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## **Title**

Distinguishing between ICD-11 Complex Post-Traumatic Stress Disorder and Borderline Personality Disorder: A clinical guide and recommendations for future research

## **Authors**

Thanos Karatzias, PhD

Edinburgh Napier University, School of Health & Social Care, Edinburgh, UK  
NHS Lothian, Rivers Centre for Traumatic Stress, Edinburgh, UK

Martin Bohus, PhD

Institute of Psychiatric and Psychosomatic Psychotherapy, Central Institute of Mental Health  
Mannheim, Medical Faculty Mannheim, Heidelberg University, Heidelberg, Germany  
McLean Hospital, Harvard Medical School, Boston, Massachusetts

Mark Shevlin, PhD

Ulster University, School of Psychology, Derry, Northern Ireland

Philip Hyland, PhD

Department of Psychology, Maynooth University, Kildare, Ireland

Jonathan I Bisson, DM FRCPsych

Cardiff University, School of Medicine, Cardiff, UK

Neil Roberts, DClinPsy

Cardiff University, School of Medicine, Cardiff, UK &

Psychology and Psychological Therapies Directorate, Cardiff and Vale University Health  
Board, Cardiff, UK

Marylène Cloitre, PhD

National Center for PTSD Dissemination and Training Division, VA Palo Alto Health Care  
System, Palo Alto, CA USA; Department of Psychiatry and Behavioural Sciences, Stanford  
University, Stanford, CA, USA

**Corresponding Author:** Thanos Karatzias, [T.Karatzias@napier.ac.uk](mailto:T.Karatzias@napier.ac.uk), Sighthill Campus,  
Sighthill Court, Edinburgh, EH11 4BN

## **Summary**

Although CPTSD and BPD are distinct disorders, there is confusion in clinical practice regarding the similarities between the diagnostic profiles of these conditions. We summarize the differences in the diagnostic criteria that are clinically informative, and we illustrate such with case studies to enable diagnostic accuracy in clinical practice.

Diagnostic accuracy is essential in clinical practice. A diagnosis can help clinicians formulate presenting complaints to enable treatment planning, to communicate accurate clinical information to other health care providers, as well as patients and their families, and to provide differential diagnosis and prognosis (1). For many patients who experience distress, a diagnosis can instil hope for change and subsequent recovery (2). The introduction of the new condition of complex post-traumatic stress disorder (CPTSD) and revised descriptions of personality disorders (PDs) in the 11<sup>th</sup> version of the International Classification of Diseases (ICD-11, 3), have resulted in some confusion in clinical practice regarding the similarities between the diagnostic profiles of CPTSD and borderline personality disorder (BPD or PD with Borderline specifier in ICD-11). In this report, we aim to disentangle the differences between the two conditions and provide some guidance about how to diagnose the two conditions accurately. This is especially important considering that CPTSD and BPD are commonly occurring disorders in some treatment settings and have overlapping symptom domains (e.g. 4).

CPTSD has been included in the ICD-11 as one of several diagnoses designated under the general category “disorders specifically associated with stress” (3). The CPTSD diagnosis requires “exposure to an event or series of events of an extremely threatening or horrific nature, most commonly prolonged or repetitive events from which escape is difficult or impossible. Such events include, but are not limited to, torture, concentration camps, slavery, genocide campaigns and other forms of organized violence, prolonged domestic violence, and repeated childhood sexual or physical abuse.” At a symptom level, CPTSD includes the core PTSD symptoms of (1) re-experiencing of the traumatic event in the present, (2) avoidance of traumatic reminders, and (3) persistent perception of heightened current threat and the three symptom clusters of (1) pervasive problems in affect regulation, (2) negative self-concept and (3) relationship difficulties.

Borderline Personality Disorder (BPD) has been somewhat reformulated in ICD-11 due to the introduction of a fundamentally different approach to the classification of personality disorders (PDs) (3). Instead of diagnosing PDs according to categorical types, ICD 11 now requires impairments of the self (e.g., identity, self-worth, accuracy of self-view, self-direction) and interpersonal functioning as core features. A *Borderline pattern specifier* has been included, based on the nine DSM-5 diagnostic criteria for BPD, where the salient diagnostic features are instability in sense of self, relationships and affects, and the marked presence of impulsivity (e.g., unsafe sex, excessive drinking, reckless driving, uncontrollable eating). These diagnostic features represent domains of problems and symptoms that overlap with some of those found in the identity and relational symptom clusters of CPTSD.

Even though CPTSD is a new diagnosis, it has been used extensively in research and clinical practice for the last decades and the overlap between BPD and symptoms of CPTSD has been a subject of debate in recent years. There have been multiple attempts to determine whether CPTSD and BPD diagnoses differ substantially enough to warrant separate diagnostic classifications. Different solutions have been offered in the literature. Some have suggested that CPTSD and BPD are distinct disorders with similar pathways including neurological (5) and anthropogenic (6). Others have suggested that CPTSD and BPD symptoms can only co-occur as one syndrome and the two conditions are not distinct (7). Finally, it has been proposed that CPTSD is the by-product of comorbid BPD and posttraumatic stress disorder (PTSD) (8). Nevertheless, as shown below, there is some emerging evidence suggesting that the two conditions can be distinguished.

To date there have been a total of seven studies exploring the association between BPD and ICD-11 CPTSD using disorder specific measures. These studies have been conducted in general population samples as well as in clinical samples of traumatised

individuals and they include factor analysis (9; 10), latent class analysis (11,12,13) and network analysis (14,15) designs. All these studies concluded that there is a group of individuals who endorse criteria of both conditions, but CPTSD and BPD were generally found to be distinct disorders.

If the two conditions are distinct, how can we accurately diagnose each of these in clinical practice? As indicated in Table 1, there are several differences in the diagnostic criteria that are clinically informative. While exposure to traumatic life events can precipitate both conditions, a history of traumatic life events is not required to generate a diagnosis of BPD, while it is a prerequisite for consideration of a CPTSD diagnosis. Nevertheless, it is also important to highlight that a significant number of people with BPD report exposure to traumatic life events such as sexual abuse (16). Diagnostic items related to affect dysregulation are often equally endorsed across the disorders and in network analyses appear to link CPTSD and BPD (15). However, BPD is associated with high rates of impulsivity, suicidal, and self-injurious behaviours while in CPTSD these characteristics may be present but do not occur as frequently as other CPTSD symptoms nor as compared to that seen in BPD (11). Indeed, addressing suicidal and self-injurious behaviours has been viewed as the defining concern and primary treatment target in BPD (17,18,19). Our clinical observations with people with CPTSD, suggest that difficulties in affect regulation are ego dystonic (i.e. incompatible with one's beliefs and personality), stressor specific and variable over time. In BPD, affect dysregulation and unstable mood seems to be ego syntonic (i.e. compatible with one's beliefs and personality) and persistent over time (20). In BPD, self-concept difficulties reflect an unstable sense of self which includes changing goals and beliefs whereas in CPTSD, individuals have a consistent and stable sense of self. While it is frequently the case that individuals with either diagnosis will endorse feelings of low self-esteem, the additional endorsement of changing view of self would, in a differential diagnostic effort, rule-out the

diagnosis of CPTSD and support a BPD diagnosis. Relational difficulties in BPD are characterised by volatile patterns of interactions, whereas in CPTSD, they consist of and are driven by difficulties in trusting others and relational avoidance and this is supported in factor analytic and other studies (e.g. 9,12).

Table 1 about here

Differential diagnosis may become challenging when assessing the individual with a history of trauma. In such cases, the differential diagnosis may be between CPTSD versus BPD with PTSD (i.e., re-experiencing, avoidance, and sense of threat). A diagnosis of BPD comorbid with PTSD versus CPTSD is likely to be assigned if there is significant presence and continued risk of suicidal or self-injurious behaviours, unstable sense of self or instability in relationships. Below are two brief case illustrations that distinguish CPTSD from BPD with PTSD. All case studies in this paper were based on composite clinical material from general clinical experience that does not represent any clinical case in particular.

*CPTSD case study:* Helen is a 38-year-old woman with a history of childhood sexual abuse and a recent sexual assault. She comes to the outpatient clinic because of nightmares and flashbacks that started following the sexual assault. She meets all ICD-11 PTSD symptoms including a constant sense of threat and avoidance of going out of her home for fear of being assaulted again. She has a stable sense of self and has been employed at a veterinary centre and committed to the protection of animal rights since she was a young adult. She suffers from chronic low self-worth, feelings of defeat and of being extremely unlovable and attributes these to her childhood abuse. She has not had an intimate partner relationship for many years. She made one suicide attempt in her late teen years. When she is stressed or depressed, her thoughts turn to suicide as an option, but she has not acted on these feelings since her teen years, although she is comforted by the idea that she could “end it all”

if the pain of living got too bad. She does not have any substance abuse but upon further assessment is diagnosed with co-occurring major depression, generalized anxiety disorder and panic disorder. She is experiencing emotional numbing regularly.

*BPD with PTSD case study.* Marie is a 40 year-old woman with a long-standing history of mental health service use but has recently requested an increase in her appointments. Marie has a history of childhood abuse and experienced a recent sexual assault by her partner, which has resulted in nightmares, avoidance of her home, and a chronic sense of heightened threat. She is currently living with a friend and has told her partner that she is planning to move out. She keeps tabs on his movements via an app so she can feel safe. She contemplates the years she has lost supporting him, considering that she was once a rising star in the theatre world. She plans to regain her footing in this profession and hopes she is given the chance. She plans to get surgery to remove the scars resulting from cutting her arms and thighs, an activity that provided her with relief when stressed. She has made three suicide attempts over the last 18 months but states she did that only in moments of desperation and really wants to live. She uses marijuana regularly and cocaine when she can get it to help even out her moods. Two weeks following the assessment, Marie was given the option to enrol in residential program but expressed concern because she had gotten back with her partner and all was going well.

It is possible that a diagnosis of CPTSD can co-occur with BPD. While instability in affect, self-identity and relationships is a salient feature of BPD and a helpful guide in differential diagnosis, it is possible for someone with CPTSD to have a diagnosis of BPD without these features.

*CPTSD and BPD case study.* Jim is a 30 year-old man who has been in weekly psychotherapy for several years mostly to manage his anger problems. He had one inpatient



hospitalization during his teens following a suicide attempt after being sexually abused by a teacher and a second attempt about 5 years ago. He occasionally engages in self-injurious behaviour when in distress but reports that this is well controlled. He recently experienced a physical assault and robbery at gunpoint by several men and has had a re-emergence of all three PTSD symptoms, which had resolved after the hospitalization for the abuse. The assault has also exacerbated his chronic low self-esteem; he is feeling very defeated and is withdrawing from socializing even more than usual. He is feeling more emotionally reactive about everything, and it can take him several hours to calm down from negative comments such as jokes about the age of his car. His anger has worsened and he has been bullying and intimidating colleagues at work. He threw his laptop against the wall when co-workers laughed and distracted him. He reports the onset of new bouts of paranoia at work fearing that co-workers are stealing his best ideas and that he will lose his job. He feels relief by going out to clubs a few nights a week, getting high and having impersonal sex. He does not remember much of what happens on these nights. He knows this is not good for him, but it is a way of managing feelings of extreme fear of abandonment, loneliness and emptiness.

In the above scenario, the individual has CPTSD by virtue of endorsing all three PTSD symptoms, stable but low sense of self, avoidance of relationships and emotional reactivity. It may be appropriate to add the BPD diagnosis given that the person endorses 5 of the 9 symptoms of BPD and which are likely contributing to life impairment. This includes self-injurious behaviours, anger to the point of violent physical behaviours, paranoia, high levels of impulsivity (use of sex and drugs) and fears of abandonment.

An important consideration in diagnosis is to avoid over-pathologizing the individual. For example, a symptom that is common to both disorders, such as emotional volatility, should be considered as part of each disorder when summing the totality of symptoms to determine whether the person meets criteria for a specific disorder. However, once a primary

diagnosis has been made, the symptom should not be counted twice. The symptom should be counted once and designated to the diagnosis that been identified as primary. This approach is a “hierarchical” method to diagnosis where a symptom assigned to the primary diagnosis is not repeated in other secondary diagnoses that are under consideration.

The clinical utility in carefully considering these two diagnoses is primarily as a means by which to guide treatment decisions and provide an intervention that optimizes outcomes by addressing the most life-threatening or impairing features associated with each disorder. BPD is likely the more severe disorder with the greater impairment due to the presence of suicidality and self-injurious behaviours. It is possible but remains to be seen whether recovery from instability in affect, sense of self and relationships requires longer treatment than for the resolution of a person who has a stable but severely negative self-concept and severe relational avoidance. However, it is likely that the types of intervention needed will differ. There may be some intervention components to mental health programs for each disorder that overlap, particularly addressing commonly endorsed symptoms (e.g., affect dysregulation). Future research is needed to assess the benefits of providing the same programs across different diagnoses.

We recommend that future research include surveying practitioners about what they find are the benefits and drawbacks of the current classification of these two conditions. In addition, the development of reliable and valid clinical interviews will further enable diagnostic accuracy of these two conditions. There are currently no validated clinician interview instruments for either ICD-11 CPTSD or PDs and but there is some emerging evidence for the usefulness of the International Trauma Interview (ITI) for the assessment of CPTSD (21, 22).

Finally, there is a need to develop tailored treatments informed by the phenomenology and severity of these two conditions. A number of treatments with proven efficacy for PTSD such as Cognitive Behavioural Therapy (CBT) and Eye Movement Desensitization and Reprocessing (EMDR) might also be helpful for CPTSD (23). It is also worth noting that Dialectical Behavioural Therapy (DBT), a treatment that has been extensively used for people with BPD, has been modified and found effective for PTSD and comorbid BPD symptoms (DBT-PTSD; 24), BPD with comorbid PTSD (25) and BPD alone (26). A trauma informed modular approach has also been suggested as a helpful treatment model for the treatment of CPTSD (27). The modular approach proposes that symptom clusters of CPTSD be targeted based on the client's treatment goals and severity of their symptoms. Modular approaches such as Skills Training in Affective and Interpersonal Regulation (STAIR) have been found useful for those who have experienced childhood trauma and can be a useful intervention for those with CPTSD (28). There is a need for more research on effective treatments for CPTSD.

Perhaps more careful consideration should be given to those who report most or apparently contradictory symptoms of both conditions. Existing evidence suggesting co-occurrence of symptoms for some might reflect false positives as a result of using self-assessment measures. However, considering that traumatic stressors precipitate CPTSD and can be a risk factor for BPD, the two conditions can co-occur in some people and may represent a trauma continuum of psychopathology (29) with BPD positioned at the more severe end of the spectrum. For those who present with both conditions, a trauma informed approach may still be the best treatment option. There is an urgent need to explore the effectiveness of existing and new interventions for ICD-11 CPTSD, the new construct of PD (including the new BPD identifier) and those who endorse symptoms of both conditions.

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**Table 1. Comparison of Diagnostic Criteria of CPTSD versus BPD**

<b>Symptoms included in the diagnosis</b>	<b>CPTSD</b> Characterized by <b>feelings of threat</b> , low self-efficacy, and relational distancing	<b>BPD*</b> Characterized predominantly by <b>instability</b> in affect, sense of self and relationships
<b>1. Trauma-related symptoms</b>		
Trauma history required for dx	Yes	No
Re-experiencing symptoms	Yes	No
Avoidance of trauma-related symptoms	Yes	No
Heightened sense of threat	Yes	No
<b>2. Emotional Disturbance</b>		
Emotional reactivity hard to calm down or feeling numb or dissociated	Yes	No
Intense affective instability	No	Yes
Intense anger	No	Yes
Impulsivity in at least 2 areas that are self-damaging	No	Yes
Recurrent suicidal behaviours or self-mutilation	No	Yes
Transient stress related paranoid ideation or severe dissociative symptoms	No	Yes
Chronic feelings of emptiness	No	Yes
<b>3. Sense of Self</b>		
Persistent and pervasive negative sense of self as worthless or defeated	Yes	No
Marked and persistently unstable self-image or sense of self.	No	Yes
<b>3. Interpersonal Relationships</b>		
Difficulty staying close maintaining relationships, tendency to distance, avoid or break off with conflict	Yes	No
Frantic efforts to avoid real or imagined abandonment	No	Yes
Unstable and intense interpersonal relationships that alternate between idealization and devaluation	No	Yes

### **Author Contribution**

Thanos Karatzias: Original idea, first draft, final edit

Martin Bohus: Input on BPD issues, treatment considerations, final edit

Mark Shevlin: Input on research overlap between CPTSD and BPD symptoms, final edit

Phil Hyland: Input on research overlap between CPTSD and BPD symptoms, final edit

Jonathan Bisson: Clinical input / management, final edit

Neil Roberts: CPTSD phenomenology, case studies, final edit

Marylene Cloitre: Case studies, input on similarities and differences in diagnostic profiles  
final edit

**Conflict of Interest:** None