

# Borderline personality disorder and unmet needs

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## Abstract

**BACKGROUND:** Borderline personality disorder (BPD) is a disabling psychiatric condition with a chronic and challenging course. BPD is reflected as a disorder of self-regulation” and is associated with both psychological vulnerabilities and social relations that fail to support basic emotional needs. The objective of the paper is to provide the up-to-date data on the unmet needs of BPD patients and their families.

**METHOD:** A computerized search of the literature printed between January 1990 and May 2017 was conducted in PubMed, and additional papers were extracted using keywords “borderline personality disorder,” “needs,” “pharmacotherapy,” “psychotherapy,” “CBT,” and “family” in various combinations. According to the eligibility criteria, 57 articles were chosen. Secondary articles from the reference lists of primarily identified papers have been selected for the eligibility and added to the first list (N=151).

**RESULTS:** The results were divided into three categories: the needs connected with (1) the symptom control; (2) the treatment; (3) the quality of life. The needs connected with symptoms were described issues such as emotional needs, social interactions, self-harm, parasuicide, suicidality, comorbidity, mentalization, identity disturbance, moreover, barriers to treatment. The needs connected with the treatment described are focused on needs for early diagnosis, early intervention, holding environment, therapeutic relation, assertive community treatment, destigmatization, hospitalization, and primary care. The needs connected with the quality of life involve family needs, physical health, spiritual needs, advocacy needs, and needs for the separation-individuation. The part focused on implications for the treatment presented several treatment approaches, focusing mostly on the their basics and efficacy.

**CONCLUSION:** Observing the patients’ needs may be essential to the treatment of the individuals suffering from BPD. However, many needs remain unmet in the areas linked to medical, personal, and social factors. A bigger focus on the patients’ needs could be beneficial and should be targeted in the treatment.

## INTRODUCTION

Borderline personality disorder (BPD) characterizes disinhibition and impulsivity, emotion dysregulation, risk-taking behavior, fear of abandonment, feelings of emptiness, irritability, and self-injury, as well as unstable interpersonal relationships (Ryan 2005, APA 2013). Most features of borderline pathology can be divided into three dimensions: disturbed affect regulation, identity disturbance, and problems in social interaction (Linehan 1993a; Bohus & Kröger 2011; Dimaggio *et al.* 2013). The prevalence of the disorder in the general population lies between 2% and 6%, with 75% of those suffering being women (APA 2013). However, some investigators report the same prevalence rates between the sexes (Grant *et al.* 2008). The development of the disorder relates to specific nature and nurture factors (Ryan 2005; Paris 2009; APA 2013). A common theme in the histories from a childhood of BPD patients is repetitive trauma (e.g., sexual, physical, or emotional abuse or witnessing domestic violence) (Sauer *et al.* 2014; Sansone & Sansone 2015; Weibel *et al.* 2017). Linehan (1993) supposed that the main problem in BPD is emotional dysregulation as a result of a genetic tendency to overemotionality and invalidating environment during personal development. Several recent studies also recognized that neuropsychological dysfunction of BPD affects domains such as attention, cognitive flexibility, memory, planning, processing speed and visuospatial skills (Ruocco 2005; Le Gris *et al.* 2006; Dell’Oso *et al.* 2010; Fertuck *et al.* 2012; Mark & Lam 2013). Accordingly neuroimaging studies reported structural and functional abnormalities in various brain areas supporting the assumption of a dysfunctional fronto-limbic network in subjects with BPD (Nunes *et al.* 2009; Wingefeld *et al.* 2010; Leichsenring *et al.*

2011; Ruocco *et al.* 2012; Niedtfeld *et al.* 2013; Salvador *et al.* 2016; Soloff *et al.* 2015).

In the last decades, a growing attention to human rights and stressing the sensibility to autonomy has given a requirement to the encourage of the users of psychiatric care. Patients started to recognize their needs and focused more on their health and social care utilization. The traditional paternalistic physician–patient relationship is changed by authorizing the patients and their families. The discussion has concentrated on the necessity for freedom and respect, and the existential appeals, such as the need to experience a meaningful life. The aim of this paper is to explore recent scientific information regarding the needs of the patients suffering from BPD by reviewing and summarizing the published facts about the topic and show the broad concept of patients’ needs.

## METHOD

The PubMed database was used to search for papers published from January 1990 to May 2017 by using the following terms: „borderline personality disorder” and “needs” in successive combination with “pharmacotherapy”, “psychotherapy”, “dialectical behavioral therapy”, “schema therapy” “cognitive behavioral therapy”, “transference focus therapy” “family”, “quality of life”, “emotionally unstable”, or “physical health”. The used filters were: humans and adults (19 + years). Furthermore, the included studies had to meet the criteria for inclusion (1) published in peer-reviewed journals; (2) the articles could have been prospective or retrospective original studies in humans; or (3) reviews on the relevant topic; (4) the papers were published in English. The criteria for exclusion were (1) conference abstracts; (2) commentaries and dissertations. We utilized a flow diagram to summarize the total number of screened papers and the number of those included in the review process as suggested by the PRISMA Guidelines (Moher *et al.* 2009) (Figure 1).

## RESULTS

Three distinct group of categories were formed after discussion of authors which categories of needs fit the best to the aim of the study: needs connected (1) with the symptoms; (2) with the treatment; and (3) with the quality of life. Within these groups of categories, we described many classes of needs, which presented a significant problem in the patients’ life.

### Needs connected with the symptoms

The patients may express fears about durable symptoms and have difficulties in handling them (Akhtar 1998; Dimaggio *et al.* 2013). They are often related to the lack of emotional control, insight, information, and support from family or the medical staff (Sansone *et al.* 1998; Schimmel 1999; Shanks *et al.* 2011). Symptoms may

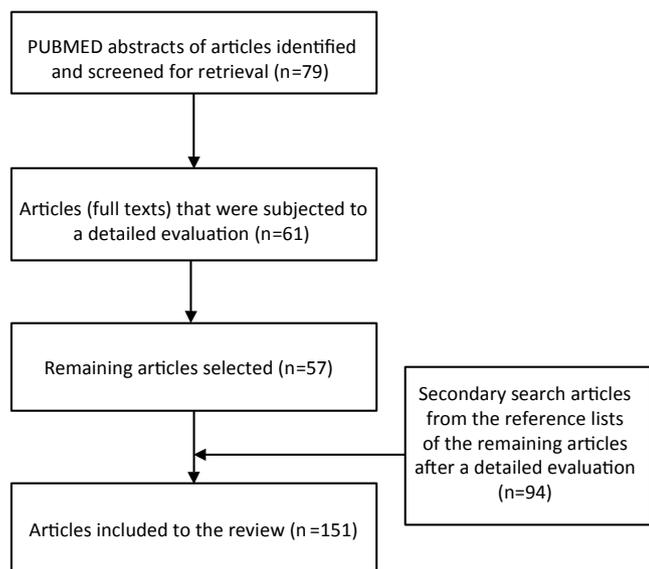


Fig. 1. Summary of the selection process.

suppress some needs or potentiate others, depending on the stage of the disorder (Ryan 2005; Zimmerman 2016). The needs related to the symptom control can be more noticeable in several distinct subcategories: emotional needs, needs for social interaction, needs connecting with the deliberate self-harm and parasuicides, suicidality, needs related to comorbidity, lack of mentalization, and identity disturbance.

### Emotional needs

Zanarini *et al.* (1997) point out that people with BPD meet in childhood with emotional, physical and sexual abuse. They are often put in the role of a parent (reversed role), lacking sufficient protection, no one notices their feelings (Herman *et al.* 1989, Westen *et al.* 1990). A typical threatening environment is associated with unpredictability and propensity in parental behavior when the child is unable to understand and predict the occurrence or severity of punishments (Ogata *et al.* 1990, Ménard and Pincus 2014, Waxman *et al.* 2014). An invalidating environment in childhood, which did not respond properly on the expression of private child experience (beliefs, thoughts, feelings, sensations) is essential for *no fulfilling the basic emotional needs* for safety, love, encouragement, respect and autonomy (Linehan 1993a; Lobbestael & Arntz 2010; Bohus & Kröger 2011). Also prolonged and severe trauma, most importantly the trauma that occurs early in the life, can lead to future *failures in control of the emotions* (van der Kolk *et al.* 1994; Terzi *et al.* 2017). From other issues autonomy is discussed as a developmental route that is reliant on the concrete supports from important persons (Young 1994). Because of previous experiences, many patients are unable to speak about their needs or do it in inappropriate way. Some of these attempts include clinging and unselective relations with others in which old traumas are eventually re-enacted over time (Bouchard *et al.* 2009; Dimaggio *et al.* 2013; Leppänen *et al.* 2016). Others present more self-directed behaviors such as eating disorders, self-mutilation, and substance abuse (Gratz & Tull 2011; Hawton *et al.* 2016). Frequently, the patients use more of these dysfunctional strategies. When the strategies fail, self-destructive behavior or suicide attempts often take place (Holm & Severinsson 2008). During the treatment of people with BPD, therapists can expect that painful emotions related to the emotional and interpersonal needs may escalate to dissociative episodes (van der Kolk *et al.* 1994; Lobbestael & Arntz 2010).

The therapy has to make clear how up-to-date stresses are experienced as a reappearance of the traumas from past and how minor troubles in current relations can be seen as a reappearance of previous abandonment (Young 1994). It is important that the therapist delivers support, acceptance, validation of the individual's experience, and the refinement of more mindful and reflective regulation of actions (Clarkin *et al.* 2004; Young 1994; Verheul *et al.* 2003).

### Social interactions

Expectations of malevolence, persistent feelings of bitterness and anger, along with a disrupted ability to regulate emotions, can contribute to maintaining intense, hostile and unstable relationships (Stone 2001; Chapman & Linehan 2005). The interpersonal style is characterized by the need for closeness fluctuating to emotional distancing, unstable relatedness, intense effort to satisfy own interpersonal needs, dependency, extreme interpersonal sensitivity, and emotional over-reactivity (Bouchard & Sabourin 2009; Lawson & Brosart 2013; Sansone & Sansone 2013; Sansone & Sansone 2015). The relationship either idealizes or demonizes, excessive trust can suddenly change in relativity (Saniuslow *et al.* 2000, Stevenson *et al.* 2003 Stevenson *et al.* 2003). Individuals with borderline personality disorder often develop desperate efforts to avoid real or assumed abandonment (APA 2013). Often they will rather leave partner preventively to prevent abandonment (Robinson 2001). Immature defensive mechanisms (projective identification, splitting, denial, projection, displacement) predict marital dissatisfaction and affect pair adaptation (Bouchard & Sabourin 2009). A majority of pairs in which the woman suffered from BPD (68.7%) demonstrated many episodes of breakups and reunions and, over an 18-month period, nearly 30% of these couples dissolved their relationship (Bouchard *et al.* 2009). On the other side, in a longer 15-year follow-up, half of the women and a quarter of men were able to establish stable relationships (Zanarini *et al.* 2003).

### Deliberate self-harm

Among the most challenging problems facing the health care professionals working in the clinical practice is the management of the patients with deliberate self-harm (Gunderson 2011; Venta *et al.* 2012; Gratz & Tull 2011). The patients with BPD often exaggerate their response to social stress and engage in cutting to alleviate painful feelings. Self-harm is a robust predictor of suicidal ideation and attempts (Calhoun *et al.* 2017; Terzi *et al.* 2017). Main reasons underlying the self-injuring behavior – feelings of excessive tension, abandonment, self-punishment, and rarely a need for the attention of the others (Gratz & Tull 2011; Hawton *et al.* 2016). Hence, a broader understanding of the reasons for self-injuring is one of needs of the patients with BPD. The patients, who exhibit the self-injuring behavior, need behavioral, pharmacological, and psychotherapeutic strategies to encounter their complex needs (Loughrey *et al.* 1997). Barnicot *et al.* (2016) made a meta-analysis of randomized controlled trials comparing psychotherapeutic interventions and the medication, and no evidence of the efficacy was found for the non-suicidal self-injury, except for the mentalization-based therapy. However, the behavioral and CBT approaches were not included in this meta-analysis. Gratz & Tull (2011) examined the efficacy of a 14-weeks, adjunctive group emotion regulation therapy for the deliberate self-harm among the BPD women.

Although the outcomes of this study were hopeful (indicating positive effects of this treatment on psychiatric symptoms, intentional self-harm, and emotion dysregulation), they should be replicated to confirm its results.

### Parasuicides

The term parasuicidality refers to a recurrent suicidal behavior, gestures, threats or self-mutilating behavior (APA 2001; First *et al.* 1994; Giesen-Bloo 2006; Leppänen *et al.* 2016). For the BPD patients with parasuicidality, the early maladaptive schemas of the emotional deprivation, abandonment/instability, mistrust/abuse, and social isolation are the most prevalent (Young 1994; Arntz *et al.* 1999; Farrell & Shaw 2012). For these patients, the schema modes of the vulnerable child, angry child, detached protector, and compliant surrender are prominent (Leppänen *et al.* 2016). Also, Ellenhorn (2005) discusses that parasuicidality frequently arises from the symbiotic link between persons with certain existential needs and the medicalized organizations that serve them.

The BPD patients with tendencies towards the parasuicidal behavior are likely to benefit from working with early maladaptive schemas in the schema domain of disconnection and rejection at an early stage of their treatment (Young 1994).

### Suicidality

About 80% of the patients with BPD have a history of suicide attempts, and up to 10% commit suicide (Soloff *et al.* 2005). The suicide mortality rate in the people with BPD is almost 50 times higher than that in the general population (Lieb *et al.* 2004; Chesney *et al.* 2014). BPD patients at increased risk for suicidal behavior include individuals with prior attempts, comorbid with major depressive or a substance use disorder (Black *et al.* 2004). Hopelessness and impulsivity independently increase the risk of suicidal behavior, as does a turbulent early life (Soloff *et al.* 2008). High-lethality suicidal attempters among BPD patients were older, with children, less education, and lower socioeconomic class than low-lethality attempters (Soloff *et al.* 2005). They were more likely to have Major Depressive Disorder, co-morbid Antisocial Personality Disorder, and family histories of substance abuse. Findings from psychotherapy sessions with the BPD patients suggest that the suicidality is usually the most strongly associated with the punitive parent and detached protector modes (Farrell & Shaw 2012; Venta *et al.* 2012). Approaches to expand suicide prevention in the individuals with BPD should be more established. Strategies to diminish suicide require cooperation between the psychiatric care and the social services (Le Gris & van Reekum 2006; Linehan *et al.* 2006).

### Comorbidity

BPD is frequently comorbid with other psychiatric disorders (affective disorders, other specific personal-

ity disorders, PTSD, eating disorders) (Corruble 1996; Grant *et al.* 2008; APA 2013). The comorbid BPD worsen the treatment of other psychiatric disorder. For example in the case of depression, the presence of BPD can be a predictor of persistence of depression and can prolong the time to remission (Levenson *et al.* 2012; Skodol *et al.* 2011). In the case of comorbidity with depression, anxiety disorder, and bipolar disorder, there is a need for a tailored pharmacotherapy (Corruble *et al.* 1996). The programs for the management of the comorbidity of BPD with other psychiatric disorders are rare and for many comorbidities does not exist. They exist pharmacotherapeutic and psychotherapeutic approaches for the comorbidity with drug and alcohol addiction, eating disorder (Gianoli *et al.* 2012, Gentile 2015, Robinson *et al.* 2016, Martín-Blanco *et al.* 2017). Nevertheless, in many programs for anxiety disorders or depression, the patients with comorbid BPD are treated, and results are encouraging (Prasko *et al.* 2005, Prasko *et al.* 2010, Vyskocilova *et al.* 2011, Prasko *et al.* 2016a, Prasko *et al.* 2016b, Vyskocilova *et al.* 2016)

### Mentalization

Mentalization is the process by which humans implicitly and explicitly interpret the actions of themselves and others as meaningful established on intentional mental states (e.g., needs, beliefs, desires, feelings, and reasons) (Bateman & Fonagy 2008). This process is disrupted in the individuals with BPD who frequently misunderstand others' intentions (Bateman & Fonagy 2010). Lack of flexibility puts the individual at risk to unexpected breakdown when the schematic picture is confronted (Bateman & Fonagy 2010). This exposes feelings of the humiliation, which can only be avoided by manipulation, aggression, or the control of the other individual. The shared path to violence is via a temporary inhibition of the capacity for mentalization. Better mentalization could be developed using mentalization-based therapy (Bateman & Fonagy 2010). The emphasis of the treatment is on helping the patients to maintain mentalization about their mental states when their personal integrity is confronted (Bateman & Fonagy 2008).

### Identity disturbance and inconsistency in the self-image

Westen and Cohen (1993) described BPD patients with lack of consistently invested goals, values, ideals, and relationships. Identity disturbance is a complex variable that consists of several measurable elements. According to Kernberg (1993), diffusion of identity results from an inability to integrate positive and negative representations of one's self. Four components were evaluated in identity disturbance (Wilkinson-Ryan & Westen 2000; Chabrol *et al.* 2001; Ghaffari Nejad *et al.* 2010): (a) *role absorption* (patients act to over-identify with a particular group and accept their role as the only role in own life); (b) *painful incoherence* (frustration and worry about the sense of self); (c) *inconsistency* (incoherence in thought, feelings, beliefs and behaviours with own

sense of unpredictability); (d) lack of commitment (to social or work responsibilities aims and values).

#### Needs connected with the treatment

The BPD treatment can be reasonably effective when specific kind of therapy is applied, like dialectical behavioral therapy (Herschell *et al.* 2009; Quinn & Shera 2009; Bohus & Kröger 2011; Burroughs & Somerville 2013), transference focus therapy (Hawton *et al.* 2016), mentalization therapy (Bateman & Fonagy 2010), or schema therapy (Giesen-Bloo *et al.* 2006; Nadort *et al.* 2009). Nevertheless, several problems still exist: the therapy may not be accessible, and if it is, many patients drop out or do not fully respond to it.

The needs connected with the treatment could be divided into several distinct subcategories, as needs for (a) the early diagnosis; (b) an early intervention; (c) a holding environment; (d) a therapeutic relationship; (e) an assertive community treatment; (f) destigmatization; (g) overcome barriers to help seeking; (h) incarcerated individuals; (i) hospitalizations; (j) a primary care and medical setting.

#### Needs for the early diagnosis

The diagnosis and treatment of BPD are often postponed (Chanen 2015; Desrosiers *et al.* 2015). The delayed treatment can be associated with unrecognized patients suffering from BPD treated in psychiatric condition because of a comorbid disorder, such as depression, anxiety disorders, substance abuse disorders, eating disorders, bipolar disorder, adjustment disorders, and other mental conditions (Fabrega *et al.* 1993; Deans & Meocevic 2006; Forsyth 2007). Other possibilities of manifestations in the primary care and the general medical settings are pain sensitivity with the unsubstantiated chronic pain and multiple somatic complaints like somatization disorder and somatic preoccupation (Sansone & Sansone 2015). An unrecognized diagnosis of BPD is connected with inadequate treatment (mostly pharmacotherapy), which mostly focuses on the comorbid disorder and lead to treatment resistance and early relapses of the comorbid disorder (Fabrega *et al.* 1993; Zimmerman 2016).

#### Needs for the early intervention

The knowledge of the possible adolescent diagnosis of BPD has led to the controlled treatment trials, which have established that early intervention through the appropriate BPD diagnosis and treatment leads to clinically meaningful improvements for the adolescent patients (Chabrol *et al.* 2001; Santisteban *et al.* 2015). To progress early intervention for BPD, the access to evidence-based managements needs to develop, the range of available treatments needs to increase, the therapy need to be matched to the individual development and the phase and stage of disorder, and workforce development strategies need to update culture, knowledge, and practice in relation to the people with BPD (Spence *et al.* 2008).

Santisteban *et al.* (2015) examined the efficacy of two CBT approaches focusing on different mechanisms of change in improving a BPD pattern of behaviors and substance use in adolescents (14–17 years). The adolescent fulfilling the criteria for BPD and substance use disorders were randomized to an integrative BPD-oriented adolescent family therapy or an individual drug counseling. Both approaches had a clinically substantial influence on the BPD behaviors twelve months after their start but had no differential treatment effects. The effect on substance use was more complex.

#### Needs for holding environment

Many studies have found elevated rates of childhood sexual abuse in BPD patients (Soloff *et al.* 2008; Menon *et al.* 2016). The basic childhood needs were not satisfied in most BPD patients, and the patient typically searches for their fulfilling using many ways, like hypercompensation, manipulation, anger, or suffer without fulfilling. The BPD patients need a holding of their ruthlessness and rage, and also of analytic self-blame (Slochower 1991).

#### Therapeutic relationship

Ruggiero (2012) described several paradoxes that characterize the therapeutic relationship with the BPD patients, who are continuously looking for the interaction with the object which is inevitably traumatic for them. Countertransference problems are unavoidably principal because of the impending threat of the destruction of the therapeutic relations. Continuing a balance between the recognition-legitimization of primary narcissistic mirroring needs and the recognition control of narcissistic demands and attacks on the logical link is as crucial as it is complex. Ruggiero (2012) looks at the most significant therapeutic and anti-therapeutic aspects, stress the prominence of countertransference analysis and self-reflection as ways of accessing as yet unrepresented elements of the patient and therapist respectively.

#### Assertive community treatment

Assertive Community Treatment (ACT) programs were established to address the treatment needs of severely mentally ill individuals usually suffering from chronic mental illnesses. Still, the ACT programs are seeing an increasing number of people with co-morbid BPD (Burroughs & Somerville 2013). The efficiency of the traditional ACT programs in treating BPD is unclear, but the dialectical behavior therapy has been suggested as an efficient method of treating the patients with BPD in this setting (Burroughs & Somerville 2013).

#### Destigmatization

The study of Knaak *et al.* (2015) presented that stigma towards persons with BPD was significantly higher than the stigma of individuals with other mental illnesses. These findings also add further support to literature

showing that stigma varies by diagnostic group (Pescosolido *et al.* 1999; Pescosolido *et al.* 2010). When matching BPD to other highly stigmatized disorders such as psychoses or bipolar affective disorder, attitudes and behaviors towards patients with BPD have a tendency to be more negative (Fraser & Gallop 1993; Markham & Trower 2003; Forsyth 2007).

There are investigations on psychoeducation as an effective strategy for BPD with the patients and family members (Banerjee *et al.* 2006; Murray-Swank & Dixon 2006; Zanarini & Frankenburg 2008; Long *et al.* 2015; Gunderson *et al.* 1997). There is also some research suggesting psychoeducation can improve clinician's attitudes (Krawitz 2004; Commons Treloar 2009; Shanks *et al.* 2011). Results of the study of Knaak *et al.* (2015) suggest that the targeted intervention was effective at improving the healthcare provider attitudes towards the individuals with BPD and psychiatric and other disorders more generally, although the shift in the attitudes towards the people with specific disorders was substantially less significant than that towards the individuals with BPD. The attitudes towards a highly stigmatized disorder like BPD can improve through quite small interventions if those interventions are designed and delivered properly (Knaak *et al.* 2014). Significant decreases in stigma were achieved with only a three-hour program, even when the target audience was a group of practicing providers with substantial experience with psychiatric patients outside of this workshop.

Stigmatization among healthcare staffs towards persons with a mental disorder is supposed to present complications to effective caregiving (Aviram *et al.* 2006; Lauber *et al.* 2006; Schulze 2007; Thornicroft *et al.* 2007). This may be predominantly the position for the individuals with BPD, where it has been suggested that adverse reactions can lead to counter-therapeutic conditions as well as premature end of treatment, rationalization of the treatment failures, a lower probability of creating an effective therapy alliance with the patient, social and emotional distancing, troubles with empathizing, an absence of a belief in recovery, and views of the patients as manipulative, unrelenting, powerful, dangerous, and more in control of their behaviors than other patients (Fraser & Gallop 1993; Markham & Trower 2003; Markham 2003; Aviram *et al.* 2006; Forsyth 2007; Sansone & Sansone 2013). There is a considerable need for education and training aimed at improving the healthcare providers' attitudes, as well as their capability to interact effectively with the individuals with BPD (Krawitz 2004; Commons Treloar 2009; Shanks *et al.* 2011).

#### Barriers to help-seeking

Outcomes for probands with BPD across sexes were prominent for comparable high lifetime ranks of use of care, including day programs, hospitalization, and half-way houses, but not comparable levels of use services of

drug/alcohol rehabilitation, which was greater among the male subjects with BPD (Goodman *et al.* 2010). The men with BPD receive considerably less lifetime pharmacotherapy and psychotherapy than the women with BPD, although the duration of pharmacotherapy and psychotherapy does not differ by sexes.

Kealy & Ogrodniczuk (2010) examined the exclusion from the appropriate mental health care and the opportunities for recovery in BPD using the social construct of marginalization. Persistent attitudes among the mental health professionals, care administrators, and policy-makers maintain the marginalization of the patients with BPD in the systems of the health care. The BPD patients may be viewed as not suffering from a real disorder, containing a minority of the clinical population, and being a prolonged drain on health care resources. The absence of appropriate services may be based on such labeling attitudes. Substantial growth in the realistic understanding of the patients with BPD challenges these stigmatizing beliefs and requests for serious searching of the marginalized position of the BPD patients is needed (Kealy & Ogrodniczuk 2010). Because the men with BPD receive considerable less lifetime treatment than the women, there is the need for more studies to a better understanding of what might account for these sex differences in the treatment and expand strategies to deliver proper care for the male BPD patients.

#### Hospitalization

The countertransference prompted in the staff may provide a crucial signal function reflecting the patient ward system (Rosenbluth 1991). Understanding this state of mind offers the material not only about the patient's inner world but also about overall system features such as the staff's needs, therapeutic capacity and unanswered feelings from the earlier BPD patients. This indicator meaning may also have diagnostic and treatment consequences. A conceptualization of countertransference that includes the special system features of inpatient psychiatry is useful in the care of the BPD patients. In a focus group of the hospitalization in patients with personality disorders, five overarching themes were recognized: feasibility of ward life; having an ability to speak; revolving door patients; the power of sectioning and the 'personality disorder' label (Rogers & Dunne 2011; Rogers & Acton 2012). Some nurses describe individuals diagnosed with BPD as among the most difficult and challenging patients met in their practice. As a consequence, the argument has been made for the nursing staff to accept a clinical supervision to improve the therapeutic efficiency and treatment results for the persons with BPD (Bland & Rossen 2005). Clients, who have BPD, have unique needs for a family connection in their treatment, and inpatient staff professionals need to be conscious of such needs (Hartman & Boerger 1990). Founding and continuing therapeutic relationships with family members are essential.

### Needs connected with primary care and general medical settings

Excessive utilization of healthcare and high healthcare costs are ardent issues in today's economic climate. BPD seems to be one of the contributing variables (Sansone *et al.* 2012). The patients with BPD features consistently evidenced a greater number of office visits and documented prescriptions (Sansone *et al.* 1998; Sansone *et al.* 1996), more contacts with the treatment facility (e.g., telephone calls) (Sansone *et al.* 1996), and more frequent referrals to specialists (Sansone *et al.* 1996a), i.e. an overall greater utilization of health care resources. The individuals with BPD in medical settings manifest physical symptoms that are medically difficult to substantiate. Diagnosis of this disorder and its possible manifestations in the medical setting is continuing to unfold (Sansone & Sansone 2015). Some aggressive or disruptive behaviors are clinically associated with BPD (i.e., demandingness, or intimidation, refusing the treatment, angry outbursts that are grossly out-of-proportion to the situation). The number of different disruptive office behaviors can be correlated with BPD as well as the following specific office behaviors-refusing to talk to the medical personnel, making verbal threats, screaming, yelling, and talking disrespectfully about the medical staff to both family and friends (Sansone *et al.* 2010). The intentional sabotage of the healthcare melds well with BPD as such behaviors may function as the self-injury equivalents (i.e., less recognizable variants of self-harm behavior) (Sansone *et al.* 2012). Additional possible behavioral variation of making medical situations worse is the phenomenon of preventing wounds from healing. Such behaviors are frequently linked to the feeling of abandonment, stigmatized or fear of the disorder and its consequence. BPD patients need professional help for understanding and sharing painful feeling connected with the physical disorder and treatment.

### Needs connected with the quality of life

Economic situation (financial) problems and challenges with keeping the occupation are typical distresses articulated by the BPD patients (van Asselt *et al.* 2008; Gerson & Rose 2012; Paris 2012; Pompili *et al.* 2014; Crawford *et al.* 2015; Ten Have *et al.* 2016). Many persons with BPD deal with the problems of separation from the family, family violence, divorce, rape, abuse (sexual, physical, and emotional), loss of children, and homelessness (Arntz *et al.* 1999, Holm & Severinsson 2008; Lobbestael & Arntz 2010; Lawson & Brossart 2013; Sauer *et al.* 2014; Schoenleber *et al.* 2014; North 2015; Whitbeck *et al.* 2015; Bovin *et al.* 2017). The disorder interferes with life experiences of many patients, who reported interference with study plans, interpersonal relationships, career, and the establishment of their family (van Asselt *et al.* 2008; Bouchard *et al.* 2009; Spindler 2009; van Asselt *et al.* 2009). BPD is accompanying with elevated levels of health resource

usage (Horz *et al.* 2010) and with adversarial long-term consequences that include severe and persistent functional disability (Gunderson *et al.* 2011), high family and career burden (Hoffman *et al.* 2003), physical ill health (El-Gabalawy *et al.* 2010; Frankenburg & Zanarini 2004) and premature mortality (Fok *et al.* 2012; Chesney *et al.* 2014; Cailhol *et al.* 2017).

### Family needs

It is principally essential to include the patient's significant others in the treatment of the patient's disorder and challenges, and thereby learn how to be able to cope with the disorder more effectively (Miller 1995). Family members can be vital in providing support for dealing with the challenging process of obtaining a new skill set. They are more likely to provide this kind of support if they have been part of the assessment and treatment process. Parents diagnosed with BPD often to discover the emotional facets of parenting challenging (Newman *et al.* 2007). Mothers suffering from BPD were found to be less sensitive and showed less organization in their communication with their infants, and their infants were found to be less attending, less interested, and less enthusiastic in interacting with their mothers in comparison with the community mothers and their babies (Newman *et al.* 2007). Additionally, the mothers with BPD described themselves being less satisfied, less competent and more distressed.

### Need for the physical health

Patients with BPD are known to be heavier users of both mental and medical health care systems, especially in emergency settings, than patients with other clinical conditions such as depression (Chesney *et al.* 2014; Cailhol *et al.* 2017). In the study of Chesney *et al.* (2016) BPD patients had a higher mean number of medication prescriptions, general medical consultations and days of medical or surgical hospitalizations in comparison with two control groups: one with other personality disorders and one with matched subjects randomly selected from the general population. There is also the increasing evidence that people with personality disorder have similar patterns of early mortality and physical comorbidity as those with other severe mental illness (Fok *et al.* 2012; Cailhol *et al.* 2017).

### Spiritual needs

The persons with BPD often question the purpose and value of their life (Ellenhorn 2005; Liu *et al.* 2011; Weibel *et al.* 2017). Small feelings of meaning in life are connected with depression, hopelessness and suicide, substance abuse and emotional dysregulation. Patients with BPD had a lower feeling of meaning in life than the patients with mental disorders but without a BPD (Marco *et al.* 2017). Understanding the spiritual needs of the BPD patients is essential to provide more appropriate care and achieve a greater care efficacy (Marco *et al.* 2017; Weibel *et al.* 2017).

### Advocacy needs

The disorder is associated with elevated risk for a variety of dangerous behaviors (Scott *et al.* 2014; Moore *et al.* 2017). Impulsive behavior such as substance or alcohol abuse, promiscuity, anger outbursts, including criminal behaviors, stalking behavior, and self-injuring or suicidal behavior are the most dangerous features (Lewis *et al.* 2001; Sansone & Sansone 2010; Moore *et al.* 2017). Pandya (2014) described the development of advocating for consumers and families affected by BPD. The role of emotion-driven difficulties controlling impulsive behaviors in criminal behaviors is important among persons with BPD. The targeting this mechanism has potential clinical utility to prevent to criminal justice involvement and recidivism (Quinn & Shera 2009; Black *et al.* 2008; Black *et al.* 2013). The trends are closer the ties between advocacy and professional groups and specialization to better address the different needs created by diagnosis (Wanniarachige 2015).

## IMPLICATIONS FOR THE TREATMENT

### Case management

Before taking the patient with BPD into care, it is appropriate to consider that it will be a long and intensive therapy. The next step should be an installing of balance in what kind of treatment to provide the patient at that time (whether individual, group, pharmacological, psychotherapeutic, outpatient, inpatient, or combined). Working with a borderline patient brings an intense therapeutic relationship, a strong transference and countertransference reactions, which can mean personal maturation of both the patient and the therapist. It is necessary to consider whether we are willing and able to engage in an emotionally significant relationship with the patient and if we are in supervision. It can be expected that there will be many unexpected slumps and setbacks during the therapy.

The management of a patient with BPD assumes understanding her or his fears of abandonment on the one hand, on the other side fear of absorbing by the proximity (Clarkin *et al.* 2004; Young 1994; Verheul *et al.* 2003). In addition to understanding and support, a patient needs clear boundaries of what the therapist and he or she can do and what not during the therapy. The patients with the BPD tend to build relationships with the therapists that are similar to their previous significant relationships. This means that the therapeutic relationship can often be highly volatile, and intensive (APA 2001). Ongoing consultations with colleagues are recommended to address adverse reactions of the therapist to the client (such as distancing, rejection, or abandonment of a patient) which are the countertransference reactions with an experience of anger or frustration at the failures during the therapy. Opposite problem may be not reflected romantic and sexual feelings in response to the patient's seduction, or excessive tying compassion and support in response to the

reported patient suffering. In the sessions, there should be an emphasis to build a solid therapeutic alliance, monitoring of the self-injurious and suicidal behavior, validation of the suffering and experiences of abuse (as well as helping the patient to take responsibility for the actions), a support of the reflection instead of the impulsive behavior, and setting limits for the self-destructive behavior (Gunderson 2001). The borderline patient's tendency to split (a polarized emotional response) should also be carefully monitored and addressed (e.g. the earlier devaluation therapists associated with the idealization of the current therapist).

### Psychotherapy

Psychotherapy is viewed as the first-line treatment for the people with borderline personality disorder, while pharmacotherapy has a limited efficacy (APA 2001). In past 20 years, several disorder-specific interventions have been tailored to the specific needs of patients with BPD (Stoffers *et al.* 2012). They are *Dialectical behaviour therapy* (DBT; Davenport *et al.* 2010; Linehan *et al.* 2006; Bohus & Kröger 2011; O'Connell & Dowling 2014; van den Bosch *et al.* 2005), *Transference focus therapy* (TFT; Clarkin *et al.* 2004; Hawton *et al.* 2016), *Schema Therapy* (ST; Giesen-Bloo *et al.* 2006; Nadort *et al.* 2009), *Mentalization-based therapy* (MBT; Herschell *et al.* 2009; Nadort *et al.* 2009; Quinn & Shera 2009; Bateman & Fonagy 2010; Bohus & Kröger 2011; Burroughs & Somerville 2013), and *STEPPS* (van Wel *et al.* 2006; Black *et al.* 2008; Blum *et al.* 2008; Davidson 2008; Black *et al.* 2013; Black *et al.* 2016). Each treatment has been demonstrated to reduce the severity of the BPD symptoms, particularly the physical self-destructive behaviors (Zanarini 2009). The efficacy has also been demonstrated in neuropsychological remediation (cognitive rehabilitation) (Pascual *et al.* 2015; Vita *et al.* 2016).

Therapists need to retain their capability to mentalize, continue mental closeness, concentrate on present mental states, and avoid excessive use of conflict interpretation and metaphor while paying careful attention to the use of transference and countertransference (Bateman & Fonagy 2003). Targeting of the current symptomatology and behavior is insufficient. Livesley (2012) claimed that the existing psychotherapies are inadequate because they are not familiar with or accommodate to the extensive heterogeneity of BPD and its multifaceted etiopathogenesis. Based on these factors, it is not possible to apply just one approach in the treatment of the BPD patients. An integrated approach is suggested as an alternative to the specific therapies that use all effective interventions irrespective of their theoretical origins and delivers them in a coordinated way. Livesley (2012) recommended a two-component background for establishing an integrated treatment for BPD patients: (a) the BPD conceptualization based on the existing empirical knowledge about the structure, etiology, and stability of the BPD pathology used as a

guide for the selection and delivered therapeutic strategies; and (b) a model of therapeutic change founded on the general literature on psychotherapy outcome and specific studies of the personality disorder treatments.

Data about specific group interventions and their relationship to the results for subgroups of the people with BPD are not present in the psychodynamic group psychotherapy (Nehls 1992). However, BPD has been treated in the psychotherapy groups for over 40 years (Roller and Nelson 1999). The combined management of the group and individual therapy addresses the needs for object constancy, the integration of object and self-representations, and the possibility of attachment to others. Collaboration with the individual therapists in this procedure is necessary, and there are strict conditions that let this to occur as well as rules to help them make referrals. Co-therapy can be particularly beneficial if the therapy team is experienced and skilled. The group therapist must have specific training and supervision to lead groups of such intensity and affectively full content (Roller & Nelson 1999).

### Pharmacotherapy

The National Institute for Clinical Excellence (NICE) claimed the use of psychopharmacs only in periods of crisis for the persons with BPD (NICE 2009). Regardless of this recommendation, most service users are referred to a specialist, and a personality disorder service was found to be on numerous medications (Rogers & Acton 2012). In the last decade, there has been a progress in the number and quality of the studies of the pharmacotherapy of BPD, with the increase in the number of randomized, placebo-controlled, double-blind studies (Grootens & Verkes 2005; Binks *et al.* 2006; Herpertz *et al.* 2007; Kapoor 2009; Lieb *et al.* 2010; Mercer *et al.* 2009, Paris 2009; Saunders & Silk 2009; Stoffers *et al.* 2010; Bellino *et al.* 2011; Feurino & Silk 2011; Ingenhoven & Duivenvoorden 2011; Paris 2011; Ripoll *et al.* 2011; Vita *et al.* 2011; Ripoll 2012). The placebo-controlled studies in this area are of particular importance due to the high level of response in the patients with BPD on placebo. However, the latest Cochran's meta-analysis concluded that the pharmacotherapy for BPD is not based on a robust evidence from studies, but is supported by only a "very sparse" evidence from randomized controlled trials (RCTs) and "only a few study results, compared with the small number of included participants." The authors concluded that there is some support in the research for the administration of the second generation of antipsychotics, mood stabilizers, and omega-3 fatty acids, but these studies require replication because most estimates of the effect are based on the effectiveness in one study (Lieb *et al.* 2010). They also pointed out that there is no conclusive evidence that any drug reduces the severity of BPD.

Drugs rather work for specific dimensions symptoms (Stoffers *et al.* 2010). Specifically, it appears that for example, the effectiveness of the second generation

antipsychotics aripiprazole leads to reduced interpersonal problems, impulsivity, anger, psychotic symptoms, touchiness oversensitivity, depression, anxiety, and general psychiatric pathology (Stoffers *et al.* 2010). For olanzapine, there was no significant effect on the primary criteria relevant for the diagnosis of BPD. A secondary analysis, however, showed a significant reduction of affective instability, anger, psychotic, paranoid symptoms, and anxiety. Weight gain in some patients with this drug can be problematic and can affect the acceptance of its use. Interestingly, the tolerability of the treatment arms did not differ between a drug and a placebo (Stoffers *et al.* 2010).

Anticonvulsant mood stabilizers also appear promising. Valproate has a significant effect on improving interpersonal problems, depression, and anger, but because of the proven teratogenicity to the fetus and a higher incidence of the polycystic ovary is better to avoid in the treatment of young women (Verrotti *et al.* 2016). Lamotrigine reduces impulsivity, anger (Reich *et al.* 2009; Crawford *et al.* 2015). Topiramate can be particularly acceptable to the patients because it is not associated with weight gain, but rather with a slight weight loss (Loew *et al.* 2006; Kazerooni & Lim 2016). As far the antidepressants, the only significant effect is observed with amitriptyline in depressive symptoms, although SSRI, mianserin, and MAOIs show a pronounced effect when the patient suffers from a co-morbid depressive or anxiety disorder (Soloff *et al.* 1989; Stoffers *et al.* 2010). The omega-3 fatty acids have been found to have a significant effect on suicidality and depressive symptoms (Stoffers *et al.* 2010). In contrast, the British National Institute for Health and Clinical Excellence (NICE 2010) compared the previous recommendation does not consider any medication for the demonstrably beneficial either for signs of BPD and also criticizes the interpretations and guidelines of APA for the treatment of BPD. All in all, it can be stated that:

- The pharmacological treatment of the patients with BPD should be focused on defined symptoms.
- Treatment of a given drug should be of a sufficient duration (depending on the pharmacokinetic and dynamic properties of the drug) to assess that brings some advantages, but it should be stopped or changed if no benefits are apparent.
- Any evidence does not support polypharmacy, and it should be avoided whenever possible.
- Particular attention should be paid to the toxic effects in cases of an overdose (e.g. by tricyclic antidepressants) and to the potential for abuse or dependence (e.g. on hypnotics and sedatives).
- In the presence of comorbid disorders, it is appropriate to treat the comorbid disorder by standard procedures.

The research in the psychopharmacology and neurobiology of the personality disorders is still in its infancy compared with other psychiatric disorders. Some clini-

cal trials have various limitations, and many have only a small sample size. Moreover, the evidence indicating the improvement of the symptoms using pharmacotherapy in the BPD patients is rather weak. A certain caution in the indication of psychotropic drugs can be recommended. Psychotherapy is considered to be the primary treatment for BPD, while pharmacotherapy has limited efficacy. The most critical need of the patients is to find an experienced therapist and receive a long-term systematic psychotherapy.

## CONCLUSION

Monitoring the patients' needs is relevant for the treatment of the individuals suffering from BPD. However, many needs remain unmet in the areas linked to medical, personal, and social factors. A greater focus on the patients' needs could be valuable and should be directed to the treatment.

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## REFERENCES

- Akhtar S (1998). From simplicity through contradiction to paradox. The evolving psychic reality of the borderline patient in treatment. *Int J Psychoanal.* **79**: 241–252.
- American Psychiatric Association (2001). Practice guideline for the treatment of patients with borderline personality disorder. *American Journal of Psychiatry.* **158**: 1–52.
- American Psychiatric Association (2013). Diagnostic and Statistical Manual of Mental Disorders. Fifth Edition. Washington, DC: American Psychiatric Association.
- Arntz A, Dietzel R, Dreesen L (1999). Assumptions in borderline personality disorder: specificity, stability, and relationship with etiological factors. *Behav Res Ther.* **37**: 545–557.
- Aviram RB, Brodsky BS, Stanley B (2006). Borderline personality disorder, stigma, and treatment implications. *Harv Rev Psychiatry.* **14**: 249–256.
- Banerjee P, Duggan C, Huband N, Watson N (2006). Brief psycho-education for people with personality disorder – a pilot study. *Psychol Psychother.* **79**: 385–394.
- Barnicot K, Gonzalez R, McCabe R, Priebe S (2016). Skills use and common treatment processes in dialectical behaviour therapy for borderline personality disorder. *J Behav Ther Exp Psychiatry.* **52**: 147–156.
- Bateman AW & Fonagy P (2003). The development of an attachment-based treatment program for borderline personality disorder. *Bull Menninger Clin.* **67**: 187–211.
- Bateman AW & Fonagy P (2008). Comorbid antisocial and borderline personality disorders: mentalization-based treatment. *J Clin Psychol.* **64**: 181–194.
- Bateman AW & Fonagy P (2010). [Comorbid antisocial and borderline personality disorders: mentalization-based treatment]. [Article in German] *Prax Kinderpsychol Kinderpsychiatr.* **59**: 477–495.
- Bellino S, Rinaldi C, Bozzatello P & Bogetto F (2011). Pharmacotherapy of borderline personality disorder: a systematic review for publication purpose. *Current Medicinal Chemistry.* **18**: 3322–3329.
- Binks, C. A., Fenton, M., McCarthy, L., Lee, T., Adams, C. E., & Duggan, C. (2006). Pharmacological interventions for people with borderline personality disorder. *Cochrane Database of Systematic Reviews* (1). CD005653. doi: 10.1002/14651858.cd005653
- Black DW, Blum N, Eichinger L, McCormick B, Allen J, Sieleni B (2008). STEPPS: Systems Training for Emotional Predictability and Problem Solving in women offenders with borderline personality disorder in prison—a pilot study. *CNS Spectr.* **13**: 881–886.
- Black DW, Blum N, McCormick B, Allen J (2013). Systems Training for Emotional Predictability and Problem Solving (STEPPS) group treatment for offenders with borderline personality disorder. *J Nerv Ment Dis.* **201**: 124–129.
- Black DW, Blum N, Pfohl B, Hale N (2004). Suicidal behavior in borderline personality disorder: prevalence, risk factors, prediction, and prevention. *J Pers Disord.* **18**: 226–239.
- Black DW, Simsek-Duran F, Blum N, McCormick B, Allen J (2016). Do people with borderline personality disorder complicated by antisocial personality disorder benefit from the STEPPS treatment program? *Personal Ment Health.* **10**: 205–215.
- Bland AR & Rossen EK (2011). Clinical supervision of nurses working with patients with borderline personality disorder. *Issues Ment Health Nurs.* **26**: 507–517.
- Blum N, St John D, Pfohl B, Stuart S, McCormick B, Allen J, Arndt S, Black DW (2008). Systems Training for Emotional Predictability and Problem Solving (STEPPS) for outpatients with borderline personality disorder: a randomized controlled trial and 1-year follow-up. *Am J Psychiatry.* **165**: 468–478.
- Bohus M & Kröger C (2011). Psychopathology, and Psychotherapy of borderline personality disorder: state of the art. [Article in German] *Nervenarzt.* **82**: 16–24.
- Bouchard S & Sabourin S (2009). Borderline personality disorder and couple dysfunctions. *Curr Psychiatry Rep.* **11**: 55–62.
- Bouchard S, Sabourin S, Lussier Y, Villeneuve E (2009). Relationship quality and stability in couples when one partner suffers from borderline personality disorder. *J Marital Fam Ther.* **35**: 446–455.
- Bovin MJ, Wolf EJ, Resick PA (2017). Longitudinal associations between posttraumatic stress disorder severity and personality disorder features among female rape survivors. *Front Psychiatry.* **8**: 6. doi: 10.3389/fpsy.2017.00006.eCollection 2017.
- Burroughs T & Somerville J (2013). Utilization of evidenced based dialectical behavioral therapy in assertive community treatment: examining feasibility and challenges. *Community Ment Health J.* **49**: 25–32.
- Cailhol L, Francois M, Thalamas C, Garrido C, Birmes P, Pourcel L, Lapeyre-Mestre M, Paris J (2016). Is borderline personality disorder only a mental health problem? *Personal Ment Health.* **10**: 328–336.
- Cailhol L, Pelletier É, Rochette L, Laporte L, David P, Villeneuve É, Paris J, Lesage A (2017). Prevalence, mortality, and health care use among patients with cluster b personality disorders clinically diagnosed in Quebec. *Can J Psychiatry.* 706743717700818.
- Calhoun PS, Van Voorhees EE, Elbogen EB, Dedert EA, Clancy CP, Hair LP, Hertzberg M, Beckham JC, Kimbrel NA (2017). Non-suicidal self-injury and interpersonal violence in U.S. veterans seeking help for posttraumatic stress disorder. *Psychiatry Res.* **247**: 250–256.
- Chabrol H, Chouicha K, Montovany A, Callahan S (2001). [Symptoms of DSM-IV borderline personality disorder in a nonclinical population of adolescents: study of a series of 35 patients]. *Encephale.* **27**: 120–127.
- Chanen AM (2015). Borderline personality disorder in young people: Are we there yet? *J Clin Psychol.* **71**: 778–791.
- Chesney E, Goodwin GM, Fazel S (2014). Risks of all-cause and suicide mortality in mental disorders: a meta-review. *World Psychiatry.* **13**: 153–160.
- Clarkin JF, Levy KN, Lenzenweger MF, Kernberg OF (2004). The Personality Disorder Institute/Borderline Personality Disorder Research Foundation randomized controlled trial for borderline personality disorder: rationale, methods, and patients characteristics. *Journal of Personality Disorders* **18**: 52–72.
- Corruble E, Ginestet D & Guelfi JD (1996). Comorbidity of personality disorders and unipolar major depression: A review. *Journal of Affective Disorders.* **37**: 157–170.

- 32 Crawford MJ, Sanatina R, Barrett B, Byford S, Cunningham G, Gakkhal K, Lawrence-Smith G, Leeson V, Lemonsky F, Lykomitrou G, Montgomery A, Morriss R, Paton C, Tan W, Tyrer P, Reilly JG (2015). Lamotrigine versus inert placebo in the treatment of borderline personality disorder: study protocol for a randomized controlled trial and economic evaluation. *Trials*. **16**: 308.
- 33 Davenport J, Bore M & Campbell J (2010). Changes in personality in pre- and post-dialectical behaviour therapy borderline personality disorder groups: A question of self-control. *Australian Psychologist*. **45**: 59–66.
- 34 Davidson KM (2008). Borderline personality disorder: STEPPS improves symptoms. *Evid Based Ment Health*. **11**: 120. doi: 10.1136/ebmh.11.4.120.
- 35 Deans C & Meocevic E (2006). Attitudes of registered psychiatric nurses towards patients diagnosed with borderline personality disorder. *Contemp Nurse*. **21**: 43–49.
- 36 Dell' Oso B, Berlin HA, Serrati M, Altamura AC (2010). Neuropsychobiological aspects, comorbidity and dimensional models in borderline personality disorder. *Neuropsychobiology*. **61**: 169–179.
- 37 Desrosiers L, Saint-Jean M, Breton JJ (2015). Treatment planning: A key milestone to prevent treatment dropout in adolescents with borderline personality disorder. *Psychol Psychother*. **88**: 178–196.
- 38 Dimaggio G, Nicolò G, Semerari A, Carcione A (2013). Investigating the personality disorder psychotherapy process: the roles of symptoms, quality of affects, emotional dysregulation, interpersonal processes, and mentalizing. *Psychother Res*. **23**: 624–632.
- 39 El-Gabalawy R, Katz LY, Sareen J (2010). Comorbidity and associated severity of borderline personality disorder and physical health conditions in a nationally representative sample. *Psychosom Med*. **72**: 641–647.
- 40 Ellenhorn R (2005). Parasuicidality and patient careerism: treatment recidivism and the dialectics of failure. *Am J Orthopsychiatry*. **75**: 288–303.
- 41 Fabrega H Jr, Ulrich R, Pilkonis P, Mezzich J (1993). Personality disorders diagnosed at intake at a public psychiatric facility. *Hosp Community Psychiatry*. **44**: 159–162.
- 42 Farrell JM & Shaw IA (2012). Group schema therapy for borderline personality disorder – a step-by-step treatment manual with patient workbook. Singapore: Wiley-Blackwell.
- 43 Fertuck EA, Keilp J, Song I, Morris MC, Wilson ST, Brodsky BS, Stanley B (2012). Higher executive control and visual memory performance predict treatment completion in borderline personality disorder. *Psychother Psychosom*. **81**: 38–43.
- 44 Feurino, L., 3rd, & Silk, K. R. (2011). State of the art in the pharmacologic treatment of borderline personality disorder. *Current Psychiatry Reports*. **13**: 69–75.
- 45 First MB, Spitzer RL, Gibbon M, Williams J & Benjamin L (1994). Structured Clinical Interview for DSM-IV axis II disorders (SCID II). New York: Biometric Research Department.
- 46 Fok ML, Hayes RD, Chang CK, Stewart R, Callard FJ, Moran P (2012). Life expectancy at birth and all-cause mortality among people with personality disorder. *J Psychosom Res*. **73**: 104–107.
- 47 Fonagy P, Moran GS, Steele M, Steele H, Higgitt AC (1991). The capacity for understanding mental states: the reflective self in parent and child and its significance for security of attachment. *Infant Ment Health J*. **12**: 200–216.
- 48 Forsyth A (2007). The effects of diagnosis and non-compliance attributions on therapeutic alliance processes in adult acute psychiatric settings. *J Psychiatr Ment Health Nurs*. **14**: 33–40.
- 49 Frankenburg FR & Zanarini MC (2004). The association between borderline personality disorder and chronic medical illnesses, poor health-related lifestyle choices, and costly forms of health care utilization. *J Clin Psychiatry*. **65**: 1660–1665.
- 50 Fraser K & Gallop R (1993). Nurses' confirming/disconfirming responses to patients diagnosed with borderline personality disorder. *Arch Psychiatr Nurs*. **7**: 336–341.
- 51 Gentile S (2015). Pharmacological management of borderline personality disorder in a pregnant woman with a previous history of alcohol addiction: a case report. *Clin Drug Investig*. **35**: 761–763.
- 52 Gerson LD & Rose LE (2012). Needs of persons with serious mental illness following discharge from inpatient treatment: patient and family views. *Arch Psychiatr Nurs*. **26**: 261–271.
- 53 Ghaffari Nejad A, Kheradmand A, Toofani K (2010). Identity disturbance and substance-dependence in patients with borderline personality disorder. *Addict Health*. **2**: 35–40.
- 54 Gianoli MO, Jane JS, O'Brien E, Ralevski E (2012). Treatment for comorbid borderline personality disorder and alcohol use disorders: a review of the evidence and future recommendations. *Exp Clin Psychopharmacol*. **20**: 333–344.
- 55 Giesen-Bloo J, van Dyck R, Spinhoven P, van Tilburg W, Dirksen C, van Asselt T, Kremers I, Nadort M & Arntz A (2006). Outpatient psychotherapy for borderline personality disorder: Randomized trial of schema-focused therapy vs transference-focused psychotherapy. *Archives of General Psychiatry*. **63**: 649–658.
- 56 Goodman G, Edwards K, Chung H (2014). Interaction structures formed in the psychodynamic therapy of five patients with borderline personality disorder in crisis. *Psychol Psychother*. **87**: 15–31.
- 57 Goodman G, Edwards K, Chung H (2015). The relation between prototypical processes and psychological distress in psychodynamic therapy of five inpatients with borderline personality disorder. *Clin Psychol Psychother*. **22**: 83–95.
- 58 Goodman M, Patil U, Steffel L, Avedon J, Sasso S, Triebwasser J, Stanley B (2010). Treatment utilization by gender in patients with borderline personality disorder. *J Psychiatr Pract*. **16**: 155–163.
- 59 Grant BF, Chou SP, Goldstein RB, Huang B, Stinson FS, Saha TD, Smith SM, Dawson DA, Pulay AJ, Pickering RP, Ruan WJ (2008). Prevalence, correlates, disability, and comorbidity of DSM-IV borderline personality disorder: results from the Wave 2 National Epidemiologic Survey on Alcohol and Related Conditions. *J Clin Psychiatry*. **69**: 533–545.
- 60 Gratz KL & Tull MT (2011). Extending research on the utility of an adjunctive emotion regulation group therapy for deliberate self-harm among women with borderline personality pathology. *Personal Disord*. **2**: 316–326.
- 61 Grootens KP & Verkes RJ (2005). Emerging evidence for the use of atypical antipsychotics in borderline personality disorder. *Pharmacopsychiatry*. **38**: 20–23.
- 62 Gunderson JG (2001). *Borderline Personality Disorder: a Clinical Guide*. Washington, DC: American Psychiatric Press.
- 63 Gunderson JG, Berkowitz C, Ruiz-Sancho A (1997). Families of borderline patients: A psychoeducational approach. *Bull Menninger Clin*. **61**: 446–457.
- 64 Gunderson JG, Stout RL, McGlashan TH, Shea MT, Morey LC, Grilo CM, Zanarini MC, Yen S, Markowitz JC, Sanislow C, Ansell E, Pinto A, Skodol AE (2011). Ten-year course of borderline personality disorder: psychopathology and function from the Collaborative Longitudinal Personality Disorders study. *Arch Gen Psychiatry*. **68**: 827–837.
- 65 Hartman D & Boerger MJ (1990). Families of borderline clients: opening the door to therapeutic interaction. *Perspect Psychiatr Care*. **25**: 15–17.
- 66 Hawton K, Witt KG, Taylor Salisbury TL, Arensman E, Gunnell D, Hazell P, Townsend E, van Heeringen K (2016). Psychosocial interventions for self-harm in adults. *Cochrane Database Syst Rev*. CD012189. doi: 10.1002/14651858.CD012189.
- 67 Herman JL, Perry JC, van der Kolk BA (1989). Childhood trauma in borderline personality disorder. *American Journal of Psychiatry*. **146**: 490–495.
- 68 Herpertz SC, Zanarini M, Schulz CS, Siever L, Lieb K & Moller HJ (2007). World Federation of Societies of Biological Psychiatry (WFSBP) guidelines for biological treatment of personality disorders. *World Journal of Biological Psychiatry*. **8**: 212–244.
- 69 Herschell AD, Kogan JN, Celedonia KL, Gavin JG, Stein BD (2009). Understanding community mental health administrators' perspectives on dialectical behavior therapy implementation. *Psychiatr Serv*. **60**: 989–992.

- 70 Hoffman PD, Buteau E, Hooley JM, Fruzzetti AE, Bruce ML (2003). Family members' knowledge about borderline personality disorder: correspondence with their levels of depression, burden, distress, and expressed emotion. *Fam Process*. **42**: 469–478.
- 71 Holm AL & Severinsson E (2008). The emotional pain and distress of borderline personality disorder: a review of the literature. *Int J Ment Health Nurs*. **17**: 27–35.
- 72 Horz S, Zanarini MC, Frankenburg FR, Reich DB, Fitzmaurice G (2010). Ten-year use of mental health services by patients with borderline personality disorder and with other axis II disorders. *Psychiatr Serv*. **61**: 612–616.
- 73 Ingenhoven TJ & Duivenvoorden HJ (2011). Differential effectiveness of antipsychotics in borderline personality disorder: meta-analyses of placebo-controlled, randomized clinical trials on symptomatic outcome domains. *Journal of Clinical Psychopharmacology*. **31**: 489–496.
- 74 Kapoor S (2009). Management of borderline personality disorder: emerging, new pharmacological and non-pharmacological strategies. *Acta Psychiatrica Scandinavica*. **119**: 85–86.
- 75 Kazerooni R & Lim J (2016). Topiramate-associated weight loss in a veteran population. *Mil Med*. **181**: 283–286.
- 76 Kealy D & Ogrodniczuk JS (2010). Marginalization of borderline personality disorder. *J Psychiatr Pract*. **16**: 145–154.
- 77 Kernberg OF (1993). *Severe Personality Disorders: Psychotherapeutic Strategies*. New Haven: Yale University Press.
- 78 Knaak S, Modgill G, Patten SP (2014). Key ingredients of anti-stigma programs for healthcare providers: A data synthesis of evaluative studies. *Can J Psychiatry*. **59** Suppl 10: 19S–26S.
- 79 Knaak S, Szeto ACH, Fitch K, Modgill G, Patten S (2015). Stigma towards borderline personality disorder: effectiveness and generalizability of an anti-stigma program for healthcare providers using a pre-post randomized design. *Borderline Personality Disorder and Emotion Dysregulation*. **2**: 9 DOI 10.1186/s40479-015-0030-0
- 80 Krawitz R (2004). Borderline personality disorder: attitudinal change following training. *Aust N Z J Psychiatry*. **38**: 554–559.
- 81 Lauber C, Nordt C, Braunschweig C, Rössler W (2006). Do mental health professionals stigmatize their patients? *Acta Psychiatr Scand*. **113** Suppl 429: 51–59.
- 82 Lawson DM & Brossart DF (2013). Interpersonal problems and personality features as mediators between attachment and intimate partner violence. *Violence Vict*. **28**: 414–428.
- 83 Le Gris J & van Reekum R (2006). The neuropsychological correlates of borderline personality disorder and suicidal behaviour. *Can J Psychiatry*. **51**: 131–142.
- 84 Leichsenring F, Leibing E, Kruse J, New AS, Leweke F (2011). Borderline personality disorder. *Lancet*. **377**: 74–84.
- 85 Leppänen V, Vuorenmaa E, Lindeman S, Tuulari J, Hakko H (2016). Association of parasuicidal behaviour to early maladaptive schemas and schema modes in patients with BPD: The Oulu BPD study. *Personal Ment Health*. **10**: 58–71.
- 86 Levenson J, Frank E, Wallace M, Fournier J & Rucci P (2012). The role of personality pathology in depression treatment outcome with psychotherapy and pharmacotherapy. *Journal of Consulting and Clinical Psychology*. **80**: 719–729.
- 87 Lewis SF, Fremouw WJ, Del Ben K, Farr C (2001). An investigation of the psychological characteristics of stalkers: empathy, problem-solving, attachment and borderline personality features. *J Forensic Sci*. **46**: 80–84.
- 88 Lieb K, Vollm B, Rucker G, Timmer A, & Stoffers JM (2010). Pharmacotherapy for borderline personality disorder: Cochrane systematic review of randomized trials. *British Journal of Psychiatry*. **196**: 4–12.
- 89 Lieb K, Zanarini, M. C., Schmahl, C., Linehan, M. M., & Bohus, M. (2004). Borderline personality disorder. *Lancet*. **364**(9432): 453–461.
- 90 Linehan MM (1993a). *Cognitive-behavioural treatment of borderline personality disorder*. New York: Guilford Press.
- 91 Linehan MM, Comtois KA, Murray AM, Brown MZ, Gallop RJ, Heard HL, Korslund KE, Tutek DA, Reynolds SK & Lindenboim N (2006). Two-year randomized controlled trial and follow-up of dialectical behavior therapy vs. therapy by experts for suicidal behaviors and borderline personality disorder. *Archives of General Psychiatry*. **63**: 757–766.
- 92 Liu CJ, Fang CK, Gau ML (2011). [Nursing care experiences of a borderline personality patient with spiritual distress]. *Hu Li Za Zhi*. **58**: 112–118.
- 93 Livesley WJ (2012). Moving beyond specialized therapies for borderline personality disorder: the importance of integrated domain-focused treatment. *Psychodyn Psychiatry*. **40**: 47–74.
- 94 Lobbetael J & Arntz A (2010). Emotional, cognitive and physiological correlates of abuse-related stress in borderline and antisocial personality disorder. *Behav Res Ther*. **48**: 116–124.
- 95 Loew TH, Nickel MK, Muehlbacher M, Kaplan P, Nickel C, Kettler C, Fartacek R, Lahmann C, Buschmann W, Tritt K, Bachler E, Mitterlehner F, Pedrosa Gil F, Leiberich P, Rother WK, Egger C (2006). Topiramate treatment for women with borderline personality disorder: a double-blind, placebo-controlled study. *J Clin Psychopharmacol*. **26**: 61–66.
- 96 Long C, Fulton B, Dolley O (2015). Using psychoeducation to motivate engagements for women with personality disorder in secure settings. *J Psychiatric Intensive Care*. **11**: 18–36.
- 97 Loughrey L, Jackson J, Molla P, Wobbleton J (1997). Patient self-mutilation: when nursing becomes a nightmare. *J Psychosoc Nurs Ment Health Serv*. **35**: 30–34.
- 98 Marco JH, Pérez S, García-Alandete J, Moliner R (2017). Meaning in life in people with borderline personality disorder. *Clin Psychol Psychother*. **24**: 162–170.
- 99 Mark ADP & Lam LCW (2013). Neurocognitive profiles of people with borderline personality disorder. *Curr Opin Psychiatry*. **26**: 90–96.
- 100 Markham D & Trower P (2003). The effects of the psychiatric label “borderline personality disorder” on nursing staff's perceptions and causal attributions for challenging behaviours. *Br J Clin Psychol*. **42**: 243–256.
- 101 Markham D (2003). Attitudes towards patients with a diagnosis of “borderline personality disorder”: Social rejection and dangerousness. *J Ment Heal*. **12**: 595–612.
- 102 Martín-Blanco A, Patrizi B, Soler J, Gasol X, Elices M, Gasol M, Carmona C, Pascual JC (2017). Use of nalmefene in patients with comorbid borderline personality disorder and alcohol use disorder: a preliminary report. *Int Clin Psychopharmacol*. doi: 10.1097/YIC.000000000000170.
- 103 Menon P, Chaudhari B, Saldanha D, Devabhaktuni S, Bhattacharya L (2016). Childhood sexual abuse in adult patients with borderline personality disorder. *Ind Psychiatry J*. **25**: 101–106.
- 104 Mercer D, Douglass AB & Links PS (2009). Meta-analyses of mood stabilizers, antidepressants and antipsychotics in the treatment of borderline personality disorder: effectiveness for depression and anger symptoms. *Journal of Personality Disorders*. **23**: 156–174.
- 105 Miller D (1995). Diagnostic assessment and therapeutic approaches to borderline disorders in adolescents. *Adoles Psychiatry*. **20**: 237–252.
- 106 Moher D, Liberati A, Tetzlaff J, Altman DG, The PRISMA Group (2009). Methods of systematic reviews and meta-analysis preferred reporting items for systematic reviews and meta-Analyses: The PRISMA Statement. *Journal of Clinical Epidemiology*. **62**: 1006e1012.
- 107 Moore KE, Tull MT, Gratz KL (2017). Borderline personality disorder symptoms and criminal justice system involvement: The roles of emotion-driven difficulties controlling impulsive behaviors and physical Aggression. *Compr Psychiatry*. **76**: 26–35.
- 108 Murray-Swank AB, Dixon L (2006). Family psychoeducation as an evidence-based practice. *CNS Spectr*. **9**: 905–912.

- 109 Nadort M, van Dyck R, Smit JH, Giesen-Bloo J, Eikelenboom M, Wensing M, Spinhoven P, Dirksen C, Bleecke J, Van Milligen B, van Vreeswijk M, Arntz A (2009). Three preparatory studies for promoting implementation of outpatient schema therapy for borderline personality disorder in general mental health care. *Behav Res Ther.* **47**: 938–945.
- 110 National Collaborating Centre for Mental Health (UK) (2009). *Borderline Personality Disorder: Treatment and Management*. Leicester (UK): British Psychological Society.
- 111 Nehls N (1992). Group therapy for people with borderline personality disorder: interventions associated with positive outcomes. *Issues Ment Health Nurs.* **13**: 255–269.
- 112 Newman LK, Stevenson CS, Bergman LR, Boyce P (2007). Borderline personality disorder, mother-infant interaction and parenting perceptions: preliminary findings. *Aust N Z J Psychiatry.* **41**: 598–605.
- 113 Niedtfeld II, Schulze L, Krause-Utz A, Demirakca T, Bohus M, Schmahl C (2013). Voxel-Based morphometry in women with borderline personality disorder with and without comorbid posttraumatic stress disorder. *PLoS ONE.* **8**: e65824.
- 114 North CS (2015). Gaps in knowledge about personality disorders in homeless populations (commentary for article by Whitbeck, Armenta, and Welch-Lazoritz, „Borderline personality disorder and Axis I psychiatric and substance use disorders among women experiencing homelessness in three US cities“). *Soc Psychiatry Psychiatr Epidemiol.* **50**: 1293–1295.
- 115 Nunes PM, Wenzel A, Borges KT, Porto CR, Caminha RM, de Oliveira IR, et al. (2009). Volumes of the hippocampus and amygdala in patients with borderline personality disorder: a meta-analysis. *J Pers Disord.* **23**: 333–345.
- 116 O'Connell B & Dowling M (2014). Dialectical behaviour therapy (DBT) in the treatment of borderline personality disorder. *Journal of Psychiatric and Mental Health Nursing.* **21**: 518–525.
- 117 Ogata SN, Silk KR, Goodrich S, Lohr N, Westen D, Hill EM (1990). Childhood sexual and physical abuse in adult patients with borderline personality disorder. *American Journal of Psychiatry.* **147**: 1008–1013.
- 118 Pandya A (2014). Advocacy for people with borderline personality disorder. *J Psychiatr Pract.* **20**: 68–70.
- 119 Paris J (2009). The treatment of borderline personality disorder: implications of research on diagnosis, etiology, and outcome. *Annual Review of Clinical Psychology.* **5**: 277–290.
- 120 Paris J (2011). Pharmacological treatments for personality disorders. *International Review of Psychiatry.* **23**: 303–309.
- 121 Paris J (2012). The outcome of borderline personality disorder: good for most but not all patients. *Am J Psychiatry.* **169**: 445–446.
- 122 Pascual JC, Palomares N; Ibáñez Á, Portella MJ; Arza R, Reyes R, Feliu-Soler A, Díaz-Marsá M, Saiz-Ruiz J, Soler J, Carrasco JL (2015). Efficacy of cognitive rehabilitation on psychosocial functioning in borderline personality disorder: a randomized controlled trial. *BMC Psychiatry.* **15**(255).
- 123 Pescosolido BA, Martin JK, Long JS, Medina TR, Phelan JC, Link BG (2010). “A disease like any other”? A decade of change in public reactions to schizophrenia, depression, and alcohol dependence. *Am J Psychiatry.* **167**: 1321–1330.
- 124 Pescosolido BA, Monahan J, Link BG, Stueve A, Kikuzawa S (1999). The public's view of the competence, dangerousness, and need for legal coercion of persons with mental health problems. *Am J Public Heal.* **89**: 1339–1245.
- 125 Pompili M, Innamorati M, Di Vittorio C, Baratta S, Masotti V, Badaracco A, Wong P, Lester D, Yip P, Girardi P, Amore M (2014). Unemployment as a risk factor for completed suicide: a psychological autopsy study. *Arch Suicide Res.* **18**: 181–192.
- 126 Prasko J, Brunovsky M, Latalova K, Grambal A, Raszka M, Vyskocilova J, Zavesicka L (2010). Augmentation of antidepressants with bright light therapy in patients with comorbid depression and borderline personality disorder. *Biomed Pap Med Fac Univ Palacky Olomouc Czech Repub.* **154**: 355–361.
- 127 Prasko J, Grambal A, Kasalova P, Kamardova D, Ociskova M, Holubova M, Vrbova K, Sigmundova Z, Latalova K, Slepecky M, Zatkova M (2016a). Impact of dissociation on treatment of depressive and anxiety spectrum disorders with and without personality disorders. *Neuropsychiatr Dis Treat.* **12**: 2659–2676.
- 128 Prasko J, Houbová P, Novák T, Záleský R, Espa-Cervená K, Pasková B, Vyskocilová J (2005). Influence of personality disorder on the treatment of panic disorder—comparison study. *Neuro Endocrinol Lett.* **26**: 667–674.
- 129 Prasko J, Ociskova M, Grambal A, Sigmundova Z, Kasalova P, Marackova M, Holubova M, Vrbova K, Latalova K, Slepecky M (2016b). Personality features, dissociation, self-stigma, hope, and the complex treatment of depressive disorder. *Neuropsychiatr Dis Treat.* **12**: 2539–2552.
- 130 Quinn A & Shera W (2009). Evidence-based practice in group work with incarcerated youth. *Int J Law Psychiatry.* **32**: 288–293.
- 131 Reich DB, Zanarini MC, Bieri KA (2009). A preliminary study of lamotrigine in the treatment of affective instability in borderline personality disorder. *Int Clin Psychopharmacol.* **24**: 270–275.
- 132 Ripoll LH (2012). Clinical psychopharmacology of borderline personality disorder: an update on the available evidence in light of the Diagnostic and Statistical Manual of Mental Disorders-5. *Curr Opin Psychiatry.* **25**: 52–58.
- 133 Ripoll LH, Triebwasser J & Siever LJ (2011). Evidence-based pharmacotherapy for personality disorders. *International Journal of Neuropsychopharmacology.* **14**: 1257–1288.
- 134 Robinson DJ (2001). *Poruchy osobnosti podľa DSM-IV*. Vydavateľstvo F Trenčín.
- 135 Robinson P, Hellier J, Barrett B, Barzdaitiene D, Bateman A, Bogaardt A, Clare A, Somers N, O'Callaghan A, Goldsmith K, Kern N, Schmidt U, Morando S, Ouellet-Courtois C, Roberts A, Skårderud F, Fonagy P (2016). The NOURISHED randomized controlled trial comparing mentalisation-based treatment for eating disorders (MBT-ED) with specialist supportive clinical management (SSCM-ED) for patients with eating disorders and symptoms of borderline personality disorder. *Trials.* **17**: 549.
- 136 Rogers B & Acton T (2012). ‘I think we are all guinea pigs really’: a qualitative study of medication and borderline personality disorder. *J Psychiatr Ment Health Nurs.* **19**: 341–347.
- 137 Rogers B & Dunne E (2011). ‘They told me I had this personality disorder ... all of a sudden I was wasting their time’: personality disorder and the inpatient experience. *J Ment Health.* **20**: 226–233.
- 138 Roller B & Nelson V (1999). Group psychotherapy treatment of borderline personalities. *Int J Group Psychother.* **49**: 369–385.
- 139 Rosenbluth M (1991). New uses of countertransference for the inpatient treatment of borderline personality disorder. *Can J Psychiatry.* **36**: 280–284.
- 140 Ruggiero I (2012). The unreachable object? Difficulties and paradoxes in the analytical relationship with borderline patients. *Int J Psychoanal.* **93**: 585–606.
- 141 Ruocco AC (2005). The neuropsychology of borderline personality disorder: a meta-analysis and review. *Psychiatry Res.* **137**: 191–202.
- 142 Ruocco AC, Amirthavasagam S, Zakzanis KK (2012). Amygdala and hippocampal volume reductions as candidate endophenotypes for borderline personality disorder: a meta-analysis of magnetic resonance imaging studies. *Psychiatry Res.* **201**: 245–252.
- 143 Ryan RM (2005). The developmental line of autonomy in the etiology, dynamics, and treatment of borderline personality disorders. *Dev Psychopathol.* **17**: 987–1006.
- 144 Sadock BJ, Kaplan HI, Sadock VA (2007). *Kaplan & Sadock's synopsis of psychiatry: behavioral sciences/clinical psychiatry*. 10th ed. Philadelphia: Lippincott Williams & Wilkins.
- 145 Salvador R, Vega D, Pascual JC, Marco J, Canales-Rodríguez EJ, Aguilar S, Anguera M, Soto A, Ribas J, Soler J, Maristany T, Rodríguez-Fornells A, Pomarol-Clotet E (2016). Converging Medial Frontal Resting State and Diffusion-Based Abnormalities in Borderline Personality Disorder. *Biol Psychiatry.* **79**: 107–116.

- 146 Sanislow CA, Grilo CM, Mc Glashan TH (2000). Factor analysis of the DSM-III-R borderline personality disorder criteria. *American Journal of Psychiatry*. **157**: 1629–1633.
- 147 Sansone RA & Sansone LA (2007). *Borderline personality disorder in the medical setting: unmasking and managing the difficult patient*. New York, NY: Nova Science Publishers.
- 148 Sansone RA & Sansone LA (2010). Fatal attraction syndrome: stalking behavior and borderline personality. *Psychiatry (Edmont)*. **7**: 42–46.
- 149 Sansone RA & Sansone LA (2013). Responses of mental health clinicians to patients with borderline personality disorder. *Innov Clin Neurosci*. **10**: 39–43.
- 150 Sansone RA & Sansone LA (2015). Borderline personality in the medical setting. *Prim Care Companion CNS Disord*. **17**: doi: 10.4088/PCC.14r01743. eCollection 2015.
- 151 Sansone RA, Chang J, Jewell B (2012). Preventing wounds from healing and borderline personality symptomatology in an obstetrics/gynecology sample. *Prim Care Companion CNS Disord*. **14**: pii: PCC.I 1101294 doi: 10.4088/PCC.11101294.
- 152 Sansone RA, Lam C, Wiederman MW (2010). The abuse of prescription medications: a relationship with borderline personality? *J Opioid Manag*. **6**: 159–160.
- 153 Sansone RA, Sansone LA, Wiederman MW (1996). Borderline personality disorder and health care utilization in a primary care setting. *South Med J*. **89**: 1162–1165.
- 154 Sansone RA, Wiederman MW, Sansone LA (1996a). The relationship between borderline personality symptomatology and healthcare utilization among women in an HMO setting. *Am J Manag Care*. **2**: 515–518.
- 155 Sansone RA, Wiederman MW, Sansone LA (1998). Borderline personality symptomatology, experience of multiple types of trauma, and health care utilization among women in a primary care setting. *J Clin Psychiatry*. **59**: 108–111.
- 156 Santisteban DA, Mena MP, Muir J, McCabe BE, Abalo C, Cummings AM (2015). The efficacy of two adolescent substance abuse treatments and the impact of comorbid depression: results of a small randomized controlled trial. *Psychiatr Rehabil J*. **38**: 55–64.
- 157 Sauer C, Arens EA, Stopsack M, Spitzer C, Barnow S (2014). Emotional hyper-reactivity in borderline personality disorder is related to trauma and interpersonal themes. *Psychiatry Res*. **220**: 468–476.
- 158 Saunders EF & Silk KR (2009). Personality trait dimensions and the pharmacological treatment of borderline personality disorder. *Journal of Clinical Psychopharmacology*. **29**: 461–467.
- 159 Schimmel P (1999). The psychotherapeutic management of a patient presenting with brief psychotic episodes. *Aust N Z J Psychiatry*. **33**: 918–925.
- 160 Schoenleber M, Gratz KL, Messman-Moore T, DiLillo D (2014). Borderline personality disorder and self-conscious emotions in response to adult unwanted sexual experiences. *J Pers Disord*. **28**: 810–823.
- 161 Schulze B (2007). Stigma and mental health professionals: A review of the evidence on an intricate relationship. *Int Rev Psychiatry*. **19**: 137–55.
- 162 Scott LN, Stepp SD, Pilkonis PA (2014). Prospective associations between features of borderline personality disorder, emotion dysregulation, and aggression. *Personal Disord*. **5**: 278–88.
- 163 Shanks C, Pfohl B, Blum N, Black DW (2011). Can negative attitudes toward patients with borderline personality disorder be changed? The effect of attending a STEPPS workshop. *J Pers Disord*. **25**: 806–812.
- 164 Skodol A, Grilo C, Keyes K, Geier T, Grant B & Hasin D (2011). Relationship of personality disorders to the course of major depressive disorder in a nationally representative sample. *American Journal of Psychiatry*. **168**: 257–264.
- 165 Slochower J (1991). Variations in the analytic holding environment. *Int J Psychoanal*. **72**: 709–718.
- 166 Solloff PH, Fabio A, Kelly TM, Malone KM, Mann JJ (2005). High-lethality status in patients with borderline personality disorder. *J Pers Disord*. **19**: 386–399.
- 167 Solloff PH, Feske U, Fabio A (2008). Mediators of the relationship between childhood sexual abuse and suicidal behavior in borderline personality disorder. *J Pers Disord*. **22**: 221–232.
- 168 Solloff PH, George A, Nathan S, Schulz PM, Cornelius JR, Herring J, Perel JM (1989). Amitriptyline versus haloperidol in borderlines: final outcomes and predictors of response. *J Clin Psychopharmacol*. **9**: 238–246.
- 169 Solloff PH, White R, Omari A, Ramaseshan K, Diwadkar VA (2015). Affective context interferes with brain responses during cognitive processing in borderline personality disorder: fMRI evidence. *Psychiat Res-Neuroim*. **233**: 23–35.
- 170 Spence JM, Bergmans Y, Strike C, Links PS, Ball JS, Rhodes AE, Watson WJ, Eynan R, Rufo C (2008). Experiences of substance-using suicidal males who frequently present to the emergency department. *CJEM*. **10**: 339–346.
- 171 Spindler M (2009). [High-conflict-divorce and personality disorder]. In German. *Prax Kinderpsychol Kinderpsychiatr*. **58**: 733–750.
- 172 Stevenson J, Meares R, Comerford A (2003). Diminished impulsivity in older patients with borderline personality disorder. *American Journal of Psychiatry*. **160**: 165–166.
- 173 Stoffers JM, Völlm BA, Rucker G, Timmer A, Huband N, Lieb K (2012). Psychological therapies for people with borderline personality disorder. *Cochrane Database Syst Rev*(8): CD005652.
- 174 Stone MH (2001). Natural history and long-term outcome. In Livesley WJ (ed.) *Handbook of Personality Disorders*. New York, NY: Guilford Press: 259–273.
- 175 Ten Have M, Verheul R, Kaasenbrood A, van Dorsselaer S, Tuithof M, Kleinjan M, de Graaf R. Prevalence rates of borderline personality disorder symptoms: a study based on the Netherlands Mental Health Survey and Incidence Study-2. *BMC Psychiatry*. **2016**; **16**: 249. doi: 10.1186/s12888-016-0939-x.
- 176 Terzi L, Martino F, Berardi D, Bortolotti B, Sasdelli A, Menchetti M (2017). Aggressive behavior and self-harm in Borderline Personality Disorder: The role of impulsivity and emotion dysregulation in a sample of outpatients. *Psychiatry Res*. **249**: 321–326.
- 177 Thornicroft G, Rose D, Kassam A (2007). Discrimination in health care against people with mental illness. *Int Rev Psychiatry*. **19**: 113–22.
- 178 Treloar AJ (2009). A qualitative investigation of the clinician experience of working with borderline personality disorder. *NZ J Psychol*. **38**: 30–34.
- 179 Van Asselt AD, Dirksen CD, Arntz A, Giesen-Bloo JH, Severens JL (2009). The EQ-5D: A useful quality of life measure in borderline personality disorder? *Eur Psychiatry*. **24**: 79–85.
- 180 Van Asselt AD, Dirksen CD, Arntz A, Severens JL (2008). Difficulties in calculating productivity costs: work disability associated with borderline personality disorder. *Value Health*. **11**: 637–644.
- 181 Van den Bosch LM, Koeter MW, Stijnen T, Verheul R & van den Brink W (2005). Sustained efficacy of dialectical behaviour therapy for borderline personality disorder. *Behaviour Research and Therapy*. **43**: 1231–1241.
- 182 Van der Kolk BA, Hostenler A, Herron N, Fislis RE (1994). Trauma and the development of borderline personality disorder. *Psychiatr Clin North Am*. **17**: 715–730.
- 183 Van Wel B, Kockmann I, Blum N, Pfohl B, Black DW, Heesterman W (2006). STEPPS group treatment for borderline personality disorder in The Netherlands. *Ann Clin Psychiatry*. **18**: 63–67.
- 184 Venta A, Ross E, Schatte D & Sharp C (2012). Suicide ideation and attempts among inpatient adolescents with borderline personality disorder: Frequency, intensity and age of onset. *Personality and Mental Health*. **6**: 340–351.
- 185 Verheul R, van den Bosch L M., Koeter M. W., De Ridder M. A., Stijnen T., & van den Brink W (2003). Dialectical behavior therapy for women with borderline personality disorder: 12-month, randomized clinical trial in the Netherlands. *British Journal of Psychiatry*. **182**: 135–140.
- 186 Verrotti A, Mencaroni E, Cofini M, Castagnino M, Leo A, Russo E, Belcastro V (2016). Valproic acid metabolism and its consequences on sexual functions. *Curr Drug Metab*. **17**: 573–581.

- 187 Vita A, De Peri L & Sacchetti E (2011). Antipsychotics, antidepressants, anticonvulsants, and placebo on the symptom dimensions of borderline personality disorder: a meta-analysis of randomized controlled and open-label trials. *Journal of Clinical Psychopharmacology*. **31**: 613–624.
- 188 Vita A, Deste G, Barlati S, Poli R, Cacciani P, De Peri L, Sacchetti E (2016). Feasibility and effectiveness of cognitive remediation in the treatment of borderline personality disorder. *Neuropsychol Rehabil*. 1–13. doi: 10.1080/09602011.2016.1148054.
- 189 Vyskocilova J, Prasko J, Novak T, Pohlova L (2011). Is there any influence of personality disorder on the short term intensive group cognitive behavioral therapy of social phobia? *Biomed Pap Med Fac Univ Palacky Olomouc Czech Repub*. **155**: 85–94.
- 190 Vyskocilova J, Prasko J, Sipek J (2016). Cognitive behavioral therapy in pharmacoresistant obsessive-compulsive disorder. *Neuropsychiatr Dis Treat*. **12**: 625–639.
- 191 Wanniarachige D (2015). Advocacy needed for borderline personality disorder. *CMAJ*. **187**: E375–E376.
- 192 Waxman R, Fenton MC, Skodol AE, Grant BF, Hasin D (2014). Childhood maltreatment and personality disorders in the USA: Specificity of effects and the impact of gender. *Personality and Mental Health*. **8**: 30–41.
- 193 Weibel S, Vidal S, Olié E, Hasler R, Torriani C, Prada P, Courtet P, Guillaume S, Perroud N, Huguelet P (2017). Impact of child maltreatment on meaning in life in psychiatric patients. *Psychiatry Res*. **251**: 204–211.
- 194 Westen D & Cohen RP (1993). The self in borderline personality disorder: a psychodynamic perspective. In: Segal ZV, Blatt SJ, Editors. *The Self in Emotional Distress: Cognitive and Psychodynamic Perspectives*. New York: Guilford Press; 334–368.
- 195 Westen D, Lundolph P, Misle B, Ruffins S, Block J (1990). Physical and sexual abuse in adolescent girls with borderline personality disorder. *American Journal of Orthopsychiatry*. **60**: 55–66.
- 196 Whitbeck LB, Armenta BE, Welch-Lazoritz ML (2015). Borderline personality disorder and Axis I psychiatric and substance use disorders among women experiencing homelessness in three US cities. *Soc Psychiatry Psychiatr Epidemiol*. **50**: 1285–12891.
- 197 Wilkinson-Ryan T & Westen D (2000). Identity disturbance in borderline personality disorder: an empirical investigation. *Am J Psychiatry*. **157**: 528–541.
- 198 Wingenfeld K, Spitzer C, Rullkötter N, Löwe B (2010). Borderline personality disorder: hypothalamus pituitary adrenal axis and findings from neuroimaging studies. *Psychoneuroendocrinology*. **35**: 154–170.
- 199 Young JE (1994). *Cognitive therapy for personality disorders: A schema-focused approach* (rev. ed.). Sarasota, FL: Professional Resource Press.
- 200 Zanarini MC (2009). Psychotherapy of borderline personality disorder. *Acta Psychiatrica Scandinavica*. **120**: 373–377.
- 201 Zanarini MC, Frankenburg FR (2008). A preliminary randomized trial of psychoeducation for women with borderline personality disorder. *J Pers Disord*. **22**: 284–290.
- 202 Zanarini MC, Frankenburg FR, Hennen J, Silk KR (2003). The longitudinal course of borderline psychopathology: 6-year prospective follow-up of the phenomenology of borderline personality disorder. *American J Psychiatry*. **160**: 274–283.
- 203 Zanarini MC, Frankenburg FR, Reich DB, Fitzmaurice G (2012). Attainment and stability of sustained symptomatic remission and recovery among patients with borderline personality disorder and axis II comparison subjects: a 16-year prospective follow-up study. *Am J Psychiatry*. **169**: 476–483.
- 204 Zanarini MC, Williams AA, Lewis RE, Reich RB, Vera SC, Marino MF, Levin A, Yong L, Frankenburg FR (1997). Reported pathological childhood experiences associated with the development of borderline personality disorder. *Am J Psychiatry*. **154**: 1101–1106.
- 205 Zimmerman M (2016). Improving the Recognition of Borderline Personality Disorder in a Bipolar World. *J Pers Disord*. **30**: 320–335.