CTF-NACC
UDSv4 Update
Cognitive Battery Update and Assessment of Subjective and Study Partner Cognitive Concerns

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CTF Cognitive Working Group
ADRC Meeting, October 21, 2022
UDS4 Cognitive Battery Update

• Continue with UD3 cognitive battery
  • Added a word list memory test (immediate and delayed)
  • Centers have a choice of R-AVLT or CERAD
  • Will also include a recognition test for each
  • Working on test order with addition of new word list test

• Digital speech capture encouraged for all centers
  • Completed manual of instructions with details about recording and storage;
  • Details for sending audio files to NACC will be forthcoming

• Video-cog validation study underway at Wake Forest
Cognitive Concerns: Questions to be added to UDSv4

(1) Do you feel like your memory is becoming worse?
Response choices: “no,” “yes, but this does not worry me,” or “yes, this worries me”
Sources for item 1: Geerlings et al 1999; Jessen et al 2010

(2) How often do you have trouble remembering things?
Coded as 1=never, 2=rarely, 3=sometimes, 4=often, 5=very often

(3) Compared to 10 years ago, how would you rate your memory?
Coded as 1=much better, 2=little better, 3=same, 4=little worse, 5=much worse

Sources for items 2-3: Barnes et al 2006; Arvanitakis et al 2018
• The sum of the two scores is a memory score, classified as memory complaints if 8 to 10
• Sample for items 2-3 included Black and White participants, with and without dementia

Sources:


Recommended Cognitive Concern Scales (Optional)

The CTF recommends administering the self and informant/study partner versions of either:

1. **Everyday Cognition (ECog) – 39 items (~8-10 minutes)**
2. **Cognitive Change Index (CCI) – 20 items (~4-5 minutes)**

- Item level data capture to NACC
- Rationale: Two most frequently employed cognitive rating scales across ADRCs / Coverage of other domains
- ECog and CCI scores can be harmonized with a crosswalk table available (Wells et al 2022)
- Both have short and revised/expanded versions available but listing original version here and there may be further guidance on specific forms

References:


Everyday Cognition (Ecog) – 39 items

Compared to 10 years ago, has there been any change in...

Response options: Better or no change, Questionable or occasional problems, Consistently a little worse, Consistently much Worse, Don’t know

Memory
1. Remembering a few shopping items without a list.
2. Remembering things that happened recently (such as recent outings, events in the news).
3. Recalling conversations a few days later.
4. Remembering where I have placed objects.
5. Repeating stories and/or questions.
6. Remembering the current date or day of the week.
7. Remembering I have already told someone something.
8. Remembering appointments, meetings, or engagements.

Language
1. Forgetting the names of objects.
2. Verbally giving instructions to others.
3. Finding the right words to use in a conversation.
5. Following a story in a book or on TV.
6. Understanding the point of what other people are trying to say.
7. Remembering the meaning of common words.
8. Describing a program I have watched on TV.
9. Understanding spoken directions or instructions.
Everyday Cognition (Ecog) – 39 items

Visual-spatial and Perceptual Abilities
1. Following a map to find a new location.
2. Reading a map and helping with directions when someone else is driving.
3. Finding my car in a parking lot.
4. Finding the way back to a meeting spot in the mall or other location.
5. Finding my way around a familiar neighborhood.
6. Finding my way around a familiar store.
7. Finding my way around a house visited many times.

Executive Functioning: Planning
1. Planning the sequence of stops on a shopping trip.
2. The ability to anticipate weather changes and plan accordingly (i.e. bring a coat or umbrella).
3. Developing a schedule in advance of anticipated events.
4. Thinking things through before acting.
5. Thinking ahead.

Executive Functioning: Organization
1. Keeping living and work space organized.
2. Balancing the checkbook without error.
4. Prioritizing tasks by importance.
5. Keeping mail and papers organized.
6. Using an organized strategy to manage a medication schedule involving multiple medications.

Executive Functioning: Divided Attention
1. The ability to do two things at once.
2. Returning to a task after being interrupted.
3. The ability to concentrate on a task without being distracted by external things in the environment.
4. Cooking or working and talking at the same time.
Cognitive Change Index (CCI) – 20 items

Circle the number that best fits your current ability level compared to 5 years ago, using the scale from 1 to 5 below. Select the best choice for each item and **please do not skip any questions:**

<table>
<thead>
<tr>
<th>Normal Ability</th>
<th>Slight/Occasional Problem</th>
<th>Mild Problem</th>
<th>Moderate Problem</th>
<th>Severe Problem</th>
</tr>
</thead>
<tbody>
<tr>
<td>No Change (compared to 5 years ago)</td>
<td>Minimal Change (compared to 5 years ago)</td>
<td>Some Change (compared to 5 years ago)</td>
<td>Clearly Noticeable Change (compared to 5 years ago)</td>
<td>Much Worse (compared to 5 years ago)</td>
</tr>
<tr>
<td>1</td>
<td>2</td>
<td>3</td>
<td>4</td>
<td>5</td>
</tr>
</tbody>
</table>

- Recalling information when I really try
- Remembering names and faces of new people I meet
- Remembering things that have happened recently
- Recalling conversations a few days later
- Remembering where things are usually kept
- Remembering new information told to me
- Remembering where I placed familiar objects
- Remembering what I intended to do
- Remembering names of family members and friends
- Remembering without notes and reminders
- People who know me would find that my memory is
- Remembering things compared to my age group
- Making decisions about everyday matters
- Reasoning through a complicated problem
- Focusing on goals and carrying out a plan
- Shifting easily from one activity to the next
- Organizing my daily activities
- Understanding conversations
- Expressing myself when speaking
- Following a story in a book, movie or TV
Thank you!
The CTF Cognitive Workgroup

Lisa Barnes & Andy Saykin (co-chairs), Rhoda Au, Suzanne Craft, Mary Sano, Sandra Weintraub
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Questions/Discussion