

Long Life Family Study Dementia Review

Background and Overview

In October 2018, the LLFS Steering Committee established a new committee, the Dementia Review Committee, to aid Stephanie Cosentino with the Administrative supplement received to establish and implement a dementia diagnosis procedure in LLFS and to continue the process as part of new funding. The Dementia Review committee was charged to establish and implement a dementia diagnosis procedure in LLFS, modeled after the Framingham Heart Study (FHS) and to compare rates of dementia across these two cohorts. The Dementia Review committee reviewed the procedures from FHS and recommended protocol changes that will allow similar processes for dementia diagnosis between LLFS and FHS.

The Dementia Review committee decided to use the Dementia Review forms used in FHS (short and long, see appendix). In addition, supporting documents from the DMCC (dementia reports), as well as scanned copies of additional participant data from the in-person and annual follow-up calls will be shared amongst the committee. The Dementia Review committee convened a panel consisting of investigators involved in dementia reviews for other studies, including Stephanie Cosentino (CU), Stacy Andersen (BU), Larry Honig (CU), Sandy Auerbach (FHS), and Diane Ives (PT).

Procedures for Dementia Review

Identifying cases for dementia review – Dementia review packets will be prepared for LLFS participants who demonstrate the presence of diagnostic triggers at ANY time including:

- 1) CDR >0
- 2) Cognitively impaired by the NACC-based algorithm (case_status = 1);
- 3) If CDR and algorithm are missing, report of a cognitive problem by an informant defined by endorsement of any item between #1 and 7 on the Dementia Questionnaire

Dementia Report from DMCC – Once the list of potential dementia participants is created (based on retrospective review of CDR, algorithm status, and DQ), the DMCC will:

- provide a list of the participants whose charts will need to be retrieved for dementia review at each site, and
- create a report for each participant (*Neuropsychology Summary*). This report includes information entered into REDCap during in-person and follow-up phone calls, which is then used to create analysis datasets.
- Using these datasets, the DMCC extracts necessary information to aid with the dementia review process. These reports will be available for download at the sFTP site: **/LLFS_#/DementiaReview/ (where # is NY, BU, or PT).**

Dementia Review Packets for each participant – Prior to the bi-weekly dementia review calls, each site will create dementia review packets for participants to be presented on the call. These packets will be uploaded to the sFTP site by the Friday prior to the call. See following section (**'Preparing Documents for Review'**) for details on the preparation of the packets. Additionally, at each site, a draft of the *Dementia Review Form* (long or short, see appendix) should be completed as a starting point for discussion on the call. During the Dementia Review call, the dementia review form will be finalized. Each form will be entered into REDCap after the call by CU staff.

Procedures for uploading packets: Due to our security policy to protect HIPPA information, the uploaders will be operating in the “blind” and will not be able to see the directories, nor the files being uploaded to the FTP server. Any persons wishing to upload the files should contact the DMCC Project Manager, LeAnne Kniepkamp (l.kniepkamp@wustl.edu) with the name and email address of the new user. LeAnne will then work with the DMCC IT department to grant permission for access.

Once access has been granted, new users wishing to upload files should connect via an FTP client to <ftp.dsg.wustl.edu>. Your user name will be anonymous and your password will simply be your email address.

Once connected, change your directory to **escondite**. Then change to the **DemRev** directory (case sensitive). From there you can upload any files that you wish. Once uploaded, email LeAnne who will verify the files have been uploaded in full. Once the files have been verified, DMCC IT will then move the files over to the downloaded directory where LeAnne accesses them. This verification process is required. Please note this process is not instantaneous and there will be some lag time.

Once packet upload has been verified, LeAnne will move the packets to the Password protected dropbox for downloading by adjudicators. LeAnne will send out credentials to the adjudicators prior to the January 22, 2019 call. After that date, if new adjudicators need access to the password protected dropbox, they will need to email LeAnne (l.kniepkamp@wustl.edu).

Adjudication During Dementia Review Panel Calls – Packets will be downloaded for adjudication by the Dementia Review committee members and classified as Normal Cognition, Mild Cognitive Impairment (MCI) or Dementia. Each dementia review case will be presented by the person at the site who completed the initial dementia review form. Discussion of the case and completion of the Dementia Review Form (long or short) will be decided on the call. Hard copies of the dementia review form will be put in the participants chart after data entry and will be entered into the REDCap data system after the call. The Dementia Review Meeting Notes template will be filled out by CU staff to record details of the cognitive status decision making process and forwarded to the participant’s field center for placement in the chart. This form is not entered into REDCap.

Preparing Documents for Review

Each packet will include the Dementia Review Summary (see Appendix), the Neuropsychology Summary report from the DMCC, scanned documents from the charts, and a summary of all information coalesced. These will be saved as four separate files. The documents should be labelled and ordered as follows:

1. 1_Dementia Review Summary for Presentation_ID NUMBER_SITE_DR
2. 2_Neuropsychology Summary_ID NUMBER_SITE_DR
3. 3_Scanned Documents_ID NUMBER_SITE_DR
4. 4_Summary of Available Information_ID NUMBER_SITE_DR

For further details on the preparation of each of these documents, please see below.

Dementia Review Summary

The 'Synthesized Summary' section should include an overview of when cognitive symptoms were first recorded, an overview of the cognitive decline, and any transition dates. This should take the form of a table which lists all dates of contact in chronological order, with key cognitive details after each date. Here is an *example*:

Jan 2009 (V1)	Notes about V1 test scores, relevant medical conditions
Jan 2010 (AFU)	TICS (40/51), no DQ due to high TICS score
Jan 2011 (AFU)	TICS (20/51), notes about DQ findings, new relevant medical conditions
Jan 2014 (AFU)	TICS (20/51), notes about DQ findings, new relevant medical conditions
Jan 2016 (V2)	Notes about V2 test scores, changes in cognition, summary of DQ findings, CDR score [including domain e.g. memory]
Jan 2017 (AFU)	TICS refused, CDR score, notes about DQ findings

In the 'Synthesized Summary' section it should be indicated whether the person is male or female. It is important to include any DQ information in this section.

The 'Chart Summary' should include any other contributing factors and health-related / medical issues (not necessarily cognitive) (e.g., head injury, stroke, developmental disorder, Parkinson's disease, etc.). Age of diagnosis should be included. Smoking / drinking / problems with physical function may be included here. If the person is deceased, please include information from the Decedent Proxy Interview and Addendum here.

The 'Medical Records Summary' should only be completed if medical records have been obtained following death of the participant. Otherwise write 'N/A'.

The 'Neuropsychology Summary' should include a short paragraph or table detailing performance on key neuropsychological measures including (but not necessarily limited to): memory retention, animal fluency, Trails B, Digits backward.

The 'Behavioral Observations' should include comments from the tester and any qualitative information (e.g. types of errors) from the cognitive testing (e.g., 'semantic intrusions on HVLТ', '7 perseverations on phonemic fluency', '4 LOS errors on Trails B'). Any behavioral peculiarities should be specified here. If there was nothing of note, write 'nothing of note'.

Scanned Documents: All V1 drawings (MMSE sentence, MMSE pentagons, DSST), V2 drawings (MMSE sentence, MMSE pentagons, DSST, all 4 trails items, Clock command, Clock copy), and all TICS should be scanned. When scanning documents to be circulated, all identifying information (e.g., names) needs to be redacted by using Adobe to place a black box over the information. Drawings should be labeled appropriately, for example 'V1 Pentagons', 'V1 Sentence', 'V2 Trails A' etc. using Adobe typewriter function.

Appendix

Dementia Review Form- Short (Form Version Date 04JAN2019)

Subject's ID number	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>
Date of Review (dd/mm/yyyy)	<input type="text"/> <input type="text"/> / <input type="text"/> <input type="text"/> / <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>
Adjudicators:	
Review Number (nth review)	<input type="text"/>

Sources available for this review	Dates

Last Date of Documented Normal/Baseline Cognitive Status (dd/mm/yyyy) U = Unavailable	<input type="text"/> <input type="text"/> / <input type="text"/> <input type="text"/> / <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>
Degree of Certainty Regarding Normal Cognitive Status Date 1 = Slightly 2 = Somewhat 3 = Moderately 4 = Reasonably 5 = Highly N = N/A	<input type="text"/>
Sources supporting normal cognitive status date	Dates

CT Scan Information	
CT Scan Performed: 0 = No 1 = Yes D = Don't Know	<input type="checkbox"/>
Date of the Most Recent CT Scan (dd/mm/yyyy) U = Unavailable	<input type="text"/> / <input type="text"/> / <input type="text"/>
CT Scan Results: 1 = Normal 2 = Atrophy only 3 = Single Stroke 4 = Two or more Strokes 5 = Other, _____ 6 = Small Vessel Ischemic disease U = Unavailable	<input type="checkbox"/>

MRI Scan Information	
MRI Scan Performed: 0 = No 1 = Yes D = Don't Know	<input type="checkbox"/>
Date of the Most Recent MRI Scan (dd/mm/yyyy) U = Unavailable	<input type="text"/> / <input type="text"/> / <input type="text"/>
MRI Scan Results: 1 = Normal 2 = Atrophy only 3 = Single Stroke 4 = Two or more Strokes 5 = Other, _____ 6 = Small Vessel Ischemic disease U = Unavailable	<input type="checkbox"/>

Cognitive Status at Time of Death 0 = No Dementia 0.5 = Cognitive Impairment – No Dementia 1.0 = Mild Dementia 1.5 = Greater than or equal to mild dementia 2.0 = Moderate Dementia 2.5 = Greater than or equal to moderate dementia 3.0 = Severe Dementia 4.0 = Alive U = Unavailable	<input type="text"/> . <input type="text"/>
Certainty of Cognitive Status at Death 1 = Slightly 2 = Somewhat 3 = Moderately 4 = Reasonably 5 = Highly N = N/A	<input type="checkbox"/>
Sources supporting the cognitive status at death	Dates

Is a developmental disorder (e.g., intellectual disorder, learning disorder) suspected? 0 = No 1 = Yes D = Don't Know	<input type="checkbox"/>
---	--------------------------

Dementia Review Form- Long (Form Version Date 04JAN2019)

Subject's ID number	<table border="1"> <tr> <td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td> </tr> </table>										
Date of Review (dd/mm/yyyy)	<table border="1"> <tr> <td> </td><td> </td><td>/</td><td> </td><td> </td><td>/</td><td> </td><td> </td><td> </td><td> </td> </tr> </table>			/			/				
		/			/						
Adjudicators:											
Review Number (nth review)	<table border="1"> <tr> <td> </td> </tr> </table>										

Sources available for this review	Dates

Last Date of Documented Normal/Baseline Cognitive Status (dd/mm/yyyy) U = Unavailable	<table border="1"> <tr> <td> </td><td> </td><td>/</td><td> </td><td> </td><td>/</td><td> </td><td> </td><td> </td><td> </td> </tr> </table>			/			/				
		/			/						
Degree of Certainty Regarding Normal Cognitive Status Date 1 = Slightly 2 = Somewhat 3 = Moderately 4 = Reasonably 5 = Highly N = N/A	<table border="1"> <tr> <td> </td> </tr> </table>										
Sources supporting normal cognitive status date	Dates										

Cognitive Impairment 0 = No 1 = Yes D = Don't Know		<input type="checkbox"/>
Sources supporting presence/absence of cognitive impairment		Dates
Date of Cognitive Impairment Onset (dd/mm/yyyy) N = N/A U = Unavailable		<input type="text"/> <input type="text"/> / <input type="text"/> <input type="text"/> / <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>
Degree of Certainty Regarding Impairment Onset Date 1 = Slightly 2 = Somewhat 3 = Moderately 4 = Reasonably 5 = Highly N = N/A		<input type="checkbox"/>
Sources supporting cognitive impairment onset date		Dates

Cognitive Decline 0 = No 1 = Yes, Duration Less Than 1 Year 2 = Yes, Duration Greater Than 6 Months D = Don't Know		<input type="checkbox"/>
Sources supporting the presence or absence of cognitive decline		Dates

Probable Dementia Present 0 = No 1 = Yes D = Don't Know		<input type="checkbox"/>
Sources supporting the presence or absence of dementia		Dates

Date of Diagnosis of Mild Dementia (dd/mm/yyyy) N = N/A U = Unavailable		<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> / <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> / <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>
Degree of Certainty regarding Mild Dementia Date 1 = Slightly 2 = Somewhat 3 = Moderately 4 = Reasonably 5 = Highly N = N/A		<input type="checkbox"/>
Sources supporting the date of mild dementia		Dates

Date of Diagnosis of Moderate Dementia (dd/mm/yyyy) N = N/A U = Unavailable (Dementia Diagnosis Date)		<input type="text"/> <input type="text"/> / <input type="text"/> <input type="text"/> / <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>
Degree of Certainty regarding Moderate Dementia Date 1 = Slightly 2 = Somewhat 3 = Moderately 4 = Reasonably 5 = Highly N = N/A		<input type="checkbox"/>
Sources supporting the date of moderate dementia		Dates

Date of Diagnosis of Severe Dementia (dd/mm/yyyy) N = N/A U = Unavailable		<input type="text"/> <input type="text"/> / <input type="text"/> <input type="text"/> / <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>
Degree of Certainty regarding Severe Dementia Date 1 = Slightly 2 = Somewhat 3 = Moderately 4 = Reasonably 5 = Highly N = N/A		<input type="checkbox"/>
Sources supporting the date of severe dementia		Dates

Definite Stroke or TIA 0 = No 1 = Yes D = Don't Know	<input type="checkbox"/>
Parkinson's Disease 0 = No 1 = Yes D = Don't Know	<input type="checkbox"/>

CT Scan Information	
CT Scan Performed: 0 = No 1 = Yes D = Don't Know	<input type="checkbox"/>
Date of the Most Recent CT Scan (dd/mm/yyyy) U = Unavailable	<input type="text"/> <input type="text"/> / <input type="text"/> <input type="text"/> / <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>
CT Scan Results: 1 = Normal 2 = Atrophy only 3 = Single Stroke 4 = Two or more Strokes 5 = Other, _____ 6 = Small Vessel Ischemic disease U = Unavailable	<input type="checkbox"/>

MRI Scan Information	
MRI Scan Performed: 0 = No 1 = Yes D = Don't Know	<input type="checkbox"/>
Date of the Most Recent MRI Scan (dd/mm/yyyy) U = Unavailable	<input type="text"/> <input type="text"/> / <input type="text"/> <input type="text"/> / <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>
MRI Scan Results: 1 = Normal 2 = Atrophy only 3 = Single Stroke 4 = Two or more Strokes 5 = Other, _____ 6 = Small Vessel Ischemic disease U = Unavailable	<input type="checkbox"/>

Cognitive Status at Time of Death 0 = No Dementia 0.5 = Cognitive Impairment – No Dementia 1.0 = Mild Dementia 1.5 = Greater than or equal to mild dementia 2.0 = Moderate Dementia 2.5 = Greater than or equal to moderate dementia 3.0 = Severe Dementia 4.0 = Alive 7.0=died, unknown at final review U = Unavailable	<input type="text"/> <input type="text"/>
Certainty of Cognitive Status at Death 1 = Slightly 2 = Somewhat 3 = Moderately 4 = Reasonably 5 = Highly N = N/A	<input type="checkbox"/>
Sources supporting the cognitive status at death	Dates

<p>Dementia Subtype (fill out at review only)</p> <p>0 = None 1 = Alzheimer’s Disease Without Stroke 2 = Alzheimer’s Disease With Stroke 3 = Vascular Dementia Without Alzheimer’s Disease 4 = Mixed Dementia Type (Alzheimer’s Disease + Vascular Dementia) 5 = Frontotemporal Dementia 6 = Dementia with Lewy Bodies 7 = Dementia that does not fit any other Category (progressive) 8 = Dementia that does not fit any other Category (non-progressive) 9 = Cognitive Impairment – No Dementia 10 = Dementia – Uncertain D = Don’t Know</p>	<div style="border: 1px solid black; width: 40px; height: 20px; margin: 0 auto;"></div> <div style="border: 1px solid black; width: 40px; height: 20px; margin: 0 auto;"></div> <p style="font-size: small;">If answer is dementia due to inability to fit other categories, specify:</p>
<p>Severity Of Dementia Subtype</p> <p>0 = None 1 = Mild 2 = Moderate 3 = Severe D = Don’t Know</p>	<div style="border: 1px solid black; width: 40px; height: 20px; margin: 0 auto;"></div>
<p>For Cognitive Impairment (this only refers to impairment <i>during the MCI stage</i>), Code Subtype:</p> <p>1= amnestic 2=non-amnestic N=N/A D=Don’t Know</p>	<div style="border: 1px solid black; width: 40px; height: 20px; margin: 0 auto;"></div>
<p>If Amnestic, Code Subtype:</p> <p>1=amnestic only 2=amnestic plus N=N/A D=Don’t Know</p>	<div style="border: 1px solid black; width: 40px; height: 20px; margin: 0 auto;"></div>
<p>If 2 (“amnestic plus”) code: 0= no 1= yes D=Don’t Know N=N/A</p>	
<div style="display: flex; justify-content: space-around; align-items: flex-end;"> <div style="text-align: center;"> <div style="border: 1px solid black; width: 30px; height: 20px; margin: 0 auto;"></div> <p>executive function</p> </div> <div style="text-align: center;"> <div style="border: 1px solid black; width: 30px; height: 20px; margin: 0 auto;"></div> <p>abstract reasoning</p> </div> <div style="text-align: center;"> <div style="border: 1px solid black; width: 30px; height: 20px; margin: 0 auto;"></div> <p>visuospatial function</p> </div> <div style="text-align: center;"> <div style="border: 1px solid black; width: 30px; height: 20px; margin: 0 auto;"></div> <p>language</p> </div> <div style="text-align: center;"> <div style="border: 1px solid black; width: 30px; height: 20px; margin: 0 auto;"></div> <p>attention</p> </div> </div>	
<p>If Non-Amnestic, Code Subtype:</p> <p>1=single domain 2=multiple domain N=N/A D=Don’t Know</p>	<div style="border: 1px solid black; width: 40px; height: 20px; margin: 0 auto;"></div>
<p>If 1 (“single domain”) or 2 (“multiple domain”) code: 0=no 1= yes D=Don’t Know N=N/A</p>	
<div style="display: flex; justify-content: space-around; align-items: flex-end;"> <div style="text-align: center;"> <div style="border: 1px solid black; width: 30px; height: 20px; margin: 0 auto;"></div> <p>executive function</p> </div> <div style="text-align: center;"> <div style="border: 1px solid black; width: 30px; height: 20px; margin: 0 auto;"></div> <p>abstract reasoning</p> </div> <div style="text-align: center;"> <div style="border: 1px solid black; width: 30px; height: 20px; margin: 0 auto;"></div> <p>visuospatial function</p> </div> <div style="text-align: center;"> <div style="border: 1px solid black; width: 30px; height: 20px; margin: 0 auto;"></div> <p>language</p> </div> <div style="text-align: center;"> <div style="border: 1px solid black; width: 30px; height: 20px; margin: 0 auto;"></div> <p>attention</p> </div> </div>	

Dementia Review Form Supplement

Criteria for DSM-IV	
Memory Impairment 0 = No 1 = Yes D = Don't Know <input style="width: 30px; height: 20px;" type="checkbox"/>	If Memory Impairment, Code Subtype: <input style="width: 30px; height: 20px;" type="checkbox"/> 1= Verbal and Non-verbal memory 2= Verbal 3= Non-verbal N= N/A D= Don't Know
Aphasia 0 = No 1 = Yes D = Don't Know	<input style="width: 30px; height: 20px;" type="checkbox"/>
Executive Dysfunction (planning, organizing, sequencing, abstracting) 0 = No 1 = Yes D = Don't Know	<input style="width: 30px; height: 20px;" type="checkbox"/>
Significant Impairment in Function (Social/Occupational) 0 = No 1 = Yes D = Don't Know	<input style="width: 30px; height: 20px;" type="checkbox"/>
Dementia by DSM-IV Criteria Memory Impairment, Impairment in one other Cognitive Domain, Functional Decline, Not Due to Delirium, Depression, or Schizophrenia 0 = No 1 = Yes D = Don't Know	<input style="width: 30px; height: 20px;" type="checkbox"/>
Dementia by ADDTC criteria Impairment in two or more Cognitive Domains, Functional Decline secondary to Cognitive Impairment 0 = No 1 = Yes D = Don't Know	<input style="width: 30px; height: 20px;" type="checkbox"/>
Symptoms Above Present for at least Six Months (refers to memory imp, aphasia, etc., <i>not</i> dementia) 0 = No 1 = Yes N = N/A D = Don't Know	<input style="width: 30px; height: 20px;" type="checkbox"/>

Cognitive Deficits Not Related to DSM-IV Criteria	
Language 0 = No 1 = Yes D = Don't Know	<input style="width: 30px; height: 20px;" type="checkbox"/>
Visuospatial Abilities 0 = No 1 = Yes D = Don't Know	<input style="width: 30px; height: 20px;" type="checkbox"/>
Attention 0 = No 1 = Yes D = Don't Know	<input style="width: 30px; height: 20px;" type="checkbox"/>

<p>Alzheimer's Disease by NINCDS-ADRDA criteria (fill out at review only) 0 = No 1 = Yes D = Don't Know</p>	<input type="checkbox"/>
<p>Classification of Alzheimer's Disease (fill out at review only; note that, in certain cases, a pt. <i>can</i> have both probable AD and probable vascular dementia) 1 = Probable AD (dementia, progression, and no other etiology) 2 = Possible AD (dementia, progression, unusual clinical features or other contributory etiologies) 3 = Definite AD N = N/A D = Don't Know</p>	<input type="checkbox"/>
<p>If Possible AD, Code Subtype below: (fill out at review only) 1 = Mixed AD + Vascular 2 = Mixed AD + Parkinsonism (including drug-induced) 3 = Mixed AD + Other, Specify _____ N = N/A D = Don't Know</p>	<input type="checkbox"/>

<p>Notes for coding Vascular dementia: Focal neurological signs suggestive of stroke include: weakness of an extremity, exaggerated DTRs, pseudobulbar palsy, extensor plantar responses, gait abnormalities, hemianopsia, facial weakness, dysarthria and sensory deficit if thought to be of vascular etiology.</p>	
<p>1. Dementia Present (from page 3) 0 = No 1 = Yes D = Don't Know</p>	<input type="checkbox"/>
<p>2. Clinical Stroke Documented 0 = No Stroke 1 = Yes, One Stroke 2 = Yes, More Than One Stroke 3= Terminal Stroke Only N = N/A</p>	<input type="checkbox"/>
<p>3. Suggestive Temporal Profile (onset of dementia less than 3 months after stroke, abrupt onset or fluctuating stepwise decline) 0 = No 1 = Yes N = N/A D = Don't Know</p>	<input type="checkbox"/>
<p>4. Imaging (CT or MRI) (code 'atrophy only' or 'mild white matter changes' as 0) 0 = No Stroke 1 = Yes, One Stroke 2 = Yes, More Than One Stroke 3 = Yes, Extensive White Matter Changes N = N/A D = Don't Know</p>	<input type="checkbox"/>
<p>5. Focal Neurological Signs Suggestive of Stroke 0 = No 1 = Yes N = N/A D = Don't Know</p>	<input type="checkbox"/>
<p>Vascular Dementia Present 0 = No 1 = Yes D = Don't Know</p>	<input type="checkbox"/>
<p>If Vascular Dementia Present Code:</p> <p>1 = Probable Vascular Dementia: Criteria: #1 and #2 and #3 = 1 ('Yes') #4 = 1 or 2 ('One or More Strokes')</p> <p>Possible Vascular Dementia: 2 = #1 and #2 = 1 ('Yes') #3 = 0 or 9 ('No' or 'Don't Know') #4 or #5 = 1 ('Yes')</p> <p>3 = #1 and #2 and #3 = 1 ('Yes') #4 = 0 or 9 ('No Stroke' or 'Don't Know')</p> <p>4 = #1= 1 ('Yes') and #4= 3 ('Extensive White Matter Changes') + diagnosis of Binswanger's disease</p> <p>5= #1= 1 ('Yes') and #4= 1, 2, or 3 and/or #5= 1 ('Yes') Or #1= 1 ('Yes') and #3= 1 ('Yes') and #4= 1, 2, or 3 and/or #5= 1 ('Yes')</p> <p>N = N/A D = Don't Know</p>	<input type="checkbox"/>
<p>Coma/Persistent Vegetative State Post Stroke, Until Death 0 = No 1 = Yes N = N/A D = Don't Know</p>	<input type="checkbox"/>

*Other Causes of Dementia or Impairment	
<p>0 = None 1 = PD prior to dementia onset 2 = PD after dementia onset 3 = Dementia with Lewy Bodies 4 = PSP 5 = Shy-Dager syndrome 6 = Striato-nigral degeneration 7 = FTD with Parkinsonism 8 = Wilson’s disease 9 = FTD (w/ and w/out atrophy on imaging) 10 = Corticobasal ganglionic degeneration 11 = Huntington’s disease 12 = Spino-cerebellar degeneration 13 = Leukodystrophies 14 = Post cardiac arrest 15 = TBI 16 = Post infectious sequelae (after meningitis, encephalitis, ADEM) 17 = Malignancy (primary, secondary, para-neoplastic) 18 = Subdural hematoma 19 = NPH 20 = CJD 21 = Multiple sclerosis 22 = AIDS associated dementias 23 = Other infections (fungal meningitis, syphilis) 24 = Alcoholic dementia 25 = Toxic-Metabolic Encephalopathy 26 = Dementia – Uncertain Etiology 27 = Other Etiologies (specify _____) 28 = History of Depression 29 = History of Alcohol/Drug abuse N = N/A D = Don’t Know</p>	<p>1. <input style="width: 40px; height: 20px;" type="text"/> <input style="width: 40px; height: 20px;" type="text"/></p> <p>2. <input style="width: 40px; height: 20px;" type="text"/> <input style="width: 40px; height: 20px;" type="text"/></p> <p>3. <input style="width: 40px; height: 20px;" type="text"/> <input style="width: 40px; height: 20px;" type="text"/></p>

<p>Earliest Documented Date of Dementia (“demented by” date) (dd/mm/yyyy) N = N/A U = Unavailable Note: if the pt. has a “date of diagnosis of mild dementia,” put Ns in this field and the next two. If the pt. is missing a “date of diagnosis of mild dementia,” put the earliest documented date of dementia in the first line and then complete the rest of the boxes.</p>	<input style="width: 30px; height: 20px;" type="text"/> <input style="width: 30px; height: 20px;" type="text"/> / <input style="width: 30px; height: 20px;" type="text"/> <input style="width: 30px; height: 20px;" type="text"/> / <input style="width: 30px; height: 20px;" type="text"/> <input style="width: 30px; height: 20px;" type="text"/> <input style="width: 30px; height: 20px;" type="text"/> <input style="width: 30px; height: 20px;" type="text"/>
<p>Severity: 1.0 = Mild Dementia 1.5 = Greater than or equal to mild dem. 2.0 = Moderate Dementia 2.5 = Greater than or equal to moderate dementia 3.0 = Severe Dementia N = NA U = Unavailable (Dementia is present, and the pt. is at least mild, but severity is uncertain)</p>	<input style="width: 30px; height: 20px;" type="text"/> . <input style="width: 30px; height: 20px;" type="text"/>
<p>Degree of Certainty Regarding Dementia Date 1 = Slightly 2 = Somewhat 3 = Moderately 4 = Reasonably 5 = Highly N = N/A</p>	<input style="width: 30px; height: 20px;" type="text"/>
Sources supporting earliest documented date of dementia	
	Dates

<p>Is a developmental disorder (e.g., intellectual disorder, learning disorder) suspected? 0 = No 1 = Yes D = Don’t Know</p>	<input style="width: 30px; height: 20px;" type="text"/>
--	---

Dementia Review Summary**Participant ID:****Site:****Date of Birth:****Date of Death:****Synthesized Summary** (*incl. when the cognitive symptoms were first recorded, overview of cognitive decline, transition dates*):**Highest level of education:****Occupation:****If not seen recently (e.g. missed AFU or visit), why:****Chart Summary** (*incl. other contributing factors and health-related issues (not necessarily cognitive), e.g., stroke, head injury, smoking, medical issues, hypertension, developmental disorders, Parkinson's, etc*):**Medical Records Summary** (*if available*):**Neuropsychology Summary:** See printout from REDCap**Behavioral Observations** (*incl. comments from tester, qualitative info (e.g. types of errors) on neuropsych tests, any peculiarities*):*Reasons for Non-Completion of Tests

1=poor hearing	6=unresponsive to task	11=experimenter error	16=anxiety
2= poor vision	7=fatigue	12=insufficient time	17=environmental distraction
3= unable to establish set	8=unable to write	13=poor effort	18=experimenter discretion
4= unable to maintain set	9=refused	14=disinterest/boredom	19=physical limitation
5= English not native language	10=frustration	15=depression	20=other
			25=digital pen buzz

Written by:

Written on:

Examiner number: