INITIAL VISIT PACKET UNIFORM DATA SET (UDS) VERSION 4.0



Examiner's

Form D1b: Biomarkers used to support Etiological Diagnosis

ADRC:	PTID:	Form date://	_ Visit #	t:	initials:				
Language: ☐ 1 English ☐ 2 Spanish	Mode: □1 In-person □2 Remote (reason): □1 Telephone □2 Video								
INSTRUCTIONS : This form is to be completed by the clinician for all participants, including cognitively unimpaired. For additional clarification and examples, see UDS Coding Guidebook for Form D1b . Check only one box per question.									
1. Were any biomarker results used to support the current etiological diagnosis? (Consider any biomarker results from any time that may be clinically relevant) (Consider any biomarker results from any time that may be clinically relevant) (Consider any biomarker results from any time that may be clinically relevant)									
Section	1 – Biomarkers and imaging								
Complete this section if any of the following biomarker measures were used to <u>support or exclude</u> a presumed etiological diagnosis, including unimpaired individuals who have biomarker characterization. Please complete the checklist below for each data source available and the related questions for each supporting data. Then complete Section 2: Etiological Diagnosis . This section is not intended to capture actual data values or register sample availability; instead this section's purpose is to record what information was used by the clinician (or at consensus) to inform an etiological diagnosis.									
Fluids									
	2. Fluid Biomarkers – Were fluid biomarkers used for assessing the etiological diagnosis? O No (SKIP TO QUESTION 5) 1 Yes, only blood-based biomarkers were used (CONTINUE TO QUESTION 3, and SKIP QUESTIONS 4 – 4d) 2 Yes, only CSF-based biomarkers were used (SKIP TO QUESTION 4) 3 Yes, blood- and CSF-based biomarkers were used								
Please use the following questions to indicate the results of the fluid biomarker test(s) used by the clinican (or at consensus) to determine the etiological diagnosis at this visit. If a fluid biomarker was used to exclude an etiological diagnosis, select 0=No . If a fluid biomarker was found to be consistent with									
a diagnosis, select 1=Yes . If a fluid biomarker was found to be indeterminate, select 9 . In cases where one or more of the etiologies listed were not assessed using fluid biomarkers, leave the row blank and this will default to Not Applicable in the NACC database.									
3. Blood-	based biomarkers		No	Yes	Indeterminate				
3a.	Consistent with AD		□ o	□ 1	9				
3b.	. Consistent with FTLD				9				
3c.	Consistent with LBD				9				
3d.	Consistent with other etiology (SPEC	□ ₀	□ 1	<u></u> 9					
4. CSF-ba	sed biomarkers	No	Yes	Indeterminate					
4a.	Consistent with AD		□ ₀	□ 1	<u> </u>				
4b.	Consistent with FTLD	□ ₀	□ 1	9					
4c.	Consistent with LBD	□ ₀	□ 1	<u></u> 9					
4d.	Consistent with other etiology (SPEC	□ o	□ 1	9					

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Sectio	n 1 – B	iomarkers and imaging			continued			
Imaging								
5. Imaging – Was imaging used for assessing etiological diagnosis? O No (SKIP TO QUESTION 8) 1 Yes, only PET/SPECT imaging was used (CONTINUE TO QUESTION 6, and SKIP QUESTION 7 - 2 Yes, only MR imaging was used (SKIP TO QUESTION 3 Yes, PET/SPECT and MR imaging were used)								
Please use the following questions to indicate the results of the imaging used by the clinican (or at consensus) to determine the etiological diagnosis at this visit. If imaging was used to exclude an etiological diagnosis, select 0=No . If imaging was found to be consistent with a diagnosis, select 1=Yes . If imaging was found to be indeterminate, select 9 . In cases where one or more of the etiologies listed were not assessed using imaging, leave the row blank and this will default to Not Applicable in the NACC database.								
6. PET/	SPECT							
68	6a. Tracer-based PET - Were tracer-based PET measures used in assessing an etiological diagnosis? □ No (SKIP TO QUESTION 6b) 1 Yes, results were normal or abnormal 2 Yes, results were indeterminate							
	If us	ed in diagnosis, indicate the results:	No	Yes	Indeterminate			
	6a1.	Elevated Amyloid	X	0	9			
	6a2.	Elevated tau pathology		0 🔲 1	9			
6k	6b. FDG PET - Was FDG PET data or information used to support an etiological diagnosis?							
			No	Yes	Indeterminate			
	6b1.	Consistent with AD		0	9			
	6b2.	Consistent with FTLD		0 🗆 1	<u></u> 9			
	6b3.	Consistent with LBD		0	<u></u> 9			
	6b4.	Consistent with other etiology (SPECIFY):		0 🔲 1	<u></u> 9			
60		Dopamine Transporter (DAT) Scan - Was DAT Scan data or information used to support an etiological diagnosis? □ 1 Yes, results were normal □ 2 Yes, results were indeterminate						
60	to su	er tracer-based imaging - Were other tracer-based imaging used apport an etiological diagnosis? CIFY):	□ 0 No (SKIP TO QUESTION 7a) □ 1 Yes, results were normal or abnormal □ 2 Yes, results were indeterminate					
		X	No	Yes	Indeterminate			
	6d1.	Consistent with AD		0	9			
	6d2.	Consistent with FTLD		0	9			
5	6d3.	Consistent with LBD		0	9			
	6d4.	Consistent with other etiology (SPECIFY):		0	<u> </u>			

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Sec	Section 1 – Biomarkers and imaging continued							
7. St	tructur	ral Ima	agi	ng				
If structural imaging was used in the diagnosis, specify the scan results below:								
	information used to support an etiological diagnosis?				1 Yes, resul	CIP TO QUESTION 8) sults were normal or abnormal sults were indeterminate		
						No	Yes	Indeterminate
	7	'a1. /	Atro	phy pattern consistent with AD		П ₀	□ 1	□ ₉
	7	'a2. /	Atro	phy pattern consistent with FTLD		О	□ 1	□ 9
	7	'a3. (Cons	sistent with Cerebrovascular disease (CVD)		О		9
		If th	nere	is evidence for CVD on imaging, indicate the findings (check a	ll that apply):			
		7a3	3a.	Large vessel infarct(s)		0	□ 1	<u>9</u>
		7a3	3b.	Lacunar infarct(s)	40		□ 1	<u> </u>
		7a3	3c.	Macrohemorrhage(s)	X	□ ₀	□ 1	<u> </u>
		7a3	3d.	Microhemorrhage(s)		О	□ 1	<u> </u>
		7a3	3e.	Moderate white–matter hyperintensity (CHS score 5–6)		О	□ 1	<u></u> 9
		7a:	3f.	Extensive white-matter hyperintensity (CHS score 7–8+)	,	О	□ 1	<u></u> 9
Oth	er hio	mark	ker	modalities (e.g., tissues, skin, retinal imaging, etc.)				
Please use the following questions to indicate the results of any additional biomarker modalities used by the clinician (or at consensus) to support the etiological diagnosis at this visit. If a biomarker modality was used to exclude an etiological diagnosis, select 0=No. If a biomarker modality was found to be								
consistent with a diagnosis, select 1=Yes . If a biomarker modality was found to be indeterminate, select 9 . In cases where one or more of the etiologies listed were not assessed using a biomarker modality, leave the row blank and this will default to Not Applicable in the NACC database.								
8. Other biomarker modality - Was another biomarker modality used to support an etiological diagnosis? (SPECIFY): 2 Yes, results were indeterminate							al or abnormal	
						No	Yes	Indeterminate
	8a. [1 C	onsi	stent with AD		О	□ 1	9
	8b. [□1 ¢	onsi	stent with FTLD		□ o	□ 1	9
	8c. [□1 C	onsi	stent with LBD		О	□ 1	<u></u> 9
	8d. [1 C	onsi	stent with other etiology (SPECIFY):		П о	□ 1	<u></u> 9
	9. Other biomarker modality - Was another biomarker modality used to support an etiological diagnosis? (SPECIFY): 1 No (SKIP TO QUESTION 11) 1 Yes, results were normal or abnormal 2 Yes, results were indeterminate							
						No	Yes	Indeterminate
	9a. [1 C	onsi	stent with AD		О	□ 1	9
9b. 1 Consistent with FTLD					О	□ 1	9	
	9c. 1 Consistent with LBD					О	□ 1	<u></u> 9
9d. 1 Consistent with other etiology (SPECIFY):					<u></u> 9			

____ Form date: ____ / ___ / ___ / ___ ___ Visit #:

Participant ID: ____

Participant ID: Form date:	/	_ /		Visit #:					
Section 1 – Biomarkers and imaging					continued				
10. Other biomarker modality - Was another biomarker support an etiological diagnosis?(SPECIFY):	0	□ 0 No (SKIP TO QUESTION 11) □ 1 Yes, results were normal or abnormal □ 2 Yes, results were indeterminate							
				No Yes I	ndeterminate				
10a. 1 Consistent with AD				□0 □1	<u></u> □9				
10b. 1 Consistent with FTLD				□0 □1	<u></u> □9				
10c. 1 Consistent with LBD				U ₀ U ₁	<u></u>				
10d. 1 Consistent with other etiology (SPECIFY):			_ 🔲 0 🔲 1	<u></u> 9					
Supportive genetics									
11. Is there an Autosomal Dominant pathogenic variant to support an etiological diagnosis?									
Section 2 – Etiological diagnoses									
Using all the available data (i.e. clincial, cognitive, biomarker, data, enter a presumed etiological diagnosis.	etc) please provid	de an etic	ological diag	gnosis. For those with	no biomarker				
Must be filled out for all participants. Indicate whether a given condition is a primary, contributing, or non-contributing cause of the observed impairment, based on the clinician's best judgment. Select one or more etiological diagnoses from questions (below) as Present; all others will default to Absent in the NACC database >> only one diagnosis should be selected as 1 = Primary. For unimpaired participants: Indicate the presence of any etiological diagnoses by selecting 1 = Present, and leave the questions on whether the diagnosis was primary, contributing, or non-contributing blank.									
Etiological Diagnoses	Present		Primary	Contributing	Non- contributing				
12. Alzheimer's disease		12a.	1	2	□ 3				
13. Lewy body disease		13a.	□ 1	2	<u></u> 3				
14. Frontotemporal lobar degeneration	□1	14a.	1	2	3				
If present , select one:									
14b1. Progressive supranuclear palsy (PSP)	□ ₁	14b1a.		2	3				
14b2. Corticobasal degeneration (CBD)	□ ₁	14b2a.		2	3				
14b3. FTLD with motor neuron disease	1	14b3a.		2	3				
14b4. FTLD NOS	<u> </u>	14b4a.		2	3				
14c. If FTLD (QUESTION 13) is present, specify FTLD subt 1 Tauopathy 2 TDP-43 proteinopathy 3 Other (SPECIFY): 9 Unknown									
Vascular brain injury (based on clinical and imaging evidence according to your Center's standards)	□ 1	15a.	□ 1	2	□ 3				
16. Multiple system atrophy	□ 1	16a.	1	2	□ 3				
17. Chronic traumatic encephalopathy	1	17a.	□ 1	2	□ 3				
18. Down syndrome	□ 1	18a.	1	2	□ 3				
19. Huntington's disease	1	19a.	□ 1	2	□ 3				
20. Prion disease (CJD, other)	□ 1	20a.	1	2	□ 3				
21. Cerebral amyloid angiopathy	□ 1	21a.	1	2	□ 3				
22. LATE: Limbic-predominant age-related TDP-43 encephalopathy	□ ₁	22a.		\square_2	□ 3				
23. Other (SPECIFY):	1	23a.		2	3				