only the dialectic behavioral therapy (in the case of borderline disorder),<sup>26</sup> cognitive analytic therapy<sup>27</sup> or the exposure techniques (in the case of avoidant/phobic disorder) have shown some effectiveness.<sup>28</sup> These days there is some research, in homeless people, on the use of community assertive treatment, with encouraging outcomes.<sup>29,30</sup> With respect to complex, state of the art treatments, there is some agreement that the coexistence of other pathologies or “comorbidities” hinders the optimal resolution and treatment of the problem, and this is also true in the case of the personality disorders.<sup>31–33</sup>

The first objective of this study was to establish if there is a relation between the personality disorders and the rate of drop out from treatment given the high rates of both factors in the homeless. The second objective was to identify the existence of personality disorders favoring social and labor reintegration in the homeless.

One secondary aim was to add to the discussion about the relative importance establishing the most efficient treatments of personality disorders, as this is what mental health professionals have named as the 21st century challenge – because of the difficulty of approaching the patient, because of the poor pharmacological results, and because of the great treatment abandonment rate, in people with this pathology.<sup>34–39</sup> The research was designed as a prospective ex post-facto study following Montero’s and León’s proposal.<sup>40</sup>

## Method

### Participants

The sample comprised homeless persons (N = 89) who participated in a reintegration process in a public center in Zaragoza city. All participants were men older than 18 years. They were chosen from 97 people who participated in a reintegration process, based on the following criteria: (a) being homeless; (b) voluntary admission at the center; (c) stay in the center longer than 2 months; and (d) remaining long enough to complete the study.

A minimum of 2 months in the center had been established to get some adherence to the treatment. Evaluation was not done for the individuals who dropped out of treatment before 2 months.<sup>41</sup>

## Assessment measures

The data that were recorded were the following:

- Sociodemographic variables: a semistructured interview was carried out, in which data were collected regarding age, marital status, and education.
- Homelessness-related variables: At the initial interview, data from the history were collected regarding the age of onset as a transient, reasons for that fact, and substances consumed.
- Personality variables: the Millon Clinical Multiaxial Inventory-II<sup>42</sup> was used. This was administered to people with more than 2 months in the center, trying to achieve the most truthful answers. The questionnaire consists of 175 questions, with a true or false structure, which are answered in 25–30 minutes. The results provide ranking on ten basic personality scales (schizoid, avoidant/phobic, dependent, histrionic, narcissistic, antisocial, aggressive/sadistic, compulsive, passive/aggressive, and self-defeating); three pathological personality scales (schizotypal, borderline, and paranoid); six moderately severe clinical syndromes (anxiety, somatoform disorder, bipolar disorder, dysthymic disorder, alcohol abuse, and drug abuse); and three high severity clinical syndromes (thought disorder, major depression, and delusional disorder).

## Treatment

The treatment for all of the participants was: individual and group cognitive-behavioral psychotherapy, and labor instruction courses. The admission at the center was based upon interviews that determined the motivation to undergo a treatment process. The participants performed activities at the center, and labor training was carried out externally at the end of the process. After the admission at the center, the average stay among the ones who completed the treatment was 1 year. The treatment addressed personal aspects, mainly self-help and psychological advice, both individually and in a group. After the end of the process at the center, monitoring was done in an outpatient program, in a halfway house for 6 months, which served as a support for social reintegration.

## Procedure

The prior user profile (previous history) was analyzed by a semistructured interview, in which mainly the sociodemographic data and the personal history of homelessness data were collected. The MCMI-II was administered and tabulated by the clinical psychologist of the center. For the purpose of

**Table 1** Sociodemographic features (N = 89)

	N	%
<b>Age</b>		
Mean (years)	38.56	
Rank (years)	22–54	
<30 years	19	21.3
30–39 years	32	36.0
40–49 years	31	34.8
>50 years	7	7.9
<b>Marital status</b>		
Single	54	60.7
Married	1	1.1
Divorced	17	19.1
Separated	15	16.9
De facto partnership	2	2.2
<b>Education</b>		
No education	1	1.1
School diploma	30	33.7
Obligatory secondary studies	42	47.2
Vocational training	10	11.2
Bachelor's degree	6	6.7

the study, the presence of personality disorder was considered when the score at the base-rate of the MCMI-II was more than 84, according to the most conservative criteria of Wetzler.<sup>43</sup>

For data processing, the Statistical Package for the Social Science (SPSS) program for Windows in its 15.0 version (IBM, Armonk, NY, USA) was used; Unilateral descriptive (maximum, minimum, mean, standard deviation, and/or frequencies and percentages), and bilateral correlation statistics were performed. The chi square ( $\chi^2$ ) tests were used for the comparative study, and a *P*-value < 0.05 was considered significant.

## Results

The mean age was 38.56, with range between 22 and 54 years old (Table 1). It was observed that the 21.3% (N = 19) of the subjects were younger than 30 years, 36.0% (N = 32) were

between 30 and 39 years old, 34.8% (N = 31) were between 40 and 49 years old; and 7.9% (N = 7) were older than 50 years.

At the “marital status” section, we observed that 60.7% (N = 54) were single, which did not mean that they had not had previous partners, even, on some occasion, they had non-recognized or without maintenance, biological children. We found that 36.0% of the study subjects had been married, but at the time of treatment, 19.1% (N = 17) were divorced, and 16.9% (N = 15) were separated. Only a 3.3% (N = 3) had a partner at the time of study, and either were married (N = 1) or had a de facto partnership (N = 2). But the main result data was the number of people who had not established a settled relationship with a partner – the 36.0%, one of every three people in the study.

The analyses of the education level revealed a low level of education: 1.1% had not had the minimum schooling; and 33.7% (N = 30) had obtained primary school certificate. A further 47.2% (N = 42) had completed the secondary obligatory education or equivalent, before leaving school, mainly because of their incorporation to the labor market. Just 17.9% had completed studies over the obligatory ones; of these, 11.2% (N = 10) had followed technical professional training, and 6.7% (N = 6) had a secondary school education. No one had reached the university level.

In relation to the age at which they became transient (Table 2), 38.2% started before the age of 20 (N = 34); 32.6% became transient between 20 and 29 (N = 29); 27% (N = 24) became transient between 30 and 39 and 2.2% (N = 2) were older than 40 years when they went out from home and into the street. The reasons why they went into the street (Table 2) were the following: 27% (N = 24) had addictions and problems with their family of origin, 14.6% (N = 13) reported divorce, 12.4% (N = 11) had labor problems and 9.0% (N = 8) had psychological problems. It was surprising that the family of origin–problems were the main cause of homelessness and

**Table 2** Homelessness variables (N = 89)

	N	%
<b>Beginning age</b>		
<20 years	34	38.2
20–29 years	29	32.6
30–39 years	24	27.0
40–49 years	2	2.2
<b>Reason for going into the street</b>		
Divorce	13	14.6
Family of origin–problems	24	27.0
Labor	11	12.4
Addictions	24	27.0
Psychological problems	8	9.0
Other	9	10.1

**Table 3** Description of adherence to the treatment (N = 89)

	Number	Percentage
<b>Reintegration</b>		
Familial	8	9.0
Labor	46	51.7
Social	2	2.2
<b>Abandonment</b>		
Not passing the trial period	2	2.2
Voluntary resignation	21	23.6
Expulsion	5	5.6
Referral	5	5.6
Sum	89	100

**Table 4** MCMI-II scores (N = 89)

	Minimum	Maximum	Mean	SD	Presence TP	
					N	%
Schizoid	0	117	59.98	26.543	17	19.1
Avoidant	2	103	50.82	29.466	12	13.5
Dependent	0	108	55.70	29.933	18	20.2
Histrionic	5	100	51.66	24.518	7	7.9
Narcissistic	0	109	56.61	24.982	8	9
Antisocial	0	121	65.84	28.324	23	25.8
Aggressive	0	120	54.64	28.161	13	14.6
Compulsive	5	120	65.82	26.168	20	22.5
Passive	0	103	41.93	27.971	8	9
Self-defeating	0	109	52.28	25.259	8	9
Schizotypal	5	117	55.70	25.988	14	15.7
Borderline	0	112	45.47	27.686	8	9
Paranoid	8	118	62.43	22.869	12	13.5

**Abbreviations:** MCMI-II, Millon Clinical Multiaxial Inventory-II; TP, personality disorders; SD, standard deviation.

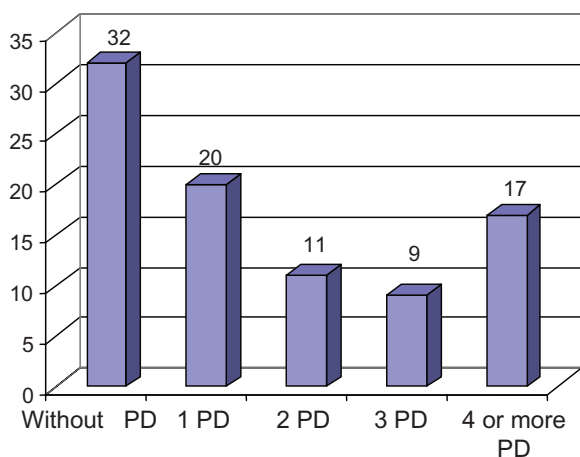
showed how early this phenomenon started. One of every four people placed addictions (alcohol, substances, gambling, etc) as their reason for becoming transient. The psychological and labor problems had lower presence as the trigger element for their pathway to the street.

Referring to adherence to treatment (Table 3), there were more people achieving reintegration, 62.9% (N = 56), than who abandoned the program, 37% (N = 33). Among those who reintegrated, we could differentiate: (a) labor reintegration (they found a job); (b) familiar reintegration (return with the family); and (c) social reintegration (perception of a financial benefit). Among those who abandoned the program, we differentiated between: (a) expulsion (because of disruptive behavior with themselves, with others, or with the team or the center); (b) voluntary resignation (the person abandons the treatment voluntarily); (c) not getting through the trial period (abandoned before 2 months in

the program at the center); and (d) referral (management with other resources that best suited their needs).

Referring to the results of the MCMI-II<sup>42</sup> (Table 4), it was observed that the Antisocial (25.8%, N = 23), Compulsive (22.5%, N = 20), Dependent (20.2%, N = 18), and Schizoid (19.1%, N = 17) disorders were the ones that obtained the highest scores, considering base rate > 84. We highlighted that there were subjects showing high scores in one or more subscales.

Considering this fact (Figure 1), it was noted that there were subjects in reintegration treatment for the homeless with no personality disorder (36.0% of the cases, N = 32), with one personality disorder (22.5%, N = 20), with two disorders (12.4%; N = 11), with three (10.1%; N = 9), and with four or more personality disorders (19.1%; N = 17).



**Figure 1** Frequency of personality disorders by subject (N = 89).  
**Abbreviation:** PD, personality disorder.

**Table 5** Comparison of MCMI-II scores according to reintegration and treatment abandonment in the sample

Personality disorders	Abandonment (N = 33)		Reintegration (N = 56)		t
	Mean	SD	Mean	SD	
Schizoid	67.12	25.400	55.77	26.519	3.925
Avoidant	56.21	31.012	47.64	28.317	1.772
Dependent	45.12	29.060	61.93	28.906	6.913*
Histrionic	48.21	27.418	53.70	22.651	1.039
Narcissistic	59.30	25.656	55.02	24.671	0.608
Antisocial	72.42	26.515	61.96	28.866	2.893
Aggressive	58.18	28.607	52.55	27.942	0.828
Compulsive	61.76	27.830	68.21	25.085	1.268
Passive	46.85	30.046	39.04	26.524	1.632
Self-defeating	53.33	28.805	51.66	23.173	0.090
Schizotypal	60.88	26.408	52.64	25.480	2.112
Borderline	50.09	30.523	42.75	25.768	1.468
Paranoid	63.21	26.609	61.96	20.597	0.061

**Note:** \*P < 0.05.

**Abbreviation:** MCMI-II, Millon Clinical Multiaxial Inventory-II.

**Table 6** Prevalence of personality disorders in our study and in previous studies

Personality disorders	General population <sup>34</sup>	Echeburúa and Corral (1999) <sup>46</sup>	Combaluzier and Pedimielli (2003) <sup>45</sup>	Our study (2012)
Paranoid	0.5%–2.5%	10%–30%	4.90%	13.5%
Schizoid	0.5%–4.5%	1.4%–16%	4.90%	19.1%
Schizotypal	3%–5%	2%–20%	3.10%	15.7%
Histrionic	2%–3%	2%–15%	3.30%	7.9%
Narcissistic	<1%	2%–16%	1.80%	9.0%
Antisocial	1%–3%	3%–30%	18.52%	25.8%
Personality limit	2%–3%	10%–40%	13.21%	9.0%
Avoidant	0.5%–1%	10%	3.20%	13.5%
Dependent	15%	2%–22%	10.41%	20.2%
Obsessive-compulsive	1%	3%–10%	1.10%	22.5%

Table 5 shows the means and standard deviations for the different scales of the MCMI-II among the participants who continued or abandoned the treatment process. Among the people who abandoned, higher scores were observed in all the scales, except for the Dependent, Histrionic, and Compulsive, and great differences were highlighted in the Schizoid and Antisocial disorder scales. Nevertheless, only the prognosis for Dependent disorder showed significant difference ( $P < 0.05$ ).

The prevalence of personality disorders in the homeless is shown in Table 6. Data from other studies with similar samples were compared; they provided data from the general population and from clinical samples.<sup>44–46</sup> On the personality limit scale only, the scores of our subjects were below the values of other samples. On the other pathological personality scales, and on the 10 basic scales, the scores obtained by our subjects were higher.

Reintegration and treatment abandonment were compared with respect to the presence of personality disorders (Figure 2). As it can be observed, suffering from an antisocial,

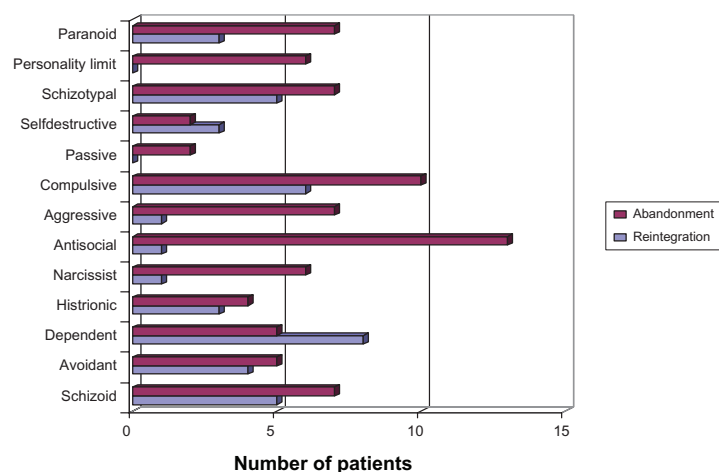
aggressive, compulsive or paranoid personality disorder seemed to be related to the treatment abandonment.

Personality disorders were analyzed in people dropping out of treatment (Figure 3). It was observed that the percentage of abandonment changed in relation to the presence of certain types of personality disorders.

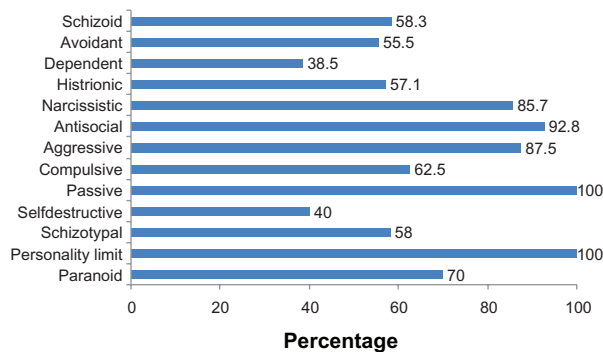
Borderline personality disorder or personality limit and passive disorder determined the treatment abandonment in 100% of those patients. Others, such as antisocial personality disorder (92.8%), the aggressive personality disorder (87.5%) and the narcissist personality disorder (85.7%) were poor prognostic factors. On the contrary, the dependent personality disorder and the self destructive (masochistic) disorder, with 38.5% and the 40% respectively, had little specific importance in program abandonment.

## Discussion and conclusion

In the study, a high prevalence of personality disorders was observed, well above the epidemiologic data found for the general population.<sup>44</sup> Homeless people had great physical

**Figure 2** Frequencies of reintegration vs abandonment according to each personality disorder. N = 89.





**Figure 3** Percentage of abandonment in persons according to PD. N = 33.  
**Abbreviation:** PD, personality disorder.

deterioration but also and mainly, mental deterioration,<sup>47</sup> with pathologies, such as schizophrenia or bipolar disorder being present.<sup>24,35,38,48–51</sup> Likewise, the data corresponds with previous studies with similar characteristics.<sup>2,15,23,25,52–54</sup>

In the analysis of the sample age, two main facts stand out. On the one hand, the high number of young homeless subjects in the reintegration process; one of every five under study was younger than 30-years-old, which indicated an early beginning in the homelessness phenomenon. On the other hand, the low percentage of persons older than 50 years was surprising – just 7.9%. This could indicate a low interest of this group in the reintegration process due to deterioration suffered during their time on the streets and disenchantment with previous programs.<sup>55</sup>

In the marital status analysis, the number of people who had not established a settled relationship was remarkable – one of every three. These data were consistent with other studies.<sup>56,57</sup>

The examination of the relationship between the abandonment of treatment and the personality disorders showed how the personality disorders of the B cluster, also named the dramatic or emotional disorders – antisocial, histrionic, borderline, and narcissistic disorder – presented the worst prognosis.<sup>58</sup> This could be due to the presence of interpersonal problems in this group; people with these disorders are defined as poorly socialized subjects, with emotional imbalance and dependency.<sup>59–63</sup>

The disorders in cluster C: dependent, compulsive, and avoidant personality disorders presented a lower rate of abandonment. Dependent disorder was observed to be a factor for good prognosis because of the high rate of reintegration achieved by the subjects with this disorder.<sup>64,65</sup>

On the other hand, we could not confirm that the disorders in the cluster A (schizoid, paranoid, and schizotypal) were determinant in the development of the therapeutic process of the person, despite the fact that the abandonment rate in this group was higher than the reintegration rate.

In synthesis, the personality disorders such as borderline, passive, antisocial, aggressive and narcissistic, seemed to have specific importance in the outcomes of treatment processes in homeless people.

People with borderline personality disorder abandoned treatment, in all cases. This could be due to the characteristics of the disorder, which has an irregular pattern of childish reaction and a nonequal development of different abilities, which could increase the chance of showing inconsistent reactions; abandonment could be due to the low thresholds in the neuropsychological and psychochemical systems of these patients, which could also be responsible, in part, for their hyperactivity and their irritability.<sup>60,66</sup>

Another disorder that was associated with a high abandonment rate was antisocial disorder, which is characterized by a pattern of opposition and resistance attitudes towards the requests in social and labor situations. People with this disorder are irritable and have a low tolerance to frustration, and make continuous claims about their misfortune and contempt for authority figures, which, no doubt, influenced continuance in the reintegration process.<sup>67</sup>

In the case of narcissistic disorder, abandonment could be related to the disorder characteristics: the arrogant sense of self-worth, the indifference to the welfare of others, and fraudulent and intimidating social ways. Moreover, those with this disorder underestimate others' rules and opinions, which could make their therapeutic processes difficult.<sup>68</sup>

Otherwise, we had people with a dependent personality disorder, which seemed to favor remaining in treatment. This personality style, although within the personality styles with interpersonal problems, aims to meet the needs of others; they take a passive position, letting others guide their lives. To protect themselves, dependents are subjugated quickly, hoping to avoid isolation, loneliness, and the horror of abandonment. These circumstances can be increased, in homeless people, by previous experiences.<sup>69</sup> These features favored adherence to the treatment processes, where even in the cases of abandonment, participants began, in a short space of time, treatment in other centers.

As a main conclusion and guideline for further research, we could consider the personality disorder suffered by the subject as a prognostic factor in his treatment, so reintegration processes and prevention strategies have to be clearly settled taking the subject's personality as basic element. Processes should be carried out in a different way, creating an individualized therapeutic process, which should favor a greater rate of reintegration in people who have a previous history of marginalization and years on the street, because

the personality disorders in each person seem to determine its prognosis. Our results indicated that standard treatment processes were not followed by some people in the sample, and this possibly could be avoided with more individualized work-directed plans in community assertive treatments,<sup>52,70,71</sup> and a new way of organizing homeless services.<sup>72,73</sup>

As weaknesses of the study, we note that although the MCMI-II is a widely used test in clinical settings, this is considered a self-test,<sup>74</sup> so it seems necessary, in future research, to use other, complementary tests that address these circumstances.<sup>38</sup> Furthermore, although the multiple diagnostic is an iatrogenic phenomenon linked to all personality disorders and a clear sign of the difficulty of classification in these patients,<sup>75,76</sup> the MCMI-II seemed to have a tendency to over diagnose, giving a high incidence of personality disorders,<sup>52,77</sup> which could have influenced the results found in this study.

However, this should not limit the usefulness of the MCMI-II in determining the possible presence of personality disorders, and it could be used to plan therapeutic aims and treatments, depending on the personality characteristics of the person.<sup>78</sup> Contemplation of new therapeutic directions in work with personality disorders could lead to the achievement of optimized and proper treatment.<sup>79,80</sup>

Moreover, the size of the sample of homeless persons, although relevant from a clinical point of view, was relatively small from a statistical perspective. Therefore, a greater number of similar studies are required in order to identify the specific profile of personality disorders in homeless people.

Finally, evaluation was not finished in those who dropped out of treatment before 2 months, though it looks as though they can be affected by personality disorders to the same or a greater extent than those who stayed in the process.<sup>41</sup> Future research should highlight personality disorders in these patients as well.

## Disclosure

The authors report no conflicts of interest in this work.

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