



COVID update: Initial experience with remote assessment using the UDS3 T/V-Cog

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Background

- In-person visits restricted in 100% of ADRCs as of 3/20
- Restrictions currently loosened for many ADRCs, but likely to persist in some form
- Need to retain and continue to characterize participants unable/unwilling to conduct in person visits
- Pre-existing need for remote assessment tool
- UDS3 Telephone/Video Cognitive Battery (USD3 T/V-Cog) version 1.0 developed in 5/20, then distributed by NACC with lightning speed by 6/20

UDS3 Cognitive Battery	UDS3 T/V-Cog (Core)	UDS3 T/V-Cog (Core + Optional)
MoCA	X	MoCA-Blind/Telephone (Wittich et al., 2010)
Craft Story	Craft Story	Craft Story
Benson Complex Figure	X	RAVLT (Rey, 1964)
Number Span	Number Span	Number Span
Category/Phonemic Fluency	Category/Phonemic Fluency	Category/Phonemic Fluency
Trail Making Test A & B	X	Oral Trail Making Test (Ricker & Axelrod, 1994)
Multilingual Naming Test	X	Verbal Naming Test (Yochim et al., 2015)
Geriatric Depression Scale	Geriatric Depression Scale	Geriatric Depression Scale

USD3 T/V-Cog Update

- To date, 150 USD3 T/V-Cog packets submitted to NACC by 6 Centers
- Procedures in place for response to queries via CTF and NACC
- Spanish translation imminent
- Wake Forest ADRC USD3 T/V-Cog pilot for subsequent inter-ADRC validation study in progress
- Pilot design
 - UDS3 T/V-Cog administered to ~100 participants within 6 mos of in-person UDS3
 - Equal numbers of cognitively normal and MCI; all possible participants w/dementia
 - Stratified randomization to four groups:
 - Short battery / telephone
 - Long battery / telephone
 - Short battery / video
 - Long battery / video
- Since July, 57 participants approached; 5 refusals (2 CN, 3 dementia), 52 completed

USD3 T/V-Cog Update

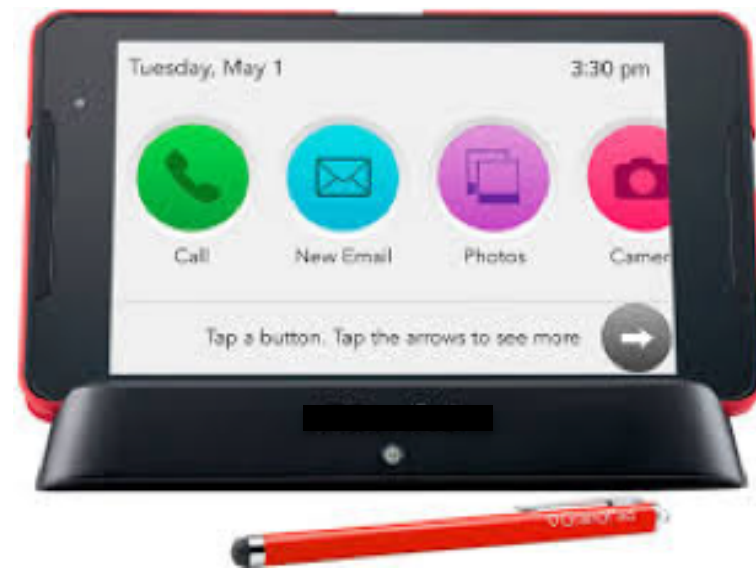
Feasibility/validity to date:

- 51/52 completed batteries judged as valid
- 1 invalid battery (hearing)
- 3/52 batteries w/tech issues (call/video drop) but still valid

Initial impressions:

- Video is preferable to phone
 - Better interaction
 - Better monitoring of participant and environment to ensure validity
 - Will allow future incorporation of tests with visual stimuli
- Drawbacks of video approach
 - Less feasible for participants with dementia?
 - Availability of technology
 - Availability of connectivity
- Possible solution: commercially available tablet for older adults
 - Simplified interface
 - Zoom-enabled
 - Built-in connectivity
 - Initial pilot testing successful; discussions in progress with company for inter-ADRC study

	NC	MCI	DEM	Total
Tel/Short	6	6	2	14
Tel/Long	5	7	2	14
Video/Short	8	1	1	10
Video/Long	7	5	1	13
Total	26	19	7	52



USD3 T/V-Cog Update

Initial impressions continued:

- Can T/V-Cog provide a reliable cognitive diagnosis for Research Framework and NACC specifications? Yes
- Can T/V-Cog data be used for research questions? Yes
- Can T/V-Cog data be combined with in-person UDS3 data for research questions? To be determined in upcoming validation study

Next steps:

- Wake Forest ADRC T/V-Cog Pilot study completion: mid-November
- Results used to design inter-ADRC validation study for March submission
- Refine battery
 - Remove any problematic tests
 - Inclusion of visual tests for video format
- Determine interest in participation from other Centers
- **Questions for discussion:**
 - What information can help Centers decide whether/when to use T/V-Cog?
 - Comments from ADRCs that have used T/V-Cog?

With gratitude!

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