Depersonalization Disorder in Former Addicts (Prevalence of Depersonalization-Derealization Disorder in Former Addicts)

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Abstract

Many former addicts who have not been taking drugs for a while suffer from the so-called depersonalization-derealization disorder (DPD-DR)—a peculiar sensation of unreality and strangeness towards the environment, something like “living in a permanent dream”. It is not an altered conscious state but a different conscience of the world which makes the individual become a virtual spectator of a life that sometimes looks real to them, and sometimes looks illusory. Nearly all studies on the depersonalization-addiction binomial refer to current drug addicts, but there are no studies on former addicts.

Objective: To find out the prevalence of depersonalization-derealization disorder in former addicts.

Method: 68 former addicts were compared with 59 individuals from the control group. CDS (Cambridge Depersonalization Scale) scale, version CDS-11, and DES (Dissociative Experiences Scale by Bernstein & Putnam) scale were applied.

Results: Nearly 25% of drug-free addicts (former addicts) suffer or have suffered from severe depersonalization disorder (DES scale), if we consider mild depersonalization disorder, the number rises up to 43.55% (DES scale) and 19.38% (CDS-11 scale). It should be noted that DPD-DR prevalence in the general population is 1.5%.

Conclusions: Depersonalization-derealization disorder is a surprise both for former addicts and their relatives, as well as for the clinical staff, who is usually unaware of this phenomenon and can mistake it for nostalgia towards the consumption environment. Who knows how many drug-free or former addicts have been victims of a mistake by their therapist? DPD-DR can be overcome through an adequate intervention in 3-6 months from onset. We think healthcare professionals should be well aware of this phenomenon.

Keywords: Prevalence; Depersonalization; Derealization; Addiction; Evaluation; Dishabituation; Rehabilitation; Former addiction

Introduction

Dissociative experiences are relatively common in the general population. They are equally distributed in women and men, and they tend to be less frequent with age [1,2]. According to WHO's CIE-10 classification, the process falls within the family of neurosis as a secondary phenomenon to stressful situations and it groups the depersonalization-derealization disorder (DPD-DR) within a single category. However, American Psychiatric Association's 2014 DSM-5 [3] classification is more explicit, reflecting that self-strangeness or self-estrangement is the essential characteristic of this disorder. Patients feel as external observers of their mental processes, their own body, or a part of it, as if they were oblivious, dead, or empty, as if automated or living in a dream or a movie [4]. Depersonalization disorder is usually described as a set of unreality and self-estrangement experiences, or as feeling as an external observer towards internal sensations and feelings or towards the own body and actions. Derealization refers to unreality or estrangement experiences towards the environment [5,6].

The DPD-DR phenomenon or estrangement due to the direct physiopathological effects of a substance differs from conventional depersonalization disorder in that such substance (for instance, drugs, medicines, or even addictive behavior) is considered as etiologically related to estrangement [7]. Depersonalization may appear as a syndrome in acute intoxication or in alcohol or other drug abstinence. Additionally, the use of drugs may intensify the symptoms of a preexistent depersonalization disorder.

Most studies on the depersonalization-addiction binomial refer to current drug users or to substances immediate effects. One of them [8] compared addicts (especially to cannabis and hallucinogens) with non addicts suffering from depersonalization. Both groups presented a similar course and deterioration with suicidal tendencies and limited treatment response. A similar study [9] compared patients with drug-induced depersonalization disorder and patients with simple depersonalization disorder. No significant clinical differences were found regarding the disorder.

DPD-DR disorder is not only present during the active drug use phase, but it also reappears when patients give it up. This phenomenon is applicable to drugs, psych medications, and other addictive behavior such as gambling [10,11]. According to some studies, former alcohol users present with higher levels of depersonalization [12] than other former addicts (cocaine). However, both groups present high DPD-DR levels depending on the number of years they have been using these substances. Dissociative experiences may be a chronic residual effect of substance abuse.

Prevalence

Epidemiologic studies of DPD-DR disorder were not conducted until

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relatively few years ago. Nearly all researches refer to underdiagnosis as an inherent factor. Depersonalization is considered as the third most common psychopathological experience after anxiety and depression [13]. Incidence and prevalence are difficult to determine owing to the lack of consensus and the difficulty to find a reliable measurement. Depersonalization is rarely diagnosed, and isolated episodes are frequent even in the normal population [14]. According to concurrent studies [11], depersonalization disorder has a prevalence of 2.5% in the population. In an epidemiologic study with 1,567 individuals conducted in Germany, prevalence was between 1 and 2%. Michal et al. [15] carried out a study with a sample of 1,287 individuals aged between 14 and 90 which found 1.9% prevalence within the range of clinical significance. In conclusion, DPD-DR prevalence in the general population is around 1.5%.

In a previous work [11], depersonalization-derealization disorder in former addicts or current addicts in dishabituation was defined by the following target symptoms:

- Existential void: dissatisfaction, disappointment, disillusionment, and emotional void.
- Identity crisis: existential questions about the own identity which may lead patients to identify themselves with their past and with the person they were, in clear opposition to the new self that fights to open up to a new and puzzling world.
- Memory and cognition disorders: subjective sensation of deterioration and loss of intellective capacities.
- Mood changes and affective lability: culpability is usual, as well as a reiterative feeling of surrender.
- Unrealism: feeling that this is an unreal world.
- Recalling sensations and feelings that are already overcome: memories are relived with unusual emotional strength, sometimes to the point of triggering recurrence.

Research objectives

The main objective of this research was to study the prevalence of depersonalization-derealization (DPD-DR) disorder in the former addict population versus the control group by checking data from selected assessment instruments. Given the characteristics of DPD-DR disorder, an intervention and prevention plan had to be established according to data.

Secondary objectives included the incidence of associated subsyndromes and their specific weight within the DPD-DR process. This includes existential void, amnestic and cognitive disorders, mood changes, identity crises, and pseudo-identification with consumption self. The last objective was to collect the elements provided by the structure of the evaluation scales used: dissociative amnesia, associative absorption, and depersonalization/derealization from DES scale.

Evaluation instruments

There are 3 types of instruments to measure depersonalization: 1) Filtering scales, such as the Dissociative Experiences Scale by Bernstein and Putnam (DES) [16] and A-DES for adolescents, and the Somatoform Dissociation Questionnaire by Ellert Nijenhuis (SDQ) [17]. 2) Diagnostic scales such as Cambridge Depersonalization Scale (CDS) [18], with a 28-item version and an 11-item one, and the Multidimensional Inventory of Dissociation (MID) [19]. 3) Structured interviews, such as Loewenstein's Mental Status Examination for Dissociation [20], Colin Ross’ Dissociative Disorders Interview Schedule (DDIS), and Spectrum Structured Clinical Interview for derealization-depersonalization (SCI-DER). Two instruments were selected for this research: Cambridge Depersonalization Scale (CDS-11) and Dissociative Experiences Scale (DES) by Bernstein and Putnam.

CDS-11 (Cambridge Depersonalization Scale) self-administered test that seems to have predictive validity regarding dissociative disorders. It has 3 subscales: amnesia experiences or blackouts in the continuity of conscience, depersonalization, and derealization and absorption ("imaginative absorption" or "common dissociative symptoms"), and identity disorder. These factors or subscales describe the severity of symptoms for each of these domains in an approximate fashion but do not lead to unquestionable diagnoses. The dissociative amnesia factor involves a deficit in memories which prevents the individual from recovering the information stored. The associative absorption factor refers to the individual being immersed in internal events such as thinking and imagination and disconnected from the environment. The depersonalization/derealization factor involves persistent periods of self-estrangement and can be used as an instrument for depersonalization disorder screening as such.

Method

Participants

The study was carried out at Fundación Instituto Spiral’s addiction facilities in Madrid, Vañes, and Oviedo. Inclusion criteria in the patient group were: being over 16, being diagnosed with addiction (drug use disorder or addictive behavior), having undergone dishabituation treatment and having remained abstinent for at least 6 months since discharge, and having sufficient intellectual ability to respond to evaluation instruments.

From a total of 724 individuals discharged in the last 3 years and meeting the aforementioned conditions, 68 former addicts who had not taken drugs for 6 months up to 3 years were randomly selected (mean was 9 months) and compared with 59 individuals from the control group (non addicts) randomly selected from the general population and belonging to diversified social statuses similar to the patient group's. Table 1 describes some sociodemographic variables of the population studied (Table 1).

In the non addicts sample, according to gender classification, 44.06% of individuals were female and 55.94% male, they were aged between 17 and 70 (mean=41.27, SD=11.137), mostly single (66.4%, n=38), had completed college education (20.3%, n=12 with intermediate level college education, and 18.6%, n=11 with upper level college education), were of medium socioeconomic level (81.35%, n=48), and came from households with three members or less (72.9%, n=43).

In the former addicts sample, according to gender classification, 64.7% of individuals were female and 35.23% male, they were aged between 19 and 70 (mean=40.86, SD=12.142), mostly single (69.1%, n=47), worked as unskilled workers (36.76%) and skilled workers (32.3%, n=22), and had a medium perceived socioeconomic level (66.17%, n=45). As the main sociodemographic data of interest, 25% (n=17) of addicts in the sample had had three or more partners, and 36.7% (n=25) of them had completed primary education.
Investigated variables

CDS (Cambridge Depersonalization Scale) scale, version CDS-11, and DES (Dissociative Experiences Scale by Bernstein & Putnam) scale were used.

Regarding the CDS-11 Scale, scores equal to or greater than 22.5 are considered positive, being severe those that exceed 30 points.

Regarding the DES Scale, scores equal to or above 30 are considered positive and severe those exceeding 40 (applicable both to the general scale and factors). Table 2 shows the distribution of the sample according to the instruments applied (Table 2).

Data analysis

Data were analyzed using the SPSS statistical package, version 21.

CDS-11 Scale: CDS scale’s (version 11) reliability, estimated through Cronbach’s a coefficient, was 0.85. In order to study the differences between addicts group (former addicts) and controls (non addicts), Student’s t test was applied to independent samples. Results showed statistically significant differences between both groups, as demonstrated in (Table 3).

DES Scale: Correlations between imaginative absorption, amnesia, and depersonalization/derealization factors were analyzed (Table 4), demonstrating high correlations between dimensions and their scales, suggestive of high factor discrimination. The scale’s and its three factors’ reliability, estimated through Cronbach’s a coefficient, was high: 0.939 (total), 0.792 (absorption), 0.822 (amnesia), and 0.881

<table>
<thead>
<tr>
<th>Study group</th>
<th>Total</th>
<th>Sex Valid</th>
<th>Age range</th>
<th>Mean</th>
</tr>
</thead>
<tbody>
<tr>
<td>Non addicted</td>
<td>59</td>
<td>33</td>
<td>26</td>
<td>17-70</td>
</tr>
<tr>
<td>Addicted</td>
<td>68</td>
<td>24</td>
<td>44</td>
<td>19-70</td>
</tr>
</tbody>
</table>

Table 1: Sociodemographic characteristics of the sample.

<table>
<thead>
<tr>
<th>Study group</th>
<th>Total</th>
<th>CDS-11</th>
<th>DES</th>
</tr>
</thead>
<tbody>
<tr>
<td>N= 127</td>
<td>59</td>
<td>59</td>
<td>59</td>
</tr>
<tr>
<td>Non addicted</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Addicted</td>
<td>68</td>
<td>68</td>
<td>62</td>
</tr>
</tbody>
</table>

Table 2: Instruments applied and distribution of sample.

<table>
<thead>
<tr>
<th>Study group</th>
<th>t</th>
<th>df</th>
<th>Sig. (bilateral)</th>
<th>Effect Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>Addicted-Non addicted</td>
<td>-5.636</td>
<td>92.455</td>
<td>0.000</td>
<td>0.86</td>
</tr>
</tbody>
</table>

Table 3: Addicted-Non addicted difference study.

Correlations between DES factors

<table>
<thead>
<tr>
<th>Factor</th>
<th>Score</th>
<th>Absorption</th>
<th>Amnesia</th>
<th>Depersonalization</th>
</tr>
</thead>
<tbody>
<tr>
<td>Absorption</td>
<td>Pearson correlation</td>
<td>0.788*</td>
<td>0.837*</td>
<td></td>
</tr>
<tr>
<td>Sig. (bilateral)</td>
<td>0.000</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Amnesia</td>
<td>Pearson correlation</td>
<td>0.788*</td>
<td>0.834</td>
<td></td>
</tr>
<tr>
<td>Sig. (bilateral)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Depersonalization</td>
<td>Pearson correlation</td>
<td>0.837*</td>
<td>0.834*</td>
<td></td>
</tr>
<tr>
<td>Sig. (bilateral)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

*Correlation is significant at 0.01 level (bilateral)

Table 4: Correlations between DES factors.

Table 5: Addicted-Non addicted difference study.

<table>
<thead>
<tr>
<th>Factor</th>
<th>Study Group</th>
<th>T</th>
<th>GI</th>
<th>Sig. (bilateral)</th>
<th>Size Effect</th>
</tr>
</thead>
<tbody>
<tr>
<td>Absorption</td>
<td>Addicted-Non addicted</td>
<td>-5.858</td>
<td>93,832</td>
<td>0.000</td>
<td>0.89</td>
</tr>
<tr>
<td>Amnesia</td>
<td>Addicted – Non addicted</td>
<td>-5.959</td>
<td>116,927</td>
<td>0.000</td>
<td>0.91</td>
</tr>
<tr>
<td>Depersonalization</td>
<td>Addicted – Non addicted</td>
<td>-5.858</td>
<td>87,180</td>
<td>0.000</td>
<td>0.88</td>
</tr>
</tbody>
</table>

Results

- CDS-11 Scale: For a 22.5 cut-off point, the prevalence of depersonalization in this scale was 0.00% for the non addicts group and 19.35% for the addicts group (former addicts). If we raise the cut-off point up to 30, we will see that severe depersonalization reaches 12% in the addicts group (Tables 6 and Figure 1).

- 2) DES Scale: The prevalence of depersonalization according to this scale was 5.08% for the control group (non addicts) and 43.55% for the addicts group. If we raise the cut-off point up to 40, we will see that severe depersonalization reaches 1.69% in the control group (non addicts) and 20.97% in the addicts group (Table 8 and Figure 2). These scores seem more accurate to us.

- According to the factors provided by DES scale, absorption factor is lower than the cut-off point, whereas depersonalization
The number invites reflection: 25% of former addicts suffer from depersonalization-derealization disorder, a pathology ignored by most of the general population and little known amongst professionals, as confirmed by both experts and DSM classification itself. The worst thing is that such ignorance usually leads to mistaking it for therapeutic involution or nostalgia towards consumption life, that is, for a pre-relapse, although it is actually an existential identity crisis related to the adaptation to the new environment. Former addicts suffering from this problem do not actually know whether their referent is this new world they are discovering or the former one, related to consumption life.

This is a surprise both for former addicts and their relatives, as well as for the clinical staff, who is usually unaware of this phenomenon and mistakes it for nostalgia towards the consumption environment. Who knows how many drug-free or former addicts have been victims of a mistake by their therapist? DPD-DR can be overcome through an adequate intervention in 3-6 months from onset.

Regarding treatment, we should make clear that depersonalization-derealization is a dissociative disorder rather than a psychosis, since the dissociative experience does not lead to disconnection with reality. In other words, the former addict feels strange but maintains a perfect sense of reality. We do not recommend psychopharmacologic treatment unless symptoms are severe or stem from another cause. Antipsychotic drugs may induce the disorder rather than neutralize it.

The most prudent attitude to be adopted is watchful waiting and accompanying. Active intervention should be carried out over cardinal symptoms if they are severe, for instance, using cognitive behavioral techniques if affective emotional alterations or strangeness experiences make the patient suffer too much.

In conclusion, nearly 25% of drug-free addicts (former addicts) suffer or have suffered from severe depersonalization disorder to a remarkable extent. If we consider milder symptoms, the number rises up to 40% of depersonalizing experiences in this important and delicate population. We think healthcare professionals should be well aware of depersonalization-derealization disorder as it is a frequent pathology in addicts in dishabitation and drug-free addicts.

References


Conclusions and Discussion

The prevalence of DPD in former addicts was higher than 20% in both scales. More specifically, DES scale showed a prevalence of 43.55%, whereas CDS-11 scale reduced it down to 19.38%. When raising the cut-off points, we see that the prevalence of severe depersonalization is 12.31% for CDS-11 scale and 20.97% for DES scale.

These scores seem more accurate to us. If we compare these data with Michal et al. [21]'s prevalence studies with broad general population samples, which estimated prevalence at 1.9% in the general population within the range of clinical significance, such percentage would correspond to 23.4% of the addict population if we follow proportionality. Consequently, it would be reasonable to state that nearly 25% of former addicts present with a remarkable level of depersonalization. A study by Simeon, D., Hwu, R., & Knutelska, M. [22] from 2007 with a similar sample (52 patients and 30 controls) concluded that temporal disintegration in depersonalized individuals is not directly attached to the main depersonalization-derealization symptoms, but it does exist when depersonalized experience involves a more prominent absorption. In our case, amnesia is the factor that best discriminates the DPD condition of the addict individual.

Table 9: Study of means by factors.

<table>
<thead>
<tr>
<th>Study Group</th>
<th>Absorption (&gt;30)</th>
<th>Amnesia (&gt;30)</th>
<th>Depersonalization (&gt;30)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Non addicted</td>
<td>15.9</td>
<td>23.12</td>
<td>16.35</td>
</tr>
<tr>
<td>Addicted</td>
<td>26.87</td>
<td>37.49</td>
<td>31.08</td>
</tr>
</tbody>
</table>

Figure 1: Prevalence for 22.5 and 30 cut-off points according to CDS-11 scale.

Figure 2: Prevalence for 30 and 40 cut-off points according to DES scale.


