## INITIAL VISIT PACKET UNIFORM DATA SET (UDS) VERSION 4.0



Examiner's

## Form D1b: Etiological Diagnosis and Biomarker Support

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<b>INSTRUCTIONS</b> : This form is to be completed by the clinician for all participants, including cognitively unimpaired. For additional clarification and examples, see <b>UDS Coding Guidebook</b> for <b>Form D1b</b> . Check only <u>one</u> 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)  □ 0 No (SKIP TO QUESTION 12) □ 1 Yes (CONTINUE TO QUESTION 2)								
	tion 1 – Biomarkers and imaging								
diagr sourc not in	plete this section if any of the following biomarker measunesis, including unimpaired individuals who have biomarle available and the related questions for each supporting the name to capture actual data values or register sample aused by the clinician (or at consensus) to inform an etiology.	ker characterization g data. Then comple availability; instead	i. Please complete ete <b>Section 2: Eti</b>	e the checklist below ological Diagnosis. T	for each data his section is				
Flui	ds								
	<u> </u>	2 Yes, only CSF-ba	based biomarker QUESTION 3, and 9 ased biomarkers v	rs were used SKIP QUESTIONS 4 – 40 were used (SKIP TO QU biomarkers were used	JESTION 4)				
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.									
	rmine the etiological diagnosis at this visit.	e ilulu bioillarkei te	est(s) used by the	clinican (or at consen	sus) to				
deter If a flo consi		is, select <b>0=Not co</b> biomarker was fou	<b>nsistent</b> . If a fluid nd to be indetern	biomarker was found	l to be				
If a fluctions one of	rmine the etiological diagnosis at this visit. uid biomarker was used to exclude an etiological diagnos istent with a diagnosis, select <b>1=Yes, consistent</b> . If a fluid	is, select <b>0=Not co</b> biomarker was fou uid biomarkers, sele <b>No,</b>	nsistent. If a fluid nd to be indetern ect 8. Yes,	biomarker was founc ninate, select <b>9</b> . In cas	I to be es where				
If a fluctions one of	rmine the etiological diagnosis at this visit.  uid biomarker was used to exclude an etiological diagnos istent with a diagnosis, select 1=Yes, consistent. If a fluid or more of the etiologies listed were not assessed using flu  ood-based biomarkers	is, select <b>0=Not co</b> biomarker was fou uid biomarkers, sele	nsistent. If a fluid nd to be indetern ect 8.	biomarker was found	I to be es where				
If a flectors one of	rmine the etiological diagnosis at this visit.  uid biomarker was used to exclude an etiological diagnosistent with a diagnosis, select 1=Yes, consistent. If a fluid or more of the etiologies listed were not assessed using fluod-based biomarkers  Consistent with AD	is, select <b>0=Not co</b> biomarker was fou uid biomarkers, sele <b>No,</b> <b>inconsistent</b>	nsistent. If a fluid nd to be indetern ect 8. Yes, consistent	biomarker was found ninate, select 9. In cas Indeterminate	Not assessed				
If a fliconsione considerate and a second cons	rmine the etiological diagnosis at this visit.  uid biomarker was used to exclude an etiological diagnos istent with a diagnosis, select 1=Yes, consistent. If a fluid or more of the etiologies listed were not assessed using flu  ood-based biomarkers  . Consistent with AD	is, select <b>0=Not co</b> ol biomarker was fou uid biomarkers, select No, inconsistent	nsistent. If a fluid nd to be indeterned 8.  Yes, consistent	biomarker was found ninate, select <b>9</b> . In cas <b>Indeterminate</b>	Not assessed				
If a fliconsione considerate and a second cons	rmine the etiological diagnosis at this visit.  uid biomarker was used to exclude an etiological diagnosistent with a diagnosis, select 1=Yes, consistent. If a fluid or more of the etiologies listed were not assessed using fluod-based biomarkers  Consistent with AD  Consistent with FTLD  Consistent with other etiology (SPECIEV):	is, select <b>0=Not co</b> ol biomarker was fou uid biomarkers, select <b>No</b> , <b>inconsistent</b>	resistent. If a fluid not to be indeterned as.  Yes,  consistent	biomarker was found ninate, select <b>9</b> . In cas <b>Indeterminate</b> 99	Not assessed				
deter If a fliconsione of 3. Bl 3a 3b 3c 3d	rmine the etiological diagnosis at this visit.  uid biomarker was used to exclude an etiological diagnosistent with a diagnosis, select 1=Yes, consistent. If a fluid or more of the etiologies listed were not assessed using fluod-based biomarkers  Consistent with AD  Consistent with FTLD  Consistent with other etiology (SPECIEV):	is, select <b>0=Not co</b> t biomarker was fou uid biomarkers, select <b>No</b> , <b>inconsistent</b>	resistent. If a fluid and to be indeterned 8.  Yes, consistent	Indeterminate	Not assessed				
deter If a fliconsione of 3. Bl 3a 3b 3c 3d	rmine the etiological diagnosis at this visit.  uid biomarker was used to exclude an etiological diagnosistent with a diagnosis, select 1=Yes, consistent. If a fluid or more of the etiologies listed were not assessed using fluod-based biomarkers  Consistent with AD  Consistent with FTLD  Consistent with LBD  Consistent with other etiology (SPECIFY):	is, select <b>0=Not co</b> t biomarker was fou uid biomarkers, select <b>No</b> , <b>inconsistent</b>	resistent. If a fluid and to be indeterned as.  Yes, consistent  1  1  1  1  1  Yes,	Indeterminate  9  9  9  9	Not assessed  8  8  8  8  8  8  8  8				
deter If a fliconsione of 3. Bl 3a 3b 3c 3d	rmine the etiological diagnosis at this visit.  uid biomarker was used to exclude an etiological diagnosistent with a diagnosis, select 1=Yes, consistent. If a fluid or more of the etiologies listed were not assessed using fluod-based biomarkers  Consistent with AD  Consistent with FTLD  Consistent with tabb  Consistent with other etiology (SPECIFY):  FF-based biomarkers  Consistent with AD	is, select 0=Not conbiomarker was fou uid biomarkers, select No, inconsistent	resistent. If a fluid and to be indeterned as.  Yes, consistent  1  1  1  Yes, consistent	Indeterminate  9  9  9  9  19  Indeterminate	Not assessed  Not assessed  8  8  8  8  Not assessed				
3. BI 3a 3b 3c 4. CS	rmine the etiological diagnosis at this visit.  uid biomarker was used to exclude an etiological diagnosistent with a diagnosis, select 1=Yes, consistent. If a fluid or more of the etiologies listed were not assessed using fluod-based biomarkers  Consistent with AD  Consistent with FTLD  Consistent with other etiology (SPECIFY):  SF-based biomarkers  Consistent with AD  Consistent with AD	is, select 0=Not conbiomarker was fou uid biomarkers, select No, inconsistent  0 0 0 No, inconsistent	resistent. If a fluid and to be indeterned as.  Yes, consistent  1  1  1  Yes, consistent  1  1  1  1  1  1  1  1  1  1  1  1  1	Indeterminate  9  9  9  9  19  19	Not assessed  Not assessed  R R R R R R R R R R R R R R R R R R				

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Sec	tion	1 – Biomarkers and imaging					continued	
Imaging								
5. Imaging – Was imaging used for assessing etiological diagnosis?    O No (SKIP TO QUESTION 8)						a3f)		
	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.							
diag	gnosis,	was used to exclude an etiological diagnosis, select select <b>1=Yes, consistent</b> . If imaging was found to be not assessed using imaging, select <b>8</b> .						
6. P	ET/SF	PECT						
6		acer-based PET - Were tracer-based PET measures u ological diagnosis?	sed in assessing an	1	Yes, resul	TO QUESTION 6b) ts were normal or abr ts were indeterminate		
If used in diagnosis, indicate the results:				No	Yes	Indeterminate	Not assessed	
	6a1.	Elevated Amyloid		О	□ 1	<u></u> 9	□8	
	6a2.	Elevated tau pathology		О	□ 1	<u></u> 9	□8	
<b>6b. FDG PET</b> - Was FDG PET data or information used to support etiological diagnosis?		ipport an	□ 0 No ( <b>SKIP TO QUESTION 6c</b> ) □ 1 Yes, results were normal or abnormal □ 2 Yes, results were indeterminate					
			No, inconsistent		es, istent	Indeterminate	Not assessed	
	6b1.	Consistent with AD	□ <sub>0</sub>		]1	<u> </u>	□8	
	6b2.	Consistent with FTLD	□ <sub>0</sub>		]1	<u></u> 9	□8	
	6b3.	Consistent with LBD	□ <sub>0</sub>		]1	<b>□</b> 9	□8	
	6b4.	Consistent with other etiology (SPECIFY):	□ <sub>0</sub>	□ 1		<u></u> 9	□8	
6	6c. Dopamine Transporter (DAT) Scan - Was DAT Scan data or information used to support an etiological diagnosis?  □ 0 No □ 1 Yes, results were normal or abnormal □ 2 Yes, results were indeterminate							
60	<b>6d. Other tracer-based imaging</b> - Were other tracer-based imaging us support an etiological diagnosis?  (SPECIFY):			□ 0 No (SKIP TO QUESTION 7a) □ 1 Yes, results were normal or abnormal □ 2 Yes, results were indeterminate				
			No,		es,	In alasta una lucas	Not	
	6d1.	Consistent with AD	inconsistent		istent	Indeterminate	assessed	
	6d2.	Consistent with AD  Consistent with FTLD	□ o □ o	_	<b>1</b> 1	<u></u> 9	∐8 □°	
	6d3.	Consistent with LBD	□ <sub>0</sub>		1 1	<u></u> 9	□8 □8	
		Consistent with other etiology (SPECIFY):	_					
	6d4.		<b>□</b> 0		<b>」</b> 1	<u></u> 9	<b></b>	

\_\_\_\_\_ Form date: \_\_\_\_ / \_\_\_ / \_\_\_ \_\_ Visit #: \_\_\_

Participant ID:

Participant ID:			Form dat	te:	/ / .			Visit #:	
Secti	on 1 –	Biomar	kers and imaging						continued
7. Str	uctura	l Imagin	9						
7a. Structural Imaging (i.e., MRI or Clinformation used to support an etic		_		1 Yes, resul		TO QUESTION 8) Its were normal or abnormal Its were indeterminate			
				No, inconsistent		es, istent	Indeterminate	Not assessed	
78	<b>a1.</b> At	rophy pat	ern consistent with AD		□ <sub>0</sub>		<b>]</b> 1	<u></u> 9	□8
78	<b>a2.</b> At	rophy pat	ern consistent with FTLD		□ <sub>0</sub>		<b>]</b> 1	<u></u> 9	8
78	<b>a3.</b> Co	onsistent v	vith Cerebrovascular disease (	CVD)	□ <sub>0</sub>		<b>]</b> 1	<u></u> 9	<b>□</b> 8
	lf t	there is ev	dence for CVD on imaging, in	ndicate th	e findings:	No	Yes	Indeterminate	Not assessed
	7a3a.	Large ve	essel infarct(s)			О	□ <sub>1</sub>	<u>9</u>	□8
	7a3b.	<b>7a3b.</b> Lacunar infarct(s)				О	□ 1	<u></u> 9	□8
	<b>7a3c.</b> Macrohemorrhage(s)					О		<u></u> 9	<b>□</b> 8
<b>7a3d.</b> Microhemorrhage(s)		morrhage(s)			$\square_0$	□ <sub>1</sub>	<u>9</u>	□8	
	7a3e. White matter hyperintensity			О	□ 1	<u></u> 9	□8		
	7a3e1. If Yes, choose the severity:  1 Moderate white-matter hyperintensity (CHS score 5-6) 2 Extensive white-matter hyperintensity (CHS score 7-8+)								
Othe	r bion	narker n	nodalities (e.g., tissues, s	kin, retir	nal imaging, etc	<del>.</del> .)			
			questions to indicate the res		y additional biom	arker mo	dalities u	sed by the clinician (o	r at
consensus) to support the etiological diagnosis at this visit.  If a biomarker modality was used to exclude an etiological diagnosis, select <b>0=Not consistent</b> . If a biomarker modality was found to be consistent with a diagnosis, select <b>1=Yes, consistent</b> . If a biomarker was found to be indeterminate, select <b>9</b> . In cases where one or more of the etiologies listed were not assessed using a biomarker modality, select <b>8</b> .									
<ol> <li>Other biomarker modality - Was another biomarker mosupport an etiological diagnosis?</li> <li>(SPECIFY):</li> </ol>			arker mod	dality used to	1	Yes, resul	TO QUESTION 11) Its were normal or abr Its were indeterminate		
					No, inconsistent		es, istent	Indeterminate	Not assessed
8a.	Consis	stent with	AD		$\Box_0$		<b>1</b>	<u> </u>	□8
8b.	Consis	stent with	FTLD		О		<b>1</b>	<u></u> 9	8
8c.	Consis	stent with	LBD		□ <sub>0</sub>		<b>1</b>	<u></u> 9	<b>□</b> 8
8d.	Consis	stent with	other etiology (SPECIFY):		О		<b>□</b> 1	<u> </u>	□8

9. <b>O</b>	on 1 – Biomarkers and imaging  ther biomarker modality - Was another biomarker mod  upport an etiological diagnosis?  PECIFY):	o No (SKIP TO QUESTION 11)  1 Yes, results were normal or abnormal 2 Yes, results were indeterminate				
		No, inconsistent	Yes, consistent	Indeterminate	Not assessed	
9a.	Consistent with AD	□ <sub>0</sub>	□ 1	<u></u> 9	□8	
9b.	Consistent with FTLD	□ <sub>0</sub>	□ 1	<b>□</b> 9	□8	
9c.	Consistent with LBD	О	□ 1	<u></u> 9	□8	
9d.	Consistent with other etiology (SPECIFY):	О	□ 1	<u></u> 9	□8	
SL	ther biomarker modality - Was another biomarker mod apport an etiological diagnosis? PECIFY):	dality used to	☐ 0 No ( <b>SKIP TO QUESTION 11</b> ) ☐ 1 Yes, results were normal or abnormal ☐ 2 Yes, results were indeterminate			
		No, inconsistent	Yes, consistent	Indeterminate	Not assessed	
10a.	Consistent with AD	□ <sub>0</sub>	□ 1	<b>□</b> 9	<b>□</b> 8	
10b.	Consistent with FTLD	□ <sub>0</sub>	□ 1	9	□8	
	Consistent with LBD	□ <sub>0</sub>	□ 1	<u></u> 9	8	
10c.						
10c. 10d.	Consistent with other etiology (SPECIFY):	□ <sub>0</sub>	□ 1	<u></u> 9	8	
10d.	Consistent with other etiology (SPECIFY):  ortive genetics	□o	1	<u></u> 9	<b>□</b> 8	

Participant ID:	Form date:	/ /	Visit #:

## Section 2 - Etiological diagnoses

Using all the available data (i.e. clinical, cognitive, biomarker, etc) please provide an etiological diagnosis. For those with no biomarker data, enter a **presumed** etiological diagnosis.

<u>Must be filled out for all participants</u>. 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**.

<u>For unimpaired participants:</u> Proceed using your center's diagnostic philosophy to determine whether the etiology is present and primary, contributing, or non-contributing or leave the checkboxes blank.

	Etiological Diagnoses	Present		Primary	Contributing	Non- contributing
12.	Alzheimer's disease	□ 1	12a.	□ 1	_2	3
13.	Lewy body disease	1	13a.	□ 1	_2	3
14.	Frontotemporal lobar degeneration (FTLD)	1				
	If <b>present</b> , select all that apply:					
	<b>14a.</b> Progressive supranuclear palsy (PSP)	□ 1	14a1.	□ 1	$\square_2$	3
	<b>14b.</b> Corticobasal degeneration (CBD)	□ 1	14b1.	□ 1	$\square_2$	□ 3
	<b>14c.</b> FTLD with motor neuron disease	□ 1	14c1.	□ 1	$\square_2$	□ 3
	<b>14d.</b> FTLD - not otherwise specified (NOS)	□ 1	14d1.	□ 1	_2	□ 3
	14e. If FTLD (QUESTION 14) is present, specify FTLD s  1 Tauopathy 2 TDP-43 proteinopathy 3 Other (SPECIFY): 9 Unknown					
15.	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	$\square_2$	3
17.	Chronic traumatic encephalopathy (CTE)	□ 1	17a.	□ 1	$\square_2$	3
	17b. If CTE (QUESTION 17) is present, specify certains  1 Suggestive CTE  2 Possible CTE  3 Probable CTE	ty:				
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		22a.	□ 1	$\square_2$	□ 3
23.	Other (SPECIFY):	□ 1	23a.	□ 1	_2	□ 3

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