What is a Mental/Psychiatric Disorder? From DSM-IV to DSM-V


Introduction

DSM-III and DSM-IV have been praised for making a seminal contribution to patient care and to the scientific study of psychiatric disorders by providing rigorous and reliable diagnostic criteria for conditions such as major depressive disorder and social phobia. At the same time, DSM-III and DSM-IV have been criticized for creating too many diagnostic categories (van Praag, 2000) and for allowing the distinction between psychopathology and normal psychological phenomena (e.g., sadness after a major stressful event, shyness in social situations) to be eroded (Horwitz, V & Wakefield, 2007; Wakefield, Horwitz, & Schmitz, 2005). Both DSM-III and DSM-IV emphasized the difficulties inherent in drawing a precise distinction between normality and psychopathology, and they provided a definition of mental disorder that attempted to address this challenge (Spitzer & Endicott, 1978). This issue is relevant not only to deciding whether or not a disorder should be in the nosology, but whether or not the criteria for a particular disorder are optimal for defining the threshold for caseness. As part of the process of developing DSM-V, researchers have explored again the concept of mental disorder and emphasized the need for additional work in this area (Rounsaville et al., 2002). In this editorial, we review the DSM-IV definition of mental disorder and propose a number of changes.

DSM-IV Definition of Mental Disorder

DSM-IV notes that “… although this manual provides a classification of mental disorders, it must be admitted that no definition adequately specifies precise boundaries for the concept of ‘mental disorder.’ The concept of mental disorder, like many other concepts in medicine and science, lacks a consistent operational definition that covers all situations. All medical conditions are defined on various levels of abstraction--for example, structural pathology (e.g., ulcerative colitis), symptom presentation (e.g., migraine), deviance from a physiological norm (e.g., hypertension), and etiology (e.g., pneumococcal pneumonia). Mental disorders have also been defined by a variety of concepts (e.g., distress, dyscontrol, disadvantage, disability, inflexibility, irrationality, syndromal pattern, etiology, and statistical deviation). Each is a useful indicator for a mental disorder, but none is equivalent to the concept, and different situations call for different definitions.”

DSM-IV goes on, however, to note that, “Despite these caveats, the definition of mental disorder that was included in DSM-III and DSM-III-R is presented here because it is as useful as any other available definition and has helped to guide decisions regarding which conditions on the boundary between normality and pathology should be included in DSM-IV. In DSM-IV, each of the mental disorders is conceptualized as a clinically significant behavioral or psychological syndrome or pattern that occurs in an individual and that is associated with present distress (e.g., a painful symptom) or disability (i.e., impairment in one or more important areas of functioning) or with a significantly increased risk of suffering death, pain, disability, or an important loss of freedom. In addition, this syndrome or pattern must not be merely an expectable and culturally sanctioned response to a particular event, for example, the death of a loved one. Whatever its original cause, it must
currently be considered a manifestation of a behavioral, psychological, or biological
dysfunction in the individual. Neither deviant behavior (e.g., political, religious, or sexual)
nor conflicts that are primarily between the individual and society are mental disorders
unless the deviance or conflict is a symptom of a dysfunction in the individual, as described
above.”

Table 1 operationalizes the DSM-IV definition of mental disorder, in the standard format
used for the operationalization of clinical diagnoses.

Proposed DSM-V Definition of Mental/Psychiatric Disorder

Table 2 provides our suggested changes. Before going on to provide a rationale for each of
these changes, it is relevant to address the question of whether the term “mental disorder” is
optimal. “Mental” implies a Cartesian view of the mind-body problem – that mind and brain
are separable and entirely distinct realms, an approach that is inconsistent with modern
philosophical and neuroscience views (Fulford, Thornton, & Graham, 2006). The term
“psychiatric disorder” may be preferable insofar as it emphasizes that these conditions are
not purely “mental”, and that the line between “psychiatric disorder” and “other medical
disorders” is not a sharp one. However, the term “psychiatric” has been criticized for not
sufficiently connoting the extent to which entities are in fact psychobiological (instead, for
some, connoting an overly reductionistic biomedical model). Mental health clinicians other
than psychiatrists have also voiced criticism of this term insofar as it may suggest
incorrectly that only psychiatrists are trained in the diagnosis and management of these
conditions (Spitzer & Williams, 1982). Such criticism may be sufficient to warrant retaining
“mental disorder”, and indeed the authors of this article could not come to a consensus on
this matter. One potential compromise is to recommend the awkward and perhaps
transitional term “mental/psychiatric”. A more conservative approach would be to retain the
term “mental disorder” in keeping with DSM-IV, but to emphasize in the text that these are
brain-mind disorders.

Criterion A

DSM-IV refers to a clinically significant behavioral or psychological syndrome or pattern
that occurs in an individual. However, the phrase “clinically significant” is in some ways
tautological here; its definition is precisely what is at stake when defining a mental disorder.
Other definitional criteria go on to tackle the meaning of clinical significance, and we
therefore suggest omitting the “clinically significant” phrase from criterion A. Nevertheless,
the phrase “clinically significant” is useful in defining a mental disorder, and we therefore
turn to it in criterion B.

As alluded to earlier, the question has been raised of what is “mental” about mental
disorders (Fulford et al., 2006). In this regard, a practical issue that arises is the inclusion in
DSM-IV of symptoms and disorders that might be conceptualized as more neurological
(rather than behavioral or psychological) in nature (e.g., tic disorders, catatonia). It might be
argued that involuntary motoric movements (or lack of motoric movement) belong in a
classification of neurological disorders rather than mental/psychiatric disorders. However,
the constructs “voluntary” and “involuntary” arguably have fuzzy borders. Furthermore, the
term “behavioral” in criterion A could be considered to cover motoric symptoms that lie in a
border area between voluntary and involuntary, supporting the inclusion of conditions like
tic disorders in DSM-V.

Regarding the phrase “in an individual” in criterion A, there has been debate about whether
dysfunction in relationships should be classified as mental/psychiatric disorders (Heyman et
al, 2009). Although currently listed only as V codes (other conditions that may be a focus of
clinical attention), such phenomena appear to have content validity, may be associated with significant distress and impairment, and can be reliably diagnosed. Nevertheless, general medical disorders invariably occur within individuals, and although there may be some reasons to stretch the construct of disorder to novel phenomena such as relationship dysfunction, such an expansion would necessarily be contentious and therefore would require particularly persuasive supporting data. We therefore suggest retaining the phrase “occurs in an individual” at this time. (Notably, DSM-IV-TR includes the diagnosis of Shared Psychotic Disorder, and does not specifically indicate that individuals with this condition have an internal syndrome. It might therefore be relevant to clarify this point in DSM-V).

**Criterion B**

DSM-IV notes that mental disorders are associated with distress, disability, or a significantly increased risk of suffering death, pain, disability, or an important loss of freedom. It also gives an example of distress and defines disability as impairment in one or more important areas of functioning.

We recommend that distress and impairment in functioning be retained in criterion B. Psychological distress is central to many mental disorders, especially those considered “internalizing disorders” (such as depression and anxiety disorders). Including disability in this criterion is needed to identify individuals who need treatment but whose symptoms may not cause them emotional distress. Indeed, it may be argued that distress and disability are not merely associated with the symptoms of a disorder, but they are a result of the disorder, and we suggest emphasizing this causal relationship (Wakefield, 1992; Spitzer et al., 1982).

The definition notes that disability consists of impairment in one or more important areas of functioning; these areas include domains such as occupational, academic, social (including interpersonal), and role functioning. (One set of disorders in DSM-IV-TR that might not, at first glance, be considered to be characterized by distress or impairment are the paraphilias. However, it could be said that symptoms of paraphilias reflect a disturbance in interpersonal functioning). Because distress and impairment in functioning can vary in terms of degree and severity (i.e., they are dimensional constructs), we suggest modifying these terms with the phrase “clinically significant” to help differentiate impairment indicative of a disorder from milder distress or difficulty in functioning which may not warrant clinical attention or treatment.

This “clinical significance criterion” (Spitzer & Wakefield, 1999) has been subjected to criticism when used as one of the operational criteria for individual disorders. One criticism is that this criterion does not appear to be widely used in other areas of medicine and is difficult to operationalize (e.g., distress is a highly subjective construct). Nevertheless, we would argue that medical disorders typically implicitly require a judgment that the condition is distressing (e.g., painful) or impairing in some way. Given that we do not have objective biomarkers that adequately define most psychiatric/mental disorders, the clinical significance criterion remains useful in differentiating disorder from normality.

Regarding the phrase pertaining to “increased risk,” risk factors are important to bear in mind and perhaps even to treat (indeed, the full title of the ICD-10 is “International Classification of Disease and Health Related Problems,” with the latter phrase including risk factors for disease such as hypertension); perhaps DSM-V should consider an analogous extension to its title. A full consideration of this issue is beyond the scope of this editorial; diagnosis and treatment of risk factors for psychiatric disorders is appropriately a contentious area, where advantages and disadvantages must be carefully weighed. At the same time, we would note that disorder and risk factors should not be conflated. The phrase

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“loss of freedom” can be derived from the concept of disability – i.e. disability involves one or more losses of freedom (Wakefield, 1992). We therefore tentatively suggest simplifying this criterion by omitting the phrase on risk and on loss of freedom for the sake of clarity. We recognize, however, that limiting the classification to deal with disorders only may well be unduly restrictive.

**Criterion C**

DSM-IV notes that disorders must not be an expectable and culturally sanctioned response to a particular event, for example, the death of a loved one. Although it may be difficult to define the term “expectable,” it is important to retain an emphasis on exploring the context of symptoms, and so we suggest retaining this term. Certainly, not all responses to common stressors and losses are optimally conceptualized as disorders (even if clinical intervention is useful for some of these responses), and we suggest clarifying the criterion to emphasize this point.

Part of the context of symptoms, is their cultural context. We agree that it is important therefore, in addition, to retain the idea that culturally sanctioned responses to events are not considered a mental disorder. An example of this is expectable and culturally sanctioned trance states in religious rituals, and we suggest adding this example in parentheses.

The example in DSM-IV of death of a loved one exemplifies the difficulty in reaching a judgment about what is expectable. The boundaries between normal and pathological bereavement are complex and contentious (Kendler, Myers, & Zisook, 2008). Although bereavement symptoms may be expectable (and culturally sanctioned), studies indicate an association between such symptoms and distress/impairment, and that bereavement symptoms can be modified by clinical intervention. Kendler and colleagues (2008) have noted that the similarities between bereavement-related depression and depression related to other stressful life events substantially outweigh their differences, results that are consistent with a detailed review of the prior literature on this subject (Zisook & Kendler, 2007).

Along these lines, while it may be useful for clinicians to distinguish between common response to stressors and losses (that are distressing, but likely to be self-limiting, without high risk of persistent clinically significant distress or impairment) and mental/psychiatric disorders (as defined here), common distressing reactions to common stressors and losses do carry an incremental risk of complications, including the development of mental/psychiatric disorders. Furthermore, people experiencing such normal responses may well present for evaluation and treatment, and they may be helped by a brief intervention such as psychotherapy and monitoring (so that once again, the ICD-10 title of “disease and health related problems” has advantages).

**Criterion D**

DSM-IV refers to behavioral, psychological or biological dysfunction. The term dysfunction can be understood in a statistical way, meaning deviance from a statistical norm (Boorse, 1976), or in an evolutionary framework, meaning deviance from functioning as selected for (Wakefield, 1992). Both of these so-called naturalist approaches are controversial in various ways (Bolton, 2008). One problem with the evolutionary theoretic approach to defining disorder, for example, is that it would involve speculative theoretical assumptions about what syndromes did or did not represent a failure of evolutionary selected psychological or behavioral mechanisms, which would adversely affect reliability of diagnosis.

An alternative way of understanding “dysfunction” is in terms of the consequences of the syndrome, specifically that it leads to or is associated with distress and disability. A related possibility is to define “dysfunction” as a functioning for the worse, a proposal which
requires that the context of symptoms be closely examined and appraised against the patient’s life values and goals (Fulford, 1999). Similarly, it has been argued that the notion of “dysfunction” draws on particular metaphors of disorder; there is no algorithm that specifies fully the use of the term, rather appropriate use requires careful judgment (Stein, 2008). Certainly, as other authors have also pointed out (Horwitz, V et al., 2007), context is a key issue in determining whether disorder is present (consider, for example, antisocial behavior in the context of adolescent gangs in some urban areas, where it may be adaptive to join a gang, but where this requires participating in a range of behaviors listed in the diagnostic criteria for conduct disorder). A key aspect of context is the developmental stage of the individual; the boundaries between function and dysfunction change over time, and might also be viewed differently by different caregivers (e.g., parents versus teachers). Another possibility is to use a different term, such as “disturbance”, rather than “dysfunction,” as it is not associated with particular theories of function, and is used in some diagnostic criteria sets. This would not, however, resolve the difficulties involved in specifying appropriate use of the term.

The concept that a disturbance is behavioral, psychological, or biological may be taken to imply that there are different levels or types of disturbance. There is a growing awareness of the extent to which all behavior and psychology are dependent upon brain processes, and the extent to which brain changes have complex behavioral and psychological effects. The term “psychobiological” emphasizes the extent to which these different types and levels of dysfunction are intertwined in reality, and we therefore recommend incorporating it into the criterion.

Criterion E

DSM-IV requires that deviant behavior and conflicts between the individual and society should not be regarded as disorder, unless they can be shown to be a symptom of dysfunction in the individual. This criterion is arguably not strictly necessary, in that criterion D already indicates that there is dysfunction. Nevertheless, because of the difficulties in specifying fully appropriate use of this term, and because psychiatric diagnoses have been used for political purposes in the past and potential future misuse cannot be ruled out, we suggest, as a precaution, retaining the first part of this criterion. To simplify this criterion, we suggest deleting the second part of the DSM-IV definition because the concept of dysfunction in the individual is already covered by prior criteria, and addition of the word “solely” more succinctly conveys the intended point.

Criterion F and G

We suggest adding two more criteria to define an individual mental/psychiatric disorder. First, any disorder in DSM should have diagnostic validity (criterion F), on the basis of one or more key validators (e.g., prognostic significance, evidence of psychobiological disruption, or prediction of response to treatment). Although we conceptually require psychobiological dysfunction (criterion D), in the absence of strong empirical evidence for this, other evidence of diagnostic validity is needed. Evidence for diagnostic validity of different conditions is variable, reflecting in part the amount of research that has been done on each condition. DSM-IV had an Appendix for disorders requiring further research, this provides a place for disorders with weaker validating evidence and may encourage such validation; we would therefore argue for retaining such an appendix in DSM-V, and possibly expanding it with poorly-validated DSM-IV categories.

Second, any disorder in DSM should have clinical utility (criterion G) (First et al., 2004). That is, we suggest that receipt of a DSM-V diagnosis needs to convey something important about that individual that is relevant in a treatment setting. Our diagnoses should “do work
in the world” and provide useful information about individuals so classified (Kendler, 1990). Diagnosis should facilitate the process of patient evaluation and treatment rather than hinder it. In this regard, it is notable that considerations of clinical utility may vary from setting to setting; DSM-V requires a balancing of such considerations, so that optimal utility is achieved across more specialized settings and primary care settings.

Criteria H, I, and J

DSM-IV usefully noted that no definition adequately specifies precise boundaries for the concept of mental/psychiatric I disorder. A large philosophical literature supports this point (Fulford et al., 2006; Stein, 2008), and we agree with the retention of this part of criterion H. However, we would also add that no definition of which we are aware adequately specifies precise boundaries for the concept of non-psychiatric medical disorder either.

Ongoing discussions address how best to organize the DSM classification. In criterion I, we have noted that considerations about diagnostic validation and clinical utility should help differentiate disorders from diagnostic “nearest neighbors.”

The issue of the value-laden nature of defining disorders has received a good deal of attention in the philosophical literature (Fulford, 1989; Sadler, 2005; Bolton, 2008). We suggest acknowledging in criterion J that values inform nosological decisions and specifying that potential benefits should outweigh potential harms when considering whether to add a psychiatric disorder to, or delete a psychiatric disorder from, the nomenclature.

Conclusion

The explicit DSM-IV position that mental/psychiatric disorders cannot easily be precisely operationally defined seems basically correct. On the other hand, the position of the DSM process, that our classification system can improve over time as the scientific knowledge base progresses, also seems correct. The situation in psychiatry is reminiscent of some other areas of medicine, where there are also shifting boundaries between normality and abnormality, with evidence-based changes made over time. It is also redolent of many areas of biology, where there may be fuzzy boundaries between constructs (e.g., species), again with evidence-based advances in classification made over time (Stein, 2008; Kendler, 2009).

Contrasting philosophical stances to a number of nosological issues have been identified previously, for example contrasting objectivist and evaluativist, internalist and externalist, entity and agent, and categorical and dimensional perspectives (Zachar & Kendler, 2007). The approach taken here perhaps takes a middle course through some of these debates. For example, we would argue that although gaps in current science mean that a descriptivist position is important (focusing on the symptoms and course of a disorder, rather than merely on its underlying mechanisms), current understandings of psychobiology may usefully inform certain nosological decisions. Disorders cannot be perfectly defined in necessary and sufficient terms, and there are likely to be particularly robust disagreements about more atypical categories. At the same time, disorders are more than mere “labels,” and progress towards a more scientifically valid and more clinically useful nomenclature is possible. Similarly, we hope that our proposals here, although not providing an absolute definition of mental/psychiatric disorder, do help progress the debate towards a more scientifically valid and more clinically useful definition.

Acknowledgments

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**Reference List**


### Table 1

**DSM-IV Definition of Mental Disorder**

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**Table 2**

**DSM-V Proposal for the Definition of Mental/Psychiatric Disorder**

<table>
<thead>
<tr>
<th>Features</th>
<th>Description</th>
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<tr>
<td><strong>A</strong></td>
<td>a behavioral or psychological syndrome or pattern that occurs in an individual</td>
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<td><strong>B</strong></td>
<td>the consequences of which are clinically significant distress (e.g., a painful symptom) or disability (i.e., impairment in one or more important areas of functioning)</td>
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<tr>
<td><strong>C</strong></td>
<td>must not be merely an expectable response to common stressors and losses (for example, the loss of a loved one) or a culturally sanctioned response to a particular event (for example, trance states in religious rituals)</td>
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<tr>
<td><strong>D</strong></td>
<td>that reflects an underlying psychobiological dysfunction</td>
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<td><strong>E</strong></td>
<td>that is not solely a result of social deviance or conflicts with society</td>
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<td><strong>F</strong></td>
<td>that has diagnostic validity using one or more sets of diagnostic validators (e.g., prognostic significance, psychobiological disruption, response to treatment)</td>
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<tr>
<td><strong>G</strong></td>
<td>that has clinical utility (for example, contributes to better conceptualization of diagnoses, or to better assessment and treatment)</td>
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**Other Considerations**

| **H**                                                                    | no definition perfectly specifies precise boundaries for the concept of either “medical disorder” or “mental/psychiatric disorder”                                                                     |
| **I**                                                                    | diagnostic validators and clinical utility should help differentiate a disorder from diagnostic “nearest neighbors”                                                                                     |
| **J**                                                                    | when considering whether to add a psychiatric condition to the nomenclature, or delete a psychiatric condition from the nomenclature, potential benefits (for example, provide better patient care, stimulate new research) should outweigh potential harms (for example, hurt particular individuals, be subject to misuse) |

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