



# **UDSv4: New Scientific Content Importance of Standardization**

**Greg Jicha, MD-PhD**

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**NACC Session, October 20, Fall 2023 ADRC Meeting**

# Advancing the ADRD Field with UDSv4

## ADRD-Disease Modifying Drugs

### Form A4a: ADRD-Specific Treatments



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## Social Determinants of Health

### A1a: Social Determinants of Health

One-time mandatory form



# Advancing the ADRD Field with UDSv4

## ADRD-Disease Modifying Drugs

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## New Concepts

- **Subjective Cognitive Decline**
- **Mild Behavioral Impairment**
- **Addition of the new verbal learning test**

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## ADRD-Disease Modifying Drugs

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## New Concepts

- **Subjective Cognitive Decline**
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## More Inclusive

- **More inclusive gender and sexual orientation questions**
- **Captures multi-racial identity**

# Fostering Inclusion

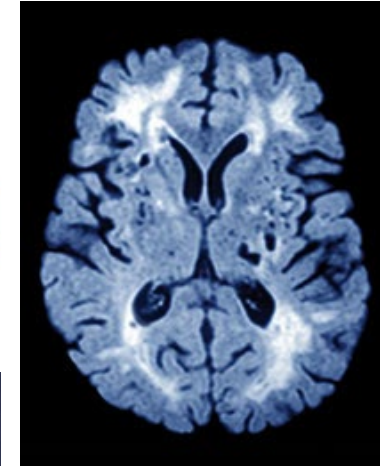
UDSv4 Chinese  
and Spanish  
translations





# Expanded Health History (Form A5)

- TBI
- Cardiovascular risks
  - also Form B1 Vitals/anthropometrics
- Cancer risks and treatments
- Substance use/abuse
- DSM-5 psychiatric designations (minor & major)
- All allow chronic disease scale scores to be calculated
  - Charlson Index, Framingham Risk scores,...etc.)



## CHRONIC DISEASES IN AMERICA

6 IN 10

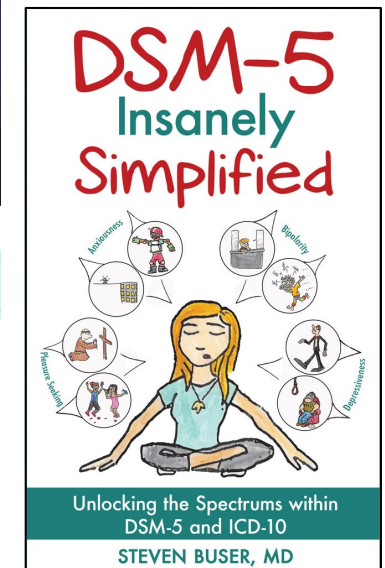
Adults in the US have a chronic disease



4 IN 10

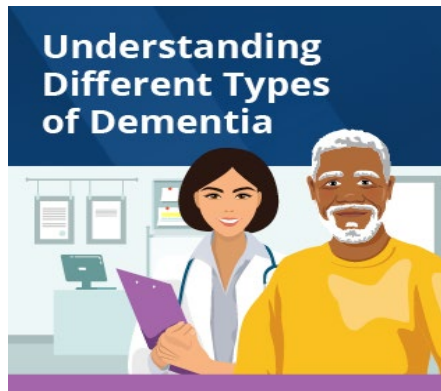
Adults in the US have two or more

THE LEADING CAUSES OF DEATH AND DISABILITY and Leading Drivers of the Nation's \$4.1 Trillion in Annual Health Care Costs



# B8/B9- Neurologic Exam & Clinician Impressions

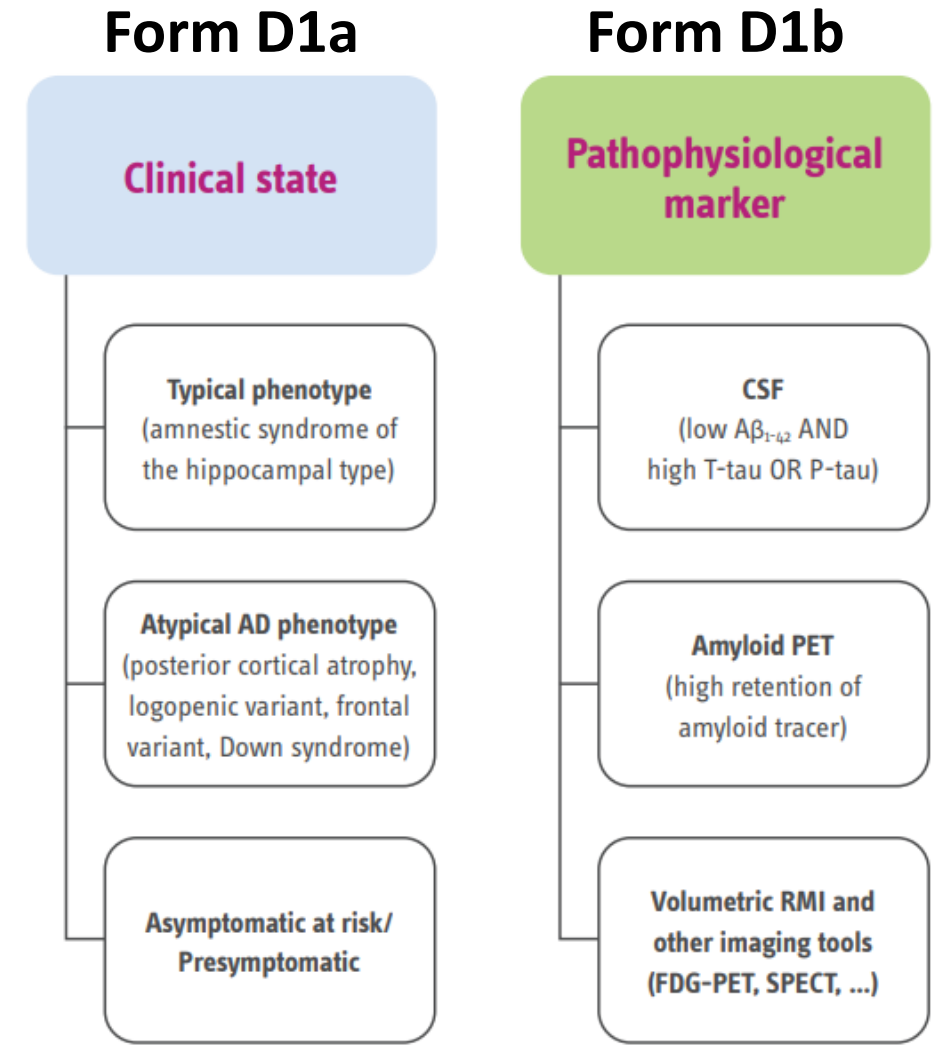
- Expanded to incorporate full range of neurodegenerative disease states
- Increased focus on non-cognitive symptoms
- Enhanced appreciation of behavioral & neuropsychiatric symptoms





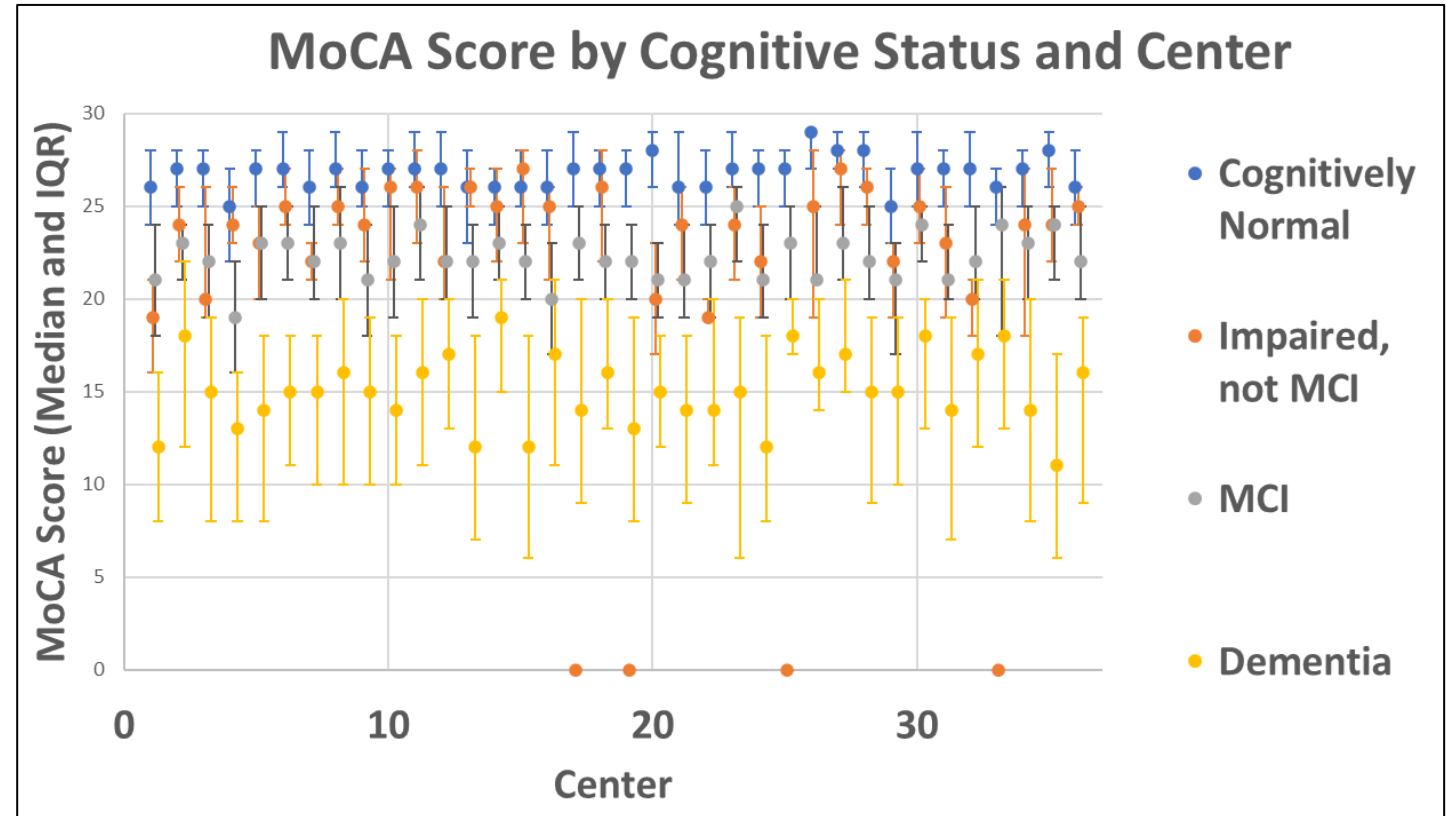
# D1-Diagnosis Form

- Split to include:
  - D1a-Clinical diagnosis
  - D1b-biologic attribution
- Allows new criteria to be analyzed systematically
- Eliminates clinical-biologic confounds that confuse research
- Incorporates DSM-5 concepts and broadens to be more inclusive of the range of pathologies and biomarkers
  - Current and future looking approach



# Standardizing Diagnoses Across Centers

- Normal mean score range (24-28)
- MCI mean score range (20-24)
- Dementia mean score range (12-16)
- The between center variation is likely due to population studied



**Impaired other is a mixed bag, with mean center MoCA ranging from 18 to 25**

- Some use this for designating lifelong cognitive impairment (i.e. adult Down Syndrome)
- Some use it for MCI/dementia due to non-degenerative or vascular conditions

# Impaired Other is Now Being Better Attributed

- This will allow better science into our understanding of pre-existing cognitive states & non-classical forms of dementia
- Let's turn this waste basket diagnosis into something that works!



**Thank you!**







# Connect with Dr. Jicha

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