Review article

Overview of the treatment for borderline personality disorder
Karthikeyan Veerasamy, Latha Guruvaiah

Summary
Borderline personality disorder (BPD) is a relatively new concept which has received much attention recently. In ICD10, emotionally unstable personality disorder, is subcategorised as impulsive type and borderline type. According to DSM IV diagnosis of BPD requires at least five out of nine features. Antipsychotics is effective in reducing affective instability, anger and psychotic symptoms. Beneficial effects were found with mood stabilisers such as semisodium valproate, lamotrigine and topiramate, but not carbamazepine. Psychological treatment is considered as first line treatment for borderline patients but the evidence is not extensive for most of the therapies except for dialectical behavioural therapy.

Introduction
Borderline personality disorder (BPD) is a relatively new concept and interest has grown in the last two or three decades. It was included as a diagnostic category for the first time in DSM III. Since then there has been increasing awareness and recognition of BPD among professionals which has led to more patients being diagnosed with this condition especially in the Western countries. However it is still under recognised in developing countries for reasons which are beyond the scope of this article. Even if it is recognised, providing treatment is difficult due to poor funding and poor availability of resources.

The term “borderline personality disorder” was first coined by the American psychoanalyst Adolf Stern in 1938 to describe a condition, in between the psychoses and neuroses (1).

BPD is characterised by a pervasive pattern of affective dysregulation (inappropriate anger, chronic feelings of emptiness and affective instability), impulse control (self-mutilation, suicidal behaviour and ideation, or threatening suicide), interpersonal problems (frantic efforts to avoid abandonment, patterns of unstable relationships with idealisation and/or depreciation of others) and cognitive-perceptual problems (identity disturbance in terms of self perception, transient paranoid thoughts or feelings of dissociation in stressful situations) (2). It is also associated with substantial impairment of social, psychological and occupational functioning and poor quality of life. People with BPD are particularly at risk of suicide.

The prevalence of BPD is estimated to be 1.5% in the general population and 20% among inpatients (3,4). It is predominantly diagnosed in women (75%) (5). BPD commonly co-occurs with mood disorders, substance misuse, eating disorders, post traumatic stress disorder and other personality disorders (6). Suicidal behaviour is reported in 84% of patients with BPD (7). Co-morbid mood disorders or substance use are common risk factors for completed suicide (8).

People with BPD often present to emergency departments after self-harming or in suicidal crises, and have a history of repeated hospitalisation. Treatment facilities and settings for management of patients vary between countries. Pharmacological interventions are increasingly used to treat different facets of psychopathology, such as affective instability, impulsivity, dissociative states or cognitive–perceptual symptoms (9). Associated disorders such as depression can also be treated with medicines (10).

Diagnostic criteria for borderline personality disorder
In ICD10, emotionally unstable personality disorder, is subcategorised as impulsive type and borderline type. According to DSM IV diagnosis of BPD requires at least five out of nine features to be present. These features are; frantic efforts to avoid abandonment, unstable and intense interpersonal relationships, identity disturbance, impulsivity, recurrent suicidal behaviour, affective instability, chronic feelings of emptiness, inappropriate, intense anger or difficulty controlling anger and transient stress related paranoid ideation (11). The ICD-10 criteria for borderline type of emotionally unstable personality disorder are similar. The features listed in the ICD-10 are; disturbance or uncertain self image, intense and unstable relationships, efforts to avoid abandonment, recurrent threats or acts of self harm and chronic feelings of emptiness. The features of the impulsive type are also similar; marked tendency to act without consideration for consequences (impulsivity), liability to outbursts of anger or violence, unstable, capricious mood, quarrelsome behaviour and difficulty maintaining a course of action which offers no immediate reward. The last two criteria are not listed in the DSM IV.

The DSM- 5 moved from a multi-axial to a monoaxial system to remove the arbitrary difference between personality disorders and other mental disorders (12). It has retained the same categorical diagnostic criteria for personality disorders including BPD as in DSM IV. However the DSM-5 proposes an alternative hybrid dimensional-categorical model for BPD to stimulate further research.

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Management of borderline personality disorder

Pharmacological treatment

Many patients with BPD are treated with medication but there is uncertainty about the usefulness of medication. Several randomized controlled trials have compared the effectiveness of antipsychotics (typical and atypical), mood stabilizers, antidepressants and combination of medication with placebo in BPD (14,15). Primary outcomes in these studies were reduction in overall disorder severity as well as specific core symptoms.

We summarise below the findings of the Cochrane systematic review of randomized trials for pharmacotherapy of BPD (9).

Antipsychotics

First-generation antipsychotics

The outcome of the studies, which compared first generation antipsychotics (FGA) with placebo, showed significant reduction in anger with haloperidol and reduction in suicidal behaviour with flupentixol decanoate (16,17, 35). There was no difference in tolerance between FGA and placebo.

Second-generation antipsychotics

Second-generation antipsychotics (SGA) especially aripiprazole show positive effect in reduction of affective instability, anger and psychotic symptoms (18-20). They were also effective in reducing anxiety (20, 21). However studies show inconsistent results for reducing suicidal ideation and behaviour (18,22). Open label studies report reduction in self-harming behaviour and aggression with clozapine (23,24). FGA were more effective than SGA in reducing suicidal behaviour (17,19, 21). Both FGA and SGA were effective in anger control (19, 20).

Mood stabilisers

Beneficial effects were found with mood stabilisers such as semisodium valproate, lamotrigine and topiramate, but not carbamazepine (15, 25-28). Semisodium valproate was effective in reducing interpersonal problems and depression (15). One RCT, which compared lamotrigine with placebo, showed significant reduction in anger control and impulsivity. Lithium is licensed for the control of aggressive behaviour and intentional self-harm (25, 29).

Antidepressants

Several open label studies support the use of SSRI’s in the reduction of impulsivity and aggression in BPD. However randomised controlled trials (RCT) show little evidence of effectiveness for antidepressant treatment. Of the different types of antidepressants only the tricyclic antidepressant amitriptyline was effective in the reduction of depressive pathology (30). No significant effect was found for SSRIs fluoxetine or fluvoxamine or the monoamine oxidase inhibitor phenelzine sulphate (31-34).

Current evidence shows that medication is effective in reducing few core symptoms of BPD and associated psychopathology. Symptoms relating to the interpersonal problems were reduced with aripiprazole and semisodium valproate (15,19). Haloperidol, aripiprazole, olanzapine, and the mood stabilisers topiramate, lamotrigine and valproate semisodium are effective in treating symptoms of affective dysregulation (15,16,18-20,22,25,-27). Impulsive–behavioural dyscontrol symptoms were significantly reduced by the FGA flupentixol decanoate, aripiprazole, topiramate and lamotrigine (17,19,25-27). Aripiprazole and olanzapine were effective in treating cognitive–perceptual symptoms.(18-20, 22).

There is little evidence that these medications are effective in treating or controlling other BPD symptoms such as frantic efforts to avoid abandonment, chronic feelings of emptiness, identity disturbance and dissociation. These symptoms may respond better to psychotherapeutic interventions.

Patients with BPD often present in crisis with severe distress. Drug treatment is useful in controlling these acute distressing symptoms. However their usefulness in long-term treatment is questionable.

Psychological treatment

Psychotherapy is considered as first line treatment for BPD (35). Psychological therapies for BPD have many factors in common, such as a high level of structure, consistency, theoretical coherence, taking into account the relationship problems (including the difficulty in engaging positively with the therapist) and a flexible and individualized approach to care. Different types of therapies which adhere to the above principles have been developed. These can be classified as comprehensive and non comprehensive therapies. Comprehensive psychotherapies include individual psychotherapy as a substantial part of the treatment programme, non comprehensive psychotherapies do not.

The examples of comprehensive therapies are dialectical behavioural therapy (DBT), mentalisation based therapy (MBT), cognitive behavioural therapy (CBT), and interpersonal therapy (IPT)(36). DBT group skills training only, schema focused group therapy and manual-assisted cognitive therapy (MACT) are some of the non-comprehensive therapies.

We looked at the research evidence which evaluated the effectiveness of the above interventions in terms of reduction in self-harm and suicidal behaviour, improvement in psychological, interpersonal and social functioning, cost effectiveness and minimising attendance at mental health and other services. These were reported in a Cochrane review of psychological therapies for people with borderline personality disorder (35).

Of all the therapies, DBT has been studied most intensively, followed by other therapies. However, none of the therapies had a very robust evidence base and there were some concerns regarding the quality of individual studies. Not all studies primarily targeted borderline symptoms and there were considerable difference in patient characteristics, comparison groups and outcomes between the studies. Hence, the results need to be interpreted with caution.
For DBT, there were sufficient studies to pool the results and draw conclusions, which showed significant reduction in inappropriate anger, self-harm and improvement in general functioning (35, 37-41). It was helpful in reducing inpatient admissions. However these studies did not support cost effectiveness of DBT although it had the potential to be cost effective (42).

Mentalisation based therapy (MBT)
The results for MBT are promising. MBT helps clients to understand the meaning of their own behaviour and that of others, and allows positive risk-taking (36). There are two studies which show significant beneficial effects on reduction of suicidality, parasuicidality, interpersonal problems and depression. (43, 44). It has led to real improvements in clients’ progress towards a more independent life.

Emotion Regulation Group Training (ERG)
This was developed as a short-time, group-based intervention targeting emotional dysregulation among self-harming women with BPD. ERG has shown encouraging, statistically significant results in reduction in BPD severity, affective instability, impulsivity, parasuicidality, depression and anxiety (35, 45).

Psychoanalytical therapy
RCT of psychoanalytical orientated partial hospitalization therapy as a treatment for BPD patients show improvement of depressive symptoms and decrease in suicidal and self-mutilatory acts, reduced inpatient admissions and better interpersonal and social functioning (46).

Cognitive analytical therapy
A RCT on treatment of adolescents with BPD using cognitive analytic therapy showed reduction in borderline psychopathology, parasuicidal behaviors and improvement in social and occupational functioning (47).

Reviews suggest that some of the problems frequently encountered by people with borderline personality disorder may be amenable to talking/behavioural treatments but most therapies remain experimental and the studies are too few and small to inspire full confidence in their results. These findings require replication in larger ‘real-world’ studies (35).

Conclusion
Patients with BPD are very distressed by their symptoms and hence require effective treatment to ameliorate their symptoms. Some of the symptoms are amenable to pharmacological treatment in the short term but the long-term usefulness is debatable. Psychological treatment is considered as first line treatment for borderline patients but the evidence is not extensive for most of the therapies except for dialectical behavioural therapy (48). BPD is commonly associated with comorbid illness like depression and substance misuse. We believe that identifying and treating comorbid disorders would lead to a positive outcome. We suggest that developing countries should focus on collecting epidemiological data related to BPD and improve service delivery, create more awareness, identify and diagnose patients with BPD, develop treatment guidelines, and train clinicians in psychological therapies.

References

Karthikeyan Veerasamy
Specialty Doctor in General adult Psychiatry
Worcestershire Health and care NHS Trust, United Kingdom
Latha Guruvaiah
Specialist Registrar in General Adult Psychiatry
2gether NHS Trust
Stonebow unit, Stonebow road, Hereford,
United Kingdom
Corresponding author
Karthikeyan Veerasamy
E mail: dr_vkarthikeyan@yahoo.com

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