Neurocognitive Disorders of the DSM-5

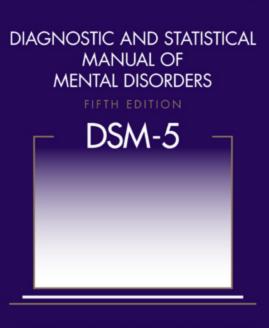
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Speakers

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AMERICAN PSYCHIATRIC ASSOCIATION



Neurocognitive Disorders

- Delirium
- Major and Mild Neurocognitive Disorder (NCD)

Neurocognitive Disorders (NCD)

- Primarily <u>COGNITIVE</u> disorders
- <u>Acquired</u> and represent <u>decline</u> (i.e. not developmental)

Neurocognitive Disorders

- Primarily <u>COGNITIVE</u> disorders
- <u>Acquired</u> and represent <u>decline</u> (i.e. not developmental)
- Underlying brain pathology
 - For degenerative disorders monitor consensus guidelines in addition to DSM 5

Updates on Neurocognitive Disorders????

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NO

We can still be Updates on Dementia

Neurocognitive Disorders (NCD) vs. Dementia

 Dementia typically refers to degenerative d/o in elderly

Neurocognitive Disorders (NCD) vs. Dementia

- Dementia typically refers to degenerative d/o in elderly
- DSM expands category to d/o of younger
 - E.g. HIV, traumatic brain injury

Major and Mild Neurocognitive Disorders (NCD)

Major NCD

- Significant Cognitive Decline
- Interfere with independence
- Not due to delirium
- Not due to other mental disorder

Major NCD vs. Dementia

- Can be single domain
 - E.g. Amnestic
 - Exception: Major NCD due to Alzheimer's disease.

Major NCD

- Significant Cognitive Decline
- Interfere with independence
- Not due to delirium
- Not due to other mental disorder

Mild NCD

- Moderate Cognitive Decline
- <u>NOT</u> Interfere with independence
- Not due to delirium
- Not due to other mental disorder

Mild NCD

- Like mild cognitive impairment
- Previously:

Cognitive Disorder Not Otherwise Specified

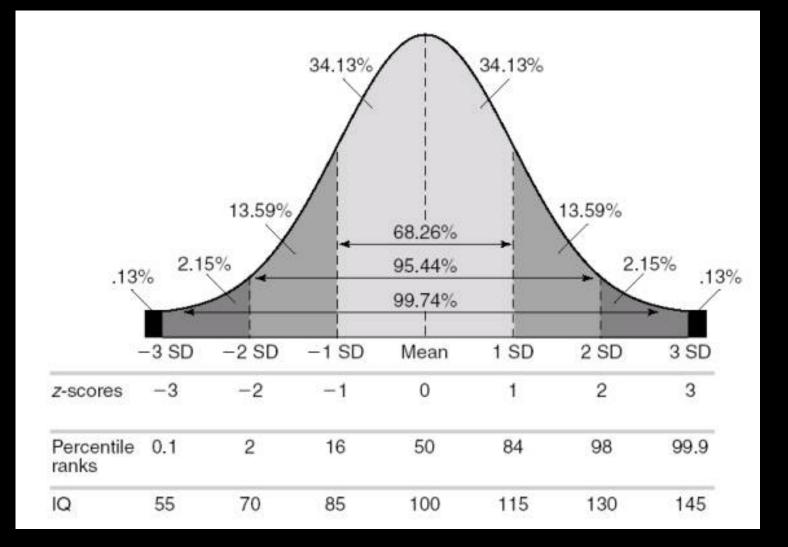
Major and Mild Neurocognitive Disorders

Cognition: Psychometric Definition

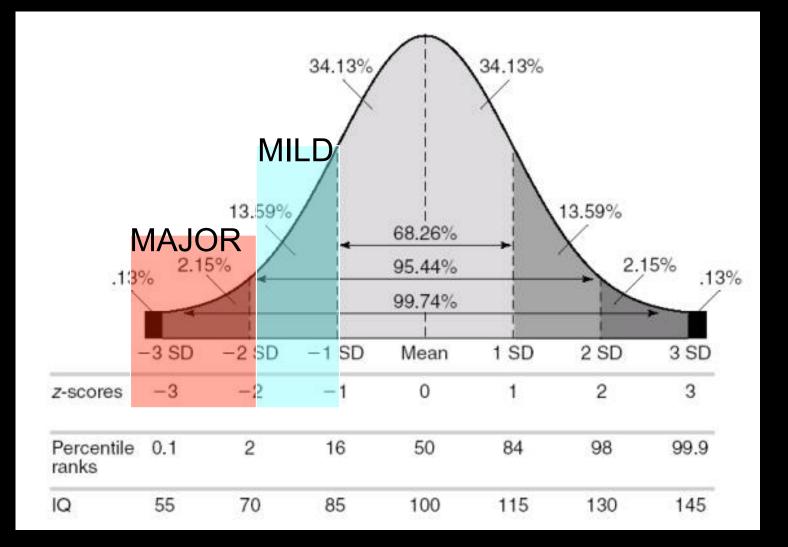
Mild vs Major NCD Cognitive Testing

- Mild: 1–2 standard deviation (SD) range (between the 3rd and 16th percentiles)
- Major: Below 2 SD or 3rd percentile

Test Scores



Test Scores



Mild vs Major NCD Cognitive Testing

- Mild: 1–2 standard deviation (SD) range (between the 3rd and 16th percentiles)
- Major: Below 2 SD or 3rd percentile
- These should not be rigidly used! Consider premorbid level, sensitivity of tests etc.
- Major and Mild exist on a continuum

Cognitive domains specified

DSM-5:

- Complex attention
- Executive function
- Learning & memory
- Language
- Perceptual-motor
- Social cognition

DSM-IV:

- Memory impairment
- Aphasia
- Apraxia
- Agnosia
- Executive dysfunction

Other Descriptors

- Possible vs Probable
- Behavioral Disturbance:
 - With: e.g. psychosis, mood, agitation
 - Without (not clinically significant)
- Severity (level of disability)
 - Mild: Instrumental ADL's are preserved
 - Moderate: Basic ADL's affected
 - Severe: Fully dependent

Types of Neurocognitive Disorders

- Delirium
- Major and Mild Neurocognitive Disorder (NCD)

Major and Mild Neurocognitive Disorder (NCD)

NCD due to: Alzheimer's disease Vascular disease Traumatic Brain Injury Lewy body disease (several others)

Other NCDs

Neurocognitive Disorders of the DSM-5

Neurocognitive Disorders of the DSM-5

Delirium Traumatic Brain Injury

Maya Yutsis, PhD

Clinical Neuropsychologist Polytrauma Transitional Rehabilitation Program VA Palo Alto Health Care System Delirium

Differential Diagnosis of Delirium

- Major Neurocognitive Disorder
- Delirium due to a General Medical Condition
- Substance Intoxication Delirium
- Substance Withdrawal Delirium
- Delirium due to Multiple Etiologies
- Delirium NOS

Delirium Differs from other NCD

- Rapid Onset in hours to days
- Linked to Medical Condition, Substance Intoxication/Withdrawal, Medications, other causes
- May resolve completely
- Symptom length:
 - Acute- hours to days
 - Persistent-weeks to months

Delirium Diagnostic Criteria

- Key Features: Rapid and Abrupt onset of:
 - Impaired Attention
 - Lack of Awareness of environment
- Change in at least ONE Cognitive Domain:
 - Recent Memory
 - Orientation
 - Language (i.e. rambled speech, mumbling, difficult to understand)
 - Perceptual Disturbance
- Associated Features
 - Change in sleep-wake cycle
 - Change in emotional states
 - Worsening of behavioral problems in the evening

NCD due to Traumatic Brain Injury

Mild NCD due to TBI

- Mild NCD
 - Cognition: 3-16 %ile
 - Functional Independence: Mild decline but not impaired*
- Onset: Medically documented history of TBI
 - (at least 1 of the criteria):
 - Loss of consciousness
 - Post-traumatic amnesia
 - Confused and disoriented immediately after the event
 - Neurological/Neuroimaging evidence, not required
- Symptom Course
 - Immediate onset following TBI or after recovering consciousness
 - Persist past acute post-injury periord
 - Any cognitive domain involvement
 - Recovery Trajectory: partial or complete
 - Weeks to months

*may need assistance but not fully dependent on others

Major NCD due to TBI

- Major NCD
 - Cognition: <3%ile</p>
 - Functional Independence: Impaired
- Onset: Medically documented history of TBI
 - (at least 1 of the criteria):
 - Loss of consciousness
 - Post-traumatic amnesia
 - Confused and disoriented immediately after the event
 - Neurological/Neuroimaging evidence, IS required
- Symptom Course
 - Immediate onset following TBI or after recovering consciousness
 - Persist past acute post-injury periord
 - Any cognitive domain involvement
 - Recovery Trajectory: partial or complete
 - Weeks to months

Neurocognitive Disorders of the DSM-5

NCD Associated with Lewy Body Disease

Allyson Rosen, PhD, ABPP-Cn

NCD due to LBD

- NCD
- Onset: Insidious
- Core symptoms
 - Fluctuating cognition/attention/alertness
 - Visual hallucinations-well formed and detailed
 - Parkinsonian movement develops 1 year AFTER cognitive impairment
- Suggestive features
 - Rapid eye movement (REM) sleep disorder
 - Neuroleptic sensitivity

Key Issues in NCD due to LBD

- Neuroleptic Sensitivity
 - Worsening of movement disorder and impaired consciousness
- Onset:
 - Major NCD BEFORE motor (vs. Parkinson's)
- Probable/Possible
 - Differ in number of core and suggestive features
- Fluctuations: Existing measures

- e.g. Ferman et al., 2004; Walker et al., 2000

Beyond DSM 5

 McKeith, I. G., Dickson, D. W., Lowe, J., Emre, M., O'Brien, J. T., Feldman, H. et al. (2005). Diagnosis and management of dementia with Lewy bodies: third report of the DLB Consortium. *Neurology*, 65(12), 1863-1872.

Neurocognitive Disorders of the DSM-5: Alzheimer's Disease

Brian Yochim, PhD, ABPP

Clinical Neuropsychologist Mental Illness Research, Education, and Clinical Center (MIRECC) VA Palo Alto Health Care System Clinical Assistant Professor (Affiliated) Department of Psychiatry and Behavioral Sciences Stanford University School of Medicine Major or Mild NCD due to Alzheimer's disease (AD)

- Insidious onset & gradual progression
- Major NCD: 2 or more cognitive domains impaired (unlike other Major NCDs) + impaired IADLs
- Mild NCD: 1 or more cognitive domains impaired, IADLs intact

"Probable" vs. "Possible": AD genetic mutation

- "Probable" vs. "Possible" are differentiated in part by presence of Alzheimer's disease gene.
- This can be from family history or formal genetic testing.

Major NCD due to AD

- Probable AD: either one must be present:
- Evidence of AD genetic mutation, or
- All 3 of the following:
 - Impairment in memory + 1 other domain
 - Progressive, gradual decline
 - No other possible etiology

Otherwise, Possible AD is diagnosed

Mild NCD due to AD

- Probable AD: requires evidence of Alzheimer's gene.
- Possible AD: no evidence of AD gene, but all 3 of these factors exist:
 - Decline in memory & learning
 - Progressive, gradual decline
 - No evidence of other etiologies.

Beyond DSM 5: MCI Reference

American Academy of Clinical Neuropsychology



Mild Cognitive Impairment and Dementia

Definitions, Diagnosis, and Treatment

Glenn E. Smith Mark W. Bondi



Oxford Workshop Series