Impact of the diagnostic changes to post-traumatic stress disorder for DSM-5 and the proposed changes to ICD-11

Meaghan L. O’Donnell, Nathan Alkemade, Angela Nickerson, Mark Creamer, Alexander C. McFarlane, Derrick Silove, Richard A. Bryant and David Forbes

Background
There have been changes to the criteria for diagnosing post-traumatic stress disorder (PTSD) in DSM-5 and changes are proposed for ICD-11.

Aims
To investigate the impact of the changes to diagnostic criteria for PTSD in DSM-5 and the proposed changes in ICD-11 using a large multisite trauma-exposed sample and structured clinical interviews.

Method
Randomly selected injury patients admitted to four hospitals were assessed 72 months post trauma (n = 510). Structured clinical interviews for PTSD and major depressive episode, as well as self-report measures of disability and quality of life were administered.

Results
Current prevalence of PTSD under DSM-5 scoring was not significantly different from DSM-IV (6.7% v. 5.9%, Z = 0.53, P = 0.59). However, the ICD-11 prevalence was significantly lower than ICD-10 (3.3% v. 9.0%, Z = −3.8, P < 0.001). The PTSD current prevalence was significantly higher for DSM-5 than ICD-11 (6.7% v. 3.3%, Z = 2.5, P = 0.01). Using ICD-11 tended to show lower rates of comorbidity with depression and a slightly lower association with disability.

Conclusions
The diagnostic systems performed in different ways in terms of current prevalence rates and levels of comorbidity with depression, but on other broad key indicators they were relatively similar. There was overlap between those with PTSD diagnosed by ICD-11 and DSM-5 but a substantial portion met one but not the other set of criteria. This represents a challenge for research because the phenotype that is studied may be markedly different according to the diagnostic system used.

Declaration of interest
R.A.B. served on the DSM-5 PTSD/Trauma/Dissociative Work Group. These comments reflect the opinions of the author and not necessarily those of the American Psychiatric Association or of the DSM-5 Work Groups.

The next few years represent a critical time for the field of traumatic stress. There have been changes to the diagnostic criteria for post-traumatic stress disorder (PTSD) in the DSM-5 and other changes are proposed for ICD-11. Reduced to two: hypervigilance and insomnia. At least one re-experiencing, one avoidance and one hyperarousal symptom is required. A duration and functional impairment criteria are also included. The hyperarousal cluster (Criterion D in DSM-IV) generally remains the same but is now Criterion E.

In ICD-11 the definition of a traumatic event places greater emphasis on clinical judgement, compared with ICD-10, and is no longer described as one that likely causes pervasive distress in almost anyone. Re-experiencing symptoms are contained to those research findings unique to PTSD, namely flashback and nightmares. Like DSM-5, ICD-11 has focused on active avoidance, rather than passive. The number of hyperarousal symptoms is reduced to two: hypervigilance and insomnia. At least one re-experiencing, one avoidance and one hyperarousal symptom is required. A duration and functional impairment criteria are also included. The purpose of this study is to explore how these different approaches affect rates of current PTSD, the impact on the relationship with depression comorbidity, and the relationship with disability and quality of life.

Method
Participants
These data were collected as part of a larger study of the mental health impact of severe injury, the Australian Vulnerability study. Injury patients were recruited from four hospitals in three states of Australia (in the period April 2004 to February 2006). All patients were admitted into the trauma service for at least 24 h and met the DSM-IV Criterion A1. Approval for this study was gained from the Human Research Ethics Committee (HREC) at each hospital. Patients were recruited to the study if they had experienced a serious injury that required a hospital admission of greater than 24 h; were aged between 16 and 70 years; and had sufficient English comprehension to complete the assessment. Patients were included if they experienced a mild traumatic brain injury but were excluded if the experienced traumatic brain injury was more severe.
severe, or they were currently suicidal or psychotic. A mild traumatic brain injury was defined using the American Congress of Rehabilitation Medicine definition as a loss of consciousness of approximately 30 min or less or a Glasgow Coma Scale score of 13–15 after 30 min or post-traumatic amnesia not greater than 24 h.7

Weekday trauma service admissions were randomly selected into the study over a 22-month period. Only weekday admissions were included because of limitations in recruitment resources. Random selection occurred through an automated procedure, stratified by length of stay. Random selection was used because the numbers of patients admitted to each trauma service was far greater than the study's recruitment resources allowed. Of the 1590 patients eligible for the study, 953 participants consented to participation and completed the baseline questionnaires for this study. At 72 months, 510 (54% of initial participants) completed the assessment, which represented 32% of all eligible patients.

Individuals who refused to participate in the study did not differ from participants in gender, the presence of a mild traumatic brain injury, education, mechanism of injury, length of stay or Injury Severity Score (ISS).8 Those who did not complete the 72-month assessment did not differ from those who were recruited in terms of gender, the presence of a mild traumatic brain injury, education, mechanism of injury, length of stay or ISS. Those who did not complete the 72-month assessment differed from completers in that they were more likely to be younger (mean 36.48 (s.d. = 13.80) v. mean 39.52 (s.d. = 13.35), t(1108) = −3.72, P < 0.001) and have higher baseline Clinician-Administered PTSD Scale for DSM-IV (CAPS)9 scores (mean 19.67 (s.d. = 17.62) v. mean 16.60 (s.d. = 15.42), t(1100) = 3.05, P = 0.002).

Of those who completed the 72-month assessment, the majority were male (71%, n = 362) which is typical of an Australian injury sample.10 Half the sample was married or in a relationship equivalent to a common law marriage (53%, n = 245). On average patients spent 12.35 (s.d. = 12.83) days in hospital. The mean ISS was 10.6 (s.d. = 7.26), which is in the moderate severity range. A total of 41% of participants (n = 209) experienced a mild traumatic brain injury.7 The principal mechanism of injury was a transport accident (66%, n = 335), followed by falls (17%, n = 86), assault (6%, n = 30), work-related accidents not specified in the above categories (5%, n = 26) and other (7%, n = 33).

**Measures**

**PTSD**

Symptom severity and diagnosis of PTSD were assessed using the CAPS.9 This structured clinical interview is one of the most widely used tools for diagnosing PTSD and has demonstrated excellent reliability and validity.11 The new questions proposed for DSM-5 were written by the CAPS original authors and incorporated into the interview. In the current study the CAPS internal consistency was high in both the DSM-IV (α = 0.88) and the DSM-5 (α = 0.89) versions. The CAPS interviews were conducted via telephone, which have been shown to be as valid and reliable as face-to-face interviews.12 All interviews were digitally recorded to ensure ongoing adherence to the protocol. To test interrater reliability, 5% of all CAPS interviews were assessed by an independent assessor who was masked to the original scoring. Overall, the diagnostic consistency on the CAPS was 100%.

**Depression**

The Mini International Neuropsychiatric Interview Version 5.5 (MINI)13 was used to assess a diagnosis of major depressive episode. The MINI is a short, structured screening interview based on DSM-IV and ICD-10 classification of mental illness. It consists of a set of screening questions and modules; modules are administered if a patient responds positively to the screening question. The major depressive episode module assesses all major depressive episode symptoms except the distress and impairment symptoms. The MINI has good reliability for all diagnoses when compared with the Composite International Diagnostic Interview (CIDI).13

**Functional outcomes**

We used disability and quality of life to identify functional and well-being outcomes associated with a PTSD diagnosis. Disability provides an understanding of the problems an individual is having in performing activities or roles within the context of his or her environment14 and quality of life provides information on how a disability may impact on broader aspects of well-being.15 We used the 12-item World Health Organization Disability Assessment Schedule II (WHODAS II15) to measure disability. The WHODAS II measures activity limitations across six domains: (a) understanding and communication, (b) getting around, (c) self-care, (d) getting along with others, (e) household and work activities, and (f) participation in society. Items are rated on a five-point scale. The WHODAS II has been shown to be a reliable and valid measure of disability across various patient groups.16 The method of scoring we used was a summing of all the items.17 Scores range from 0 (no disability) to 48 (complete disability). There is no agreed cut-point for identifying people with significant disability, but people scoring 10–48 are in the top 10% of the population distribution of WHODAS II scores and are likely to have clinically significant disability.18 Thus, we used a score > 9 as the threshold for high disability.

We used the psychological domain scale from the World Health Organization Quality of Life – BREF (WHOQOL-BREF18) as a measure of quality of life. The WHOQOL-BREF psychological domain is an eight-item scale that assesses quality of life in terms of perception and satisfaction across a number of life areas. The WHOQOL-BREF provides an understanding of the problems an individual is having in performing activities or roles within the context of his or her environment14 and quality of life provides information on how a disability may impact on broader aspects of well-being.15 The method of scoring we used was a summing of all the items.17 Scores range from 0 (no disability) to 48 (complete disability). There is no agreed cut-point for identifying people with significant disability, but people scoring 10–48 are in the top 10% of the population distribution of WHODAS II scores and are likely to have clinically significant disability.18 Thus, we used a score > 9 as the threshold for high disability.

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**Procedure**

The study was fully explained to the patients who met inclusion criteria and written informed consent was obtained. Demographic and injury information was collected at baseline (just prior to discharge). We administered the CAPS at baseline and these data were used for completers analyses. At the 72-month follow-up, both the CAPS and MINI were administered via the telephone. Self-report questionnaires were sent to participants to assess disability and quality of life. The major analyses in this manuscript utilise the 72-month data.

**Data analysis**

Descriptive statistics were used to report the current prevalence rates associated with each scoring algorithm. To test the predictive power of each scoring algorithm, we examined the relationship between the diagnosis and poor psychological quality of life and high disability. We used measures of sensitivity to examine the probability that an individual with a poor psychological quality of life (or high disability) would have met criteria for a diagnosis;
The current prevalence rates of PTSD, as scored using DSM-IV, DSM-5, ICD-10 and ICD-11 algorithms are reported in Table 1. Rates of PTSD as scored for DSM-5 were higher than DSM-IV, however, this increase was not significant (6.7% vs. 5.9%, z = 0.53, \( P = 0.59 \)). Most of this difference, however, was accounted for by the inclusion of Criterion A2 in DSM-IV. When A2 was removed as a requirement for the DSM-IV diagnosis, the rates of PTSD were higher for DSM-IV than DSM-5 (8.0% vs. 6.7%), although this difference was not significant (z = 0.80, \( P = 0.42 \)). Aside from the A2 issue, of those who met DSM-IV but not DSM-5 criteria, 63% were excluded from the latter diagnostic system because they did not meet the new requirement for active avoidance symptoms.

Rates of PTSD as scored using the proposed ICD-11 criteria were significantly lower than for the ICD-10 criteria (3.3% vs. 9.0%; z = -3.8, \( P < 0.001 \)). The individuals diagnosed with PTSD using ICD-10 criteria that did not make an ICD-11 diagnosis failed to meet the re-experiencing symptom requirements (30% of those with a diagnosis using ICD-10, n = 9), the arousal requirements (30%, n = 9) and the functional impairment requirement (13%, n = 4). If intrusive memories was added as a re-experiencing symptom (in addition to flashbacks and nightmares), the current prevalence of PTSD scored by ICD-11 increased to 6.1 (n = 31).

Post-traumatic stress disorder current prevalence rates were significantly higher for DSM-5 compared with ICD-11 criteria (6.7% vs. 3.3%, \( z = 2.5, P = 0.01 \)). Fifteen participants (42%) met both DSM-5 and ICD-11 criteria, whereas 2 met ICD-11 but not DSM-5 and 19 met DSM-5 but not ICD-11. When DSM-IV was compared with DSM-5, 32 participants met criteria for both, 12 for DSM-5 only and 8 for DSM-IV only. Comparing ICD-10 with ICD-11 indicated that 30 participants met criteria for both, 16 for ICD-10 only and 1 for ICD-11 only. Table 2 breaks this down further by showing the proportion of the sample meeting diagnostic criteria for each cluster of symptoms across diagnostic algorithms.

### Functional outcome

There was little difference in the proportion of participants diagnosed with PTSD using DSM-IV or DSM-5 that met criteria for high disability (92% in DSM-IV vs. 86% in DSM-5, z = 0.70, \( P = 0.48 \)) or poor psychological quality of life (81% vs. 75%; \( z = 0.53, P = 0.60 \)). Similarly, there were no differences in the proportion of participants diagnosed with PTSD using ICD-10 or ICD-11 that met criteria for high disability (85% vs. 77%; \( z = -0.26, P = 0.79 \)).
An important question, however, is whether one system is better than the other at identifying those who have functional impairment. Table 3 reports the sensitivity, specificity, positive predictive power and negative predictive power for the various diagnostic algorithms in relation to both disability and quality of life. Very little difference was apparent between DSM-5 and ICD-11 (or their older counterparts) on these parameters, except that ICD-11 had a very low sensitivity for determining low quality of life or high disability.

There were eight people who met PTSD criteria for DSM-IV but not DSM-5. By looking at the functional outcomes of these people relative to those who did meet DSM-5 criteria we could see whether DSM-5 was identifying those with higher functional impairment. Independent samples t-test were carried out for WHODAS II and WHOQOL-BREF measures, comparing those diagnosed in DSM-IV only with those diagnosed in DSM-5. With the WHODAS II there was not a significant difference for those diagnosed under DSM-IV only (mean 16.0 (s.d. = 8.2)) and DSM-5 conditions (mean 16.6 (s.d. = 7.7), t(34) = −0.19, P = 0.85). This was also the case for the WHOQOL-BREF (mean 52.6 (s.d. = 17.4) v. mean 44.6 (s.d. = 13.2), t(34) = 1.40, P = 0.17).

Similar results were found for ICD. There were 28 people who meet PTSD criteria for ICD-10 but not ICD-11. Overall there was no difference in quality of life between those diagnosed under ICD-10 only, relative to those meeting ICD-11 criteria (WHODAS II – ICD-10 only; mean 15.9 (s.d. = 6.9); ICD-11: mean 15.5 (s.d. = 8.0), t(39) = 0.146, P = 0.89). There was a significant difference between ICD-10 and ICD-11 in that those who met ICD-11 only had significantly lower psychological quality of life than those who met ICD-10 criteria only (WHOQOL-BREF – ICD-10: mean 52.1 (s.d. = 11.9); ICD-11: mean 43.0 (s.d. = 16.8), t(39) = 2.005, P = 0.05, Cohen’s d = 0.63).

### Discussion

**Main findings**

In this study we examined the impact of the changes in DSM-5 and the proposed changes in ICD-11 on current prevalence rates of PTSD, on comorbidity rates with major depressive episode, and on the association between diagnosis, disability and quality of life. Overall, there were few differences between the DSM-IV and DSM-5 scoring algorithms in terms of current prevalence, comorbidity and their association with disability and quality of life. This was not the case with the ICD scoring algorithm, with the ICD-11 having a significantly lower current prevalence rate than ICD-10.

**Comparison with findings from other studies**

The diagnostic requirements for PTSD in DSM-5 and the proposed criteria for ICD-11 have incorporated a number of modifications to their earlier counterpart classification systems. The only two studies to examine the prevalence rates of the DSM-5 criteria (which were under proposal at the time) provide conflicting results. The first study used a large sample of traumatic injury survivors (n = 835) but used only those criteria that are shared across both DSM-IV and DSM-5, focusing on the impact of splitting Cluster C to specifically require active avoidance. The prevalence of PTSD reduced by 26% as a result of this modification (80 individuals in DSM-IV-TR compared with 62 in DSM-5) and the prevalence of comorbidity between PTSD and major depression was reduced. The second study used a non-clinical university sample, raising questions about the extent to which the findings may generalise to the broader trauma-exposed community. Nevertheless, that study reported a small increase in prevalence with the revised criteria.

Much less detail and comment has appeared regarding the proposed changes to the ICD criteria for PTSD. It is 2 years behind the DSM revisions, with publication by the World Health Organization due in 2015. The key principles for the ICD-11 approach in general is an increased focus on the clinical utility of diagnoses and their accessibility to front-line workers. The emphasis on clinical utility encourages simplicity, which is important because ICD is applicable to the many low-income countries around the world with less developed mental health systems. The ICD-11 PTSD committee aimed to identify the symptoms specific to the disorder and separate these out from the non-specific components. The proposed specific criteria have only just been released for discussion and thus the criteria identified in this paper may change over time.

### Evaluation of our findings

The decision to drop criterion A2 in DSM-5 was supported in our study. A total of 20% of those who would otherwise have met criteria for DSM-IV failed to get a diagnosis because they did not meet A2 criteria. Apart from the difference caused by A2, the current prevalence identified by DSM-5 compared with DSM-IV was lower and this was largely explained by some participants failing to meet the active avoidance cluster. This is consistent with the findings of Forbes et al., and congruent with the assumption that active avoidance is a core part of this disorder.

If the goal of the ICD revision was to tighten the diagnosis, it seems to have succeeded: current prevalence dropped from 9.0% for ICD-10 to 3.3% for ICD-11. This was explained largely by the need to meet one of the limited number of re-experiencing and arousal symptoms in ICD-11, although the requirement for functional impairment also contributed to this drop. The constrained definition of re-experiencing in ICD-11, as a reliving of the event, emerges from models that emphasise this phenomenon as pivotal to PTSD and evidence that reliving is a feature that emerges from models that emphasise this phenomenon as pivotal to PTSD.
distinguished PTSD from other post-traumatic intrusive symptoms. Nevertheless, the scale of the reduction in the prevalence of PTSD raises questions as to whether the proposed criteria for ICD-11 may be too restrictive. Indeed, the current prevalence rate increased from 3.3% to 6.1% when distressing intrusive memories were included. It may be that the current operational definition of the re-experiencing symptoms requires further consideration to optimally capture this phenomenon of patients with PTSD.

One goal of modification for both systems was to improve the specificity of the diagnosis by increasing the emphasis on those symptoms that are unique to PTSD, such as active avoidance, and (for ICD at least) reducing those that represent general dysphoria or depression. If that goal were achieved, the revision would be expected to show a lower rate of comorbid depression."20 This was not supported by the findings for the DSM-5 algorithm, which showed a comorbidity rate with depression of 67%. A more detailed investigation of the relationship between DSM-5 PTSD symptoms clusters and depression is beyond the scope of this paper, but it would be a worthwhile endeavour for future investigation. Surprisingly, the ICD-11 algorithm also produced a high comorbidity with depression – half those with PTSD also met depression criteria. Given that this comorbidity could not be accounted for by overlapping symptoms, it would add weight to the view that PTSD and depression co-occur in the aftermath of trauma, independent of definitional overlap of diagnostic criteria.25 The chronicity of the current sample may contribute to this level of comorbidity, given that the index traumatic event occurred 6 years prior and there is evidence to suggest that depression and PTSD become indistinguishable as they become chronic.26

The final aim of this study was to explore the relationship of PTSD with functional outcomes under the different diagnostic algorithms. It is reasonable to assume that a disorder only reaches clinical significance when it impairs social or occupational functioning, or disrupts quality of life. Although ICD-11 showed particularly low sensitivity with high disability/low quality of life, there was surprisingly little difference across the various algorithms in terms of overall diagnostic accuracy (as seen by the overlapping confidence intervals). If therefore we wish to identify those whose mental health problems warrant intervention, there may be little to choose between the ICD and DSM revisions for PTSD. It is noted however, that those meeting ICD-11 only (relative to those meeting ICD-10 only) did have a significantly lower psychological quality of life, which adds support for this version of the criteria.

Since these diagnostic systems have taken quite different approaches – with DSM-5 taking an inclusive approach and ICD-11 tending towards a minimalist symptom list – it is not surprising that there were substantial differences between them in terms of the prevalence rates they generated, with the DSM-5 prevalence rate being significantly higher than ICD-11. However, what was more surprising was that the majority of individuals with PTSD were identified by one but not the other system – only 42% met the criteria of both systems. This difference is not explained by the finding that the DSM-5 diagnostic algorithm captured a larger group than the ICD-11, as only 12% of those with an ICD-11 diagnosis did not meet criteria for DSM-5. These findings indicate that the diagnostic algorithms of each system were predominantly identifying different people.

The apparent divergence in patients with PTSD identified by ICD-11 and/or DSM-5 is a key finding. There are both potential scientific and clinical consequences of having diagnostic systems that are not parallel. From a scientific perspective, attempts to understand the mechanisms underpinning PTSD may be hampered by diagnostic constructs that do not match – replication and generalisation may be hindered by the lack of a standardised phenotype. Many initial findings about how PTSD works are not replicated, especially in relation to biological processes, and this is attributed to the heterogeneity of the diagnostic definition;27 this situation may only be worsened by greater discrepancies between diagnostic systems. From a clinical perspective, how would compensation systems manage when a person may be entitled to compensation under one diagnostic system but not the other? Clinical interventions that may have been validated under one system may not be equally valid for the clinical manifestation of PTSD diagnosed under the alternate system. In short, it appears that the tendency for ICD-11 and DSM-5 to identify different trauma-affected people will promote less precision in the years ahead at both theoretical and applied levels.

Strengths and limitations

The current study had several strengths. The sample comprised a large multisite study of traumatised adults and the methodology involved using structured clinical interviews to diagnose PTSD and major depressive episode. Nevertheless, the limitations require consideration. First, given that sensitivity and positive predictive power are influenced by prevalence rates, the rate of PTSD in our sample would have contributed to the relatively low predictive power reported in our analyses. Similarly, a lack of power may have contributed to the non-significance of our z-score tests when assessing changes in prevalence or comorbidity rates using the different scoring algorithms. Second, since this sample represents those exposed to severe injury, other variables such as physical damage and pain may have contributed to the levels of dysphoria and functional impairment. Furthermore, the sample had a high rate of mild traumatic brain injury and it is unknown how this, or other injuries, may have had an impact on the prevalence rates of each symptom. Third, there was a non-participation bias towards higher baseline CAPS scores. This may have had an impact on the prevalence rates of PTSD, and/or the proportion of those meeting either ICD-11 or DSM-5 criteria. Finally, although the MINI is a well-validated structured screening interview, it is important to recognise that although it contains the nine depression symptoms it does not include the distress and impairment symptoms or the physiological exclusion criteria for major depressive episode, which may have had an impact on the prevalence rates of that disorder in the study.

Implications

Despite the limitations, the findings provide some cautious support for the DSM-5 revisions of the PTSD criteria and the proposed revisions to ICD-11. It was notable that the two systems resulted in significantly different prevalence rates, and that each identified a proportion of people with PTSD which the other system did not. This raises a challenge for future research because as previously highlighted the phenotype that is studied may be markedly different according to the diagnostic system used. This is especially important for international research given that many countries around the world employ the ICD, and research outcomes that use this system may be based on different study populations than those using DSM-based formula. It is important therefore that work aimed at refining and reconciling the diagnostic criteria for PTSD continues with the aim of achieving an empirically based unitary construct that accurately represents the disorder.
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