Mnemonics for diagnostic criteria of DSM V mental disorders: a scoping review

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ABSTRACT
A multitude of psychiatric disorders have been described in classification systems like the Diagnostic and Statistical Manual of Mental Disorders Fifth Edition (DSM V). Diagnosing a specific mental disorder requires memorising specific symptom criteria, and their improper recall may result in misdiagnosis. Clinicians may use mnemonics, considering them as narratives or anecdotes of the diagnostic criteria. A scoping review of previously described mnemonics for DSM diagnostic criteria was carried out. An electronic search was done in PubMed, Google Scholar, Google Books and Google Search engine using a prespecified search strategy. Reference lists of relevant articles and chapters were hand searched to identify original and additional articles. Mnemonics retrieved from websites were manually searched in Google to identify published journal articles or chapters for the same mnemonics. Additionally, some mnemonics were developed, modified or added based on the author’s knowledge. The comprehensive search identified 93 records (44 journal articles, 45 books and 4 websites) eligible for the review. Most of the mnemonics retrieved were related in some way to the disorder itself. They were listed under the heading of their respective disorders and indexed in the same order as in DSM V. The mnemonics that reflect a facet of their respective disorders were elaborated in detail.

INTRODUCTION
Mnemonics are specific devices for improving memory and have been used since classical times. It is unlikely that any of us come through life without relying on a mnemonic at some time or another.5 Mnemonics use cognitive cueing processes of organisation, elaboration and mental imagery during both learning and recall.6 Most mnemonics are categorised into acrostic sentences, acronyms, peg word, keyword, method of loci, rhymes or word play. Acrostic mnemonics are sentences in which the first letter of each word is the first letter of one of the things that need to be remembered. An acronym is a word created by using the first letter of each word of the information to be recalled. Mnemonics made by oneself are often the most useful. Often the sillier and more ridiculous the mnemonic is, the better one can remember it.2 3

Mnemonics as narratives or anecdotes are particularly useful in medicine, where it is often necessary to learn clusters of symptoms corresponding to a particular diagnosis.1 Reliable diagnoses are essential for treatment, research, documentation and epidemiological purposes. The current and Fifth Edition of the Diagnostic and Statistical Manual of Mental Disorders (DSM V) serves clinicians as a guide to identifying the criteria for the diagnosis of mental disorders.4 The current paper presents a scoping review of mnemonics available in recalling the DSM diagnostic criteria for mental disorders. Alongside, some mnemonics developed or modified by the author are also presented.

METHOD
This review aims to provide an overview or map the available mnemonics rather than to critically appraise or provide concrete guidance for their use in clinical practice. A method of scoping review was selected to summarise and disseminate the available mnemonics for DSM diagnostic criteria.5 6

The methodology for this scoping review was based on the framework outlined by Arksey and O’Malley and ensuing recommendations made by Levac et al.7 8 The review included the following four key phases: (1) defining the research question and selection criteria; (2) comprehensive search of the literature; (3) data extraction, and (4) collating, summarising and reporting the results.

Research question and selection criteria
This review was guided by the question, ‘What are all the mnemonics available for remembering the DSM diagnostic criteria for mental disorders?’ Mnemonics published in any way, whether journal articles or chapters in books or websites or presentations and those developed or modified by the author,
Table 1  STARLITE principles applied to the literature search

<table>
<thead>
<tr>
<th>Criteria</th>
<th>Result</th>
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<tr>
<td>S Sampling strategy</td>
<td>Comprehensive</td>
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<td>T Type of study</td>
<td>Any kind of qualitative study</td>
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<td>Electronic and citation snowballing</td>
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<td>R Range of years</td>
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<td>L Limits Language (English)</td>
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<td>I Inclusion and exclusions</td>
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</tr>
<tr>
<td>T Terms DSM, psychiatry, psychiatric, mnemonic, mnemonics</td>
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<td>E Electronic sources PubMed, Google Scholar, Google Books, Google Search engine</td>
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DSM, Diagnostic and Statistical Manual of Mental Disorders; STARLITE, Standards for Reporting Literature searches.

Search for mnemonics was limited to the English language, with no date restrictions applied. No exclusion criteria were defined based on the publication type, as long as the article described original research.

Comprehensive search of the literature

Literature was searched systematically in an expansive manner. It allows search strategies to emerge as the research investigation takes shape and ensures that data collection efforts yield more than narrowly redundant data.9 Electronic searches were carried out using PubMed, Google Scholar and Google Books to locate the relevant mnemonics. A search was also done by the Google Search engine to identify grey literature. A decision was made to screen only the first 100 hits in Google Books and Google Search engine because it was believed that further screening was unlikely to yield many more relevant articles.10 Articles from Google Scholar were retrieved by using Publish or Perish software.11 The keywords used in various combinations were: ['DSM OR psychiatry OR psychiatric mnemonics'] AND [mnemonic OR mnemonics]. Searches were completed in September 2019. The results of searches were entered into a bibliographic software program (Zotero) for the automatic removal of duplicates.12 The STARLITE (Standards for Reporting Literature searches) principles were used to report the literature search (table 1).13 The selection process was also presented in a flowchart (figure 1).

The titles and abstracts of all the articles, the content of chapters and websites retrieved by the initial searches were screened. Full-text articles of those deemed relevant were retrieved for subsequent review. Reference lists and secondary citations in relevant articles and chapters were hand searched to identify original and additional articles in a ‘snowball’ technique.14 15 The articles with no secondary references were taken as original sources of the mnemonics and cited the same. There was no appraisal of the quality of the records. Mnemonics taken from the journal articles and chapters in books were given higher preference as they may be peer reviewed or edited systematically. Mnemonics retrieved from websites were manually searched in Google to identify published literature (in the form of journal articles or chapters) for the same mnemonics. If multiple records with the same mnemonic were available, then the oldest published article was given preference.

Figure 1  Flowchart of the study. DSM, Diagnostic and Statistical Manual of Mental Disorders.
Data extraction
The data of mnemonics for diagnostic criteria were extracted by retrieving full-text articles or chapters of the books. The mnemonics from websites without published literature were retained by citing the website itself. Few articles and chapters were included based on the author’s knowledge if mnemonics for any psychiatric disorder were not found by the search strategies applied. The authorship, year of publication, type and source of the articles were extracted and tabulated. The reasons that led to the development or collation of mnemonics were discussed.

Collating, summarising and reporting the results
The mnemonics were collated and summarised under the heading of each disorder. The disorders were indexed in the same order as in DSM V. Some mnemonics were modified or developed by the author. Those mnemonics that have no citation are the works of the author. Those mnemonics that reflect a facet of their respective disorders were elaborated in detail.

RESULTS
The comprehensive search identified 4288 records (PubMed 692, Google Scholar 2996, Google Books 300, Google Search engine 300). After the automatic removal of duplicates by software (Zotero), 2741 records were identified. Screening the titles and abstracts of these records, followed by the full text of relevant articles and chapters in books, retrieved 60 eligible records. Of these, 31 were journal articles and 25 were book chapters. The remaining four were websites without published literature. Eleven records were added when searched for published literature (of journal articles and chapters) for the mnemonics in websites. Ten records were retrieved from the reference lists of relevant articles. Twelve were added based on the author’s knowledge. A total of 93 (44 journal articles, 45 books and 4 websites) were eligible for this review. The authorship, year of publication and type and source of the articles were tabulated and available in the online supplementary file 1.

Mnemonics for diagnostic criteria of DSM mental disorders

Neurodevelopmental disorders

Intellectual disability
‘During development Intellects adapt by conceptual, social and practical support.’
1. Onset during developmental period.
2. Deficits in intellectual functions.
3. Deficits in adaptive functioning.
Severity defined on the basis of adaptive functioning in conceptual, social and practical domains that determine the level of supports required.

Language disorder
‘Express or Comprehend words, sentences, discourses expected for age during development.’
1. Persistent deficits in expression and comprehension of language that include:
   - Reduced word knowledge (vocabulary).
   - Limited sentence structure.
   - Impairments in discourse.
2. Below expected for age.
3. Onset in the early developmental period.

Speech sound disorder
‘Sound limits communication during development.’
1. Persistent difficulty with speech sound.
2. Limits effective communication.
3. Onset in the early developmental period.

Childhood-onset fluency disorder (stuttering)
‘Repeat or prolong or substitute the pauses or block repetitive tensions during development.’
1. Persistent disturbances in normal fluency and time patterning of speech, inappropriate for the individual’s age and language skills. Frequent and marked occurrences of one (or more) of the following:
   - Sound and syllable repetitions.
   - Sound prolongations.
   - Substituting problematic words (circumlocutions).
   - Pauses within a word (broken words).
   - Audible or silent blocking.
   - Monosyllabic whole-word repetitions.
   - Words produced with an excess of physical tension.
2. Onset in the early developmental period.

Social (pragmatic) communication disorder
‘Understand social and contextual rules of conversation during development.’
A. Persistent difficulties in the social use of verbal and non-verbal communication as manifested by:
1. Difficulty understanding what is not explicitly stated or non-literal language.
2. Deficits in using communication for social purposes.
3. Disability to change communication to match context or the needs of the listener.
4. Difficulties following rules for conversation and storytelling.
B. Onset in the early developmental period.

Autism spectrum disorder
‘Reciprocate, relate and communicate in social interactions; Restrict repetitive, rigid and unusual reactive behavior during developmental period.’
A. Persistent deficits in social communication and social interaction, manifested by:
1. Deficits in socioemotional reciprocity.
2. Deficits in developing, maintaining and understanding relationships.
3. Deficits in non-verbal communicative behaviours used for social interaction.
B. Behaviour or interests manifested by at least two of the following:
1. Highly restricted, fixated interests that are abnormal in intensity.
2. **Repetitive** or stereotyped motor movements, use of objects, or speech.
3. **Rigid** adherence to routines, or ritualised patterns of verbal or non-verbal behaviour; insistence on sameness.
4. Hyper- or hypo-reactivity to sensory input or unusual interest in sensory aspects of the environment.
C. Onset in the early **development period**.

Other mnemonics for autism spectrum disorder (ASD; modified by the author) are:

1. **AUTISTICS**.
   - Again and again (repetitive behaviour/speech)
   - Unusual (hyper or hypo) reactivity to sensory aspects
   - Toddlers (during early development)
   - Insistence on sameness, inflexible adherence to routines; Interests restricted and abnormal in intensity or focus

2. **SCARE**.
   - Social relationships and reciprocity deficits
   - Communication for social interaction poor for social interaction
   - Social communication below that expected for general development; that is, not due to intellectual disability

3. **AUTISTIC PEOPLE**.

**Attention-deficit/hyperactivity disorder (ADHD)**

Symptoms of inattention include (mnemonic: ATTENTION): six or more
- Attention difficulty
- Trouble listening to others even when spoken directly
- Tasks that require sustained mental effort are difficult
- Easily distracted
- Necessary things for tasks are lost
- To finish what he/she starts is difficult
- Is forgetful in daily activities
- Organisational skills lacking
- Not concerned about details or makes careless mistakes

Symptoms of hyperactivity and impulsivity include (mnemonic: RUN FIDGET) (developed by the author based on other mnemonic: RUN FASTT) six or more
- Runs, climbs or restless
- Uninhibited in conversation
- Not able to play quietly
- Fidgets or squirms in seat
- Interrupts or intrudes on others
- Difficulty waiting his or her turn
- Get going or acting as if driven by a motor
- Evacuates seat unexpectedly
- Talks excessively

**Other mnemonics for ADHD**

1. Inattentive symptoms: when the child is inattentive, **CALL FOR FrEd** (six of nine). Hyperactive-impulsive symptoms: with these symptoms, the child **RUNS FASTT** (six of nine).
2. Inattention: (mnemonic: SOLID); hyperactivity and impulsivity: (mnemonic: WORST FAIL).
3. You’ll need a MOAT around the classroom for the hyperactive child. Movement excess, Organisational problems, Attention problems, Talking impulsively.
4. **RAPID GIRL** for symptoms of hyperactivity and impulsivity; DETAILS OFF for symptoms of inattention.
5. **CAN’T FOCUS?** For inattentive subtype, DO I FIDGET? For hyperactive/impulsive subtype. The seven I’s of ADHD combined type.

**Schizophrenia**

- **Schizophreniform disorder**
  - HalDol disorganises speech and behaviour in cat for at least 1 day but less than 1 month’ (≥1; at least one in first three).
  - Presence of one (or more) of the following, with at least one must be 1, 2 or 3:
    1. **Hallucinations**.
    2. **Delusions**.
    3. **Disorganised speech**.
    4. **Disorganised behaviour** including catatonia.
- **Duration for at least 1 day but less than 1 month**.

**Delusional disorder**

- HalDol disorganizes speech and behavior in cat for at least 1 day but less than 1 month’ (≥1; at least one in first three).
- Presence of one (or more) of the following, with at least one must be 1, 2 or 3:
  1. **Hallucinations**.
  2. **Delusions**.
  3. **Disorganised speech**.
  4. **Disorganised behaviour** including catatonia.
  5. **Negative symptoms**.
- **Duration for at least 1 month but less than 6 months**.

**Schizophrenia**

- ‘HalDol disorganizes speech & behavior in cat negatively impairing function for 6 months’ (two of five; at least one from first three):
  - A. Same as that of schizophreniform disorder.
B. Impairment of functioning

C. Duration for at least 6 months.

Criteria A of schizophreniform disorder or schizophrenia can be remembered by the mnemonic: Delusions Herald Schizophrenic’s Bad News.19

Other mnemonics for schizophrenia that may be useful are Haldol-D, 25 A HARD CRASH 26 and HALDOL BENDER.24

Catatonia

Catatonia associated with another mental disorder (catatonia specifier):

‘G-MAN SWEEPS MineCraft’ (23 of 12)

Grimacing, Mannerism, Agitation, Negativism, Stupor, Waxy flexibility, Echolalia, Echopraxia, Posturing, Stereotypy, Mutism, Catatlepsy

Other mnemonics that may be helpful are Wired & Mired, 27 LIMP MEN 26 and A SLIME-posture.28

Bipolar and related disorders

Manic episode

An abnormal and persistent elevated, expansive or irritable mood and increased goal-directed activity or energy plus DIGFAST (three or four of seven) for 7 days. Dr William Falk at Massachusetts General Hospital developed the mnemonic DIGFAST.29-31 The term may refer to the speed with which a patient who is manic would dig a hole if put to the task, as they may appear as if ‘driven by a motor’.19

Distractibility

Indiscretion, pleasurable activities with painful consequences

Grandiosity

Flight of ideas/subjective racing thoughts

Activity increased or psychomotor agitation

Sleep need decreased

Talkativeness

Other mnemonics for the manic episode are:

DAFTSIG, 32 33 FASTPED, 34 GIDDY HIGH, 26 GRANDIOSE, 35 IE RATE DIS (emphasises bipolar disorder an IE (ie—that is) RATE DIS (order) or a disorder with variable rates of activity and thinking), 35 GIDDINESS, 36 DeTeR the HIGH (Dr Carey Gross developed it), 37 GREAT SAD, 38 DR MANIA, 29 GST PAID, 29 Grand Sex Through Impulse Distractions (from) Appropriate Pleasure.40

Hypomanic episode

FLIGHTY (The dictionary defines ‘flighty’ as frivolous, irresponsible, capricious, mercurial and volatile, words that also could describe hypomanic individuals), 41 TAD HIGH, 37 HIGH-4.42

Major depressive episode/major depressive disorder

SIG: EM CAPS (five out of nine symptoms for over 2 weeks to fulfil the definition of major depression, including either depressed mood or loss of interest). 43 That is, an individual must have a depressed mood for at least 2 weeks continuously along with four of eight depressive neurovegetative symptoms. Or an individual may have anhedonia for at least 2 weeks continuously, along with four of the other seven depressive neurovegetative symptoms (without having depressed mood as such). 44 The eight neurovegetative symptoms of depression can be remembered with the mnemonic ‘SIGECAPS’ developed by Dr Carey Gross at Massachusetts General Hospital. The mnemonic refers to a prescription one might write for a patient who is depressed and anergic—SIG: Energy CAPSules (‘sig’ is written before the directions on a prescription). 34 44

Suicidal thoughts

Interests decreased

Guilt

Energy decreased

Concentration decreased

Appetite disturbance (increased or decreased)

Psychomotor changes (agitation or retardation)

Sleep disturbance (increased or decreased)

Other mnemonics are C GASP DIE—it overcomes the problem of the two S’s (and trying to recall what they stand for) in the mnemonic SIGECAPS. Here, D represents thoughts or acts of death, 45 46 DEPRESSION, 25 47 DISGUSTED, 25 DEPRESSING, 38 SAMPLEIDS, 26 Depression Is Worth Seriously Memorizing Extremely Weighty Criteria Sorry, 32 33 Depression Is Worth Studiously Memorizing Extremely Grueling Criteria. Sorry (DIWSMEGCS), 49 DIGSPACES, 50 DEAD SWAMP, 51 SAD IMAGES, MASS FEE GAP FITS, 52 Two weeks of A SAD FACE, 52 SAD FACES, 53 IN SAD GAGES, 54 ESCAPISMS (as many patients want to escape their condition), 35 ESCAPERS. 56

Specifiers for bipolar and related disorders

With anxious distress: ‘CARLoT’ (two of five)

Concentration difficulty

Awful or apprehension

Restless

Lose control

Tense or keyed up

With mixed features: manic or hypomanic episode with mixed features: SIG E DR (three of six)

Suicidal thoughts

Interests decreased

Guilt

Energy decreased

Depressed

Retarded

Depressive episode, with mixed features: MIGFAST (three of seven): the acronym is the same as the ‘DIGFAST’ mnemonic of the manic episode with ‘D’ replaced by ‘M’.

M stands for Mood elevated and expansive.

With melancholic features: PRe MED GAP

Pleasure loss; Reactivity loss (one of two)

Three or more of six:

Morning worsening

Early morning awakening

Distinct quality of mood

Guilt

Anorexia
Psychomotor changes (agitation or retardation)
Other mnemonics that help remember the specifier for melancholic features are: ‘MELANcholic’: Morning worsening of symptoms/psychomotor agitation, retardation/early morning awakening/Mood distinct, Excessive guilt, Loss of emotional reactivity/pLeasure (one of two), Anorexia (or weight loss)/anhedonia (bestmedicalmnemonics.blogspot.com, 2011), 20 PAGER MAD, 24 MAD GRADS. 20
With atypical features: ‘RAILS’ 20

Depressive disorders
Disruptive mood dysregulation disorder
‘SITs 3 times per week, irritate others for 1 year, started before 10 years; Not diagnosed first before 6 or after 18 years, neither BIO nor MDD, exclude mania & others.’
Severe
Inconsistent Temper outbursts
3 or more times per week
Irritable mood in between observed by others
Others (parents, teachers, peers; in at least two of three settings, severe in one)
for 1 year (never without above symptoms for 3 or more consecutive months)
started before 10 years by history or observation
Not diagnosed first before 6 years or after 18 years
Neither coexist with Bipolar, Intermittent explosive, Oppositional defiant disorder nor occur exclusively during MDD
Exclude full symptom criteria of hypomania or mania lasting more than one day, or any other mental disorders (substance or medical condition induced also)

Persistent depressive disorder (dysthymia)
HE’S 2 SAD, 58 Depressed mood plus CHASE E, 59 or ACHews, 61 the rule of twos: 2 years of depressed mood, 2 of 6 neurovegetative symptoms, no more than 2 months without symptoms. 60 Six neurovegetative symptoms can be remembered by mnemonic ‘SIGECA’ (the same mnemonic for depression, except that the last two criteria (psychomotor agitation/retardation and suicidality) and interest decreased, guilt criteria replaced by low self-esteem and hopelessness, respectively). 61 DESPOND, 25 HE TAILS, 24 CHASES. 32 33

Premenstrual dysphoric disorder
‘SAIL Over CASPIan SEA 5 Times In 2 months’ (five, with one from SAIL, one from Over CASPIan)
Sad
Anxiety
Irritability
Lability
Overwhelmed or out of control
Concentration
Appetite changes
Sleep changes
Physical symptoms

Interest decreased
Anergia (energy loss)
Symptoms not an exacerbation of another disorder or attributable to effects of substance or another medical condition
5—at least five symptoms present
Times—final week before the onset of menses, improve within few days of onset, minimal in the week after menses
In—interference with work or causing distress
2 months—confirmed during at least two symptomatic menstrual cycles
Another mnemonic for premenstrual dysphoric disorder is TOUGH MENSES. 23

Anxiety disorders
Separation anxiety disorder
‘HUG PANDaS’ (three of eight for 4 weeks in children and adolescents or 6 months in adults) (A child will HUG PANDaS when he or she fears or anticipates separation of major attachment figure).
Fear or loss of an attachment figure
Untoward event that causes separation from attachment figure worry
Going out of home
Physical symptoms with anticipated separation
Alone is a big fear
Nightmares involving the theme of separation
Distress of separation
Sleeping without an attachment figure
Another mnemonic is ‘PUSH or NAGS’. 19

Specific phobia: ‘PHOBIA’
Persistent (>6 months)
Handicapping (restricted lifestyle)
Out of proportion
Beginning immediately and almost always
Intense fear or anxiety about a specific object or situation leading to
Avoidance
Other mnemonics are PHOBIA 62 and FEARED. 24

Social anxiety disorder (social phobia)
1. FEARED
Fear of social situations where exposed to possible scrutiny by others; Fears of being negatively evaluated
Exposure to the social situation almost always provokes fear or anxiety
Avoids the social situation or endured with intense fear or anxiety
Recognises that the fear is out of proportion
Exclusion of fear induced by a substance or another mental or medical disorder; Excessive/unrelated to fear of another coexisting medical condition
Distress or impairment; Duration lasting for 6 months
2. ANTI-FEAR
Almost always provoke anxiety or fear of a social situation
Negative evaluation of patient’s act or anxiety symptoms feared
• Timing: duration lasting 6 months or more
• Impairment or distress in social, occupational or other important areas of functioning
• Fear or anxiety about social situations where possible scrutiny by others
• Excessive/unrelated to fear of another coexisting medical condition; Exclusion of fear induced by a substance or another mental or medical disorder
• Avoidance of social situations or endured with intense fear or anxiety
• Recognises out of proportion
• Other mnemonics are FAINT and FEARS.

Panic disorder
1. A panic attack is an abrupt surge of intense fear or intense discomfort that reaches a peak within minutes and during which four or more of the following symptoms, remembered by the mnemonic ‘STUDENTS FEAR 3 C’s’.
   • Sweating
   • Trembling or shaking
   • Unsteadiness, dizziness, light headed or faint
   • Depersonalisation or derealisation
   • Excessive heart rate, palpitations
   • Nausea or abdominal distress
   • Tingling (numbness or paraesthesias)
   • Shortness of breath or smothering
   • Fear of dying, losing control or going crazy
   • 3 C’s: chest pain, chills, choking
   • The other criteria can be remembered by using mnemonic ‘ABCD’.
2. At least one attack followed by ≥1 month of one or both of:
   • Behaviour to avoid having panic attacks, such as avoidance of unfamiliar situations or exercise.
   • Concern or worry about the additional panic attack or their consequences.
3. Disturbance not attributable to effects of a substance or another medical or mental disorder.
   Another mnemonic for the panic attack: ABC2D2F3P2S2.32
   The other mnemonics that help remember panic disorder are CATASTROOFIES,36 SUDDENLY SCARY,25 STUDENTS,60 by visualising a patient with panic disorder clutching his chest (heart cluster), hyperventilating (breathlessness cluster), and shaking with fear (fear cluster) and screaming out ‘355! 355!’21 PANICS,86
   Panic attack specifier: same as criterion 1 of panic disorder.

Agoraphobia
A. Marked fear or anxiety about two or more of the five situations that can be remembered by the mnemonic ‘COOPE’.67
   • Crowded area
   • Open spaces
   • Outside the home
   • Public transport
   • Enclosed spaces
   • B. Other criteria remembered by mnemonic ‘PHOBIA’
   • Persistent (>6 months)
   • Handicapping (restricted lifestyle)
   • Out-of-proportion fear or anxiety
   Because of thoughts that escape or help might not be available in the event of developing panic-like symptoms or other incapacitating or embarrassing symptoms
   • Intense fear or anxiety provoked almost always with the agoraphobic situations
   • Avoidance

Generalised anxiety disorder
The criteria of generalised anxiety disorder (GAD) can be remembered by the mnemonic ‘WATCHER’ (modified by the author from the original mnemonic ‘WATCHERS’).68
   • Worry and Anxiety
   • Time for at least 6 months
   • Controlling the worry difficult
   • Handicapping
   • Exclude another mental disorder
   • Rule out worry, not due to physiological effects of a substance or another medical condition
   The symptoms associated with worry and anxiety (three or more of six) can be remembered by the mnemonics: FIRST C,32 33 MERCl-S,59 Macbeth Frets Constantly Regarding Illicit Sins (based on the idea that Macbeth had GAD before and after killing King Duncan),21 TICKES,69 BE SKIM,65 ‘Does Mr Fisc worry excessively about minor matters?’, MR FISC,76 I C REST (‘I see rest’).71
   Other mnemonics are FAINT63 and FEARS.23
   Other mnemonics for GAD that are useful are STOMACH,36 72 Worry WARTS,73 WATCHERS,68 AND I C REST,71 I’M TENSED,23 DEFICITS,26 I’M A FICKLE CASE.24

Obsessive-compulsive and related disorder
Obsessive-compulsive disorder (OCD): ‘Thoughts RIDE TIME, Acts Reduce TIME’
A. Presence of obsessions, compulsions, or both
   Obsessions: ‘Thoughts RIDE’
   1. Thoughts, urges or images that are:
      • Recurrent and persistent.
      • Intrusive and unwanted.
      • Distress (anxiety) provoking
   2. Effaced by ignoring or suppressing or neutralising with other thought or compulsion.
   Compulsions: ‘Acts Reduce’
   1. Acts, mental or behavioral, repetitively performed in response to an obsession or according to rigid rules.
   2. Reduce or prevent anxiety or distress, prevent a dreaded event.
B. Time-consuming or IMpair socio-occupational functioning.
C. Exclude being induced by a substance or another medical condition.
D. Exclude another mental disorder.
Another mnemonic for OCD: ‘REORIENT PATIENT’.

**Obsessions:**
- Recurrent and persistent thoughts, urges, images
- Experienced as intrusive and unwanted
- Often cause marked anxiety or distress
- Resist by ignoring or suppressing the thoughts or neutralise with some other thought or compulsion
- Impairing social, occupational and other areas of functioning

  - Exclude due to substance or another medical condition
  - Not related to other mental disorder
  - Time consuming

**Compulsions:**
- Performing in response to an obsession or according to rigid rules
- Acts, behavioural or mental, performed repetitively
- To prevent or reduce anxiety or distress or
- Impair social, occupational and other areas of functioning
- Exclude due to substance or another medical condition
- Not related to other mental disorder
- Time consuming
- Other mnemonics that may help remember criteria for OCD:
  1. RITUALS (obsessions require first four—RITU, compulsions next two—AL, both require last one—S), REPEATER MRS PETER (obsessions require REPEATER; compulsions require MRS; both require PETER), A BIT FORCED, RESIDENT PRISONER, RITUAL.

**Body dysmorphic disorder: ‘PAIN’**

- Preoccupation with perceived defects or flaws in physical appearance
- Acts, mental or behavioural, repetitive, in response to appearance concerns
- Impairment in socio-occupational functioning
- Not due to an eating disorder

**Hoarding disorder: ‘PILED’**

- Perceived need to save items and distress associated with discarding them results in
- Inability to discard or parting possessions regardless of their actual value
- Litter up possessions
- Exclude another medical condition or another mental disorder
- Distress or dysfunction in socio-occupational functioning

**Trichotillomania (hair-pulling disorder): ‘HAIR’**

- Hair loss, due to recurrent pulling out of one’s hair
- Attempts repeatedly to decrease or stop hair pulling
- Impairment in socio-occupational functioning or cause significant distress
- Rule out another mental or medical disorder that causes hair loss

**Excoriation (skin-picking) disorder: ‘SKIN’**

- Skin picking resulting in skin lesions

Keen to decrease or stop skin picking by repeated attempts
- Impairment in socio-occupational functioning or cause significant distress
- Not attributable to substance-induced, another medical or mental disorder.

**Trauma and stressor-related disorder**

*Reactive attachment disorder: ‘LACK in EMPATHY’*

- Limited or Absent or Changing
  - (K) Caregivers for forming stable and selective attachments
  - Induce
  - Emotionally withdrawn or inhibited behaviour by not seeking or responding to comfort when distressed and
  - Minimal social and emotional responsiveness
  - Positive affect limited
  - Appearance of episodes of unexplained irritability or sadness or fearfulness even evident during non-threatening situations
  - To exclude ASD
  - Has a developmental age of at least 9 months before 5 Years

**Disinhibited social engagement disorder: LACK IN WARING**

- Limited or Absent or Changing
  - (K) Caregivers for forming stable and selective attachments
  - Induce
  - Willingness to go off with unfamiliar adults
  - Absent or diminished checking back with an adult caregiver after venturing away, even in unfamiliar situations
  - Reduced or absent reticence in approaching or interacting with unfamiliar adults
  - Inappropriate overly familiar verbal or physical behaviour
  - Not limited to impulsivity (as in ADHD)
  - Got developmental age of at least 9 months
  - Post-traumatic stress disorder (PTSD): ‘TRAUMA’

  - Traumatic event: witnessed or experienced or occurred to dearest or exposure repeatedly to its aversive details
  - Re-experience one of following intrusion symptoms: memories, nightmares, flashbacks, psychological distress or physiological reaction to cues symbolising the traumatic event
  - Avoidance of memories, thoughts, feelings of the traumatic event or its reminders
  - Alterations in cognitions and mood negatively: forgetting, mislabelling, blaming, no positive emotions, always negative emotions, anhedonia, detachment (two of seven)
  - Unable to function or cause distress/Unattributed to a substance or another medical condition
  - Month or more of symptoms

Arousal and reactivity increased with two of the following: irritability, recklessness, hypervigilance, startling, concentration and sleep disturbances.
The subcriteria to symptom clusters of PTSD can be remembered by:

1. Intrusion symptoms: ‘R3D2’ (think Star Wars and add an ‘R’) which stands for
   Recollections, Recurring and Reactivity (physiological) in response to cues of the traumatic event; DREAMS (distressing) and Distress (psychological).
2. Avoidance, negative cognitions/mood and dissociative symptoms: ‘AFRAID’ (modified by author)
   Avoid internal or external stimuli associated with the trauma
   False cognitions (mislabelling and blaming)
   Recall difficulty
   Affect (no positive, always negative emotions)
   Interest (diminished)
   Detachment
3. Arousal symptoms: ‘SCARE’ (modified by the author)
   Sleep disturbance
   Concentration (difficulty)
   Anger (outbursts or irritability)
   Really vigilant/Reckless or self-destructive behaviour
   Exaggerated startle response
   Other mnemonics for PTSD that may help are: FIGHT, DREAMS, CRASH, PRIDE AFRAID CHAINS
   Another mnemonic for adjustment disorder: IT’S ERAA

Acute stress disorder: the subcriteria to symptom clusters of acute stress disorder can be remembered by: ‘R3D2 AFRAID SCARE’ (similar to PTSD) (presence of nine or more of the following 14 symptoms):

Intrusion symptoms:
   Recollect (memories) (1), DREAMS (distressing) (2), Recurring (flashbacks) (3), Reactivity (physiological) and Distress (psychological) in response to cues of the traumatic event (combined as 4).

Negative mood, dissociative and avoidance symptoms (cognitive symptoms removed):
   Avoid internal (5) or external (6) stimuli associated with the trauma
   (False cognitions (mislabelling and blaming) removed)
   Recall difficulty (7)
   Affect (no positive emotions) (8)
   (‘Interest diminished’ removed)
   Detachment (9).

Arousal symptoms:
   Sleep disturbance (10)
   Concentration (difficulty) (11)
   Anger (outbursts or irritability) (12)
   Really vigilant (13)
   Exaggerated startle response (14)

Adjustment disorder: ‘EMOTES’ (modified by the author)

   Emotional or behavioural symptoms within 3 months of onset of stressor(s) with
   Marked distress in excess of what would be expected from exposure to the stressor (or)
   Occupational, academic or social functioning is significantly impaired

Termination of symptoms within 6 months after termination of stressor or its consequences
Exclusion of another mental disorder or exacerbation of pre-existing mental disorder ruled out
Symptoms do not represent bereavement
Another mnemonic for adjustment disorder: IT’S BAD

Dissociative disorders

Dissociative identity disorder: ‘DID’
   Disruption of identity with two or more distinct personality states including
   Inability to recall properly traumatic events and/or everyday events or personal information
   Distress or impairment in socio-occupational functioning

Depersonalisation/derealisation disorder: ‘DREAM’ (modified by the author)

   Detachment experiences
   Reality testing intact
   Exclude other primary mental disorders
   Attributable not to a substance or another medical condition
   Marked distress caused by symptoms

Somatic symptom and related disorders

Somatic symptom disorder: the B criterion can be remembered by the mnemonic ‘TEA’.
   Thoughts: disproportionate and persistent about the seriousness of somatic symptoms
   Emotion: persistently high anxiety about health or symptoms
   Actions: excess time and energy devoted to these symptoms

Illness anxiety disorder: ‘Persistent search for any big disease’
   Preoccupation of having or acquiring an illness
   Somatic symptoms absent or of mild intensity/Significant preoccupation about the risk of developing or for an existing disease
   For at least 6 months
   Anxiety about health
   Behaviour—excessive health-related behaviours (care-seeking type) or maladaptive avoidance (care-avoidant type)
   Disturbance not better explained by another mental disorder

Conversion disorder (functional neurological symptom disorder): ‘CONVERSION’

Feeding and eating disorders

Anorexia nervosa: ‘Weight Fear Bothers Anorexics’ (modified by the author)

   Significantly low body Weight in the context of age, sex, developmental trajectory and physical health
   Fear of gaining weight or becoming fat or persistent behaviour that interferes with weight gain
   Body weight and shape are perceived in a distorted way
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Seen in Anorexics
Other mnemonics for anorexia nervosa: RAID,32 33 FLAB,25 I FEAR LARD.24

Bulimia nervosa: ‘Bulimics Over-Consuming Pastry’19 21

Recent episodes of Binge eating (at least once a week for 3 months) with a sense of

Out of control overeating

Excessive Concern with body shape and weight

Purging behaviours, such as self-induced vomiting, misuse of laxatives, diuretics, enemas, or other medications; fasting; excessive exercise

Other mnemonics that may help remember criteria for bulimia nervosa: A BINGE,24 BASTE,78 BORCEN,72 BINS,32 33 FRIDGES.25

Sleep-wake disorders
Insomnia disorder: ‘SLEEP’ (modified by the author)23

Sleep quantity or quality dissatisfaction associated with one or more of difficulty initiating, maintaining, returning back to sleep

Lasting for at least 3 months, occurring at least three times a week despite adequate opportunity for sleep, causing significant distress or impairment

Exclude this diagnosis if a disturbance occurs exclusively during the course of another sleep-wake disorder

Exclude the complaint of insomnia not being due to coexisting mental and medical disorders

Physiological effects of a substance do not attribute to insomnia

Hypersomnia disorder: ‘SLEEP LOT’ (modified by the author)23

Sleep excess despite the main sleep period lasting at least 7 hours

Lasting for at least 3 months, occurring at least three times a week, causing significant distress or impairment

Exclude this disorder if disturbance occurs exclusively during the course of another sleep disorder

Exclude the excess sleep not being due to coexisting mental and medical disorders

Physiological effects of a substance do not directly attribute to hypersomnia

The three subcriteria of criterion A can be remembered by:

Lapses into sleep recurrently within the same day or
Overcoming sleepiness and being awake is difficult after abrupt awakening or
Time spent on the main sleep episode is more than 9 hours though unrefreshing.

Narcolepsy: ‘CHES’
Cataplexy or
Hypocretin deficiency or
Evidence in sleep studies (polysomnography or multiple sleep latency test) in the presence of

Sleep attacks (recurrent daytime naps or lapses into sleep)

Mnemonics that may help in remembering the criteria and associated symptoms of narcolepsy: CHESS26 and CRASH20

Breathing-related sleep disorders
Obstructive sleep apnoea-hypopnoea
A mnemonic validated for screening obstructive sleep apnoea-hypopnoea is STOP-BANG. It is a simple, easy-to-remember and self-reportable screening tool, which includes four subjective (STOP: Snoring, Tiredness, Observed apnoea and high blood Pressure) and four demographic items (BANG: BMI, Age, Neck circumference, Gender).81 The DSM V criteria and associated features can be remembered by this mnemonic.

Parasomnias
Non-rapid eye movement sleep arousal disorders
‘Forgets or recalls little of incomplete awakening happened while walking or shouting during the first third of sleep’.

Forgets (amnesia of) the episodes
Recalls little of dream imagery during episodes of
Incomplete awakening from sleep presenting as
Sleepwalking or
Shouting (sleep terrors)
During the first third of sleep
Restless legs syndrome: ‘URGE’82
Urge to move
Rest induced
Gets better with activity and
Evening and night accentuation

Disruptive, impulse control and conduct disorders
Oppositional defiant disorder
When children and adolescents are oppositional and defiant, they act like ‘REAL BADS’19 (four of eight symptoms within the last 6 months).

Resentful
Easily annoyed
Argues with adults
Loses temper
Blames others for his or her misbehaviour
Annoys people deliberately
Defies rules or requests
Spiteful

Conduct disorder
The behaviours of conduct disorder are ‘BAD FOR A BUSINESS’19 (three of the following 15 criteria in the past 12 months, with at least one present in the past 6 months)

Bullying
Animal cruelty
Destroying others’ property
Fighting
Out late at night
Running away from home
Actively forcing sex
Being cruel to people
Using a weapon
Setting fires
Into someone’s house, building or car
Not going to school
Everyday lying or conning others
Stealing while confronting a victim
Stealing without confronting a victim
The four categories of criteria for conduct disorder can be remembered by the mnemonic ‘TRAP’. 83
Theft—breaking and entering, deceiving, non-confrontational stealing
Rule breaking—running away, skipping school, out late
Aggression—people, animals, weapons, forced sex
Property destruction
Another mnemonic that may be helpful is DDAVP.24

Substance-related and addictive disorders
Substance use disorders
‘Haphazard knowledge of or failure to control problems in activities urges excess tolerance with time’
Hazardous use
Use despite knowledge of having a persistent or recurrent physical or psychological problem caused or exacerbated by the substance
Failure to fulfill major role obligations at work, school or home
Persistent desire to cut down or control substance use and report multiple unsuccessful efforts to decrease or discontinue use
Use despite social or interpersonal problems caused or exacerbated by the substance
Important social, occupational or recreational activities given up or reduced
Intense urge or desire for the drug (craving)
Taking in excess amounts or over a longer period than was originally intended
Tolerance
Withdrawal
A great deal of time is spent for obtaining or using the substance or recovering from its effects
Another mnemonic is: ‘WITHDRAW THE substance’. Work, school or home obligation failures
Interpersonal or social consequences
Time spent too much for obtaining, using or recovering from effects of substance
Hazardous use
Desire for the drug
Reinstatement
Activities (important or recreational) given up
Withdrawal
Tolerance
Harmful use
Exceed the intended amount or time
Other mnemonics available for remembering DSM V criteria are:
1. The Wise Know: Decline Tender Loving Care And Respect Silver Hair. 84
2. ‘CHEW THAT COP’. 85
Other mnemonics that may aid in remembering the criteria of substance dependence in the Text Revision of Fourth Edition of DSM (DSM IV-TR) are ADDICTD, 86 WHATCAT, 87 WE are unable TO CUT our drinking, 88 Tempted With Cognac, 21 ROLAID PUPILS, 24 PEWTERR, 89 TWO 6 PACK, 90 Won’t Resist Imbibing and Seeks Tipple Every Night, 91 I DRANK MORE. 23 The behavioural patterns of compulsive substance use that is characteristic of dependence in DSM IV-TR can be remembered by the mnemonic ‘TEACH’. 92 The criteria for substance abuse in DSM IV-TR can be remembered by the mnemonics: CLOD, 95 WILD, 89 FOLD, 87 ‘When alcohol takes HOLD of you’, 88 DRiNK, 90 FAILS. 23 The DSM V criteria for substance use disorder are a combination of DSM IV-TR dependence and abuse criteria, with the ‘craving’ criterion added and ‘legal consequences’ criterion removed.93 The mnemonics ‘WILD PEWTERR’ 89 and ‘DRiNK TWO 6 PACK’ 90 represent this combination.

Alcohol intoxication
The six features from criterion C can be remembered by the mnemonic: SAM’S GIN.94

Alcohol withdrawal
The eight features of criterion B can be recalled using the mnemonic: PAST NITE. 94

Cannabis intoxication
The four features in criterion C can be recalled by the mnemonic: MEAT.94

Phencyclidine intoxication
At least two of eight features from criterion C develop within an hour of phencyclidine use. These eight features can be recalled by the mnemonic: MAP STAND.94

Other hallucinogen intoxication
Criterion D can be recalled using the mnemonic: DISTORT.94

Inhalant intoxication
The 13 criterion C features can be recalled using the mnemonic: DISRUPTS GLOBE.94

Opioid intoxication
Pupillary constriction (or dilation following an overdose) is present along with one of three features from criterion C. These three features of criterion C can be recalled by the mnemonic SAD.94

Opioid withdrawal
These nine features from criterion B can be recalled by the mnemonic: ARMY FINDS (as in a possible headline: Army finds Opioid Withdrawal In Troops). 94

Sedative, hypnotic or anxiolytic intoxication
The six features from criterion C can be remembered by mnemonic: SAM’S GIN.94

Sedative, hypnotic or anxiolytic withdrawal
The eight features of criterion B can be recalled using the mnemonic: PAST NITE (as in an individual who is experiencing symptoms of withdrawal from decreased intake over the past several nights).94
### Neurocognitive disorders

#### Delirium: ‘4A and 3C’

Disturbance in Attention and Awareness
- Abrupt or acute onset with alteration in severity during the course of a day
- Cognitive disturbance
- Consequence of another medical condition or substance related
- Can’t explained by another neurocognitive disorder or comorbid condition

Another mnemonic that may help in remembering the diagnostic criteria is ‘Medical FRAT’.21

Mnemonics that may aid in remembering the criteria and supporting features of delirium are:
- DELIRIUM, PHYSICAL, ‘C’, DIPPS, FEELS SPACED, CCCC.38, 72

#### Major and mild neurocognitive disorder

The neurocognitive domains can be remembered using the mnemonic SAMPLE.
- Social cognition
- Attention
- Memory and learning
- Perceptual motor
- Language
- Executive function

#### Major neurocognitive disorder: ‘DIRE’

Decline from a previous level of performance in one or more cognitive domains
- Interferes with independence in everyday activities
- Rule out delirium
- Exclude another mental disorder
- Another mnemonic that may be helpful: DEMENTIA.95

### Personality disorders

#### General personality disorder: ‘AIM COIN As Per Distance’

An enduring pattern of inner experience and behaviour that deviates markedly from the expectations of the individual’s culture. Manifested in two (or more) of the following areas:
- Affectivity
- Impulse control
- Cognition
- Interpersonal functioning
- Adolescence or early adulthood onset
- Pervasive and inflexible across a broad range of personal and social situations

### Distress or impairment in social, occupational or other important areas of functioning

#### Cluster A personality disorders

- Paranoid personality disorder: SUSPECT, GET FACT
- Schizoid personality disorder: DISTANT
- Schizotypal personality disorder: ME PECULIAR

#### Cluster B personality disorders

- Antisocial personality disorder: CORRUPT, CALL ASPD
- Borderline personality disorder: AM SUICIDE, DESPAIRER, DISTURBED, BIAS IRA, I RAISED A PAIN, I DESPAIR, I DESPAIRR, PRAISE, IMPULSIVE, ARISES MAD, LABILITY, I’M A SAP (criticised as being stigmatic), DARE
- Histrionic personality disorder: PRAISE ME
- Narcissistic personality disorder: SPE, CIA, GRANDIOSE, SELF-IMPORT, A FAME GAME

#### Cluster C personality disorders

- Avoidant personality disorder: CRINGES, RESERVED, RIDICULE
- Dependent personality disorder: RELIANCE, DEPENDENT, DARN HUT, FEARS
- Obsessive-compulsive personality disorder: LAW FIRMS, SCRIMPER, COMPULSIVE, PERFECTION, LOW MIRTH

The mnemonics of individual personality disorders are only enumerated without description, as most of them are described together in the provided references.

### Medication-induced movement disorders and other adverse effects of medication

- Neuroleptic-induced parkinsonism: the mnemonic ‘TRAP’ (tremor at rest, rigidity, akinesia and bradykinesia, and postural instability) used for describing cardinal features of parkinsonism can also be used for remembering the criteria of this disorder.106
- Neuroleptic malignant syndrome (NMS): the mnemonic FEVER (Fever, Encephalopathy, Vital sign unstable, Enzyme elevation, Rigidity) can help identify clinical and laboratory NMS markers in patients.107 Another mnemonic that aids in remembering the criteria of NMS is: RECTAL.108
- Antidepressant discontinuation syndrome: FINISH.

### DISCUSSION

The objective of this review is to scope the field and to summarise the mnemonics as presented across articles rather than to synthesise or distil the articles to make a qualitative meta-synthesis. Any memory-improving strategy can be termed a mnemonic strategy.

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Main findings
Mnemonics usage in psychiatry started as it moved towards the medical model with more emphasis placed on making diagnostic criteria. The use of diagnostic criteria started with DSM III and its revision classifications, as the diagnosis of mental disorders moved towards an atheoretical, descriptive approach. This approach led to the practical problem of recalling a large number of complex criteria by clinicians, especially by the primary care physicians. To overcome this problem and in search of tools that assist in recalling these criteria, clinicians started developing and publishing mnemonics in journals and chapters in the textbooks. The use of mnemonics helps in screening or recognising various disorders and may avoid misdiagnosis or delay in accurate diagnosis.

They were also reported as being developed or modified by some authors, largely as an outcome of several years of experience in teaching psychiatry and medical students. Most of the mnemonics are related in some way to the disorder itself, facilitating easy recall. The students may use them for their training and completion of certification examinations. Some mnemonics were developed or modified to overcome the limitations of certain previous mnemonics that are phonologically, heuristically and aesthetically less than ideal for meaningful assimilation and practical application.

One of the mnemonics published was criticised for being stigmatic. Similarly, disagreement had arisen over the possession of mnemonics and resolved.

Strengths and limitations
There are many sources of mnemonics for the diagnostic criteria and can be time consuming to go through many phrases from different sources for the same condition. Little work was done until now in the systematic compilation of these mnemonics. This was further restricted to selected topics like DSM IV personality or substance use disorders or description of a single mnemonic for each major psychiatric disorder.

The recently published fifth edition of the American Psychiatric Association’s DSM V largely continues the previous edition’s criterion-based descriptive approach. To date, this is the first review that gathered almost all the available acrostic sentences and acronyms that aid in remembering diagnostic criteria of most of the psychiatric disorders in DSM V. Electronic search for the mnemonics may miss some of the mnemonics that were described in the older books or journals not available online. Some original mnemonics are modified by the author to cater to the changed criteria of some of the disorders in DSM V. These are intended to be used in conjunction with DSM V classification and not a substitute for it.

Future recommendations
There is a need to validate the usefulness of mnemonics for remembering the criteria of psychiatric disorders. A survey can be conducted on clinicians, academicians and students about their previous or current mnemonic usage in clinical practice or in preparation for exams. A single or group of mnemonics can be provided to them and assess their perceived helpfulness. Reliability and validity indices of the usefulness of a specific mnemonic or preference of a particular mnemonic over others for a specific disorder can be found. Additionally, a study that compares the clinical or learning outcomes between those who were exposed to mnemonics and those who were not can be carried out. Further, the mnemonics that aid in the treatment of psychiatric disorders need to be reviewed and validated as well.

Implications
Despite several studies showing the effectiveness of mnemonic strategies, these remain the least frequently used formal memory aid in medical practice. The present compilation helps the clinicians or the students memorise a mnemonic for a particular DSM mental disorder that is fascinating for them. They can further create their mnemonics as one’s own mnemonics are often the best and, therefore, more memorable. They can also experiment with other types of mnemonics such as picmonics, rhymes and peg words that are not described in the present review.

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Correction: Mnemonics for diagnostic criteria of DSM V mental disorders: a scoping review


In this paper, all instances of ‘DSM V’ should be written as ‘DSM 5’.

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