INITIAL VISIT PACKET UNIFORM DATA SET (UDS) VERSION 4.0



Form D1b: Biomarkers and Etiological Diagnosis

ADRC name:	Participant ID:	Form date:	_ /	/						
Visit #:	Examiner's initials:	-								
	INSTRUCTIONS: This form is to be completed by the clinician. For additional clarification and examples, see UDS Coding Guidebook for Initial Visit Packet, Form D1a. Check only one box per question.									
	THIS FORM IS DIVIDED INTO (2) MAIN SECTIONS:									
	SECTION 1: Biomarkers, Imaging and Genetics —neurodegenerative imaging and CSF biomarkers, imaging, evidence for CVD, and known genetic mutations for AD and FTLD.									
	SECTION 2: Etiological Diagnoses—presumed etiological d	liagnoses for the cog	nitive disor	der.						
SECTION	l 1 - Biomarkers, Imaging and Genetics									
	Complete this section if any of the following biomarker mea a presumed etiologic diagnosis. If none were used			<u>exclude</u>						
1.	MRI Findings—was MRI data or information used to support a 1 Yes (COMPLETE QUESTIONS 1a-1e6) If yes, specify year scan was obtained:	an etiologic diagnos	is?							
2.	Molecular Neuropathology (Amyloid, tau, synuclein, etc)—is neuropathology from <u>CSF, plasma, or PET tracer imaging</u> to 1 Yes (COMPLETE QUESTIONS 2a-2h)									
3.	FDG PET Findings—was FDG-PET data or information used to 1 Yes (COMPLETE QUESTIONS 3a-3d) If yes, specify year scan was obtained:	support an etiolog	ic diagnosis	s?						
4.	DAT Scan Findings—was DAT Scan data or information used t 1 Yes (COMPLETE QUESTION 4a) If yes, specify year scan was obtained:	:o support an etiolo	gic diagnos	sis?						
5.	Supportive Genetics—is there a known Autosomal Dominant 1 Yes (COMPLETE QUESTIONS 5a-5c)	t pathogenic variant	to support	t the diagnosis?						
6.	No biomarkers were collected or biomarker status is unknown or exclude a presumed etiologic diagnosis.	n and not used to su	ıpport							

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SECTION 1 - Biomarkers, Imaging a	nd Genetics	Continued

SECTION	1 - Biomarkers, Imaging and Genetics			Continued
	MRI Findings	No	Yes	Unknown/ Not Assessed
1a.	Hippocampal atrophy—was there an MRI finding of hippocampal atrophy, according to your Center's standards?	О	□ 1	<u> </u>
1b.	Were there structural MRI atrophy patterns suggestive of AD (temporal parietal or biparietal atrophy)?	□ 0	□ ₁	9
1c.	Was there structural MR evidence for frontal or anterior temporal atrophy for FTLD?	□ 0	□1	9
1d.	Were there MRI findings of assymetric atrophy	□ 0	□ 1	<u> </u>
1e.	Was there evidence for cerebrovascular disease (CVD) on imaging? (IF NO, SKIP TO QUESTION 2a)	О	□ 1	<u> </u>
	Imaging findings:			
	1e1. □ 1 Large vessel infarct(s)			
	1e2. \square 1 Lacunar infarct(s)			
	1e3. \square 1 Macrohemorrhage(s)			
	1e4. \square 1 Microhemorrhage(s)			
	1e5. \square 1 Moderate white-matter hyperintensity (CHS score 5-6)			
	1e6. \square 1 Extensive white-matter hyperintensity (CHS score 7-8+)			

Amyloid

MOLECU	LAR NEUROPATHOLOGY Blood, CSF, Tracer Pet Imaging	No	Yes	Unknown/ Not Assessed
2a.	CSF—were there CSF amyloid findings of abnormally low amyloid in CSF suggesting elevated cerebral amyloid, according to your Center's standards?	□ o	□ 1	<u></u> 9
	2a1. If assessed, year of assessment:			
2b.	Blood-based —were there blood-based measures of amyloid suggesting evidence of elevated cerebral amyloid, according to your Center's standards?	□ o	□1	<u></u> 9
	2b1. If assessed, year of assessment:			
2c.	PET —was there abnormally elevated amyloid on PET, according to your Center's standards?	□0	□ 1	<u> </u>
	2c1. If assessed, year of assessment:			

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SECTION	1 - Biomarkers, Imaging and Genetics			Continued
Tau				
2d.	CSF —was there abnormally elevated CSF ptau, according to your Center's standards?	О	□ 1	□9
	2d1. If assessed, year of assessment:			
2e.	CSF —as there abnormally elevated CSF total tau, according to your Center's standards?	□о	□ ₁	□ 9
	2e1. If assessed, year of assessment:			
2f.	Blood-based —were there blood-based measures supporting the presence of elevated cerebral tau, according to your Center's standards?	□0	□ 1	□ 9
	2f1. If assessed, year of assessment:			
2g.	PET—was there tau PET evidence for AD?	□ o	□ ₁	□9
	2g1. If assessed, year of assessment:			
Othe	r			
2h.	Was there other biomarker evidence of molecular neuropathology? (SPECIFY):	□0	□ 1	□ 9
	2h1. If assessed, year of assessment:			
				Unknown/
	FDG-PET Findings	No	Yes	Not Assessed
3a.	FDG-PET Pattern of AD—were there FDG-PET findings of temporal parietal or posterior cingulate/precuneus hypometabolism consistent with AD or known AD-related syndromes, according to your Center's standards?	□0	□1	<u> </u>
3b.	Was there FDG-PET evidence for frontal or anterior temporal hypometabolism consistent with FTLD related syndromes, according to your Center's standards?	По	□ 1	□ 9
3c.	Was there an FDG-PET finding of occipital hypometabolism or cingulate island sign consistent with LBD, according to your Center's standards?	□0	□ 1	□ 9
3d.	Other (SPECIFY):	□о	□ ₁	
	DAT-SCAN Findings	No	Yes	Unknown/ Not Assessed
4a.	Were there abnormal Dopamine transporter scan (DAT scan) findings consistent with dopaminergic neuronal loss, according to your Center's standards?	О	□ 1	□9

Participant ID:	Form date:	/	/	Visit #:	

SECTION 1	l - Biomarkers, Imaging and Genetics			Continued
	SUPPORTIVE GENETIC INFORMATION	No	Yes	Unknown/ Not Assessed
5a.	Does the participant have a dominantly inherited AD pathogenic variant (PSEN1, PSEN2, APP)? If yes, specify variant:	Оо	□ 1	<u> </u>
5b.	Does the participant have a hereditary FTLD mutation (e.g., GRN, VCP, TARBP, FUS, C9orf72, ChMP2B, MAPT)? If yes, specify variant:	□ o	□ 1	<u></u> 9
5c.	Does the participant have a hereditary mutation other than an AD or FTLD mutation? If yes, specify variant:	□ o	□ 1	<u></u> 9

SECTION 2 - Etiologic Diagnoses

Using all the available data (i.e. clincial, cognitive, biomarker, etc) please provide an etiologic 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 syndrome 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 participants with normal cognition: Indicate the presence of any diagnoses by selecting 1 = Present, and leave the questions on whether the diagnosis was primary, contributing, or non-contributing blank. Participants with positive biomarkers but no clinical symptoms of Alzheimer's disease, Lewy body disease, or frontotemporal lobar degeneration should not have these diagnoses selected as Present. Instead, the biomarker data from Section 2 can be used to identify the presence of preclinical disease.

	ETIOLOGIC DIAGNOSES	Present	Prim	ary	Contributing	Non-contributing
7.	Alzheimer's disease	□ 1	7a.	□ 1	□2	□3
8.	Lewy body disease	□ 1	8a.	□ 1	□2	□3
	8b. Dementia with Lewy Bodies	□ 1	8b1.	□ 1	□2	□3
	8c. Parkinson's disease	□ 1	8c1.	□ 1	□2	□3
	8d. Parkinson's disease Dementia	□ 1	8d1.	□ 1	□2	□3
9.	Frontotemporal lobar degeneration	□ 1	9a.	□ 1	□2	□3
	9b. Progressive supranuclear palsy (PSP)	□ 1	9b1.	□ 1	□2	□3
	9c. Corticobasal degeneration (CBD)	□ 1	9c1.	□ 1	□2	□3
	9d. FTLD with motor neuron disease	□ 1	9d1.	□ 1	□ 2	Пз
	9e. FTLD NOS	□ 1	9e1.	□ 1	□ 2	□3

Participant ID): Form date:	/	/		Visit #:	
SECTION	2 - Etiologic Diagnoses					Continued
	9f. If FTLD (questions 9a-9d) is Present, specify FTLD s 1 Tauopathy 2 TDP-43 proteinopathy 3 Other (SPECIFY): 9 Unknown	,,				
	ETIOLOGIC DIAGNOSES	Present	Prim	ary	Contributing	Non-contributing
10.	Vascular brain injury (based on clinical and imaging evidence according to your Center's standards)	□ 1	10a.	□ 1	□2	□3
11.	Multiple system atrophy	□ 1	11a.	□ 1	□ 2	□3
12.	Chronic Traumatc Encephalopathy	□ 1	12a.	□ 1	□ 2	□3
13.	Down syndrome	□ 1	13a.	□ 1	□ 2	□3
14.	Huntington's disease	□ 1	14a.	□ 1	□2	□3
15.	Prion disease (CJD, other)	□ 1	15a.	□ 1	□2	□3
16.	Amyloid Angiopathy	□ 1	16a.	□ 1	□ 2	□3

 \Box 1

 \square 1

 \square_2

 \square 2

 \square 3

□ 3

 \Box 1

□ 1

17a.

18a.

LATE: Limbic-predominant Age-Related

TDP-43 Encephalopathy

Other (SPECIFY):

17.

18.