Self-stigma in borderline personality disorder – cross-sectional comparison with schizophrenia spectrum disorder, major depressive disorder, and anxiety disorders

Introduction: Self-stigma arises from one’s acceptance of societal prejudices and is common in psychiatric patients. This investigation compares the self-stigma of a sample of patients with borderline personality disorder (BPD), schizophrenia spectrum disorder (SCH), major depressive disorder (MDD), bipolar affective disorder (BAD), and anxiety disorders (AD) and explores of the self-stigma with the subjective and objective measures of the severity of the disorder and demographic factors.

Methods: The total of 184 inpatients admitted to the psychotherapeutic department diagnosed with BPD, SCH, MDD, BAD, and AD were compared on the internalized stigma of mental illness (ISMI) scale. The ISMI-total score was correlated with the subjective and objective evaluation of the disorder severity (clinical global impression), and clinical and demographic factors.

Results: The self-stigma levels were statistically significantly different among the diagnostic groups (BPD 71.15±14.74; SCH 63.2±13.27; MDD 64.09±12.2; BAD 62.0±14.21; AD 57.62±15.85; one-way analysis of variance: F=8.698, df=183; P<0.005). However after applying the Bonferroni’s multiple comparison test, the only significant difference was between the BPD patients and the patients with AD (P<0.001). Stepwise regression analysis showed that the strongest factors connected with the higher level of self-stigma were being without partner, the number of hospitalization, and the severity of the disorder.

Conclusion: The BPD patients suffer from a higher level of self-stigma compared to patients with AD. In practice, it is necessary to address the reduction of self-stigma by using specific treatment strategies, such as cognitive therapy.

Keywords: self-stigma, borderline personality disorder, schizophrenia spectrum and related disorders, major depressive disorder, anxiety disorders, severity of the disorder

Introduction
Self-stigma is a maladaptive process in which individuals accept societal prejudices and integrate this evaluation into their self-concept. Persons suffering from psychiatric disorders may be principally vulnerable to the self-stigma. Self-stigmatization can be understood as a series of stages: 1) persons becoming conscious of societal labels; 2) agree with the labels; 3) apply the labels to themselves; and 4) subsequently suffering lower self-esteem.

According to a meta-analysis by Livingston and Boyd, self-stigma is associated with the lower quality of life, levels of hope, self-esteem, self-efficacy, empowerment, social...
support, and higher severity of psychiatric symptomatology.\(^1\) Additionally, higher self-stigma is connected with lower functioning in social and work situations.\(^3,4\) Social maladaptation (especially social isolation) related to self-stigma results in further discrimination, which perpetuates a vicious circle of social stigma, self-stigma, and social maladaptation.\(^5\) Finally, self-stigma is correlated with the suicidality and with a history of suicide attempts.\(^6,7\) However, it is important to note, that associations between level of self-stigma and different variables are of correlational nature and thus do not indicate causal effects.

Patients with borderline personality disorder (BPD) expect and perceive social rejection stronger than the general population.\(^8\) They also show negative and unstable self- and other evaluations compared to healthy individuals.\(^9,10\) Both could be connected with higher level of self-stigma in this group of patients. Persistent problems in social interactions, as well as intense and unstable interpersonal relations, and exaggerated efforts to avoid abandonment describe core features of BPD.\(^11–13\) Studies report that individuals with a personality disorder, especially with BPD, stigmatize themselves more than persons without a personality disorder.\(^14–17\)

The comprehensive model regarding how self-stigma affects function in patients with severe mental illness (SMI) was published by Yanos et al.\(^18\) It may be helpful also to the understanding of this process in BPD. By empirical data, they proposed two models. Consequences from model 1 reinforced the view that internalized stigma increase avoidant coping, active social avoidance, and depressive symptoms and that these interactions are intermediated by the influence of self-stigma on self-esteem and hope. Consequences from model 2 replicated relevant associations from model 1 but also reinforced the hypothesis that positive symptoms can affect hope and self-esteem. Conclusions from two models reinforced the assumption that self-stigma affects self-esteem and hope, leading to negative consequences associated with recovery. Global self-esteem among persons with SMI may be negatively affected by stigma or stereotyped beliefs about individuals with SMI.\(^19\) According to Lysaker et al.,\(^20\) features of self-esteem related to lovability by others were closely connected with reduced feelings of being alienated from others due to psychiatric disorder. Features of self-esteem linked to the capability to manage one’s businesses were more strictly related to the rejection of stereotypes of mental illness. A feeling of being capable of influencing others was related to both the absence of discrimination experiences and the ability to ward off the stigma. The possibility that internalized stigma and deficits in social cognition and metacognition in schizophrenia spectrum disorder (SCH) are risk factors for insight to convert to depression was tested by Lysaker et al.\(^21\)

Patients with SCH with good insight and moderate depression reported more internalized stigma than those with poor insight and minimal depression. Patients with real insight and mild depression had higher levels of social cognition and metacognitive mastery than the other two groups.

While self-stigma is common in BPD, only a few studies have reported the investigation focusing on the comparison of the level of stigma in BPD patients with another diagnostic subgroup like psychosis, affective disorders or anxiety disorders (AD). Using the self-report questionnaires, Rüsch et al\(^14\) assessed the self-stigma in 60 females with BPD and 30 females with social phobia. Self-stigma was inversely related to the quality of life, self-efficacy, and self-esteem. Females with social phobia displayed lower self-stigma than females with BPD. This could reflect strong labeling processes as being mentally ill due to many interpersonal difficulties, repeated hospitalizations, and possibly visible scars. Ociskova et al\(^16\) showed that the average of internalized stigma of mental illness (ISMI) scale score was statistically higher in the patients with an anxiety disorder and a comorbid personality disorder compared to the patients without this comorbidity (especially in the ISMI subscales alienation and perceived discrimination).

The aim of our study was to investigate the self-stigma in patients with BPD and compare it with the self-stigma in patients with SCH, major depressive disorder (MDD), BAD, and AD. The second aim was to study the relation between self-stigma, demographic characteristics, and the severity of the disorder. Understanding the relationship between self-stigma and clinical and demographic correlates may inform about interventions to reduce the self-stigma in high-risk subgroups. Being able to characterize a patient’s self-stigma can help in treatment planning, which is reflected in the emerging literature on interventions to address self-stigma.\(^1,4,22–24\)

We prepared several hypotheses before beginning of the study. They were:

1. A self-stigma measured by ISMI-total score (TS) will be higher:
   a. in patients with BDP in comparison with patients with adjustment disorder;
   b. in patients in whom the problems started earlier in their life;
   c. in patients with higher level of psychopathology;
   d. in less educated patients;
   e. in patients with more psychiatric hospitalizations;
(f) in patients without a partner;
(g) in patients without a job.
(2) The self-stigma of patients with BDP measured by ISMI-TS will be equal with the self-stigma of patients with SCH, bipolar disorder, and MDD.
(3) The domain stigma resistance will be lower in patients with BDP than in other diagnostic groups.

Methods
Participants were recruited from outpatients of the Psychotherapeutic Psychiatric Department of University Hospital Olomouc in the period from July 1, 2014 to October 31, 2014. Then, the patients were screened for eligibility by the outpatient psychiatrists. The inclusion criteria were as follows:
(1) BPD, SCH, MDD, BAD, and AD according to International Classification of Diseases-10 research diagnostic criteria.\(^{25}\)
(2) the age of 18–60 years.
(3) both sexes.

Exclusion criteria included the inability to participate in psychiatric interviews or give informed consent, the age <18 or >60 years, being at immediate risk of suicide, actual or chronic serious somatic disorder, organic brain disease, and subnormal intelligence.

Including criteria were confirmed by the clinical interview of two experienced psychiatrists. The structured clinical interview, such as the severe combined immunodeficiency was not used. Patients who have comorbid investigated disorder, for example, comorbid BPD and MDD, was not excluded but received “the principal diagnosis” according to the psychiatrist, who recognize, which diagnosis had more severe expression at the time of evaluation.

Description of the assessment tools
Internalized stigma of mental illness scale
The ISMI is a 29-item questionnaire which measures internalized stigma according to four-point Likert scale (strongly disagree, disagree, agree, or strongly agree).\(^{26}\) The total scale score ranges from 29 to 116, with 63 and 64 being the average scores for self-stigma. The scale has five domains: alienation, stereotype endorsement, discrimination experience, social withdrawal, and stigma resistance. The alienation subscale assesses the patient’s experiences of being less than a full member of or being disqualified from society due to his or her disorder. The stereotype endorsement subscale measures the degree to which the individual agrees with widely accepted stereotypes about people with mental illness. The perceived discrimination subscale is concerned with the patient’s sensitivity to the way how other people treat him or her supposing they know about his or her mental illness. The social withdrawal scale was inspired by statements produced by focus group members who claimed that they avoid interactions with others not to burden them with their mental problems or because they fear rejection in case people around them learn about the mental illness. The stigma resistance subscale determines the degree to which the patient can be unaffected by self-stigma.\(^{26}\) A multinational study has tested the psychometric properties of the ISMI, finding an internal consistency reliability of \(\alpha=0.90\) and a test–retest reliability of between 0.62 and 0.90.\(^{27}\) The Cronbach’s alpha of the Czech translation of the scale (\(\alpha=0.91\)) was excellent, as well as reliability analyzed by the split-half method (Spearman–Brown coefficient 0.93) and test–retest 3 weeks after the first measurement (\(r=0.90, P<0.001\)).\(^{28}\)

Clinical global impression
Clinical global impression (CGI) is a scale used for global assessment of the severity of psychopathology.\(^{29}\) We used severity scale of CGI. It is one-item scale. The initial evaluation is performed by the patient’s psychiatrist using the objective form of the scale (CGI-O). The patient also assesses himself/herself by the subjective version (CGI-S), which includes seven levels of severity of the psychopathology. The intra-class correlations lie in the interval 0.88–0.92.\(^{30}\)

The demographic questionnaire
The demographic questionnaire contains basic information such as sex, age, the age of disease onset, marital status, living with partner or not, employment status, pension status, education, the number of psychiatric hospitalizations, and current medication.

Treatments
The antidepressant (n=132; 71.7%) were the most common drugs used by the participants, followed by antipsychotics (n=83; 45.1%), tymostabilizers (n=42; 22.8%), and anxiolytics (n=35; 19%). The dosage of medication was in ranges according to the guidelines of the therapy in treated diagnostic groups. The mean dosage of antidepressant was 40.92±26.89 mg of paroxetine equivalent, in antipsychotics 4.49±13.14 mg of risperidone equivalent, and 9.92±11.65 mg of diazepam equivalent.

Statistical analysis and ethics
The packages GraphPad Prism version 5.0 (GraphPad Software, Inc., La Jolla, CA, USA) and the Statistical Package for the Social Science version 24.0 (IBM Corporation, Armonk,
NY, USA) were used for statistical analyses. Descriptive statistics was applied to the demographic and clinical data. The Shapiro–Wilk $W$-test determined the Gaussian distribution of the demographic, clinical, and ISMI variables. The $t$-tests of the Mann–Whitney $U$-tests were used for comparison of the means. Mean ISMI, CGI-O, and CGI-S scores were calculated as were mean and standard deviation of each ISMI subscale.

Differences between diagnostic groups were determined by unpaired $t$-tests and one-way analysis of variance. Associations between factors were analyzed by Pearson’s or Spearman’s correlations and multiple regression. The Fisher’s exact test or chi-square test verified the connection between alternative variables (sex, marital status, partnership, education, and employment).

Regression was conducted between ISMI (dependent variable) and demographic and clinical variables (independent variables) including diagnosis, age, sex, occupation, marital status, having or not having partner, rent, the age of the onset of the disorder, number of hospitalizations, years of education, degree of education, CGI-O, and CGI-S. The threshold for statistical significance was set at 5%.

The ethic commitee of University Hospital in Olomouc approved the study. The investigation was conducted by the latest version of the Helsinki Declaration and standards of Good Clinical Practice. The patients signed informed consent.

Results

Sample description

The main characteristics of the sample are presented in Table 1. Diagnostic groups statistically significantly differ in most of the clinical and demographical parameters (Table 1). The “mean age” differs statistically significantly between diagnostic groups (see Table 1). The Bonferroni’s multiple comparison tests showed that age of the patient with BPD is statistically significantly lower in comparison with ages of all other diagnostic groups (BPD vs SCH mean difference (diff) = −7.52, $t = 3.06$, $P < 0.05$; BPD vs MDD mean diff = −15.54, $t = 5.76$, $P < 0.001$; BPD vs BAD mean diff = −9.80, $t = 3.54$, $P < 0.01$; BPD vs AD mean diff = −9.60, $t = 3.66$, $P < 0.01$).

The diagnostic groups had statistically significant differences in “male/female ratio” (Table 1) between diagnostic groups. Post hoc head-to-head analysis showed the statistically significant differences between BPD and SCH (Fisher’s exact test: $P < 0.0001$), BPD and MDD (Fisher’s exact test: $P < 0.01$), but not between BPD and BAD (Fisher’s exact test: not significant [n.s.]), alternatively, BPD vs AD (Fisher’s exact test: n.s.).

There were statistical differences in the “marital status” between the diagnostic groups (Table 1). Post hoc head-to-head comparisons showed the statistically significant differences between BPD and MDD (chi-square test: $P < 0.005$), BPD and BAD (chi-square test: $P < 0.05$), BPD and AD (chi-square test: $P < 0.05$), where more patients with BPD are single, but not between BPD and SCH (chi-square test: n.s.).

There was a significant difference between diagnostic groups in “partnership” (Table 1). The “length of the education” and “levels of education” (Table 2) differ significantly as well. The Bonferroni’s multiple comparison tests showed that it is due to the differences in the degree of education between BPD vs BAD ($P < 0.001$), not due to comparison with other diagnostic groups.

There were statistically significant differences between the diagnostic group in the “onset of the diseases” (Table 1). The beginning of the psychiatric problems was recognized significantly at an earlier age in BPD patients in comparison with other diagnostic groups (BPD vs SCH, $P < 0.05$; BPD vs MDD, $P < 0.001$; BPD vs BAD, $P < 0$; and BPD vs AD, $P < 0.001$).

Groups statistically significantly differ from each other in the “number of hospitalizations” in psychiatry (Table 1). When comparing the measurements using Dunn’s multiple comparison test, there was shown that the difference is due to the dissimilarities between the BPD and MDD ($P < 0.01$), BPD and AD ($P < 0.001$), and not with other diagnostic groups (SCH, BAD).

Severity of the disorder

There was a statistically significant difference between diagnostic groups in “CGI-O” (Kruskal–Wallis statistic). The comparison between the groups for the severity of the disorder by using the Dunn’s multiple comparison tests, showed that the differences between the BPD and all other diagnostic groups (Table 1). When comparing the scores in subjective “CGI-S”, there was statistically significant difference between diagnostic groups also. According to the Dunn’s multiple comparison tests, which compare each pair of the groups, the differences were found between BPD and SCH, and BPD and BAD, not between other groups (Table 1).

ISMI scores in different diagnostic groups

The “ISMI-TS” was 63.51±14.57. There was a high statistically significant difference among diagnostic groups according to the “ISMI-TS” (Table 1). When using the correction for multiple comparisons by Bonferroni’s multiple comparison test, there were revealed differences between BPD patients and patients with AD. No other statistical differences between groups were detected in multiple comparisons.
The groups differ in particular between the ISMI subscale “alienation” (Table 1). The Bonferroni’s multiple comparison tests demonstrated that it is due to the differences between BPD and SCH \( (P<0.001) \), MDD \( (P<0.01) \), BAD \( (P<0.001) \), and AD \( (P<0.001) \). The level of alienation is higher in BPD group than in all others.

The groups did not differ between the subscale “stereotype endorsement”, but there was a significant difference in self-stigma in borderline personality disorder...
The last subscale of the ISMI is “stigma resistance”. There were large statistically significant differences between diagnostic groups in stigma resistance ($F=5.674$, $df=183$, $P<0.0005$). In Bonferroni’s multiple comparison tests were shown, that BPD group was different from SCH ($P<0.05$), MDD ($P<0.01$), but not from BAD and AD.

**ISMI relationship with demographic and clinical variables**

ISMI-TS did not correlate with the age and sex, but it correlated significantly with the age of disease onset, the years of education, and number of hospitalizations (Table 2). There was strong statistical significant difference between employed and unemployed patients, while higher stigma, had patients with no job. There were no differences in mean self-stigma level between groups divided according to marital status, according to the presence of any retirement/pension or not, and the degree of education (Table 2). However, there was the strong statistically significant difference in ISMI-TS between patients with a partner and patients without a partner (Table 2).

There were statistically significant correlations among the ISMI-TS and CGI-S or CGI-O evaluation of the severity of the disorder and with an index of antidepressants (Table 2). There was also statistically significant correlation with the years of education (Spearman’s $r=-0.1625$, $P<0.05$).

There was a significant correlation between mean antidepressant dosage (according to the index of the antidepressant), but not with an index of antipsychotic or anxiolytic dosage (Table 2).

**Multiple regression analysis of significant factors connected to the self-stigma**

Due to the several factors significantly related to the self-stigma, we decided to calculate a multiple regression analysis to find essential elements. The dependent variable was the ISMI-TS scale while CGI-O, CGI-S, the age of onset, diagnosis, years of education, partnership, number of hospitalizations, and employment were independent variables (see variables in Table 3). The method applied was a stepwise regression analysis. The resultant model explained 28.9% of the dependent variable. The strongest factors connected to self-stigma was being without partner, number of hospitalizations, and the severity of the disorder measured by CGI-O and CGI-S.
Table 3 Multiple regression analysis with self-stigma as the dependent variable

<table>
<thead>
<tr>
<th>Regressor</th>
<th>B</th>
<th>SE</th>
<th>β</th>
<th>t</th>
<th>P-value</th>
</tr>
</thead>
<tbody>
<tr>
<td>CGI-S</td>
<td>2.960</td>
<td>0.671</td>
<td>0.345</td>
<td>4.411</td>
<td>&lt;0.001</td>
</tr>
<tr>
<td>Partnership</td>
<td>−5.444</td>
<td>1.853</td>
<td>−0.187</td>
<td>−2.938</td>
<td>&lt;0.005</td>
</tr>
<tr>
<td>Number of hospitalizations</td>
<td>0.731</td>
<td>0.296</td>
<td>0.161</td>
<td>2.469</td>
<td>&lt;0.05</td>
</tr>
<tr>
<td>CGI-O</td>
<td>1.478</td>
<td>0.746</td>
<td>0.160</td>
<td>1.981</td>
<td>&lt;0.05</td>
</tr>
</tbody>
</table>

Note: Adjusted $r^2$=0.289.

Abbreviations: B, unstandardized coefficients B; β, standardized coefficients beta; CGI-O, clinical global impression – objective; CGI-S, clinical global impression – subjective; SE, standard error.

Discussion

There were statistically significant differences between diagnostic groups in the studied sample in many demographic features. With a focus on BPD, the patients with BPD were statistically significantly younger than patients with other diagnostic subgroups and their problems started earlier in the life. This result is in agreement with the diagnosis of personality disorder, the features and challenges of which are typically clearly recognizable in the adolescents.11,25

There were 80% of the BPD females in our sample which is in agreement with the previous finding according to which ~75% of BPD patients are females.35 Only 14% of the patients with BPD were married (comparable with schizophrenic patients – 16%), which is very low in comparison with the current average in the Czech Republic. Another 29.1% live with a partner; the percentage is comparable with a study of Skodol et al13 with 27% BPD patients living with a partner. Another explanation is the age – other diagnostic groups were significantly older than BPD patients.

There were 70% of unemployed BDP patients in our sample, which is more than ten times greater than the average unemployment rate in the Czech Republic.34 Borderline patients are unemployed in higher percentage above all other studied group of disorders. Unemployment rate corresponds to 69% of those found in other larger study.33 The level of unemployment in addition to personality disorder may also be related to a high proportion of patients who have only basic education (31%).

Patients with BPD have been youngest, but nevertheless, they were hospitalized the most frequently from all diagnostic groups, comparable only with the patients with BAD. In contrast, comparable with AD patients, most patients with BPD have no rent, which can indirectly testify for underestimation of the suffering and difficulties associated with BPD by Czech committees for disabilities.

The ISMI-TS 63.51±14.57 of the whole sample is comparable with the scores of other Czech studies with SCH,35,36 mixed AD,16 MDD,37 BAD,38 or mixed diagnostic population.39 It is a medium–high self-stigma score close to the mean score for the patients’ population evaluated for the standardization of the ISMI in mixed diagnosed Czech patients population.28 The mean scores of ISMI of our patients are also by the self-stigma studies in other countries.40 In our study, the level of self-stigma in patients with BPD was the highest of all compared diagnostic groups. Patients with BPD showed not only highest rate of overall self-stigma but also in all subscales of ISMI except stigma resistance.

Some personality factors, which characterize BPD, can be closely connected to self-stigma. Dominant sign of BPD is disturbances and uncertainty about self-concept,11,25 and patients with higher levels of self-stigma typically lose their former self-concept.31 BPD patients score highly on harm avoidance scales,32 and this personality trait can increase the probability of development of self-stigma later in life.43 Self-directedness is reduced in BPD patients,44 and this personality trait is also linked to self-stigma.41 Schema concept postulates the existence of maladaptive schemas, self-defeating emotional and cognitive patterns established from childhood and repeated throughout life.45,46 Schemas in BPD have a similar content as the self-stigmatization assertions and beliefs, which are measured by the ISMI scale.

The objective CGI in BPD evaluated by outpatient psychiatrist show the statistically significant higher severity of the disorder in patients with BPD in comparison with the each of another diagnostic group.

Patients with BPD had the highest value of CGI-O of all researched disorders in our sample. The subjective CGI in BPD demonstrate the same: is greater in BPD patient than in other diagnostic groups. The results demonstrate the severity of the impact of BPD in the patient.

One of the results is that higher self-stigma in this diagnostic group is connected with younger age. However, as shown the correlation between ISMI and age, there was not significiation relationship between the self-stigma and age in the whole sample. This finding is consistent with findings of Holubova et al16 in an outpatient population of patients with SCH, with the results of Ociskova et al16 in AD, and with results of Cinculova et al17 in patients with the MDD.

The findings indicated that ISMI-TS did not relate to age, sex, level of the education, supporting the results of the most studies of self-stigma, and demographic factors.16,36,47–50 This result does not correspond with the results of some other studies. In a study of Girma et al31 there was the significantly higher rate of ISMI-TS in females than in males and self-stigma decreased with increasing levels of education.

Abbreviations: B, unstandardized coefficients B; β, standardized coefficients beta; CGI-O, clinical global impression – objective; CGI-S, clinical global impression – subjective; SE, standard error.
On the other hand, Yen et al.\textsuperscript{52} detected the relation among sex, age, and self-stigma. Mosanya et al.\textsuperscript{53} found an inverse relationship between the level of education and degree of self-stigma. Different results of our study may be associated with the use of different scales to evaluate self-stigma, the different socioeconomic and cultural environment, or with the participation of other diagnostic groups of patients. By our findings is the review and meta-analysis of 127 articles dealing with stigma and self-stigma mainly in developed countries, which found no significant relationship between main demographic factors, such as age, sex, and education and the self-stigma.\textsuperscript{1}

Unemployment was connected with higher level of self-stigma, what is similar as described by the study of Evans-Lacko et al.\textsuperscript{40} It seems that getting a job can be an important factor that could limit self-stigma. These findings highlight the importance of employment programs to improve the lives of people with mental disorders which also could reduce self-stigma.\textsuperscript{54} Multiple regression analysis of significant factors connected to the self-stigma showed a strong association with, being without partner, the severity of the disorder, and the number of previous hospitalizations.

Important factor linked to the self-stigma is a partnership, that is, patients with BPD, who have no partner significantly more self-stigmatized. It is impossible to determine the causality of this connection, but it can be assumed that patients who are more self-stigmatized also have difficulties with starting and maintaining the close relationship, the absence of a relationship then contributes to self-stigma.

Self-stigma was significantly positively associated with the CGI-S and CGI-O evaluations of a mental state, which may reflect the link between stigma and subjectively and objectively perceived differences between individuals from the norm in the severity of the disorder.\textsuperscript{1} Our results are consistent with Ocisková et al.\textsuperscript{28} The relationship between the number of previous hospitalizations and self-stigma could be given with a prerequisite for the patient and his close persons that patients with higher number of hospitalizations must be more seriously ill. Another possibility is that repeated hospitalization of BPD patients increases contact with the stigmatizing personnel and contribute to the internalization of stigma.\textsuperscript{55}

Demographic data above shows how significant is disabling in various areas of life in patients with BPD. Also, this disability is relatively stable over time if symptoms of BPD are present.\textsuperscript{56} This information suggests the importance of finding an effective treatment for patients with BPD since the reduction of BPD symptoms could be followed by improvements in work and relationships. As we have described, job and partnership are also linked with the degree of self-stigma.

Another possibility is to focus the therapy directly to the self-stigma. Livingston and Boyd identified that stigma interventions are successfully reduced self-stigma in people with the various psychiatric disorder. One intervention involved Internet modules for psychoeducation and cognitive behavioral therapy (CBT), and the other group involved CBT sessions.\textsuperscript{1} Group intervention to help persons with SMI can reduce internalized stigma.\textsuperscript{57} Yanos et al.\textsuperscript{22,23} and Roe et al.\textsuperscript{24} developed narrative enhancement and cognitive therapy for helping SMI patients to recognize and deal with self-stigma. This approach may serve as an inspiration for the programs for fighting with self-stigma in BPD. Authors cultivated an intervention that would consist of not only psychoeducation materials about internalized stigma but also methods aimed at increasing the cognitive skills required for correcting dysfunctional cognitions which might impede the development of a different sense of self and positive identity.

**Limitations of the study**

Limitations of the investigation include not using the structured clinical interview such as the severe combined immunodeficiency, small sample size, the cross-sectional design; using a general objective evaluation scale, and the single-site setting.

**Conclusion**

The self-stigma has a strong psychosocial and psychiatric symptom connection, so it is recommended that clinicians discuss both societal stigma and self-stigma with patients and consider using strategies such as CBT to challenge the accuracy of patients’ perceptions of the stigma. Adequate interventions that target to the self-stigma are essentially needed. Looking in the context that self-stigma is connected with the severity of the disorder, employment, and number of hospitalizations the appropriate therapy could specifically focus on these factors. Another investigation should evaluate self-stigma over the time of persons across the diagnostic disorder spectrum to inform about specific stigma decreasing activities.

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**Disclosure**

The authors report no conflicts of interest in this work.

**References**