

Coding Guidebook For Telephone Follow-up Packet

UDS v3.0, March 2015 Telephone Follow-up Packet v3.2, June 2020

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Revisions made to this Guidebook since UDS3 implementation (March 15, 2015)

Date yyyy-mm-dd	Description	Form(s) affected	Question(s) affected	Data element(s) affected
2020-07-15	Added revised MCI-LB criteria	D1	12	
2020-07-15	Updated Form C2T to include mode of communication question	C2T	0a	
2020-06-01	Revised to permit telehealth assessments during COVID-19 pandemic			
2019-03-29	Name of CDR® Dementia Staging Instrument changed to comply with trademark	B4, Z1X	N/A	N/A
2018-08-14	Phrase "telephone contact" defined	A2	10b	INCALLS
2017-10-05	Phrase "MCI due to dementia" corrected to "MCI due to AD."	D1	11	ALZDIS, ALZDISIF
2017-09-19	Instructions on completing Form CLS added	A1	N/A	HISPANIC
2017-09-19	LBD diagnostic criteria updated to reflect 2017 guidelines of Dementia With Lewy Bodies Consortium	D1	4e	LBDSYN
2017-03-14	Name of form changed from Functional Assessment Questionnaire (FAQ)	В7	N/A	N/A
2016-08-12	Sample form updated to reflect clarification of instructions — administer NPI-Q to all UDS subjects	B5	N/A	N/A
2015-10-01	Clarification added for subjects with normal cognition and a diagnosis of Parkinson's disease	D1	12, 12a	N/A
2015-10-01	Explanatory text changed to include Parkinson's disease only; Lewy body reference deleted	D1	12b	N/A
2015-07-29	Clarification added for how to answer questions for subjects of normal cognition or whose cognition has not yet been evaluated	B5	All	All
2015-06-17	For Form B5 only, Version 3.1, dated June 2015, supplants Version 3.0	B5	N/A	N/A
2015-06-17	Instructions for Form B5 (NPI-Q) corrected and expanded to match original instrument	B5	All	N/A
2015-06-17	Text of Form Question 3 changed to make it explicit that question applies to visual as well as auditory hallucinations; minor changes made in explanatory text for other questions	B5	Question 3; minor changes to 2, 4, 5	N/A
2015-05-07	Instructions added before Question 1 clarifying form completion for a subject receiving UDS v3 Form A3 for the first time	АЗ	N/A	N/A
2015-05-05	Clarification added for when version 3 Form A3 is submitted for the first time	А3	1, 5, 6a, 7a	N/A

Form T1: Inclusion Form

INSTRUCTIONS: This form is to be completed by the clinician or clinical interviewer who will participate in the telephone follow-up. For additional clarification and examples, see UDS Coding Guidebook for Telephone Follow-up Packet, Form T1. To print a copy of data previously collected for this form, go to https://www.alz.washington.edu/MEMBER/siteprint.html . Please complete the following before continuing with the Telephone Follow-up Packet. When feasible, the optimal modality of assessment would be video-assisted rather than by telephone. 1. Why is the UDS telephone follow-up protocol being used to obtain data about the subject? NO YES a. Subject is too cognitively impaired for an in-person UDS visit \prod_{1} Оο b. Subject is too physically impaired (medical illness or injury) to attend an in-person UDS visit. \Box_0 \square_1 c. Subject is homebound or in a nursing home and cannot travel. Оο \square_1 d. Subject or co-participant refused an in-person UDS visit. \prod_{1} \Box 0 e. COVID pandemic precludes traditional in-person UDS visit. \Box_0 \square_1 f. Other (SPECIFY): __ \Box o \prod_{1} (ADC staff convenience is not an acceptable reason.) 2. What modality of communication was used to collect ☐ 1 Telephone this remote UDS packet? ☐ 2 Video-assisted conference ☐ 3 Some combination of the two NO YES UNKNOWN 3. Is the subject likely to resume in-person UDS follow-up evaluation? \Box 1 \square_9 If Yes or Unknown, and this is the first telephone packet submitted for the subject, then END FORM HERE. If No or Unknown but two or more consecutive telephone packets have been submitted for

4. Has a Milestones Form documenting the change to telephone follow-up been completed?

this subject, then CONTINUE TO QUESTION 4.

(If no, complete a Milestones Form now.)

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TELEPHONE FOLLOW-UP PACKET NACC UNIFORM DATA SET (UDS)

Form T1: Inclusion Form

	ADC name: Subject ID: Form date://				
follo	TRUCTIONS: This form is to be completed by the clinician or clinical interviewer who will part w-up. For additional clarification and examples, see UDS Coding Guidebook for Telephone For rint a copy of data previously collected for this form, go to https://www.alz.washington.edu/ME	low-up Pac	ket, Forn	n T1.	
	Please complete the following before continuing with the Telephone Follow-u When feasible, the optimal modality of assessment would be video-assisted rather th		hone.		
1.	Why is the UDS telephone follow-up protocol being used to obtain data about the subject?		NO	YES	
	a. Subject is too cognitively impaired for an in-person UDS visit		□0	□1	
	b. Subject is too physically impaired (medical illness or injury) to attend an in-person UDS	visit.	□0	□1	
	c. Subject is homebound or in a nursing home and cannot travel.		□∘	П	
	d. Subject or co-participant refused an in-person UDS visit.		_o	□1	
	e. COVID pandemic precludes traditional in-person UDS visit.		□o	П	
	f. Other (SPECIFY):		□.	□1	
	(ADC staff convenience is not an acceptable reason.)				
2.	What modality of communication was used to collect this remote UDS packet? 1 Telephone 2 Video-assisted conference 3 Some combination of the	_			
		NO	YES	UNKNOWN	
3.	Is the subject likely to resume in-person UDS follow-up evaluation?	□∘	П	□ 9	
	If Yes or Unknown, and this is the first telephone packet submitted for the subject, then END FORM HERE.				
	If No or Unknown but two or more consecutive telephone packets have been submitted for this subject, then ${\bf CONTINUE}\ {\bf TO}\ {\bf QUESTION}\ {\bf 4}.$				
4.	Has a Milestones Form documenting the change to telephone follow-up been completed? (If no, complete a Milestones Form now.)	По		□9	

Form A1: Subject Demographics

1. Subject's month and year of birth (MM/YYYY):		_/		
Based on the best available information from the subject (or co-participant, if necessary), enter the subject's month and year of birth in the specified numerical format (e.g., March 1920 would be entered as "03/1920").				
2. Subject's <u>current</u> marital status:				
	\square_2	Widowed		
	Пз	Divorced		
	<u></u> 4	Separated		
	<u></u> 5	Never married (or marriage was annulled)		
	□ 6	Living as married/domestic partner		
	9	Unknown		
Select the box for the category that most accurately describes the subject's current marital status. 6=Living as married may be applied to either heterosexual or same-sex relationships. Select 9=Unknown only if the subject or co-participant is unable or unwilling to identify the subject's marital status.				
3. Subject's sex:		Male		
3. Subject's sex:		Male Female		
3. Subject's sex:4. What is the subject's living situation?	_			
•		Female		
•		Female Lives alone		
•		Female Lives alone Lives with one other person: a spouse or partner		
•		Lives alone Lives with one other person: a spouse or partner Lives with one other person: a relative, friend, or roommate Lives with caregiver who is not spouse/partner, relative,		
•		Lives alone Lives with one other person: a spouse or partner Lives with one other person: a relative, friend, or roommate Lives with caregiver who is not spouse/partner, relative, or friend		
•		Lives alone Lives with one other person: a spouse or partner Lives with one other person: a relative, friend, or roommate Lives with caregiver who is not spouse/partner, relative, or friend Lives with a group (related or not related) in a private residence Lives in group home (e.g., assisted living, nursing home,		
•		Lives alone Lives with one other person: a spouse or partner Lives with one other person: a relative, friend, or roommate Lives with caregiver who is not spouse/partner, relative, or friend Lives with a group (related or not related) in a private residence Lives in group home (e.g., assisted living, nursing home, convent) Unknown		

5. What is the subject's level of independence?	1 2 3 4 9	Able to live independently Requires some assistance with complex activities Requires some assistance with basic activities Completely dependent Unknown			
Select the box for the category that most accurately describes the level of activity the subject is <u>able</u> to do. If the subject or co-participant indicates that the subject is able to perform complex activities but is not doing the activities because of her/his living situation, the subject is still considered to be <u>able</u> to live independently.					
Select 2 = Requires some assistance with complex activities if subject has deterioration in accustomed complex abilities (e.g., paying bills, shopping, remembering appointments, driving, cooking).					
Select 3=Requires some assistance with ba abilities (e.g., eating, dressing, personal hygiene)		ivities if subject has deterioration in accustomed basic			
Select 4=Completely dependent if subject is	unable t	to perform basic activities of daily living.			
Select 9 = Unknown only if the subject or co-par situation.	rticipan	t is unable or unwilling to identify the subject's living			
6. What is the subject's primary type of residence?		Single- or multi-family private residence (apartment, condo, house)			
	\square_2	Retirement community or independent group living			
	3	Assisted living, adult family home, or boarding home			
	4	Skilled nursing facility, nursing home, hospital, or hospice			
	9	Unknown			
Select the box for the category that most accurate Select 9 = Unknown only if the subject or co-par of residence.	-	ribes the subject's type of residence. t is unable or unwilling to identify the subject's current type			
7. ZIP Code (first three digits) of subject's primary re	esidenc	e: (If unknown, leave blank)			
Provide the first three digits of the subject's ZIP C	Code. If	the ZIP Code is unknown, leave the field blank.			
(1=Yes) on their demographics form (Form Form CLS must be completed and submitted	(Form (Al) and I to NAC	M) CLS) if the subject indicated Hispanic/Latino ethnicity has not completed Form CLS at a previous visit. CC only ONCE. It may be completed along with any			

participant.



TELEPHONE FOLLOW-UP PACKET NACC UNIFORM DATA SET (UDS)

Form A1: Subject Demographics

ADC name:		Subject ID:	Form date:	/	/	 _
Visit #:	Examiner's initials:					

INSTRUCTIONS: This form is to be completed by the clinician or clinical interviewer based upon co-participant report plus ADC scheduling and medical records. For additional clarification and examples, see UDS Coding Guidebook for Telephone Follow-up Packet, Form A1. Check only one box per question.

To print a copy of data collected for this form at a previous UDS visit, go to https://www.alz.washington.edu/MEMBER/siteprint.html.

Subject's month and year of birth (MM/YYYY):	/
2. Subject's <u>current</u> marital status:	□ 1 Married □ 2 Widowed □ 3 Divorced □ 4 Separated □ 5 Never married (or marriage was annulled) □ 6 Living as married/domestic partner □ 9 Unknown
3. Subject's sex:	□ 1 Male □ 2 Female
4. What is the subject's living situation?	Lives alone Lives with one other person: a spouse or partner Lives with one other person: a relative, friend, or roommate Lives with caregiver who is not spouse/partner, relative, or friend Lives with a group (related or not related) in a private residence Lives in a group home (e.g., assisted living, nursing home, or convent) Unknown
5. What is the subject's level of independence?	□ 1 Able to live independently □ 2 Requires some assistance with complex activities □ 3 Requires some assistance with basic activities □ 4 Completely dependent □ 9 Unknown
What is the subject's primary type of residence?	☐ 1 Single- or multi-family private residence (apartment, condo, house) ☐ 2 Retirement community or independent group living ☐ 3 Assisted living, adult family home, or boarding home ☐ 4 Skilled nursing facility, nursing home, hospital, or hospice ☐ 9 Unknown
7. ZIP Code (first three digits) of subject's prima	ry residence: (If unknown, leave blank)

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Form A2: Co-participant Demographics

1. Co-participant's month and year of birth (MM/YYYY):	/ (99/9999 = unknown)		
Enter the co-participant's month and year of birth in the specified numerical format (e.g., March 1920 would be entered as "03/1920"). If the co-participant is unable or unwilling to answer, enter "99/9999".			
2. Co-participant's sex:	□ 1 Male □ 2 Female		
3. Is this a new co-participant — i.e., one who was not a co-participant at any past UDS visit?	□0 No (If No, skip to question 9) □1 Yes		
Select o=No if this co-participant has been present at any participant's month and year of birth match exactly for all vi			
Does the co-participant report being of Hispanic/Latino ethnicity (i.e., having origins from a mainly Spanish-speaking Latin American country), regardless of race?	□ 0 No (If No, skip to question 4) □ 1 Yes □ 9 Unknown (If Unknown, skip to question 4)		
Ask the co-participant whether s/he considers her/his ethnic	city to be Hispanic/Latino.		
4a. If yes, what are the co-participant's reported origins?	□ 1 Mexican, Chicano, or Mexican-American □ 2 Puerto Rican □ 3 Cuban □ 4 Dominican □ 5 Central American □ 6 South American □ 50 Other (SPECIFY): □ 99 Unknown		
Ask the co-participant what s/he considers his/her Hispanic allow only one category choice.	origins to be. Read or show the choices, if required, and		
Select 1=Mexican, Chicano, or Mexican-American if t	he co-participant reports having origins in Mexico.		
Select 2=Puerto Rican if the co-participant reports having	origins in Puerto Rico.		
Select 3=Cuban if the co-participant reports having origins	in Cuba.		
Select 4=Dominican if the co-participant reports having or	rigins in the Dominican Republic.		
Select 5=Central American if the co-participant reports h Guatemala, Honduras, Nicaragua, or Panama.	aving origins in Belize, Costa Rica, El Salvador,		
Select 6=South American if the co-participant reports have Ecuador, Paraguay, Peru, Uruguay, or Venezuela.	ving origins in Argentina, Bolivia, Chile, Colombia,		
Select 50=Other (specify) if the co-participant reports ori and enter the origin in the space provided.	gins other than those listed in options 1 through 6 above,		
Select 99=Unknown only if the co-participant is unable or unwilling to identify his/her origins.			

5.			
	What does the co-participant report as his or her race?		White
		2	Black or African American
		3	American Indian or Alaska Native
		4	Native Hawaiian or other Pacific Islander
		□ 5	Asian
		50	Other (SPECIFY):
		99	Unknown
	Ask the co-participant what s/he considers her/his race to be therefore, please do not write in "Hispanic" or the specific His Instead, be sure to indicate Hispanic ethnicity in Question 4. only as Hispanic, select 99=Unknown . Read or show the chan opportunity to record other applicable race categories in Q	spanic of If the caloices, a	origins (e.g., Mexico) as the co-participant's race. o-participant will not identify a race and identifies and allow only one category choice. There will be
	4=Native Hawaiian or Other Pacific Islander : This inc Samoan, or other Pacific Islander.	ludes N	ative Hawaiian, Guamanian or Chamorro,
	5=Asian : This includes Asian Indian, Chinese, Filipino, Japa	inese, I	Korean, Vietnamese, or other Asian.
	Select 50 = Other (specify) if the co-participant reports a raprovided. If the co-participant prefers to report her/his race a "multiracial".		•
	Select 99=Unknown only if the co-participant is unable or	ınwilliı	ng to identify her/his race.
6.	What additional race does the co-participant report?	\square_1	White
			Black or African American
		2	DIACK OF AFFICALL AFFICALL
		□ ₂	American Indian or Alaska Native
		_	
		Пз	American Indian or Alaska Native
		□3 □4	American Indian or Alaska Native Native Hawaiian or other Pacific Islander
		□3 □4 □5	American Indian or Alaska Native Native Hawaiian or other Pacific Islander Asian
		3 4 5 50	American Indian or Alaska Native Native Hawaiian or other Pacific Islander Asian Other (SPECIFY):
	If the co-participant reports an additional race, select the box race that was already provided in Question 5.	3 4 5 50 88	American Indian or Alaska Native Native Hawaiian or other Pacific Islander Asian Other (SPECIFY): None reported Unknown
		3 4 5 50 88 99	American Indian or Alaska Native Native Hawaiian or other Pacific Islander Asian Other (SPECIFY): None reported Unknown prresponds to this additional race. Do not record a
	race that was already provided in Question 5.	3 4 5 50 88 99 that co	American Indian or Alaska Native Native Hawaiian or other Pacific Islander Asian Other (SPECIFY): None reported Unknown Prresponds to this additional race. Do not record a Gee previous inclusion list (Question 5).
	race that was already provided in Question 5. 4=Native Hawaiian or Other Pacific Islander and 5=A Select 50=Other (specify) if the co-participant reports an a	3 4 5 50 88 99 that co	American Indian or Alaska Native Native Hawaiian or other Pacific Islander Asian Other (SPECIFY): None reported Unknown Orresponds to this additional race. Do not record a Gee previous inclusion list (Question 5). The provious inclusion is the provious of the provious of the provious inclusion is the provious of the
	race that was already provided in Question 5. 4=Native Hawaiian or Other Pacific Islander and 5=A Select 50=Other (specify) if the co-participant reports an athrough 5, and enter the race in the space provided. Select 88=None reported if the co-participant reports no additional companions of the co-participant reports no additional companions.	addition	American Indian or Alaska Native Native Hawaiian or other Pacific Islander Asian Other (SPECIFY): None reported Unknown Peresponds to this additional race. Do not record a Gee previous inclusion list (Question 5). The provious inclusion is the provious of the provious of the provious inclusion is the provious of the

7.	What additional race, beyond those reported in Questions 4 and 5, does the co-participant report?	1 2 3 3 4 5 5 5 5 9 9 9 9	White Black or African American American Indian or Alaska Native Native Hawaiian or other Pacific Islander Asian Other (SPECIFY): None reported Unknown
	If the co-participant reports an additional race, select the box race that was already provided in Questions 5 and 6.	that co	orresponds to this additional race. Do not record a
	4=Native Hawaiian or Other Pacific Islander and 5 =A	sian: S	See previous inclusion list (Questions 5 and 6).
	Select 50 = Other (specify) if the co-participant reports an a through 5, and enter the race in the space provided.	additio	nal race other than those listed in options 1
	Select 88=None reported if the co-participant reports no ad and 6.	ditiona	l race beyond what was recorded in Questions 5
	Select 99=Unknown if the co-participant reports an addition	onal rac	e but is unable or unwilling to identify it.
8.	Co-participant's years of education — use the codes below to attempted level is not completed, enter the number of years 12=high school or GED 16=bachelor's degree 18=master's degree 20:	comple	ted:
	This question refers to achieved educational levels, rather that Use the following to describe achieved educational levels: His master's degree=18 years, doctorate=20 years.		
	If the co-participant hasn't completed a level, enter the total relevel.	number	of years of education completed toward that
	Examples: If the co-participant attended school for eight year the co-participant completed 17.5 years of school and earned master's degree, enter "17". (However, if the co-participant at and that was the intended level of achievement, then enter "10 earn a doctorate degree, enter "20" to indicate the achieved enter	a bache tended 6".) If t	elor's degree but did not complete an attempted school for 17.5 years to earn a bachelor's degree he co-participant attended school for 25 years to
	If the co-participant is unable or unwilling to answer the ques	stion, e	nter "99".
9.	What is co-participant's relationship to the subject?		Spouse, partner, or companion (include ex-spouse, ex-partner, fiancé(e), boyfriend, girlfriend)
		2	Child (by blood or through marriage or adoption)
		<u></u>	Sibling (by blood or through marriage or adoption)
		<u>4</u>	Other relative (by blood or through marriage or adoption)
		□ ₅	Friend, neighbor, or someone known through family, friends, work, or community (e.g., church)
		☐ 6	Paid caregiver, health care provider, or clinician
	9a. How long has the co-participant known the subject?		years (999=unknown)
	If the exact number of years is unknown, ask the co-participa estimate the number of years he/she has known the subject, e		

_			
10.	Does the co-participant live with the subject?	□ 0 □ 1	No Yes (If Yes, skip to question 10)
	Select 1=Yes if the co-participant currently lives with the sub	ject at	least part of the time.
	10a. If no, approximate frequency of in-person visits?	1 2 3 4 5 6	Daily At least three times per week Weekly At least three times per month Monthly Less than once a month
	10b. If no, approximate frequency of telephone contact?	1 2 3 4 5	Daily At least three times per week Weekly At least three times per month Monthly Less than once a month
	"Telephone contact" includes by communcating by phone, applications.	video	messaging applications, and text/messaging
11.	Is there a question about the co-participant's reliability?	□ ₀	No Yes
	The co-participant's reliability should be based on a consensu participant. This question would best be filled out after the Uljudgment can be made about the co-participant's reliability. I participant, select 1=Yes .	DS asse	essments have been completed, when a better

____ Subject ID: _______ Form date: ____/____



TELEPHONE FOLLOW-UP PACKET NACC UNIFORM DATA SET (UDS)

Form A2: Co-participant Demographics

ADC name: ____

Visit	#: Examiner's initials:		
addi	TRUCTIONS: This form is to be completed by the clinician or c tional clarification and examples, see UDS Coding Guidebook t question.		
1.	Co-participant's month and year of birth (MM/YYYY):		./ (99/9999 = unknown)
2.	Co-participant's sex:	\square_1 \square_2	Male Female
3.	Is this a new co-participant — i.e., one who was not a co- participant at any past UDS visit?	□o □1	No (If No, SKIP TO QUESTION 9) Yes
4.	Does the co-participant report being of Hispanic/Latino ethnicity (i.e., having origins from a mainly Spanish- speaking Latin American country), regardless of race?	□o □1 □9	No (If No, SKIP TO QUESTION 5) Yes Unknown (If Unknown, SKIP TO QUESTION 5)
	4a. If yes, what are the co-participant's reported origins?	1 2 3 4 5 6 50 99	Mexican, Chicano, or Mexican-American Puerto Rican Cuban Dominican Central American South American Other (SPECIFY):
5.	What does the co-participant report as his or her race?	1 2 3 4 5 50	White Black or African American American Indian or Alaska Native Native Hawaiian or other Pacific Islander Asian Other (SPECIFY): Unknown
6.	What additional race does the co-participant report?	1 2 3 4 5 5 50 99	White Black or African American American Indian or Alaska Native Native Hawaiian or other Pacific Islander Asian Other (SPECIFY): None reported Unknown

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Subject ID:

Form date: ___/__/___/_____

Visit #: _____

 \square_1 White 7. What additional race, beyond those reported in Questions 5 and 6, does the co-participant report? Black or African American American Indian or Alaska Native Native Hawaiian or other Pacific Islander □ 5 Asian ☐ 50 Other (SPECIFY): ... 88 None reported 99 Unknown 8. Co-participant's years of education — use the codes below to report the level achieved; if an attempted level is not completed, enter the number of years completed: 12 = high school or GED 16 = bachelor's degree 18 = master's degree 20 = doctorate 99 = unknown Spouse, partner, or companion (include ex-spouse, 9. What is co-participant's relationship to the subject? ex-partner, fiancé(e), boyfriend, girlfriend) Child (by blood or through marriage or adoption) Sibling (by blood or through marriage or adoption) Other relative (by blood or through marriage or adoption) Friend, neighbor, or someone known through family, friends, work, or community (e.g., church) Paid caregiver, health care provider, or clinician 9a. How long has the co-participant known the subject? __ _ years (999=unknown) 10. Does the co-participant live with the subject? □o No \Box_1 Yes (If Yes, SKIP TO QUESTION 11) 10a. If no, approximate frequency of in-person visits? □ 1 Daily At least three times per week Пз Weekly At least three times per month Monthly Less than once a month □6 □ 1 Daily 10b. If no, approximate frequency of telephone contact? At least three times per week □ 3 Weekly At least three times per month 5 Monthly □6 Less than once a month

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□o No □₁ Yes

11. Is there a question about the co-participant's reliability?

Form A3: Subject Family History

SPECIAL INSTRUCTIONS for subjects who are receiving UNIONE: A subject is receiving UDS v3 Form A3 for the first time. • No A3 data has been submitted yet for this subject -O	e if:			
• A3 data has been submitted for this subject, but it was collected using UDS v2				
For such subjects, you must fill out this form in its entirety, meaning: 1. You must answer 1 - Ves to Question 1 on genetic mutations and complete 2a. 4b.				
 You must answer 1=Yes to Question 1 on genetic mutations and complete 2a – 4b. You must answer 1=Yes to Question 5 on parents and complete 5a – 5b. 				
21 Tournational 2-100 to Question 6 on paronte and 6	omprote eu est			
Corrections or new information on previously submitted family me "affected" with a neurological or psychiatric condition or who were their data should be made to that previous A3 Form. Any newly obtain diagnoses, new method of evaluation), including for family member visit, should be indicated on this form and should not be submitted. A summary of all previously submitted family history data can be formally members.	e not affected at a previous UDS visit, any corrections to tained information (e.g., new mutation information, new ers previously reported as being affected at a past UDS d as a correction to a previously submitted Form A3.			
Since the last visit, is new information available concerning genetic mutations addressed by Questions 2a through 4b, below?	0 No (Skip to Question 5) 1 Yes			
below.	9 Unknown (Skip to Question 5)			
If for a given subject you are submitting version 3 of Form A3 for the first time, you must enter 1=Yes to this question and continue to answer Questions 2a, 3a, and 4a. This would apply under the following conditions:				
 The A3 data that has been submitted for the subject was collected using UDS version 2; -OR- 				
• The subject was newly enrolled after UDS version 3 implem IVP evaluation.	entation but did not complete Form A3 during his/her			
2a. In this family, is there evidence for an AD mutation? If Yes,	O No (Skip to Question 3a)			
select predominant mutation.	1 Yes, APP			
NOTE: APOE should not be reported here.	2 Yes, PS-1 (PSEN-1)			
	☐ 3 Yes, PS-2 (PSEN-2)			
	☐8 Yes, Other (SPECIFY):			
	9 Unknown whether mutation exists (Skip to Question 3a)			
If there is any evidence for an AD mutation in any of the subject otherwise select o=No . Although blood relatives might have expredominant mutation only. Evidence may be provided via fam	ridence for more than one genetic mutation, indicate the			
Select 9=Unknown whether mutation exists if it is unknown	own whether there is an AD mutation.			
If an AD mutation is known to exist in the subject's family, but (specify) and enter "Unknown" on the specify line.	the type of mutation is unknown, select 8=Yes , Other			
Do not include APOE e4 carrier status.				

	Source of evidence for AD mutation (check one):	☐ 1 Family report (no test documentation available) ☐ 2 Commercial test documentation ☐ 3 Research lab test documentation ☐ 8 Other (SPECIFY):
За.	In this family, is there evidence for an FTLD mutation? If Yes, select predominant mutation.	O No (Skip to Question 4a) 1 Yes, MAPT 2 Yes, PGRN 3 Yes, C9orf72 4 Yes, FUS 8 Yes, Other (SPECIFY):
	If there is any evidence for an FTLD mutation in any of the submutation, otherwise select o=No . Although blood relatives migindicate the predominant mutation only. Evidence may be provided documentation.	ght have evidence for more than one genetic mutation,
	Select 9=Unknown whether mutation exists if it is unknown	wn whether there is an FTLD mutation.
	If an FTLD mutation is known to exist in the subject's family, b other (specify) and enter "Unknown" in the space provided.	ut the type of mutation is unknown, select 8=Yes ,
3b.	Source of evidence for FTLD mutation (check one):	1 Family report (no test documentation available)
		☐ 2 Commercial test documentation ☐ 3 Research lab test documentation ☐ 8 Other (SPECIFY): ☐ 9 Unknown
4a.	In this family, is there evidence for a mutation other than an AD or FTLD mutation? (If No or Unknown, SKIP TO QUESTION 5)	☐ 3 Research lab test documentation ☐ 8 Other (SPECIFY):
4a.	AD or FTLD mutation?	☐ 3 Research lab test documentation ☐ 8 Other (SPECIFY): ☐ 9 Unknown ☐ 0 No (SKIP TO QUESTION 5) ☐ 1 Yes (SPECIFY): ☐ 9 Unknown (SKIP TO QUESTION 5) with neurological, cerebrovascular, or psychiatric relatives, select 1=Yes (specify) and indicate the

INSTRUCTIONS FOR SECTIONS 5-7:

For biological parents, full siblings, and biological children with no neurological or psychiatric problem, provide the birth month, birth year, and age at death, enter **8=N/A** — **no neurological problem or psychiatric condition** in the primary neurological problem column, and leave the rest of the row blank.

For biological parents, full siblings, and biological children with an unknown neurological or psychiatric problem (clinician cannot determine specific neurological or psychiatric problem based on all available information), provide the birth month, birth year, and age at death, enter **9=Unknown** in the primary neurological problem column, and leave the subsequent items in the row blank.

If multiple neurological problems exist for a parent, sibling, or child, enter the code for the neurological condition that corresponds to the primary diagnosis.

When entering a code for the primary diagnosis ("Primary DX"), select the most specific diagnosis that is known.

If the method of evaluation is unknown, select **1=Family report**. If more than one method was used, report the highest level of diagnostic evaluation (see Appendix 2 on page 21 for an explanation of the methods of evaluation and their ranking from the highest [1] to lowest [7]).

"Age of onset" refers to the age at which the first progressive decline in cognition or behavior was noted, not the age at which diagnosis was made. If the subject and/or co-participant is unwilling or unable to answer, enter **999=Unknown**. If the primary diagnosis is a congenital condition, or present since birth, enter an age of onset of "o".

Birth year for parents, siblings, and children should be consistent across forms:

- Uniform Data Set (UDS) Initial Visit Form A3 or UDS Follow-up Visit Form A3 (if applicable),
- FTLD Module Initial Visit Form A3a or FTLD Module Follow-up Visit Form A3a (if applicable), and
- Any previously submitted FTLD Module Initial Visit Form A3F and Follow-up Visit Form A3F (if applicable).

Since the last UDS visit, is new information available concerning the status of the subject's biological mother or father?

If for a given subject you are submitting version 3 of Form A3 for the first time, you must enter **1=Yes** to this question and continue to answer the questions in rows 5a and 5b. This would apply under the following conditions:

1 Yes (COMPLETE QUESTIONS 5A-5B, AS APPLICABLE)

- The A3 data that has been submitted for the subject was collected using UDS version 2; -OR-
- The subject was newly enrolled after UDS version 3 implementation but did not complete Form A3 during his/her IVP evaluation.

If birth year is unknown, please provide an approximate year on the Initial Visit Form A3 and ensure that it is consistently reported on all Forms A3 submitted (Initial Visit and Follow-up). If it is impossible for the subject and co-participant to estimate year of birth, enter 9999=Unknown. For any biological parent with a neurological or psychiatric problem, the entire row must be filled out. If the clinician cannot determine the primary neurological problem/psychiatric condition after reviewing all available evidence, enter 9=Unknown in the **Primary neurological problem/psychiatric condition** column, and then skip the subsequent questions in the row. If the parent has no neurological or psychiatric problem, enter 8=N/A — no neurological problem or psychiatric condition in the **Primary neurological problem/psychiatric condition** column, and then skip the subsequent questions in the row.

	Birth month/year	Age at death (888=N/A,	Primary neurological problem/psychiatric condition*	Primary Dx**	Method of evaluation***	Age of onset
	(99/9999 = unknown)	999=unknown)		(999=unknown)		
5a. Mother	/	<u> </u>	<u> </u>		<u></u>	<u> </u>
5b. Father	/		_		<u>_</u>	

*CODES for neurological problems and psychiatric conditions

1 Cognitive impairment/behavior change

O No (SKIP TO QUESTION 6)

- 2 Parkinsonism
- 3 ALS
- 4 Other neurologic condition such as multiple sclerosis or stroke
- 5 Psychiatric condition such as schizophrenia, bipolar disorder, alcoholism, or depression
- 8 N/A no neurological problem or psychiatric condition

**CODES for primary diagnosis

See Appendix ${\bf 1}$ on page ${\bf 5}$ of this form.

***CODES for method of evaluation

- 1 Autopsy
- 2 Examination
- 3 Medical record review from formal dementia evaluation
- 4 Review of general medical records AND co-participant and/or subject telephone interview
- 5 Review of general medical records only
- 6 Subject and/or co-participant telephone interview
- 7 Family report

Year of birth for full siblings and biological children: "Unknown" (9999) is not a permissible value for year of birth of full siblings or biological children. If birth year is unknown, please provide an approximate year on UDS Initial Visit Form A3 and UDS Follow-up Visit Form A3 so that the sibling or child with unknown birth year ends up in correct birth order relative to the other siblings/children. Example: A subject is the oldest of three children. The subject was born in 1940 and the middle sibling in 1943; the youngest sibling's birth year is unknown. An approximate birth year of 1944 or later should be assigned to the youngest sibling.

Use that same birth year on FTLD Module Form A3a, if applicable, and across all UDS visits so that any new information on a particular sibling or child can be linked to previously submitted information. If it is impossible for the subject and co-participant to estimate the birth year, enter 999=Unknown.

FU	LL SIBLINGS
6.	How many full siblings does the subject have? If subject has no full siblings, SKIP TO QUESTION 7 .
	6a. Since the last UDS visit, is new information available concerning the status of the subject's siblings? □ 0 No (SKIP TO QUESTION 7) □ 1 Yes (COMPLETE QUESTIONS 6AA-6AT, AS APPLICABLE)
	If for a given subject you are submitting version 3 of Form A3 for the first time, you must enter 1=Yes to this question and continue to answer the questions in rows 6aa through 6at, as appropriate. This would apply under the following conditions:

- The A3 data that has been submitted for the subject was collected using UDS version 2; -OR-
- The subject was newly enrolled after UDS version 3 implementation but did not complete Form A3 during his/her IVP evaluation.

For any full sibling with a neurological or psychiatric problem, the entire row must be filled out. If the clinician cannot determine the primary neurological problem/psychiatric condition after reviewing all available evidence, enter 9=Unknown in the **Primary neurological problem/psychiatric condition** column, and then skip the subsequent questions in the row. If the sibling has no neurological or psychiatric problem, enter 8=N/A — no neurological problem or psychiatric condition in the **Primary neurological problem/psychiatric condition** column, and then skip the subsequent questions in the row.

See next page of form for list	Birth month/year	Age at death (888=N/A,	Primary neurological problem/psychiatric condition*	Primary Dx**	Method of evaluation***	Age of onset
of codes	(000-1071)		See C	ODES on page	4	(999=unknown)
6aa. Sibling 1	/		<u> </u>		<u>_</u>	
6ab. Sibling 2	/		<u></u>		<u></u>	
6ac. Sibling 3	/		<u></u>		<u></u>	
6ad. Sibling 4	/		_		<u></u>	
6ae. Sibling 5	/		<u> </u>		<u>_</u>	
6af. Sibling 6	/		<u> </u>		<u>_</u>	
6ag. Sibling 7	/		<u></u>		<u></u>	
6ah. Sibling 8	/		<u></u>		<u></u>	
6ai. Sibling 9	/		_		<u>_</u>	
6aj. Sibling 10	/		<u></u>		<u>_</u>	
6ak. Sibling 11	/		<u></u>		<u>_</u>	
6al. Sibling 12	/		<u></u>		<u></u>	
6am. Sibling 13	/		<u></u>		<u>_</u>	
6an. Sibling 14	/		<u></u>		_	
6ao. Sibling 15	/		<u></u>		_	
6ap. Sibling 16	/	<u> </u>	<u></u>		<u></u>	
6aq. Sibling 17	/		<u>_</u>		<u></u>	
6ar. Sibling 18	/		<u>_</u>		_	
6as. Sibling 19	/		<u></u>		_	
6at. Sibling 20	/		<u></u>			

Only full siblings should be listed.

BIOLOGICAL CHILDREN
7. How many biological children does the subject have? If subject has no biological children, END FORM HERE .
7a. Since the last UDS visit, is new information available concerning the status of the subject's biological children? □ 0 No (END FORM HERE) □ 1 Yes (COMPLETE QUESTIONS 7AA – 7AO, AS APPLICABLE)
If for a given subject you are submitting version 3 of Form A3 for the first time, you must enter 1=Yes to this question and continue to answer the questions in rows 7aa through 7ao, as appropriate. This would apply under the following conditions:
• The A3 data that has been submitted for the subject was collected using UDS version 2; -OR-
 The subject was newly enrolled after UDS version 3 implementation but did not complete Form A3 during his/ her IVP evaluation.

For any biological child with a neurological or psychiatric problem, the entire row must be filled out. If the clinician cannot determine the primary neurological problem/psychiatric condition after reviewing all available evidence, enter 9=Unknown in the **Primary neurological problem/psychiatric condition** column, and then skip the subsequent questions in the row. If the child has no neurological or psychiatric problem, enter 8=N/M — no neurological problem or psychiatric condition in the **Primary neurological problem/psychiatric condition** column, and then skip the subsequent questions in the row.

	Birth month/year	Age at death (888=N/A,	Primary neurological problem/psychiatric condition**	Primary Dx**	Method of evaluation***	Age of onset
	(99/9999=Unknown)	999=unknown)	See	CODES, below		(999=unknown)
7aa. Child 1	/		_			
7ab. Child 2	/		_		_	
7ac. Child 3	/		_		<u>_</u>	
7ad. Child 4	/		_			
7ae. Child 5	/		_		<u> </u>	
7af. Child 6	/		_			
7ag. Child 7	/		_		_	
7ah. Child 8	/		_		<u>_</u>	
7ai. Child 9	/				<u></u>	
7aj. Child 10	/		<u> </u>		<u> </u>	
7ak. Child 11	/		_			
7al. Child 12	/		_		_	
7am. Child 13	/		_		_	
7an. Child 14	/		_		<u> </u>	
7ao. Child 15	/		<u> </u>		<u></u>	

Only biological children should be listed.

*CODES for neurological problems and psychiatric conditions

- 1 Cognitive impairment/behavior change
- 2 Parkinsonism
- 3 ALS
- 4 Other neurologic condition such as multiple sclerosis or stroke
- 5 Psychiatric condition such as schizophrenia, bipolar disorder, alcoholism, or depression
- 8 N/A no neurological problem or psychiatric condition

**CODES for primary diagnosis

See Appendix 1 on page 5 of this form.

***CODES for method of evaluation

- 1 Autopsy
- 2 Examination
- 3 Medical record review from formal dementia evaluation
- 4 Review of general medical records AND co-participant and/or subject telephone interview
- 5 Review of general medical records only
- Subject and/or co-participant telephone interview
- 7 Family report

APPENDIX 1: PRIMARY DIAGNOSIS CODES

Enter **999=Specific diagnosis unknown** for primary diagnosis if the primary diagnosis is unknown and the method of evaluation is by any of following methods:

- 4=Review of the subject's medical records AND co-participant and/or subject telephone interview
- 5=Review of general medical records ONLY
- 6=Subject and/or co-participant telephone interview

7=Family report

If an autopsy report is available for a first-degree relative, use the predominant diagnosis indicated by the neuropathologist. In the absence of a neuropathological diagnosis, use your best clinical judgment, based on the reported features, to indicate the predominant neuropathology diagnosis.

Parkinson's disease neuropathology as the primary diagnosis should be coded as **410** = **Lewy body disease neuropathology**.

040 Mild cognitive impairment (MCI), not otherwise specified 041 MCI — amnestic, single domain 042 MCI — multiple domain with amnesia 043 MCI — single domain nonamnestic 044 MCI — multiple domain nonamnestic 045 Impaired, but not MCI 050 Alzheimer's disease dementia 070 Dementia with Lewy bodies 080 Vascular cognitive impairment or dementia 100 Impairment due to alcohol abuse 110 Dementia of undetermined etiology 120 Behavioral variant frontotemporal dementia 130 Primary progressive aphasia, semantic variant Primary progressive aphasia, nonfluent/agrammatic variant 132 Primary progressive aphasia, logopenic variant 133 Primary progressive aphasia, not otherwise specified 140 Clinical progressive supranuclear palsy 150 Clinical corticobasal syndrome/corticobasal degeneration 160 Huntington's disease 170 Clinical prion disease 180 Cognitive dysfunction from medications 190 Cognitive dysfunction from medical illness 200 Depression 210 Other major psychiatric illness 220 Down syndrome 230 Parkinson's disease 240 Stroke 250 Hydrocephalus 260 Traumatic brain injury 270 CNS neoplasm 280 Other 310 Amyotrophic lateral sclerosis 320 Multiple sclerosis Specific diagnosis unknown (acceptable if method of evaluation is not by autopsy, examination, or dementia evaluation) 400 Alzheimer's disease neuropathology 410 Lewy body disease neuropathology 420 Gross infarct(s) neuropathology 421 Hemorrhage(s) neuropathology 422 Other cerebrovascular disease neuropathology 430 ALS/MND 431 FTLD with Tau pathology — Pick's disease 432 FTLD with Tau pathology — CBD 433 FTLD with Tau pathology — PSP 434 FTLD with Tau pathology — argyrophyllic grains 435 FTLD with Tau pathology — other 436 FTLD with TDP-43 439 FTLD other (FTLD-FUS, FTLD-UPS, FTLD NOS)

440 Hippocampal sclerosis450 Prion disease neuropathology

490 Other neuropathologic diagnosis not listed above

***APPENDIX 2: METHOD OF EVALUATION

1. Autopsy

If the autopsy was performed at an outside institution, you must have the report to code as diagnosis by autopsy.

2. Examination

The subject must have been examined in person at your ADC/ institution or by genetic studies staff associated with your ADC/ institution to code as diagnosis by examination. Medical records may or may not have been used when assigning diagnosis.

3. Medical record review from formal dementia evaluation

Medical records should be from an examination that focused specifically on dementia; that was performed by a neurologist, geriatrician, or psychiatrist; and that includes a neurologic examination, an imaging study, and cognitive testing (e.g., MMSE, Blessed, or more formal tests). A telephone interview may also be used to collect additional information.

Review of general medical records AND co-participant and/or subject telephone interview

General medical records can be of various types, including those from a primary-care physician's office, hospitalization records, nursing home records, etc. They may include a neurologic exam and a cognitive test such as the MMSE along with a medical history. The telephone interview with the subject and/or the coparticipant should include a medical history to capture the nature and presentation of cognitive deficits, if present, and age of onset if symptomatic. If the subject is normal or is in the early stages of cognitive impairment, brief formal cognitive testing should be included in the interview.

5. Review of general medical records ONLY

See definition No. 4 above. If general medical records are used to diagnose a subject as demented or not demented, they should include a medical history, neurologic exam, and a cognitive test such as an MMSE. In most cases, general medical records alone should not be used to assign a diagnosis of mild cognitive impairment, or of any of the FTLD spectrum subtypes, or of parkinsonian disorders other than Parkinson's disease.

6. Subject and/or co-participant telephone interview

See definition No. 4 above.

7. Family report

Family report should be coded when the co-participant for the family reports a subject as having been diagnosed with a particular disorder. In most cases, family report alone should not be used to assign a diagnosis of mild cognitive impairment, or of any of the FTLD spectrum subtypes, or of parkinsonian disorders other than Parkinson's disease.



TELEPHONE FOLLOW-UP PACKET NACC UNIFORM DATA SET (UDS)

Form A3: Subject Family History

ADC name:		Subject ID:	Form date:	/	./	
Visit #:	Examiner's initials:					

INSTRUCTIONS: This form is to be completed by a clinician with experience in evaluating patients with neurological problems and psychiatric conditions. For additional clarification and examples, see UDS Coding Guidebook for Telephone Follow-up Packet, Form A3.

SPECIAL INSTRUCTIONS for subjects who are receiving UDS Version 3 of Form A3 for the first time:

NOTE: A subject is receiving UDS v3 Form A3 for the first time if:

- No A3 data has been submitted yet for this subject -OR-
- A3 data has been submitted for this subject, but it was collected using UDS v2

For such subjects, you must fill out this form in its entirety, meaning:

- 1. You must answer 1=Yes to Question 1 on genetic mutations and complete 2a 4b.
- 2. You must answer 1=Yes to Question 5 on parents and complete 5a 5b.
- 3. You must answer 1=Yes to Question 6a on siblings and complete 6aa 6at, as appropriate.
- 4. You must answer 1=Yes to Question 7a on children and complete 7aa 7ao, as appropriate.

Corrections or new information on previously submitted family members — For family members who were denoted as being "affected" with a neurological or psychiatric condition or who were not affected at a previous UDS visit, any corrections to their data should be made to that previous A3 Form. Any newly obtained information (e.g., new mutation information, new diagnoses, new method of evaluation), including for family members previously reported as being affected at a past UDS visit, should be indicated on this form and should not be submitted as a correction to a previously submitted Form A3.

A summary of all previously submitted family history data can be found at: https://www.alz.washington.edu/MEMBER/siteprint.html.

1.	Since the last visit, is new information available concerning genetic mutations addressed by Questions 2a through 4b, below?	O No (SKIP TO QUESTION 5) 1 Yes 9 Unknown (SKIP TO QUESTION 5)
2a.	In this family, is there evidence for an AD mutation? If Yes, select predominant mutation. NOTE: APOE should not be reported here.	O No (SKIP TO QUESTION 3a) 1 Yes, APP 2 Yes, PS-1 (PSEN 1) 3 Yes, PS-2 (PSEN 2) 8 Yes, other (SPECIFY): 9 Unknown whether mutation exists (SKIP TO QUESTION 3a)
2b.	Source of evidence for AD mutation (check one):	☐ 1 Family report (no test documentation available) ☐ 2 Commercial test documentation ☐ 3 Research lab test documentation ☐ 8 Other (SPECIFY): ☐ 9 Unknown

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Subject ID: _____ Visit #: ____

3a.	In this family, is there evidence for an FTLD mutation? If Yes, select predominant mutation.	O No (SKIP TO QUESTION 4a) 1 Yes, MAPT 2 Yes, PGRN 3 Yes, C9orf72 4 Yes, FUS 8 Yes, other (SPECIFY): 9 Unknown whether mutation exists (SKIP TO QUESTION 4a)
3b.	Source of evidence for FTLD mutation (check one):	☐ 1 Family report (no test documentation available) ☐ 2 Commercial test documentation ☐ 3 Research lab test documentation ☐ 8 Other (SPECIFY): ☐ 9 Unknown
4a.	In this family, is there evidence for a mutation other than an AD or FTLD mutation? (If No or Unknown, SKIP TO QUESTION 5)	O No (SKIP TO QUESTION 5) 1 Yes (SPECIFY): 9 Unknown (SKIP TO QUESTION 5)
4b.	Source of evidence for other mutation (check one):	☐ 1 Family report (no test documentation available) ☐ 2 Commercial test documentation ☐ 3 Research lab test documentation ☐ 8 Other (SPECIFY): ☐ 9 Unknown

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Form date: ___/__/_____

Visit #: _____

		REN	

or father?	
O No (SKIP TO QUESTION 6) 1 Yes (COMPLETE QUESTIONS 5A-5B, AS APPLICABLE)	
If birth year is unknown, please provide an approximate year on the Initial Visit Form A3 and ensure that it is consistently reported on all Forms A3 submitted (Initial Visit and Follow-up). If it is impossible for the subject and co-participant to estimate year of birth, enter 9999=Unknown. For any biological parent with a neurolog or psychiatric problem, the entire row must be filled out. If the clinician cannot determine the primary neurological problem/psychiatric condition after reviewing all available evidence, enter 9=Unknown in the Primary neurological problem/psychiatric condition column, and then skip the subsequent questions in the If the parent has no neurological or psychiatric problem, enter 8=N/A — no neurological problem or psychiatric condition in the Primary neurological problem/psychiatric condition column, and then skip the subsequent questions in the row.	ct ical ow.

	61.44	Age at death	condition*	Primary Dx**	Method of evaluation***	Age of onset
	(99/9999=Unknown)	999=Unknown)	See CODES below this table			(999=unknown)
5a. Mother	/		_		_	
5b. Father	/		_		_	

*CODES for neurological problems and psychiatric conditions

- 1 Cognitive impairment/behavior change
- 2 Parkinsonism
- 3 ALS
- 4 Other neurologic condition such as multiple sclerosis or stroke
- 5 Psychiatric condition such as schizophrenia, bipolar disorder, alcoholism, or depression
- 8 N/A no neurological problem or psychiatric condition
- 9 Unknown

**CODES for primary diagnosis

See Appendix 1 on page 5 of this form.

***CODES for method of evaluation

- 1 Autopsy
- 2 Examination
- 3 Medical record review from formal dementia evaluation
- 4 Review of general medical records AND co-participant and/or subject telephone interview
- 5 Review of general medical records only
- 6 Subject and/or co-participant telephone interview
- 7 Family report

Subject ID: _______

Form date: ____/___/______

Visit #: _____

Year of birth for full siblings and biological children: If birth year is unknown, please provide an approximate year on UDS Initial Visit Form A3 and UDS Follow-up Visit Form A3 so that the sibling/child with unknown birth year ends up in correct birth order relative to the other siblings/children.

Example: A subject is the oldest of three children. The subject was born in 1940 and the middle sibling in 1943; the youngest sibling's birth year is unknown. An approximate birth year of 1944 or later should be assigned to the youngest sibling.

Use that same birth year on FTLD Module Form A3a, if applicable, and across all UDS visits so that any new information on a particular sibling or child can be linked to previously submitted information. If it is impossible for the subject and coparticipant to estimate year of birth, enter 9999=Unknown.

FUL		

FL	JLL SIBLINGS
6.	How many full siblings does the subject have? If subject has no full siblings, SKIP TO QUESTION 7.
	6a. Since the last UDS visit, is new information available concerning the status of the subject's siblings? □ 0 No (SKIP TO QUESTION 7) □ 1 Yes (COMPLETE QUESTIONS 6aa-6at, AS APPLICABLE)
	For any full sibling with a neurological or psychiatric problem, the entire row must be filled out. If the clinician cannot determine the primary neurological problem/psychiatric condition after reviewing all available evidence, enter 9=Unknown in the Primary neurological problem/psychiatric condition column, and then skip the subsequent questions in the row. If the sibling has no neurological or psychiatric problem, enter 8=N/A — no neurological problem or psychiatric condition in the Primary neurological problem/psychiatric condition column, and then skip the subsequent questions in the row.

	Birth month/year	Age at death	Primary neurological problem/psychiatric condition*	Primary Dx**	Method of evaluation***	Age of onset
	(99/9999=Unknown)	999 = unknown)	See C	ODES on page 4		(999=unknown)
6aa. Sibling 1	/		_		_	
6ab. Sibling 2	/		_		_	
6ac. Sibling 3	/		_		_	
6ad. Sibling 4	/		_		_	
6ae. Sibling 5	/		_		_	
6af. Sibling 6	/		_		_	
6ag. Sibling 7	/		_		_	
6ah. Sibling 8	/		_		_	
6ai. Sibling 9	/		_		_	
6aj. Sibling 10	/		_		_	
6ak. Sibling 11	/		_		_	
6al. Sibling 12	/		_		_	
6am. Sibling 13	/		_		_	
6an. Sibling 14	/		_		_	
6ao. Sibling 15	/		_		_	
6ap. Sibling 16	/		_		_	
6aq. Sibling 17	/		_		_	
6ar. Sibling 18	/		_		_	
6as. Sibling 19	/		_		L	
6at. Sibling 20	/		_		_	

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		LDREN

7a. Since the last UDS visit, is new information available concerning the status of the subject's biological children?

0 No (END FORM HERE) 1 Yes (COMPLETE QUESTIONS 7aa – 7ao, AS APPLICABLE)

For any biological child with a neurological or psychiatric problem, the entire row must be filled out. If the clinician cannot determine the primary neurological problem/psychiatric condition after reviewing all available evidence, enter 9=Unknown in the Primary neurological problem/psychiatric condition column, and then skip the subsequent questions in the row. If the child has no neurological or psychiatric problem, enter 8=N/A — no neurological problem or psychiatric condition in the Primary neurological problem/psychiatric condition column, and then skip the subsequent questions in the row.

	Birth month/year	Age at death (888 = N/A,	Primary neurological problem/ psychiatric condition*	Primary Dx**	Method of evaluation***	Age of onset
	(99/9999=Unknown)	999=unknown)	See CODE	S below this tal	ble	(999=unknown)
7aa. Child 1	/		_		_	
7ab. Child 2	/		_		_	
7ac. Child 3	/		_		_	
7ad. Child 4	/		_		_	
7ae. Child 5	/		_		_	
7af. Child 6	/		_		_	
7ag. Child 7	/		_		_	
7ah. Child 8	/		_		_	
7ai. Child 9	/		_		_	
7aj. Child 10	/		_		_	
7ak. Child 11	/		_		_	
7al. Child 12	/		_		_	
7am. Child 13	/		_		_	
7an. Child 14	/		_		_	
7ao. Child 15	/		_		_	

*CODES for neurological problems and psychiatric conditions

- 1 Cognitive impairment/behavior change
- 2 Parkinsonism
- 3 ALS
- 4 Other neurologic condition such as multiple sclerosis or stroke
- 5 Psychiatric condition such as schizophrenia, bipolar disorder, alcoholism, or depression
- 8 N/A no neurological problem or psychiatric condition
- 9 Unknown

**CODES for primary diagnosis

See Appendix 1 on page 5 of this form.

***CODES for method of evaluation

- 1 Autopsy
- 2 Examination
- 3 Medical record review from formal dementia evaluation
- 4 Review of general medical records AND co-participant and/or subject telephone interview
- 5 Review of general medical records only
- 6 Subject and/or co-participant telephone interview
- 7 Family report

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Subject ID:

Form date: ___/__/___/____

Visit #: _____

**APPENDIX 1: PRIMARY DIAGNOSIS CODES

040	Mild cognitive impairment (MCI), not otherwise specified
041	MCI — single domain amnestic
042	MCI — multiple domain with amnesia
043	MCI — single domain nonamnestic
044	MCI — multiple domain nonamnestic
045	Impaired, but not MCI
050	Alzheimer's disease dementia

- 070 Dementia with Lewy bodies
- 080 Vascular cognitive impairment or dementia 100 Impairment due to alcohol abuse
- 110 Dementia of undetermined etiology
- 120 Behavioral variant frontotemporal dementia
- 130 Primary progressive aphasia, semantic variant
- 131 Primary progressive aphasia, nonfluent/agrammatic variant
- 132 Primary progressive aphasia, logopenic variant
- 133 Primary progressive aphasia, not otherwise specified
- 140 Clinical progressive supranuclear palsy
- 150 Clinical corticobasal syndrome/corticobasal degeneration
- 160 Huntington's disease
- 170 Clinical prion disease
- 180 Cognitive dysfunction from medications
- 190 Cognitive dysfunction from medical illness
- 200 Depression
- 210 Other major psychiatric illness
- 220 Down syndrome
- 230 Parkinson's disease
- 240 Stroke
- 250 Hydrocephalus
- 260 Traumatic brain injury
- 270 CNS neoplasm
- 280 Other
- 310 Amyotrophic lateral sclerosis
- 320 Multiple sclerosis
- 999 Specific diagnosis unknown (acceptable if method of evaluation is not by autopsy, examination, or dementia evaluation)

Neuropathology diagnosis from autopsy

400	Alzheimer's	disease	neuropathology	

- 410 Lewy body disease neuropathology
- 420 Gross infarct(s) neuropathology
- 421 Hemorrhage(s) neuropathology
- 422 Other cerebrovascular disease neuropathology
- 430 ALS/MND
- 431 FTLD with Tau pathology Pick's disease
- 432 FTLD with Tau pathology CBD
- 433 FTLD with Tau pathology PSP
- 434 FTLD with Tau pathology argyrophyllic grains
- 435 FTLD with Tau pathology other
- 436 FTLD with TDP-43
- 439 FTLD other (FTLD-FUS, FTLD-UPS, FTLD NOS)
- 440 Hippocampal sclerosis
- 450 Prion disease neuropathology
- 490 Other neuropathologic diagnosis not listed above

***APPENDIX 2: METHOD OF EVALUATION

Autopsy

If the autopsy was performed at an outside institution, you must have the report to code as diagnosis by autopsy.

2. Examination

The subject must have been examined in person at your ADC/ institution or by genetic studies staff associated with your ADC/ institution to code as diagnosis by examination. Medical records may or may not have been used when assigning diagnosis.

3. Medical record review from formal dementia evaluation

Medical records should be from an examination that focused specifically on dementia; that was performed by a neurologist, geriatrician, or psychiatrist; and that includes a neurologic examination, an imaging study, and cognitive testing (e.g., MMSE, Blessed, or more formal tests). A telephone interview may also be used to collect additional information.

Review of general medical records AND co-participant and/or subject telephone interview

General medical records can be of various types, including those from a primary-care physician's office, hospitalization records, nursing home records, etc. They may include a neurologic exam and a cognitive test such as the MMSE along with a medical history. The telephone interview with the subject and/or the coparticipant should include a medical history to capture the nature and presentation of cognitive deficits, if present, and age of onset if symptomatic. If the subject is normal or is in the early stages of cognitive impairment, brief formal cognitive testing should be included in the interview.

5. Review of general medical records ONLY

See definition No. 4 above. If general medical records are used to diagnose a subject as demented or not demented, they should include a medical history, neurologic exam, and a cognitive test such as an MMSE. In most cases, general medical records alone should not be used to assign a diagnosis of mild cognitive impairment, or of any of the FTLD spectrum subtypes, or of parkinsonian disorders other than Parkinson's disease.

Subject and/or co-participant telephone interview

See definition No. 4 above.

7. Family report

Family report should be coded when the co-participant for the family reports a subject as having been diagnosed with a particular disorder. In most cases, family report alone should not be used to assign a diagnosis of mild cognitive impairment, or of any of the FTLD spectrum subtypes, or of parkinsonian disorders other than Parkinson's disease.

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A4: Subject Medications

NOTE: The purpose of this form is to record all prescription medications taken by the subject within the two weeks before the current visit. Non-prescription (OTC) medications need not be reported; however, a short list of common OTC medications follows the prescription list. This form lists the 100 drugs most commonly reported by subjects in the UDS for the years 2011–2013. The drugs are ordered alphabetically by their generic names. If applicable, one or more commercial (brand) names are listed in parentheses.

s the subject currently taking any medica	tions?	0 No (END FORM HERE) 1 Yes	
IEDICATION NAME	DrugID	MEDICATION NAME	Drugl
acetaminophen-HYDROcodone (Vicodin)	d03428	estradiol (Estrace, Estrogel, Fempatch)	d0053
albuterol (Proventil, Ventolin, Volmax)	d00749	ezetimibe (Zetia)	d0482
alendronate (Fosamax)	d03849	ferrous sulfate (FeroSul, Iron Supplement)	d0382
allopurinol (Aloprim, Lopurin, Zyloprim)	d00023	fexofenadine (Allegra)	d0404
alprazolam (Niravam, Xanax)	d00168	finasteride (Propecia, Proscar)	d0056
amlodipine (Norvasc)	d00689	fluoxetine (Prozac)	d0023
atenolol (Senormin, Tenormin)	d00004	fluticasone (Flovent)	d0129
atorvastatin (Lipitor)	d04105	fluticasone nasal (Flonase, Veramyst)	d0428
benazepril (Lotensin)	d00730	fluticasone-salmeterol (Advair)	d0461
bupropion (Budeprion, Wellbutrin, Zyban)	d00181	furosemide (Lasix)	d0007
calcium acetate (Calphron, PhosLo)	d03689	gabapentin (Neurontin)	d0318
carbidopa-levodopa (Atamet, Sinemet)	d03473	galantamine (Razadyne, Reminyl)	d0475
carvedilol (Coreg, Carvedilol)	d03847	glipizide (Glucotrol)	d0024
celecoxib (Celebrex)	d04380	hydrochlorothiazide (Esidrix, Hydrodiuril)	d0025
cetirizine (Zyrtec)	d03827	hydrochlorothiazide-triamterene (Dyazide)	d0305
citalopram (Celexa)	d04332	☐ latanoprost opthalmic (Xalatan)	d0401
clonazepam (Klonopin)	d00197	levothyroxine (Levothroid, Levoxyl, Synthroid)	d0027
clopidogrel (Plavix)	d04258	☐ Iisinopril (Prinivil, Zestril)	d0073
conjugate estrogens (Cenestin, Premarin)	d00541	☐ Iorazepam (Ativan)	d0014
cyanocobalamin (Neuroforte-R, Vitamin B12)	d00413	losartan (Cozaar)	d0382
digoxin (Digitek, Lanoxin)	d00210	☐ Iovastatin (Altocor, Mevacor)	d0028
diltiazem (Cardizem, Tiazac)	d00045	meloxicam (Meloxicam, Mobic)	d0453
donepezil (Aricept)	d04099	memantine (Namenda)	d0489
duloxetine (Cymbalta)	d05355	metformin (Glucophage, Riomet)	d0380
enalapril (Vasotec)	d00013	metoprolol (Lopressor, Toprol-XL)	d0013
ergocalciferol (Calciferol, Disdol, Vitamin D)	d03128	mirtazapine (Remeron)	d0402
escitalopram (Lexapro)	d04812	montelukast (Singulair)	d0428
esomeprazole (Nexium)	d04749	naproxen (Aleve, Anaprox, Naprosyn)	d0001

nifedipine (Adalat, Procardia) nitroglycerin (Nitro-Bid, Nitro-Dur, Nitrostat) omega-3 polyunsaturated fatty acids (Omacor, Lovaza) omeprazole (Prilosec) oxybutynin (Ditropan, Urotrol) pantoprazole (Protonix)	d00314 d00051 d00321 d00497 d00325 d00328		ivastigmine (Exelon) osuvastatin (Crestor)	DrugID d04537 d04851
nitroglycerin (Nitro-Bid, Nitro-Dur, Nitrostat) omega-3 polyunsaturated fatty acids (0macor, Lovaza) omeprazole (Prilosec) oxybutynin (Ditropan, Urotrol) pantoprazole (Protonix)	d00321 d00497 d00325			d04851
omega-3 polyunsaturated fatty acids (0macor, Lovaza) omeprazole (Prilosec) oxybutynin (Ditropan, Urotrol) pantoprazole (Protonix)	d00497 d00325			40 1001
omeprazole (Prilosec) oxybutynin (Ditropan, Urotrol) pantoprazole (Protonix)	d00325		sertraline (Zoloft)	d00880
oxybutynin (Ditropan, Urotrol) pantoprazole (Protonix)			simvastatin (Zocor)	d00746
oxybutynin (Ditropan, Urotrol) pantoprazole (Protonix)			amsulosin (Flomax)	d04121
pantoprazole (Protonix)			erazosin (Hytrin)	d00386
	d04514		ramadol (Ryzolt, Ultram)	d03826
paroxetine (Paxil, Paxil CR, Pexeva)	d03157		razodone (Desyrel)	d00395
	d00345		valsartan (Diovan)	d04113
	d00348		venlafaxine (Effexor)	d03181
	d04220		varfarin (Coumadin, Jantoven)	d00022
	d00021		colpidem (Ambien)	d00022
ranitiume (Zantac)	u00021		orpidem (Ambien)	u00910
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TELEPHONE FOLLOW-UP PACKET NACC UNIFORM DATA SET (UDS)

Form A4: Subject Medications

ADC name: Subject ID:		Form date: / /	
Visit #: Examiner's initials:			
prescription medications taken by the subject withi	n the two we d of this form	or ADC staff. The purpose of this form is to record all teks before the current visit. For prescription medicati in. OTC (non-prescription) medications need not be reportion or OTC follows the prescription list.	
Is the subject currently taking any medication	ons? 🗆 o N	lo (END FORM HERE) 1 Yes	
MEDICATION NAME	DrugID	MEDICATION NAME	DrugID
acetaminophen-HYDROcodone (Vicodin)	d03428	estradiol (Estrace, Estrogel, Fempatch)	d00537
albuterol (Proventil, Ventolin, Volmax)	d00749	ezetimibe (Zetia)	d04824
alendronate (Fosamax)	d03849	ferrous sulfate (FeroSul, Iron Supplement)	d03824
allopurinol (Aloprim, Lopurin, Zyloprim)	d00023	fexofenadine (Allegra)	d04040
alprazolam (Niravam, Xanax)	d00168	finasteride (Propecia, Proscar)	d00563
amlodipine (Norvasc)	d00689	fluoxetine (Prozac)	d00236
atenolol (Senormin, Tenormin)	d00004	fluticasone (Flovent)	d01296
atorvastatin (Lipitor)	d04105	fluticasone nasal (Flonase, Veramyst)	d04283
benazepril (Lotensin)	d00730	fluticasone-salmeterol (Advair)	d04611
bupropion (Budeprion, Wellbutrin, Zyban)	d00181	furosemide (Lasix)	d00070
acalcium acetate (Calphron, PhosLo)	d03689	gabapentin (Neurontin)	d03182
arbidopa-levodopa (Atamet, Sinemet)	d03473	galantamine (Razadyne, Reminyl)	d04750
arvedilol (Coreg, Carvedilol)	d03847	glipizide (Glucotrol)	d00246
celecoxib (Celebrex)	d04380	hydrochlorothiazide (Esidrix, Hydrodiuril)	d00253
cetirizine (Zyrtec)	d03827	hydrochlorothiazide-triamterene (Dyazide)	d03052
citalopram (Celexa)	d04332	latanoprost opthalmic (Xalatan)	d04017
clonazepam (Klonopin)	d00197	levothyroxine (Levothroid, Levoxyl, Synthroid)	d00278
Clopidogrel (Plavix)	d04258	☐ Iisinopril (Prinivil, Zestril)	d00732
conjugate estrogens (Cenestin, Premarin)	d00541	☐ Iorazepam (Ativan)	d00149
cyanocobalamin (Neuroforte-R, Vitamin B12)	d00413	☐ Iosartan (Cozaar)	d03821
digoxin (Digitek, Lanoxin)	d00210	Ovastatin (Altocor, Mevacor)	d00280
diltiazem (Cardizem, Tiazac)	d00045	meloxicam (Meloxicam, Mobic)	d04532
donepezil (Aricept)	d04099	memantine (Namenda)	d04899
duloxetine (Cymbalta)	d05355	metformin (Glucophage, Riomet)	d03807
enalapril (Vasotec)	d00013	metoprolol (Lopressor, Toprol-XL)	d00134
ergocalciferol (Calciferol, Disdol, Vitamin D)	d03128	mirtazapine (Remeron)	d04025

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montelukast (Singulair)

naproxen (Aleve, Anaprox, Naprosyn)

d04812

d04749

escitalopram (Lexapro)

esomeprazole (Nexium)

d04289

d00019

niac					
niac					
E THEODIN	ATION NAME	DrugID	ME	DICATION NAME	Dru
nife	cin (Niacor, Nico-400, Nicotinic Acid)	d00314		rivastigmine (Exelon)	d04
Children	dipine (Adalat, Procardia)	d00051		rosuvastatin (Crestor)	d04
nitr	oglycerin (Nitro-Bid, Nitro-Dur, Nitrostat)	d00321		sertraline (Zoloft)	d00
ome	ega-3 polyunsaturated fatty acids (Omacor, Lovaza)	d00497		simvastatin (Zocor)	d00
ome	eprazole (Prilosec)	d00325		tamsulosin (Flomax)	d04
oxyl	outynin (Ditropan, Urotrol)	d00328		terazosin (Hytrin)	d00
pan	toprazole (Protonix)	d04514		tramadol (Ryzolt, Ultram)	d0:
pare	oxetine (Paxil, Paxil CR, Pexeva)	d03157		trazodone (Desyrel)	dO
pota	assium chloride (K-Dur 10, K-Lor, Slow-K)	d00345		valsartan (Diovan)	d0
pray	vastatin (Pravachol)	d00348		venlafaxine (Effexor)	d0:
que	tiapine (Seroquel)	d04220		warfarin (Coumadin, Jantoven)	d0
rani	tidine (Zantac)	d00021		zolpidem (Ambien)	d00
Me	dication name	DrugID		Medication name	Dru
Me	dication name	DrugID		Medication name	Dr
100 970	etaminophen (Anacin, Tempra, Tylenol)	d00049		ibuprofen (Advil, Motrin, Nuprin)	d00
2700		100100	1		1000
aso	corbic acid (C Complex, Vitamin C)	d00426		Ioratadine (Alavert, Claritin, Dimetapp, Tavist)	
ası	pirin	d00170		melatonin (Melatonin, Melatonin Time Release)	d04
ası	pirin Icium carbonate (Rolaids, Tums)	d00170 d00425		melatonin (Melatonin, Melatonin Time Release) multivitamin	d04
asi cal	pirin Icium carbonate (Rolaids, Tums) Icium-vitamin D (Dical-D, O-Cal-D)	d00170 d00425 d03137		melatonin (Melatonin, Melatonin Time Release) multivitamin multivitamin with minerals	d04 d03 d03
associated associated call	pirin Icium carbonate (Rolaids, Tums) Icium-vitamin D (Dical-D, O-Cal-D) olecalciferol (Vitamin D3, Replesta)	d00170 d00425 d03137 d03129		melatonin (Melatonin, Melatonin Time Release) multivitamin multivitamin with minerals polyethylene glycol 3350 (Miralax)	d04 d03 d03 d05
associated associated call	pirin Icium carbonate (Rolaids, Tums) Icium-vitamin D (Dical-D, O-Cal-D)	d00170 d00425 d03137		melatonin (Melatonin, Melatonin Time Release) multivitamin multivitamin with minerals	d03 d04 d03 d03 d05 d01
assi cal cal chi chi	pirin Icium carbonate (Rolaids, Tums) Icium-vitamin D (Dical-D, O-Cal-D) olecalciferol (Vitamin D3, Replesta)	d00170 d00425 d03137 d03129		melatonin (Melatonin, Melatonin Time Release) multivitamin multivitamin with minerals polyethylene glycol 3350 (Miralax) psyllium (Fiberall, Metamucil) pyroxidine (Vitamin B6)	d04 d03 d03 d05 d01
associated	pirin Icium carbonate (Rolaids, Tums) Icium-vitamin D (Dical-D, O-Cal-D) Icium-vitamin D3, Replesta) Icium-vitamin D3, Replesta) Icium-vitamin D3, Replesta)	d00170 d00425 d03137 d03129 d04420		melatonin (Melatonin, Melatonin Time Release) multivitamin multivitamin with minerals polyethylene glycol 3350 (Miralax) psyllium (Fiberall, Metamucil)	d04 d03 d03 d05

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Form B4: CDR® Dementia Staging Instrument Plus NACC FTLD Behavior & Language Domains (CDR® Plus NACC FTLD)

INSTRUCTIONS: For information on the required online CDR training, see UDS Coding Guidebook for Telephone Follow-up Packet, Form B4. This form is to be completed by the clinician or other trained health professional, based on co-participant report and behavioral and neurological exam of the subject. In the extremely rare instances when no co-participant is available, the clinician or other trained health professional must complete this form using all other available information and his/her best clinical judgment. Score only as decline from previous level due to cognitive loss, not impairment due to other factors, such as physical disability. For further information, see UDS Coding Guidebook for Initial Visit Packet, Form B4.

SECTION 1: CDR® DEMENTIA STAGING INSTRUMENT¹

The Washington University ADC provides a CDR training website for ADC personnel. This CDR training is required and may be accessed online at http://alzheimer.wustl.edu/cdr/Application/Step1.htm.

Use all information and make the best judgment. Score each category as independently as possible. Select only one box for each category, rating impairment as decline from the person's usual level due to cognitive loss alone, not impairment due to other factors such as physical disability. Occasionally, the evidence is ambiguous and the clinician's best judgment is that a category could be rated in either one of two adjacent boxes, such as **1=Mild** or **2=Moderate** impairment. In that situation, the standard procedure is to select the box of greater impairment.

Aphasia is taken into account by assessing both language and non-language function in each cognitive category. If aphasia is present to a greater degree than the general dementia, the subject is rated according to the general dementia. Supply evidence of non-language cognitive function.

A box score of o for Memory (M=o) applies to subjects who, in the clinician's judgment, have no memory impairment or have inconsistent slight forgetfulness. The adjective "slight" indicates that there is not even a suggestion that everyday function has been affected by a memory change. In contrast, a box score of o.5 in Memory indicates a consistent memory change and also suggests that the change may very subtly affect everyday performance (e.g., having to return to the grocery store after forgetting an item on the list).

Before scoring the CDR boxes, the clinician is to synthesize and evaluate all information: the report of the coparticipant, the report (and performance) of the subject, and the clinician's own observations. It may be that an inobservant co-participant reports no memory problems, whereas the subject self-reports memory problems; if the clinician's judgment is that the individual is correct, then a box score of 0.5 for Memory can be given (M=0.5). The converse also is true: a 0.5 box score can be given when the co-participant reports a problem but the subject does not. It is also possible for the clinician to rate Memory as 0.5 (M=0.5) if he/she believes a problem exists — even though neither the co-participant nor the subject reports a problem.

CDR Sum of Boxes

Calculate the sum of values for all answers and enter the total score in the space provided.

Global CDR

The standard global CDR is derived from the scores in each of the six categories ("box score") as follows:

- Memory (M) is the primary category, and all others are secondary.
- CDR = M if at least three secondary categories are given the same score as memory. Whenever three or more secondary categories are given a score greater or less than the memory score, CDR = score of majority of secondary categories on whichever side of M has the greater number of secondary categories. However, when three secondary categories are scored on one side of M and two secondary categories are scored on the other side of M, then CDR = M.
- When M = 0.5, CDR = 1 if at least three of the other categories are scored 1 or greater. If M = 0.5, then CDR cannot be 0; it can only be 0.5 or 1.
- If M = 0, then CDR = 0 unless there is impairment (0.5 or greater) in two more secondary categories, in which case CDR = 0.5.

Although applicable to most Alzheimer's disease situations, these rules do not cover all possible scoring combinations. Unusual circumstances that occasionally occur in AD, and may be expected in non-Alzheimer's dementia as well, are scored as follows:

- 1. With ties in the secondary categories on one side of M, choose the tied scores closest to M for CDR (e.g., if M and another secondary category = 3, two secondary categories = 2, and two secondary categories = 1, then CDR = 2).
- 2. When only one or two secondary categories are given the same score as M, CDR = M as long as no more than two secondary categories are on either side of M.
- 3. When M = 1 or greater, CDR cannot be 0; in this circumstance, CDR = 0.5 when the majority of secondary categories are 0.

The CDR scoring algorithm can be accessed online at http://www.biostat.wustl.edu/~adrc/cdrpgm/index.html.

	IMPAIRMENT						
Please enter score below:	None — 0	Questionable — 0.5	Mild — 1	Moderate — 2	Severe — 3		
1. Memory	No memory loss, or slight inconsistent forgetfulness	Consistent slight forgetfulness; partial recollection of events; "benign" forgetfulness	Moderate memory loss, more marked for recent events; defect interferes with everyday activities	Severe memory loss; only highly learned material retained; new material rapidly lost	Severe memory loss; only fragments remain		
2. Orientation	Fully oriented	Fully oriented except for slight difficulty with time relation- ships	Moderate difficulty with time relation- ships; oriented for place at examination; may have geograph- ic disorientation elsewhere	Severe difficulty with time relationships; usually disoriented to time, often to place	Oriented to person only		
3. Judgment and problem solving	Solves everyday problems, handles business and financial affairs well; judgment good in relation to past performance	Slight impairment in solving problems, similarities, and differences	Moderate difficulty in handling problems, similarities, and differences; social judgment usually maintained	Severely impaired in handling problems, similarities, and differences; social judgment usually impaired	Unable to make judgments or solve problems		
4. Community affairs	Independent function at usual level in job, shopping, volunteer and social groups	Slight impairment in these activities	Unable to function independently at these activities, although may still be engaged in some; appears normal to casual inspection	No pretense of independent function outside the home; appears well enough to be taken to functions outside the family home	No pretense of independent function outside the home; appears too ill to be taken to functions outside the family home		
5. Home and hobbies	Life at home, hobbies, and intellectual interests well maintained	Life at home, hobbies, and intellectual interests slightly impaired	Mild but definite impairment of function at home; more difficult chores abandoned; more complicated hobbies and interests abandoned	Only simple chores preserved; very restricted interests, poorly maintained	No significant function in the home		
6. Personal care	Fully capable of self-care (= 0).		Needs prompting	Requires assistance in dressing, hygiene, keeping of personal effects	Requires much help with personal care; frequent incontinence		
7	7 CDR SUM OF BOXES						
8 GLOBAL CDR							

¹Morris JC. The Clinical Dementia Rating (CDR): Current version and scoring rules. Neurology 43(11):2412-4, 1993. Copyright© Lippincott, Williams & Wilkins. Reproduced by permission.

SECTION 2: NACC FTLD BEHAVIOR & LANGUAGE DOMAINS

In addition to the factors investigated within the standard CDR, two additional constructs — "Behavior, Comportment, and Personality" and "Language" — have been appended as the **NACC FTLD Behavior & Language Domains**, which will aid in the identification of subjects with frontotemporal dementia and/or primary progressive aphasia, respectively. Because of their specialized nature, instructions for the scoring of each item are outlined below.

Behavior, Comportment, and Personality

This item should be completed by a clinician or other trained health professional who is skilled in the assessment of FTLD, based on informant report and a review of the subject's cognitive, functional, and behavioral status. This domain is intended to assess changes in personality, aberrant behaviors, and changes in interpersonal relationships. The kinds of specific issues that might fall under these rubrics include: loss of insight, disinhibition, apathy, social withdrawal and disengagement, emotional lability, easy distractibility, reduced empathy for the feelings of others, impulsivity, and changes in eating habits and table manners. A key element of each of these is the degree to which these behaviors impact interpersonal relationships.

Language

This item should be completed by a clinician or other trained health professional who is well versed in aphasia and aphasic disorders, based on information derived from the informant and also from clinical assessment of the patient's language functions in the course of the clinical interview and the mental status examination. This domain is intended to assess changes in language. The components of language that are primarily of interest include: spontaneous speech, auditory comprehension, object naming, reading and writing. Using these in combination, the goal is to assess the subject's ability to create and understand various forms of information. The rate at which these are generated or comprehended is also of interest.

	IMPAIRMENT						
Please enter score below:	None — 0	Questionable — 0.5	Mild — 1	Moderate — 2	Severe — 3		
9. Behavior, comportment, and personality ²	Socially appropriate behavior	Questionable changes in comportment, empathy, appropriateness of actions	Mild but definite changes in behavior	Moderate behavioral changes, affecting interpersonal relationships and interactions in a significant manner	Severe behavioral changes, making interpersonal interactions all unidirectional		
10. Language³ └─. └─	No language difficulty, or occasional mild tip- of-the-tongue	Consistent mild word-finding difficul- ties; simplification of word choice; circum- locution; decreased phrase length; and/or mild comprehension difficulties	Moderate word-find- ing difficulty in speech; cannot name objects in envi- ronment; reduced phrase length and/or agrammatical speech and/or reduced comprehension in conversation and reading	Moderate to severe impairments in either speech or comprehension; has difficulty communicating thoughts; writing may be slightly more effective	Severe comprehension deficits; no intelligible speech		

²Excerpted from the Frontotemporal Dementia Multicenter Instrument & MR Study (Mayo Clinic, UCSF, UCLA, UW).

³Excerpted from the PPA-CDR: A modification of the CDR for assessing dementia severity in patients with primary progressive aphasia (Johnson N, Weintraub S, Mesulam MM), 2002.

TELEPHONE FOLLOW-UP PACKET NACC UNIFORM DATA SET (UDS)



Form B4: CDR® Dementia Staging Instrument PLUS NACC FTLD Behavior & Language Domains (CDR® Plus NACC FTLD)

ADC name: ______ Visit #: _____ Examiner's initials: _____

INSTRUCTIONS: For information on the required online CDR training, see UDS Coding Guidebook for Telephone Follow-up Packet, Form B4. This form is to be completed by the clinician or other trained health professional, based on co-participant report and behavioral and neurological exam of the subject. In the extremely rare instances when no co-participant is available, the clinician or other trained health professional must complete this form using all other available information and his/her best clinical judgment. Score only as decline from previous level due to cognitive loss, not impairment due to other factors, such as physical disability. For further information, see UDS Coding Guidebook for Telephone Follow-up Packet, Form B4.

SECTION 1: CDR® Dementia Staging Instrument¹

Please enter			IMPAIRMENT		
score below:	None — 0	Questionable — 0.5	Mild — 1	Moderate — 2	Severe — 3
1. Memory	No memory loss, or slight inconsistent forgetfulness	Consistent slight forgetfulness; partial recollection of events; "benign" forgetfulness	Moderate memory loss, more marked for recent events; defect interferes with everyday activities	Severe memory loss; only high- ly learned material retained; new material rapidly lost	Severe memory loss; only fragments remain
2. Orientation	Fully oriented	Fully oriented except for slight difficulty with time relation- ships	Moderate difficulty with time re- lationships; oriented for place at examination; may have geograph- ic disorientation elsewhere	Severe difficulty with time re- lationships; usually disoriented to time, often to place	Oriented to person only
3. Judgment and problem solving	Solves everyday problems, handles business and financial affairs well; judgment good in relation to past performance	Slight impairment in solving problems, similarities, and differences	Moderate difficulty in handling problems, similarities, and differences; social judgment usually maintained	Severely impaired in handling problems, similarities, and differences; social judgment usually impaired	Unable to make judgments or solve problems
4. Community affairs	Independent function at usual level in job, shopping, volunteer and social groups	Slight impairment in these activities	Unable to function independently at these activities, although may still be engaged in some; appears normal to casual inspection	No pretense of independent function outside the home; appears well enough to be taken to functions outside the family home	No pretense of independent function outside the home; appears too ill to be taken to functions outside the family home
5. Home and hobbies	Life at home, hobbies, and intellectual interests well maintained	Life at home, hobbies, and intellectual interests slightly impaired	Mild but definite impairment of function at home; more difficult chores abandoned; more com- plicated hobbies and interests abandoned	Only simple chores preserved; very restricted interests, poorly maintained	No significant function in the home
6. Personal care	Fully capable of self-care (= 0).		Needs prompting	Requires assistance in dressing, hygiene, keeping of personal effects	Requires much help with personal care; frequent incontinence
7	CDR SUM OF BOXES				
8	GLOBAL CDR				

¹Morris JC. The Clinical Dementia Rating (CDR): Current version and scoring rules. Neurology 43(11):2412-4, 1993. Copyright© Lippincott, Williams & Wilkins. Reproduced by permission.

UDS v3.0, March 2015; TFP v3.2, June 2020 National Alzheimer's Coordinating Center | (206) 543-8637 | naccmail@uw.edu | www.alz.washington.edu | Page 1 of 2

Form date: ____/ ___/ ________

Visit #: ______

INSTRUCTIONS: For information on the required online CDR training, see UDS Coding Guidebook for Telephone Follow-up Packet, Form B4. This form is to be completed by the clinician or other trained health professional, based on co-participant report and behavioral and neurological exam of the subject. In the extremely rare instances when no co-participant is available, the clinician or other trained health professional must complete this form using all other available information and his/her best clinical judgment. Score only as decline from previous level due to cognitive loss, not impairment due to other factors, such as physical disability. For further information, see UDS Coding Guidebook for Telephone Follow-up Packet, Form B4.

SECTION 2: NACC FTLD BEHAVIOR & LANGUAGE DOMAINS

Please enter			IMPAIRMENT		
score below:	None — 0	Questionable — 0.5	Mild — 1	Moderate — 2	Severe — 3
9. Behavior, comportment, and personality ²	Socially appropriate behavior	Questionable changes in comportment, empathy, appropriateness of actions	Mild but definite changes in behavior	Moderate behavioral changes, affecting interpersonal rela- tionships and interactions in a significant manner	Severe behavioral changes, making interpersonal interactions all unidirectional
10. Language ³	No language difficulty, or occasional mild tip-of-the-tongue	Consistent mild word-finding difficulties; simplification of word choice; circumlocution; decreased phrase length; and/or mild comprehension difficulties	Moderate word-finding difficulty in speech; cannot name objects in environment; reduced phrase length and/or agrammatical speech and/or reduced comprehension in conversation and reading	Moderate to severe impair- ments in either speech or comprehension; has difficulty communicating thoughts; writing may be slightly more effective	Severe comprehension deficits; no intelligible speech

²Excerpted from the Frontotemporal Dementia Multicenter Instrument & MR Study (Mayo Clinic, UCSF, UCLA, UW).

Excerpted from the PPA-CDR: A modification of the CDR for assessing dementia severity in patients with primary progressive aphasia (Johnson N, Weintraub S, Mesulam MM), 2002.

Form B₅ (v_{3.1}): Neuropsychiatric Inventory Questionnaire (NPI-Q¹)

ADC personnel must be certified as an NPI-Q interviewer through the online training system developed by the University of California Los Angeles and NACC. The NPI-Q Interviewer Certification system may be accessed through the NACC website at https://www.alz.washington.edu/npiq/signin.html. The procedures established in the training system must be followed to complete this form.

The Neuropsychiatric Inventory — Questionnaire (NPI-Q) was developed and cross-validated with the standard NPI to provide a brief assessment of neuropsychiatric symptomatology in routine clinical practice settings (Kaufer et al., J Neuropsychiatry Clin Neurosci 2000, 12:233-239). The NPI-Q is adapted from the NPI (Cummings et al., Neurology 1994; 44:2308-2314), a validated informant-based interview that assesses neuropsychiatric symptoms over the previous month. The original NPI included 10 neuropsychiatric domains; two others, Nighttime Behavioral Disturbances and Appetite/Eating Changes, have subsequently been added.

Each of the 12 NPI-Q domains contains a survey question that reflects cardinal symptoms of that domain. Initial responses to each domain question are "Yes" (present), "No" (absent), or "Unknown". If the response to the domain question is "No" or "Unknown", the interviewer goes to the next question. If "Yes", the interviewer then rates the Severity of the symptoms present within the last month on a 3-point scale.

It is recommended that responses to the NPI-Q be reviewed for completeness by the interviewer and for clarifying uncertainties after each administration.

The NPI and NPI-Q are both copyright-protected by Jeffrey L. Cummings, MD. The NPI-Q was developed by Daniel Kaufer, MD with permission. **Use of the NPI or NPI-Q in investigational studies sponsored in whole or part by for-profit entities is prohibited without express written consent.**

For inquiries regarding the NPI-Q, contact:

Jeffrey L. Cummings, MD (cumminj@ccf.org) Cleveland Clinic Lou Ruvo Center for Brain Health Mail Code Las Vegas, 888 W Bonneville Las Vegas, NV 89106

The NPI-Q can be found at <u>www.NPItest.net</u>

This is Version 3.1 of Form B5. The instructions in the box below have changed significantly over Version 3.0.

INSTRUCTIONS: This form is to be completed by the clinician or other trained health professional based on coparticipant interview, as described by the training video. (This is not to be completed by the subject as a paper-and-pencil self-report.) For information on NPI-Q Interviewer Certification, see UDS Coding Guidebook for Telephone Follow-up Visit Packet, Form B5. Check only <u>one</u> box for each category of response.

Please answer the following questions based on <u>changes</u> that have occurred since the patient first began to experience memory (i.e., cognitive) problems. **Select 1=Yes** <u>only</u> if the symptom(s) has been present <u>in the last month</u>. Otherwise, select **0=No**. (NOTE: for the UDS, please administer the NPI-Q to all subjects.)

For each item marked **1=Yes**, rate the SEVERITY of the symptom (how it affects the patient):

- 1 = Mild (noticeable, but not a significant change) 2 = Moderate (significant, but not a dramatic change)
- 3=**Severe** (very marked or prominent; a dramatic change)

The wording of the original NPI-Q focused on changes that have occurred since the patient first began to experience *memory* problems. However, in order to assess neuropsychiatric symptoms associated with etiologies other than Alzheimer's disease, the NPI-Q instructions have been edited to capture changes that have occurred since the patient first began to experience *cognitive* problems.

For subjects who are cognitively normal or whose cognition has not yet been evaluated — Please report any behaviors or symptoms that were present within the last month, ignoring behaviors and symptoms that are usual for the subject and have been customary throughout his/her life.

If the co-participant does not answer a question, select **9=Unknown**.

1.	NPI CO-PARTICIPANT: ☐ 1 Spouse ☐ 2 Child ☐ 3 Other (SPECIFY):						s	SEVERITY		
		J					Mild	Mod	Severe	
2.	Delusions — Does the patient have false beliefs, such as thinking that others are stealing from him/her or planning to harm him/her in some way?	2 a.		О	☐ 9	2b.		☐ 2	□ 3	☐ 9
3.	Hallucinations — Does the patient have hallucinations such as false visions or voices? Does he or she seem to hear or see things that are not present?	За.	□ 1	□о	<u> </u>	3b.	□ 1	☐ 2	□ 3	<u> </u>
4.	Agitation/aggression — Is the patient resistive to help from others at times, or hard to handle?	4a.	□ 1	О	<u> </u>	4b.		☐ 2	□ 3	<u> </u>
5.	Depression/dysphoria — Does the patient seem sad or say that he/she is depressed?	5a.	□ 1	О	9	5b.		□ 2	Пз	<u> </u>
6.	Anxiety — Does the patient become upset when separated from you? Does he/she have any other signs of nervousness such as shortness of breath, sighing, being unable to relax, or feeling excessively tense?	6a.		О	☐ 9	6b.		□ ₂	Пз	<u> </u>
7.	Elation/euphoria — Does the patient appear to feel too good or act excessively happy?	7a.	□ 1	О	□ 9	7b.		□ 2	Пз	9
8.	Apathy/indifference — Does the patient seem less interested in his/her usual activities or in the activities and plans of others?	8a.		□ o	<u> </u>	8b.		☐ 2	□ 3	□ 9
9.	Disinhibition — Does the patient seem to act impulsively, for example, talking to strangers as if he/she knows them, or saying things that may hurt people's feelings?	9a.		□ o	<u></u> 9	9b.		☐ 2	3	□ 9
10.	Irritability/lability — Is the patient impatient and cranky? Does he/she have difficulty coping with delays or waiting for planned activities?	10a.		□ o	<u> </u>	10b.		□ 2	□ 3	<u> </u>
11.	Motor disturbance — Does the patient engage in repetitive activities such as pacing around the house, handling buttons, wrapping string, or doing other things repeatedly?	11a.		□ o	<u> </u>	11b.		☐ 2	3	<u> </u>
12.	Nighttime behaviors — Does the patient awaken you during the night, rise too early in the morning, or take excessive naps during the day?	12a.		□ o	<u></u> 9	12b.		☐ 2	□ 3	<u> </u>
13.	Appetite/eating — Has the patient lost or gained weight, or had a change in the type of food he/she likes?	13a.		□ o	<u> </u>	13b.		☐ 2	Пз	<u> </u>

Subject ID: ____ Form date: __/_ /___ Visit #: ___ Examiner's initials: ____



TELEPHONE FOLLOW-UP PACKET NACC UNIFORM DATA SET (UDS)

Form B5: BEHAVIORAL ASSESSMENT Neuropsychiatric Inventory Questionnaire (NPI-Q1)

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video.	INSTRUCTIONS: This form is to be completed by the clinician or other trained health professional based on co-participant interview, as described by the training video. (This is not to be completed by the subject as a paper-and-pencil self-report.) For information on NPI-Q Interviewer Certification, see UDS Coding Guidebook for Telephone Follow-up Packet, Form B5. Check only one box for each category of response.										
pro su Fo	INSTRUCTIONS: Please answer the following questions based on changes that have occurred since the patient first began to experience memory (i.e., cognitive) problems. Select 1=Yes only if the symptom(s) has been present in the last month. Otherwise, select 0=No. (NOTE: for the UDS, please administer the NPI-Q to all subjects.) For each item marked 1=Yes, rate the SEVERITY of the symptom (how it affects the patient): 1=Mild (noticeable, but not a significant change)										
1.	NPI CO-PARTICIPANT: 1 Spouse 2 Child 3 Other (SPECIFY):		Yes	No	Unknown			SEVERITY Mild Mod Severe Unknown			Unknown
2.		2a.	П	□∘	□9		2b.	□ 1	□2	Πз	□9
3.	Hallucinations — Does the patient have hallucinations such as false visions or voices? Does he or she seem to hear or see things that are not present?	3a.	□ 1	_ o	_ 9		3b.		□ 2	Пз	☐ 9
4.	Agitation/aggression — Is the patient resistive to help from others at times, or hard to handle?	4a.	П	□ •	□ 9		4b.	П	□ 2	Пз	□ 9
5.		5a.		_ o	□ 9		5b.		_ 2	Пз	<u> </u>

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SAMPLE FORM

ubject ID:		Form date://	Visit #:
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INSTRUCTIONS: Please answer the following questions based on changes that have occurred since the patient first began to experience memory (i.e., cognitive) problems. Select 1=Yes only if the symptom(s) has been present in the last month. Otherwise, select 0=No. (NOTE: for the UDS, please administer the NPI-Q to all subjects.)

For each item marked 1=Yes, rate the SEVERITY of the symptom (how it affects the patient):

1=Mild (noticeable, but not a significant change) 2=Moderate (significant, but not a dramatic change) 3=Severe (very marked or prominent; a dramatic change)

								SI	EVERIT	Υ	
			Yes	No	Unknown			Mild	Mod	Severe	Unknown
6.	Anxiety — Does the patient become upset when separated from you? Does he/she have any other signs of nervousness such as shortness of breath, sighing, being unable to relax, or feeling excessively tense?	6a.	□ 1	_ o	□9		6b.	□ 1	_ 2	Пз	9
7.	Elation/euphoria — Does the patient appear to feel too good or act excessively happy?	7a.	□ 1	□ o	9		7b.	□ 1	_ 2	Пз	9
8.	Apathy/ indifference — Does the patient seem less interested in his/her usual activities or in the activities and plans of others?	8a.	□ 1	_ o	□ 9		8b.	□ 1	_ 2	Пз	9
9.	Disinhibition — Does the patient seem to act impulsively, for example, talking to strangers as if he/she knows them, or saying things that may hurt people's feelings?	9a.		□∘	□9		9b.	П	□ 2	Пз	□9
10.	Irritability/lability — Is the patient impatient and cranky? Does he/she have difficulty coping with delays or waiting for planned activities?	10a.		_ o	9	:	10b.	□ 1	_ 2	_ 3	9
11.	Motor disturbance — Does the patient engage in repetitive activities such as pacing around the house, handling buttons, wrapping string, or doing other things repeatedly?	11a.		□•	□ 9	,	11ь.	□ 1	_ 2	Пз	□9
12.	Nighttime behaviors — Does the patient awaken you during the night, rise too early in the morning, or take excessive naps during the day?	12a.	П	□ 0	□ 9	1	12b.	П	□ 2	Пз	9
13.	Appetite/eating — Has the patient lost or gained weight, or had a change in the type of food he/she likes?	13a.	П	□0	_ 9	1	13b.	П	□2	Пз	☐ 9

Form B6: Geriatric Depression Scale (GDS)

ASSESSMENT OF EMOTIONAL FUNCTIONING

While likely an infrequent occurrence, some participants may produce elevated scores on the Geriatric Depression Scale, suggesting the presence of significant emotional distress or suicidal ideation. If not already in place, it is strongly recommended that centers adopt guidelines for handling these situations remotely, including identifying the present location and address of any participant who demonstrates emotional distress. The following set of questions represents one example of how to manage elevated depression scores on the GDS when assessed by phone.

These guidelines are for certified interviewers when they suspect or detect significant emotional distress or suicidal ideation. "Significant emotional distress" is suggested by a score greater than 8 on the Geriatric Depression Scale — Short Form or by any responses during the encounter that suggest significant emotional distress, such as statements regarding suicide, hopelessness, or lasting depressed mood.

Please note that the following questions are intended only as an example. Centers may substitute their own script.

If GDS > 8, or if you suspect the participant is significantly distressed, then say:

1.		ur response to some of the questions suggests to me that you might be eriencing some significant emotional distress at this time. Is that true?"	□No	Yes
	you	To," then say: "Thanks. If you do, we recommend you speak with someone feel comfortable talking to — a family member, your physician, a nselor, or your clergy person." Continue with administration.		
2.	If "Y	es," then say: "I see. I need to ask you a couple more questions."		
	2a.	"In the past month have you thought you would be better off dead or wished you were dead?"	□ No □	Yes
	2b.	"In the past month have you wanted to harm yourself?	□No	Yes
	2c.	"In the past month have you thought about suicide?"	\square No	Yes
	2d.	"In the past month have you had a suicide plan?"	\square No	Yes
	2e.	"In the past month have you attempted suicide?"	□No	Yes

If responses to 2b through 2e are "NO," then say: "Thank you. We recommend you speak with a family member, your physician, or another professional like a psychologist, clergy person, or counselor to get help with your distress." Continue with administration.

If any response to 2b - 2e is "YES," then say: "We strongly recommend that you speak with a family member, your physician, or another professional like a psychologist, clergyman, or counselor to get help with your distress. I will let one of our study clinicians and one of the lead investigators at our ADRC know about your distress level so he/she can follow up with you and perhaps assist you in finding help."

Call the on-duty study clinician immediately and inform him/her of the participant's status and review the call with him/her. Study clinician will contact the participant by phone and follow up as per Center protocol.

Save a copy of all emails and other documents related to this event.

SUICIDAL IDEATION									
ADRC CCC PI notified date:	Follow up with participant:								
	Follow-up date:	☐ No follow up required							
ADRC staff initials:	Outcome/follow-up comments:								

Complete the form above and attach it to the test administration booklet for data entry in the ADRC website for the study. Update with any follow-up information as it is received. Attach all correspondence to this document and file in participant's file.

The Form is intended for completion by clinician or other trained health professional as a direct subject interview. The form is <u>not</u> to be administered to the co-participant. If your Center prefers to administer the entire 30-item GDS, please <u>first</u> administer this 15-item form and score appropriately; then administer the remaining 15 items on a separate non-UDS form.

The Geriatric Depression Scale was developed by Stanford University as a basic screening measure for depression in older adults. Further information is available online at http://www.stanford.edu/~yesavage/GDS.html.

Check this box and enter "88" below for the Total GDS Score if and only if the subject:	1.) does not
attempt the GDS, or 2.) answers fewer than 12 questions.	

Select **9=Did not answer** if the subject is unable or unwilling to answer a question.

Instruct the subject: "In the next part of this interview, I will ask you questions about your feelings. Some of the questions I will ask you may not apply, and some may make you feel uncomfortable. For each question, please answer "yes" or "no," depending on how you have been feeling **in the past week, including today."**

		Yes	No	Did not answer
1.	Are you basically satisfied with your life?	□0	□ 1	□9
2.	Have you dropped many of your activities and interests?	□ 1	□0	□9
3.	Do you feel that your life is empty?	□ 1	□0	□9
4.	Do you often get bored?	□ 1	□0	□9
5.	Are you in good spirits most of the time?	□0	□1	□9
6.	Are you afraid that something bad is going to happen to you?	□ 1	□0	□9
7.	Do you feel happy most of the time?	□0	□1	□9
8.	Do you often feel helpless?	□ 1	□0	□ 9
9.	Do you prefer to stay at home, rather than going out and doing new things?	□ 1	□0	□ 9
10.	Do you feel you have more problems with memory than most?	□ 1	□0	□ 9
11.	Do you think it is wonderful to be alive now?	□0	□ 1	□9
12.	Do you feel pretty worthless the way you are now?s	□ 1	□0	□9
13.	Do you feel full of energy?	□0	□ 1	□9
14.	Do you feel that your situation is hopeless?	□ 1	□0	□9
15.	Do you think that most people are better off than you are?	□ 1	□0	□9

16. Sum all checked answers for a Total GDS Score (max score = 15; did not complete = 88)

Calculate the sum of values for all checked "Yes" or "No" answers and enter the total score in the space provided. The calculation may include a maximum of three unanswered items, and the final sum must be prorated for the number of unanswered items (see instructions below for prorating scores). If more than three items are unanswered, however, the test must be considered incomplete and the Total GDS Score entered as **88=Did not complete**.

PRORATING SCORES (what to do if the subject does not answer up to three items): If up to three of the 15 items are unanswered (i.e., responses are **9=Did not answer**), add the total score on the completed items plus an estimated score for the unanswered items to get a total score. The estimated score for unanswered items is calculated as:

(Total score of completed items / # of completed items) * (# of unanswered items)

You may get a fractional answer that requires rounding. For example, if the subject got a score of 5 for 12 completed items, then the estimated total score is 5 + [(5/12) * 3] = 6.25. Since the decimal portion of this value is <0.50, the total GDS score is 6.



TELEPHONE FOLLOW-UP VISIT NACC UNIFORM DATA SET (UDS)

Form B6: BEHAVIORAL ASSESSMENT — Geriatric Depression Scale (GDS)1

	me: Subject ID: Form da	te: /	/					
Visit #:	Examiner's initials:							
For add	INSTRUCTIONS: This form is to be completed by the clinician or other trained health professional, based on subject response. For additional clarification and examples, see UDS Coding Guidebook for Telephone Follow-up Visit Packet, Form B6. Check only one answer per question.							
	Check this box and enter "88" below for the Total GDS Score if and only if the attempt the GDS, or 2.) answers fewer than 12 questions.	subject:	1.) does n	ot				
	Instruct the subject: "In the next part of this interview, I will ask you questions about your feelings. Some of the questions I will ask you may not apply, and some may make you feel uncomfortable. For each question, please answer "yes" or "no," depending on how you have been feeling in the past week, including today."							
		Yes	No	Did not answer				
1.	Are you basically satisfied with your life?	□о	□ 1	□9				
2.	Have you dropped many of your activities and interests?	□1	□0	□9				
3.	Do you feel that your life is empty?	□1	□0	□ 9				
4.	Do you often get bored?	□1	□ o	□9				
5.	Are you in good spirits most of the time?	□0	□ 1	□9				
6.	Are you afraid that something bad is going to happen to you?	□1	□ o	□9				
7.	Do you feel happy most of the time?	□о	□ 1	□9				
8.	Do you often feel helpless?	□1	□ 0	□9				
9.	Do you prefer to stay at home, rather than going out and doing new things?	□1	□0	□9				
10.	Do you feel you have more problems with memory than most?	□1	□0	□9				
11.	Do you think it is wonderful to be alive now?	□0	□ 1	□9				
12.	Do you feel pretty worthless the way you are now?	□1	□0	□9				
13.	Do you feel full of energy?	□ o	□ 1	□9				
14.	Do you feel that your situation is hopeless?	□1	□0	□9				
15.	Do you think that most people are better off than you are?	□1	□0	□9				
16.	Sum all checked answers for a Total GDS Score (max score=15; did not complete=88	9) _						

¹Sheikh JI, Yesavage JA. Geriatric Depression Scale (GDS): Recent evidence and development of a shorter version. Clinical Gerontology: A Guide to Assessment and Intervention 165–173, NY: The Haworth Press, 1986. Reproduced by permission of the publisher.

National Alzheimer's Coordinating Center + (206) 543-8637 + fax: (206) 616-5927 + naccmail@uw.edu + www.alz.washington.edu

Form B7: NACC Functional Assessment Scale (FAS1)

The Form is intended for completion by clinician or other trained health professional per co-participant interview. The intent of the FAS is to assess change in an individual's functional activities, relative to previously attained abilities, that are caused by cognitive dysfunction. Select the most accurate response, based on the co-participant's assessment.

	past four weeks, did the subject have Ity or need help with:	Not applicable (e.g., never did)	Normal	Has difficulty, but does by self	Requires assistance	Dependent	Unknown			
1.	Writing checks, paying bills, or balancing a checkbook	□8	О	□ 1	☐ 2	Пз	9			
2.	Assembling tax records, business affairs, or other papers	□8	О	□ 1	<u> </u>	Пз	9			
3.	Shopping alone for clothes, household necessities, or groceries	□8	Оо	□ 1	□ 2	Пз	9			
4.	Playing a game of skill such as bridge or chess, working on a hobby	□8	О	□ 1	☐ 2	Пз	9			
5.	Heating water, making a cup of coffee, turning off the stove	□8	О		☐ 2	Пз	9			
6.	Preparing a balanced meal	□8	О		□ ₂	Пз	□ 9			
7.	Keeping track of current events	□8	О		□ ₂	Пз	9			
8.	Paying attention to and understanding a TV program, book, or magazine	□8	О		□ ₂	3	<u> </u>			
9.	Remembering appointments, family occasions, holidays, medications	□8	О		<u> </u>	Пз	9			
10.	Traveling out of the neighborhood, driving, or arranging to take public transportation	□8	О	□ 1	☐ 2	З	9			
an	If the co-participant indicates that the subject no longer performs a particular task, it is reasonable to probe further and ask if they think the subject <i>could</i> still do the task. This will help tease out the relevant cognitive impairment. If the co-participant believes the subject did the activity but cannot speak to the subject's potential changes in that									

activity, then he/she should select **9=Unknown**.

¹Adapted from table 4 of Pfeffer RI, Kurosaki TT, Harrah CH, et al. Measurement of functional activities of older adults in the community. J Gerontol 37:323–9, 1982. Copyright© 1982. The Gerontological Society of America. Reproduced by permission of the publisher.



TELEPHONE FOLLOW-UP PACKET NACC UNIFORM DATA SET (UDS)

Form B7: FUNCTIONAL ASSESSMENT NACC Functional Assessment Scale (FAS1)

ADC na	me: Subject ID: Form date:			VISIT #:	Exa	miners initials	
	UCTIONS: This form is to be completed by the clinician or other trained health profession OS Coding Guidebook for Telephone Follow-up Packet, Form B7. Indicate the level of per						nformation,
In th	e past four weeks, did the subject have difficulty or need help with:	Not applicable (e.g., never did)	Normal	Has difficulty, but does by self	Requires assistance	Dependent	Unknown
1.	Writing checks, paying bills, or balancing a checkbook	□8	$\Box \circ$	□1	□2	Пз	9
2.	Assembling tax records, business affairs, or other papers	□8	□о	□1	_ 2	Пз	9
3.	Shopping alone for clothes, household necessities, or groceries	□8	□°	□1	□2	Пз	9
4.	Playing a game of skill such as bridge or chess, working on a hobby	□8	□о	□1	□ ₂	Пз	9
5.	Heating water, making a cup of coffee, turning off the stove	□8	□o	□1	□2	Пз	9
6.	Preparing a balanced meal	□8	□о	□1	_2	Пз	9
7.	Keeping track of current events	□8	О	□1	□2	Пз	9
8.	Paying attention to and understanding a TV program, book, or magazine	□8	□о	□1	_2	Пз	_ 9
9.	Remembering appointments, family occasions, holidays, medications	□8	Пο	□1	□2	Пз	□9
10.	Traveling out of the neighborhood, driving, or arranging to take public transportation	□8	По	□1	_2	Пз	<u> </u>

¹Adapted from table 4 of Pfeffer RI, Kurosaki TT, Harrah CH, et al. Measurement of functional activities of older adults in the community. J Gerontol 37:323–9, 1982. Copyright© 1982. The Gerontological Society of America. Reproduced by permission of the publisher.

Form B9: Clinician Judgment of Symptoms

It is understood that answering many of these questions may require video-assisted assessments, use of clinical data from the recent medical record, and or participant/co-participant report in cases where the findings may not have previously been documented in a traditional in-person UDS visit or where new signs and symptoms may have emerged since the last evaluation. We recommend that you use the best sources of information available in filling out this form and defer to the "Unknown" answer option in instances where information may be lacking and or considered unreliable by the study clinician.

For evaluations that are conducted by telephone only with participants for whom recent medical records are not available, the informal use of participant and co-participant questionnaires may be useful for collection of such data but are not a required part of the UDS visit packet. The resources below serve as guidance only for cases in which alternate sources of data may be lacking. Potential resources for consideration include the BE-FAST assessment, the SCOPA-MS, and the ALSAQ-5, among many other validated scales:

BE-FAST assessment for stroke-associated signs and symptoms

Aroor S, Singh R, Goldstein LB. BE-FAST (Balance, Eyes, Face, Arm, Speech, Time): Reducing the Proportion of Strokes Missed Using the FAST Mnemonic. Stroke. 2017;48(2):479–481. doi:10.1161/STROKEAHA.116.015169

SCOPA-MS for parkinsonian features

Martínez-Martín P, Benito-León J, Burguera JA, et al. The SCOPA-Motor Scale for assessment of Parkinson's disease is a consistent and valid measure. J Clin Epidemiol. 2005;58(7):674–679. doi:10.1016/j.jclinepi.2004.09.014

ALSAQ-5 for motor neuron disease features

Jenkinson C, Fitzpatrick R. Reduced item set for the amyotrophic lateral sclerosis assessment questionnaire: development and validation of the ALSAQ-5. J Neurol Neurosurg Psychiatry. 2001;70(1):70–73. doi:10.1136/jnnp.70.1.70

The purpose of this Form is to provide clinical determination of the symptoms the subject is currently experiencing and the onset of symptoms. The Form should be completed by the clinician, and conclusions should be based on information obtained through subject, co-participant, medical records, and/or observation. Results from the neuropsychological test battery (except for the MoCA) and imaging should not be used to determine answers for this Form but may be used to make the official clinical diagnosis on Form D1.

Decl	ines in n	nemory reported by subject and co-participant					
1.		re subject report a decline in memory (relative to sly attained abilities)?		No Yes Could not be assessed/s	ubject i	s too im	paired
	if the su not beh	e in memory refers to cognitive changes in the subject's abject reports a current (i.e., recent) decline in memory avior, motor, or other non-memory symptoms. If, based to provide an answer to this question, then select 8 =	y funct ed upo	ion. This question refers to on the clinician's judgmen	to memo	ory only bject is t	and too
2.		ne co-participant report a decline in the subject's y (relative to previously attained abilities)?		No Yes There is no co-participar	nt		
	Decline refers to cognitive changes in the subject's usual or customary memory function. Select 1=Yes if the coparticipant reports a current (i.e., recent) decline in the subject's memory function. This question refers to memory only and not behavior, motor, or other non-memory symptoms. Every effort should be made to have a co-participant present at UDS visits; however, if there is no co-participant, select 8=There is no co-participant .						
Cogr	nitive syn	nptoms					
3.	3. Based on the clinician's judgment, is the subject currently experiencing meaningful impairment in cognition?						
	_	ve decline refers to changes in the subject's usual or cu d or observed at the current visit.	stoma	ry memory or non-memo	ry cogni	tive abil	ities,
	If the clinician is certain that there has been no meaningful (i.e., clinically significant) decline in the subject's memory or non-memory cognitive abilities, select o=No and skip to Question 8 on behavioral symptoms.						
	If the clinician is certain that there has been a meaningful decline, select 1=Yes and complete Questions 4-7.						
4.		e whether the subject currently is meaningfully impaire					
	attairie	d abilities, in the following cognitive domains, or has flu	uctuati	ing cognition:	No	Yes	Unknown
	4a.	Memory For example, does s/he forget conversations are and/or statements, misplace things more than usual, for knows well?			О	□ 1	9
	4b.	Orientation For example, does s/he have trouble knowing not recognize familiar locations, or get lost in familiar locations.			О	□ 1	9
	4c. Executive function — judgment, planning, problem-solving Does s/he have trouble handling money (e.g., tips), paying bills, preparing meals, shopping, using appliances, handling medications, driving?			О		9	

4d.	4d. Language Does s/he have hesitant speech, have trouble finding words, use inappropriate words without self-correction?				□ 1	9
4e.	Visuospatial function Does s/he have difficulty interprehis/her way around?	eting vis	ual stimuli and finding	О	□ 1	<u> </u>
4f.	Attention, concentration Does the subject have a short to concentrate? Is s/he easily distracted?	t attent	ion span or limited ability	О	□ 1	<u> </u>
4g.	Fluctuating cognition Does the subject exhibit pronou and alertness, noticeably over hours or days — for exa staring into space, or times when his/her ideas have a compact of the subject exhibits pronounced to the subject exhibits provided to the	mple, lo	ng lapses or periods of	□ o	□ 1	9
	4g1. If yes, at what age did the fluctuating cognition be (777 = Age of onset provided at a previous UDS visit) (The clinician must use his/her best judgment to e)	an age of onset.)			
	he age at which the subject first experienced fluctuatired at a previous visit, enter 777= Age of onset provi		_	ctuating o	cognition	n was
4h.	Other (SPECIFY):			□о		
gathere decline	estions 4a–4g, select 9=Unknown only if the answered from the subject, co-participant, medical records, as in any ability (or abilities) other than those listed, selectify)".	nd/or o	bservation. If the subject	exhibits a	a meanir	-
as a de <i>NOTE:</i>	e the predominant symptom that was first recognized cline in the subject's cognition: Enter 0 if this information was provided on a usly submitted Form B9.	0 1 2 3 4 5 6 7 8	Assessed at a previous U Memory Orientation Executive function — jude problem-solving Language Visuospatial function Attention/concentration Fluctuating cognition Other (SPECIFY): Unknown		olanning	,
This question to the co-part must as predon If the public briefly	irst predominant cognitive symptom was assessed at a isit. destion refers to the onset of the cognitive change (i.e., icipant or other available information indicates that so sk the co-participant and/or use her/his best clinical juminant symptom. Deredominant cognitive symptom first recognized as a didescribe in the space provided. 199=Unknown only if clinician is unable to ascertain the information or observation.	when ceveral studgment	hange in cognition was fir ymptoms occurred simult at to commit to one of the was other than those listed	rst notice taneously sympton d, select 8	ed). If the v, the clir as as the	e nician e r and

6. Mode of onset of cognitive symptoms	1 Gradual 2 Subacute 3 Abrupt 4 Other (SPECIFY):				
This question refers to the onset of the cognitive change (i.e., clinician should choose the option that most closely resemble subject.					
If the mode of onset was other than those listed, select 4=Ot provided.	her (specify) and briefly describe in the space				
Select 99=Unknown only if no information is available to a	allow the clinician to ascertain the mode of onset.				
7. Based on the clinician's assessment, at what age did the cogr					
(777 = Age of onset of cognitive decline entered at a previous UI (The clinician must use his/her best judgment to estimate an					
(110 0111101111111111111111111111111111					
If age of onset of fluctuating cognition was assessed at a previous UDS visit.	ious visit, enter 777= Age of onset provided at a				
Cognitive decline refers to changes in the subject's usual or customary memory or non-memory cognitive abilities reported or observed at the current visit. Age of onset of cognitive decline should correspond to the predominant symptom that was first recognized as a change in the subject's cognitive abilities (Question 5 above).					
If the exact age is unknown, the clinician should estimate to t says that cognitive decline started in the subject's 50s or 60s,					
Behavioral symptoms					
8. Based on the clinician's judgment, is the subject currently experiencing any kind of behavioral symptoms?	□ 0 No (If No, skip to question 13) □ 1 Yes				
Decline or changes in behavior refers to meaningful change of behavior reported or observed at the current visit.	or decline from the subject's usual or customary				
If the clinician is certain that there has been no meaningful (is subject's behavior, select o=No and skip to Question 13.	i.e., clinically significant) decline or change in the				
If the clinician is certain that there has been a meaningful decline, select $1 = \mathbf{Yes}$ and complete Questions $9-12$.					
QUESTIONS 9a – 9i: If the symptoms assessed in Questions 9a – 9i are reported or observed to reflect the subject's condition at this clinical evaluation based upon information gathered from the subject, co-participant, medical records, and/or observation, then select 1=Yes ; otherwise, select 0=No . Select 9=Unknown only if the answer cannot be determined based upon information gathered from the subject, co-participant, medical records, and/or observation.					
1					
and/or observation. 9. Indicate whether the subject currently manifests meaningful of	d from the subject, co-participant, medical records,				
and/or observation.	change in behavior in any No Yes Unknown				

9b. Depressed mood Has the subject seemed depressed for more than two weeks at a time, e.g., shown loss of interest or pleasure in nearly all activities, sadness, hopelessness, loss of appetite, fatigue?	О	□ 1	9				
9c. Psychosis							
9c1. Visual hallucinations 9c1a. If Yes, are the hallucinations well formed and detailed?	□ o □ o		□ 9 □ 9				
Select 1=Yes for Question 9c1a if the hallucinations are well formed and detailed (e.g., peopl not just vague visual images, blurs, lines or colors). Select o=No if the hallucinations are not detailed.	e, anima						
9c1b. If yes, at what age did the visual hallucinations begin? (777 = Age of onset provided at a previous UDS visit; 888 = N/A, not well-forme (The clinician must use his/her best judgment to estimate an age of onset.)	d)						
previous UDS visit. Enter the age at which the subject first experienced well formed, clear-cut visual hallucination be detailed). Exclude hallucinations occurring in the context of a clear-cut delirium or as a clear-cut	If age of onset of visual hallucinations was assessed at a previous visit, enter 777=Age of onset provided at a previous UDS visit. Enter the age at which the subject first experienced well formed, clear-cut visual hallucinations (i.e., they need not be detailed). Exclude hallucinations occurring in the context of a clear-cut delirium or as a clear consequence of an						
adverse event from a medication. If the subject experiences hallucinations that are not well for enter 888=N/A , not well formed. If the exact age is unknown, the clinician should estimate to the nearest decade. For example, says that hallucinations began in the subject's 50s or 60s, estimate age 55 or 60.							
9c2. Auditory hallucinations	О	□ 1	9				
9c3. Abnormal, false, or delusional beliefs	О	\square 1	9				
9d. Disinhibition Does the subject use inappropriate coarse language or exhibit inappropriate speech or behaviors in public or in the home? Does s/he talk personally to strangers or have disregard for personal hygiene?	□ o	□ 1	9				
9e. Irritability Does the subject overreact, e.g., by shouting at family members or others?	О	□ 1	9				
9f. Agitation Does the subject have trouble sitting still? Does s/he shout, hit, and/or kick?	О	□ 1	<u> </u>				
9g. Personality change Does the subject exhibit bizarre behavior or behavior uncharacteristic of the subject, such as unusual collecting, suspiciousness (without delusions), unusual dress, or dietary changes? Does the subject fail to take others' feelings into account?	О	<u> </u>	9				
9h. REM sleep behavior disorder While sleeping, does the subject appear to act out his/her dreams (e.g., punch or flail their arms, shout, or scream)?	О	□ 1	9				
9h1. If yes, at what age did the REM sleep behavior disorder begin? (777 = Age of onset provided at a previous UDS visit) (The clinician must use his/her best judgment to estimate an age of onset.)							
If age of onset of RBD was assessed at a previous visit, enter 777=Age of onset provided a visit.	t a prev	ious Ul	OS				
Enter the age at which the subject first began experiencing REM sleep behavior disorder. If the unknown, the clinician should estimate to the nearest decade. For example, if the co-participate behavior disorder started in the subject's 50s or 60s, estimate age 55 or 60.			I sleep				

9i. Anxiety For example, does s/he show signs of nervousness (e.g., frequent sighing, anxious facial expressions, or hand-wringing) and/or excessive worrying?	0 1 9
9j. Other (SPECIFY):	0
If the subject exhibits a meaningful decline in any behavior other than those listed, selective briefly describe under "Other".	et 1=Yes for Question 9j and
10. Indicate the predominant symptom that was first recognized as a decline in the subject's behavior: **NOTE: Enter 0 if this information was provided on a previously submitted Form B9.** **Depressed mood	e or disorder
If the first predominant behavior symptom was assessed at a previous visit, select o=As visit . This question refers to the subject's symptoms at onset of behavior change. If the co-par information indicates that several symptoms occurred simultaneously, the clinician must or use her/his best clinical judgment to commit to one of the symptoms as the predominant of the symptoms as the predominant of the symptoms.	rticipant or other available st ask the co-participant and/
If the predominant behavioral symptom first recognized as a decline was other than thoe (specify) and briefly describe in the space provided. Select 99=Unknown only if clinician is unable to ascertain the behavioral symptom pron available information or observation.	
11. Mode of onset of behavioral symptoms: 1 Gradual 2 Subacute 3 Abrupt 4 Other (SPECIFY): 99 Unknown	
The clinician should choose the option that most closely resembles the mode of onset of the subject. If the mode of onset was other than those listed, select 4=Other and briefly describe in Select 99=Unknown only if no information is available to allow the clinician to ascerta	the space provided.

12.	2. Based on the clinician's assessment, at what age did the behavioral symptoms begin? (777 = Age of onset provided at a previous UDS visit) (The clinician must use his/her best judgment to estimate an age of onset.)						
	Age of onset of behavior symptoms should correspond to the predominant symptom that was first recognized as a change in the subject's behavior (Question 10 above). If the exact age is unknown, the clinician should estimate to the nearest decade. For example, if the co-participant says that the behavioral symptoms started in the subject's 50s or 60s, estimate age 55 or 60.						
	If age of onset of behavioral symptoms was assessed at a previous visit, enter 777=Age of oprevious UDS visit.	onset pro	vided a	at a			
Moto	or symptoms						
13.	Based on the clinician's judgment, is the subject currently experiencing any motor symptoms? \Box 0 No (If No, SKIP TO QUEST \Box 1 Yes	ON 20)					
	Decline or changes in motor/movement refers to meaningful decline from the subject's usual or customary level (for example, as evidenced by gait disorder, falls, tremor, and slowness) reported or observed at the current visit.						
	If the clinician is certain that there have been no meaningful changes or decline in motor or and skip to Question 20.	movemen	nt, select	o=No			
	If the clinician is certain that there has been a meaningful decline, select 1=Yes and complete the clinician is certain that there has been a meaningful decline, select 1=Yes and complete the clinician is certain that there has been a meaningful decline, select 1=Yes and complete the clinician is certain that there has been a meaningful decline, select 1=Yes and complete the clinician is certain that there has been a meaningful decline, select 1=Yes and complete the clinician is certain that there has been a meaningful decline, select 1=Yes and complete the clinician is certain that there has been a meaningful decline, select 1=Yes and complete the clinician is certain that there has been a meaningful decline, select 1=Yes and complete the clinician that the clinic	ete Questi	ons 14 –	19.			
14.	Indicate whether the subject currently has meaningful change in motor function in						
	any of the following areas:	No	Yes	Unknown			
	14a. Gait disorder Has the subject's walking changed, not specifically due to arthritis or an injury? Is s/he unsteady, or does s/he shuffle when walking, have little or no arm-swing, or drag a foot?	□ o	□ 1	9			
	14b. Falls Does the subject fall more than usual?	О	\square 1	9			
	14c. Tremor Has the subject had rhythmic shaking, especially in the hands, arms, legs, head, mouth, or tongue?	□ o	☐ 1	9			
	14d. Slowness Has the subject noticeably slowed down in walking, moving, or writing by hand, other than due to an injury or illness? Has his/her facial expression changed or become more "wooden," or masked and unexpressive?	□ o	_ 1	9			
	If the symptoms assessed in Questions 14a – 14d are reported or observed to reflect the subthis clinical evaluation based upon information gathered from the subject, co-participant, nor observation, then select 1=Yes ; otherwise, select 0=No . Select 9=Unknown only if the determined based upon information gathered from the subject, co-participant, medical reco	edical red answer d	ords, ar annot b	nd/ e			

15. Indicate the predominant symptom that was first recognized as a decline in the subject's motor function: NOTE: Enter 0 if this information was provided on a previously submitted Form B9.	□ 0 Assessed at a previous UDS visit □ 1 Gait disorder □ 2 Falls □ 3 Tremor □ 4 Slowness □ 99 Unknown
If the first predominant motor symptom was assessed at a previsit. This question refers to the subject's symptoms at onset of decinformation indicates that several symptoms occurred simult or use her/his best clinical judgment to commit to one of the Select 99=Unknown only if clinician is unable to ascertain available information or observation.	cline in motor function. If the co-participant or available aneously, the clinician must ask the co-participant and/symptoms as the predominant symptom.
16. Mode of onset of motor symptoms:	☐ 1 Gradual ☐ 2 Subacute ☐ 3 Abrupt ☐ 4 Other (SPECIFY): ————————————————————————————————————
Select the option that most closely resembles the mode of one If the mode of onset was other than those listed, select 4=Ot provided. Select 99=Unknown only if no information is available to a	her (specify) and briefly describe in the space
17. Were changes in motor function suggestive of parkinsonism? (If No or Unknown, SKIP TO QUESTION 18)	□ o No □ 1 Yes □ 9 Unknown
17a. If Yes, at what age did the motor symptoms suggestive (777 = Age of onset provided at a previous UDS visit) (The clinician must use his/her best judgment to esting	
If age of onset of parkinsonism was provided at a previous vis UDS visit . Enter the age at which motor function changes suggestive of exact age is unknown, the clinician should estimate to the neathat motor symptoms started in the subject's 50s or 60s, estimated applicable); age of diagnosis should be entered on UDS IVP F	parkinsonism first were noticed in the subject. If the arest decade. For example, if the co-participant says mate age 55 or 60. Do not enter the age of diagnosis (if

18. Were changes in motor function suggestive of amy lateral sclerosis? (If No or Unknown, SKIP TO QUESTI							
18a. If Yes, at what age did the motor symptom (777 = Age of onset provided at a previous (The clinician must use his/her best judgm	s UDS visit)						
is unknown, the clinician should estimate to the r symptoms started in the subject's 50s or 60s, esti	Enter the age at which motor function changes suggestive of ALS first were noticed in the subject. If the exact age is unknown, the clinician should estimate to the nearest decade. For example, if the co-participant says that motor symptoms started in the subject's 50s or 60s, estimate age 55 or 60. Do not enter the age of diagnosis (if applicable).						
If age of onset of ALS symptoms was provided at previous UDS visit.	a previous visit, enter 777= Age of onset provided at a						
19. Based on the clinician's assessment, at what age (777 = Age of onset provided at a previous UDS v (The clinician must use his/her best judgment to e	risit)						
change in the subject's motor function (Question to the nearest decade. For example, if the co-part	Age of onset of motor symptoms should correspond to the predominant symptom that was first recognized as a change in the subject's motor function (Question 15 above). If the exact age is unknown, the clinician should estimate to the nearest decade. For example, if the co-participant says that motor symptoms started in the subject's 50s or 60s, estimate age 55 or 60. Do not enter the age of diagnosis (if applicable).						
If age of onset of motor symptoms was provided a previous UDS visit.	at a previous visit, enter 777= Age of onset provided at a						
Overall course of decline and predominant domain							
20. Overall course of decline of cognitive/behavioral/syndrome:	motor						
	erall decline in cognitive/behavioral/motor functions during the refer to the short-term fluctuations that are part of DLB.						
Select 9=Unknown only if no information is ava syndrome.	ailable to allow the clinician to describe the overall course of the						

21.	Indicate the predominant domain that was first recognized as changed in the subject: NOTE: Enter 0 if this information was provided on a previously submitted Form B9.	0 1 2 3 8	Assessed at a previous UDS visit Cognition Behavior Motor function N/A Unknown
	If the first predominant symptom was assessed at a previous	visit, se	elect o=Assessed at a previous UDS visit.
	Select the appropriate number to indicate which domain app Choose only <u>one</u> domain as predominantly changing first, ba		e .
	Select 9=Unknown only if no information is available to all domain.	ow the	clinician to describe the predominantly changed
Cano	lidate for further evaluation for Lewy body disease or frontotem	poral lo	bbar degeneration
	lidate for further evaluation for Lewy body disease or frontotem. Is the subject a potential candidate for further evaluation for Lewy body disease?	poral lo	No Yes
	Is the subject a potential candidate for further evaluation	□ 0 □ 1	No Yes
22.	Is the subject a potential candidate for further evaluation for Lewy body disease? This question refers to a potential clinical data module for Le	□ 0 □ 1	No Yes



TELEPHONE FOLLOW-UP PACKET NACC UNIFORM DATA SET (UDS)

Form B9: Clinician Judgment of Symptoms

ADC na	me: Subject ID:	Form	date:	/_	/_	
Visit #:	Examiner's initials:					
	RUCTIONS: This form is to be completed by the clinician. F. book for Telephone Follow-up Visit Packet, Form B9. Check		nd exam	ples, see	UDS C	Coding
Declir	nes in memory reported by subject and co-participant					
1.	Does the subject report a decline in memory (relative to previously attained abilities)?	0 No 1 Yes 8 Could not be asset	ssed/sul	bject is t	too impa	aired
2.	Does the co-participant report a decline in the subject's memory (relative to previously attained abilities)?	□ 0 No □ 1 Yes □ 8 There is no co-par	ticipant			
Cogni	itive symptoms					
3.	Based on the clinician's judgment, is the subject currently experiencing meaningful impairment in cognition?	0 No (If No, SKIP TO	QUESTIO	N 8)		
4.	Indicate whether the subject currently is meaningfully impattained abilities, in the following cognitive domains, or h	, , , , , , , , , , , , , , , , , , , ,	/	No	٧	University
				No	Yes	Unknown
	4a. Memory For example, does s/he forget conversations a statements, misplace things more than usual, forget nar			□ 0		□ 9
	4b. Orientation For example, does s/he have trouble know recognize familiar locations, or get lost in familiar location.		or not	□0	□ 1	9
	4c. Executive function — judgment, planning, problem-s handling money (e.g., tips), paying bills, preparing mea handling medications, driving?			_o	□ 1	9
	4d. Language Does s/he have hesitant speech, have trouble words without self-correction?	e finding words, use inappro	priate	□ 0	□ 1	□ 9
	4e. Visuospatial function Does s/he have difficulty interpretation her way around?	ting visual stimuli and findin	g his/	□ 0	□ 1	□ 9
	4f. Attention, concentration Does the subject have a shor concentrate? Is s/he easily distracted?	t attention span or limited at	ility to	□0	□ 1	9
	4g. Fluctuating cognition Does the subject exhibit pronou alertness, noticeably over hours or days — for example into space, or times when his/her ideas have a disorgan	long lapses or periods of st		□•	□ 1	9
	4g1. If yes, at what age did the fluctuating cognition be (777 = Age of onset provided at a previous UDS visit. (The clinician must use his/her best judgment))	.)			
	4h. Other (SPECIFY):			□ 0	□ 1	

SAMPLE FORM

Subject ID:	Form date:	_//	Visit #-

INSTRUCTIONS: This form is to be completed by the clinician. For additional clarification and examples, see UDS Coding Guidebook for Telephone Follow-up Visit Packet, Form B9. Check only one box per question.

5.	Indicate the predominant symptom that was first recognized as a decline in the subject's cognition:	Assessed at a previous UD: Manager	S visit		
	NOTE: Enter 0 if this information was provided on a	☐ 1 Memory ☐ 2 Orientation			
	previously submitted Form B9.	3 Executive function — judg	ment n	lanninσ	
		problem-solving	ment, p	iaiiiiiig,	
		4 Language			
		5 Visuospatial function			
		6 Attention/concentration			
		☐ 7 Fluctuating cognition			
		8 Other (SPECIFY):			
		□ 99 Unknown			
6.	Mode of onset of cognitive symptoms	1 Gradual			
		☐ 2 Subacute			
		☐ 3 Abrupt			
		4 Other (SPECIFY):			
		□ 99 Unknown			
7.	Based on the clinician's assessment, at what age did the co (777 = Age of cognitive decline entered at a previous UDS visit)	ognitive decline begin?			
	(The clinician must use her/his best judgment to estimate	an age of onset of cognitive decline	e.)		
Behar	vioral symptoms				
	Based on the clinician's judgment, is the subject currently	O No (If No. SKIP TO QUESTION	l 13)		
	experiencing any kind of behavioral symptoms?	☐ 1 Yes	,		
9.	Indicate whether the subject currently manifests meaningful in any of the following ways:	ul change in behavior			
			No	Yes	Unknown
	9a. Apathy, withdrawal Has the subject lost interest in or dis- usual activities and social interaction, such as conversing		□ o	П	9
	9b. Depressed mood Has the subject seemed depressed for e.g., shown loss of interest or pleasure in nearly all activit		□ 0	□ 1	9
	of appetite, fatigue?	need engineered trobeterationers tons			
	9c. Psychosis				
	9c1. Visual hallucinations		□ o	\square 1	□ 9
	9c1a. If yes, are the hallucinations well formed		□ 0	\square 1	□ 9
	9c1b. If well formed and clear-cut, at what age begin?	did these visual natiucinations			
	(777 = Age of onset provided at a previous U	DS visit: 888 = N/A. not well-formed)			
	(The clinician must use his/her best judg				
	9c2. Auditory hallucinations		□ 0	\square 1	9
	9c3. Abnormal, false, or delusional beliefs		□ o	\square 1	9
	9d. Disinhibition Does the subject use inappropriate coarse speech or behaviors in public or in the home? Does s/he disregard for personal hygiene?		□0		□ 9
	9e. Irritability Does the subject overreact, e.g., by shouting	at family members or others?	_ o	_ 1	9

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Subject ID:	Form date: / /	Visit #:
Subject ID.	Tollii date.	A 121f M.

INSTRUCTIONS: This form is to be completed by the clinician. For additional clarification and examples, see UDS Coding Guidebook for Telephone Follow-up Visit Packet, Form B9. Check only one box per question.

	9f. Agitation Does the subject have trouble sitting still? Does s/he shout, hit, and/or kick?			□ 1	□ 9
	9g. Personality change Does the subject exhibit bizarre behavior or behavior uncharacteristic of the subject, such as unusual collecting, suspiciousness (without delusions), unusual dress, or dietary changes? Does the subject fail to take others' feelings into account?			□ 1	☐ 9
	9h. REM sleep behavior disorder While sleeping, does the subject appear to act out his/her dreams (e.g., punch or flail their arms, shout, or scream)? 9h1. If yes, at what age did the REM sleep behavior disorder begin? (777 = Age of onset provided at a previous UDS visit.) (The clinician must use his/her best judgment to estimate an age of onset)				9
	 Anxiety For example, does s/he show signs of nervousne facial expressions, or hand-wringing) and/or excessive wo 		□ 0	□ 1	9
	9j. Other (SPECIFY):		□ 0	\square 1	
	Indicate the predominant symptom that was first recognized as a decline in the subject's behavior: NOTE: Enter 0 if this information was provided on a previously submitted Form B9. Mode of onset of behavioral symptoms:	□ 0 Assessed at a previous UD □ 1 Apathy/withdrawal □ 2 Depressed mood □ 3 Psychosis □ 4 Disinhibition □ 5 Irritability □ 6 Agitation □ 7 Personality change □ 8 REM sleep behavior disord □ 9 Anxiety □ 10 Other (SPECIFY): □ 99 Unknown □ 1 Gradual □ 2 Subacute □ 3 Abrupt □ 4 Other (SPECIFY): □ 99 Unknown			
12.	Based on the clinician's assessment, at what age did the bo	ehavioral symptoms begin?			
	(777 = Age of onset provided at a previous UDS visit.) (The clinician must use her/his best judgment to estimate a		ns.)		
Moto	symptoms				
13.	Based on the clinician's judgment, is the subject currently experiencing any motor symptoms?	0 No (If No, SKIP TO QUESTIO) 1 Yes	N 20)		
14.	Indicate whether the subject currently has meaningful char in any of the following areas:	nge in motor function	No	Yes	Unknown
	14a. Gait disorder Has subject's walking changed, not specifically due to arthritis or an injury? Is s/he unsteady, or does s/he shuffle when walking, have little or no arm-swing, or drag a foot?			□ 1	9
	14b. Falls Does the subject fall more than usual?		□ o	□ 1	□ 9
	14c. Tremor Has the subject had rhythmic shaking, especially in the hands, arms, legs, head, mouth, or tongue?		□0	□ 1	□ 9
	14d. Slowness Has the subject noticeably slowed down in walking, moving, or writing by hand, other than due to an injury or illness? Has his/her facial expression changed or become more "wooden," or masked and unexpressive?		□ 0		□ 9

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Subject ID:	Form date://	Visit #:
Subject ID:	rorm date://	VISIL #:

INSTRUCTIONS: This form is to be completed by the clinician. For additional clarification and examples, see UDS Coding Guidebook for Telephone Follow-up Visit Packet, Form B9. Check only one box per question.

	9f. Agitation Does the subject have trouble sitting still? Does s/he shout, hit, and/or kick?			\Box 1	9
	9g. Personality change Does the subject exhibit bizarre behavior or behavior uncharacteristic of the subject, such as unusual collecting, suspiciousness (without delusions), unusual dress, or dietary changes? Does the subject fail to take others' feelings into account?				9
	9h. REM sleep behavior disorder While sleeping, does the subject appear to act out his/her dreams (e.g., punch or flail their arms, shout, or scream)? 9h1. If yes, at what age did the REM sleep behavior disorder begin? (777 = Age of onset provided at a previous UDS visit.) (The clinician must use his/her best judgment to estimate an age of onset)			П	□ 9
	 Anxiety For example, does s/he show signs of nervousn- facial expressions, or hand-wringing) and/or excessive w 		□ o	□ 1	9
	9j. Other (SPECIFY):		□ o	\square 1	
11.	Indicate the predominant symptom that was first recognized as a decline in the subject's behavior: NOTE: Enter 0 if this information was provided on a previously submitted Form B9. Mode of onset of behavioral symptoms:	□ 0 Assessed at a previous UD □ 1 Apathy/withdrawal □ 2 Depressed mood □ 3 Psychosis □ 4 Disinhibition □ 5 Irritability □ 6 Agitation □ 7 Personality change □ 8 REM sleep behavior disord □ 9 Anxiety □ 10 Other (SPECIFY): □ □ 99 Unknown □ 1 Gradual □ 2 Subacute □ 3 Abrupt □ 4 Other (SPECIFY): □ □			
		99 Unknown			
12.	Based on the clinician's assessment, at what age did the b (777 = Age of onset provided at a previous UDS visit.) (The clinician must use her/his best judgment to estimate		ns.)		
Moto	symptoms				
13.	Based on the clinician's judgment, is the subject currently experiencing any motor symptoms?	O No (If No, SKIP TO QUESTION 1 Yes	N 20)		
14.	Indicate whether the subject currently has meaningful cha in any of the following areas:	nge in motor function	No	Yes	Unknown
	14a. Gait disorder Has subject's walking changed, not specific s/he unsteady, or does s/he shuffle when walking, have litt		□ o	□ 1	□ 9
	14b. Falls Does the subject fall more than usual?		□ o	□ 1	□ 9
	14c. Tremor Has the subject had rhythmic shaking, especially in the hands, arms, legs, head, mouth, or tongue?			□ 1	□ 9
	14d. Slowness Has the subject noticeably slowed down in wa other than due to an injury or illness? Has his/her facial of more "wooden," or masked and unexpressive?		□0	П	☐ 9

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SAMPLE FORM

Subject	ID:	Form date://	Visit #:		
	UCTIONS: This form is to be completed by the clin book for Telephone Follow-up Visit Packet, Form B9		, see UDS Coding		
15.	Indicate the predominant symptom that was first recognized as a decline in the subject's motor fund NOTE: Enter 0 if this information was provided on previously submitted Form B9.	_ 1 dait disorder	sit		
16.	Mode of onset of motor symptoms:	☐ 1 Gradual ☐ 2 Subacute ☐ 3 Abrupt ☐ 4 Other (SPECIFY):			
17.	Were changes in motor function suggestive of parkinsonism?	☐ o No ☐ 1 Yes ☐ 9 Unknow If No or Unknown, SKIP TO QUESTION 15			
	17a. If yes, at what age did the motor changes suggestive of parkinsonism begin?				
	(The clinician must use his/her best judgmer		(777 = Provided at a previous UDS visit)		
18.	Were changes in motor function suggestive of amyotrophic lateral sclerosis?	☐ o No ☐ 1 Yes ☐ 9 Unknow If No or Unknown, SKIP TO QUESTION 19			
	18a. If yes, at what age did the motor changes su	ggestive of ALS begin?			
	(The clinician must use his/her best judgmer	~	(777 = Provided at a previous UDS visit)		
19.	Based on the clinician's assessment, at what age of (The clinician must use her/his best judgment to e		(777 = Provided at a previous UDS visit)		
Overa	Il course of decline and predominant domain				
20.	Overall course of decline of cognitive/behavorial/motor syndrome:	☐ 1 Gradually progressive ☐ 2 Stepwise ☐ 3 Static ☐ 4 Fluctuating ☐ 5 Improved ☐ 8 N/A ☐ 9 Unknown			
21.	Indicate the predominant domain that was first recognized as changed in the subject: NOTE: Enter 0 if this information was provided on previously submitted Form B9.	□ 0 Assessed at a previous UDS vi □ 1 Cognition □ 2 Behavior □ 3 Motor function □ 8 N/A	sit		

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9 Unknown

SAMPLE FORM

Subject		rorm date:	VISIC #:
Cand	idate for further evaluation for Lewy body disease	or frontoternporal lobar degeneration	
22.	Is the subject a potential candidate for further evaluation for Lewy body disease?	□o No □1 Yes	
23.	Is the subject a potential candidate for further evaluation for frontotemporal lobar degeneration	o No	

Form C2T: Neuropsychological Battery Scores for T-cog

INSTRUCTIONS: This form is to be completed by ADC or clinic staff. For test administration and scoring, see Instructions for Neuropsychological Battery Form C2T.

KEY: 88/888 = Optional item 95/995 = Physical problem 96/996 = Cognitive/behavior problem 97/997 = Other problem 98/998 = Verbal refusal NOTE: Based on clinical judgment, if factors are present that significantly affect the validity of the test, select 97/997 = Other problem.

O. Mode	e of administration					
Oa.	What modality of communication was used to administer	☐ ₁ Telephone				
	this neuropsychological battery?	☐ 2 Video-assiste	d conference	e		
		☐з Some combin	nation of the	two		
1. Mont	treal Cognitive Assessment (MoCA) Blind					
1a.	Was any part of the MoCA administered?					
	□ 0 No (If No, enter reason code, 95 – 98): □ □ (SKIP TO QUESTION 2a)					
	1 Yes (CONTINUE WITH QUESTION 1b)					
1b.	Language of MoCA administration: 1 English 2 S	panish 🗌 3 Other	(SPECIFY):			
1c.	Subject was unable to complete one or more sections due to	hearing impairment:	□ o No	☐ 1 Yes		
1d.	TOTAL RAW SCORE — UNCORRECTED (Not corrected for enhearing impairment)	ducation or visual/				
	Enter 88 if any of the following MoCA items were not adminitie-1 k , $1n-1s$	istered:		(0-22, 88)		
1e.	Attention — Digits			(0-2, 95-98)		
1f.	Attention — Letter A		<u> </u>	(0-1, 95-98)		
lg.	Attention — Serial 7s			(0-3, 95-98)		
1h.	Language — Repetition			(0-2, 95-98)		
1i.	Language — Fluency			(0-1, 95-98)		
1j.	Abstraction			(0-2, 95-98)		
1k.	Delayed recall — No cue		<u> </u>	(0-5, 95-98)		
11.	Delayed recall — Category cue			(0-5; 88=Not applicable)		
1m.	Delayed recall — Recognition		<u> </u>	(0-5; 88=Not applicable)		
1n.	Orientation — Date			(0-1, 95-98)		
10.	Orientation — Month			(0-1, 95-98)		
1p.	Orientation — Year			(0-1, 95-98)		

1q. Orientation — Day		(0-1, 95-98)
1r. Orientation — Place		(0-1, 95-98)
1s. Orientation — City		(0-1, 95-98)
2. ADMINISTRATION OF THE REMAINDER OF THE BATTERY		
2a. Language of test administration:	:	
3. Craft Story 21 Recall — Immediate		
3a. Total story units recalled, verbatim scoring (If test not completed, enter reason code, 95–98, and SKIP TO QUESTION 4a.)		(0-44, 95-98)
3b. Total story units recalled, paraphrase scoring		(0-25)
4. Rey Auditory Verbal Learning — Immediate (Optional)		
Special instructions: The Rey Auditory Verbal Learning test should not be administered to part assessed in Spanish.	icipants	being
4a. Trial 1 — Total recall		
(If test was not completed, enter reason code, 95-98. If test was skipped		
because optional or not available in Spanish translation, enter 88, and SKIP TO QUESTION 5a.)		(0-15, 88, 95-98)
4b. Intrusions		(No limit)
4c. Trial 2 — Total recall		(0-15)
4d. Intrusions		(No limit)
4e. Trial 3 — Total recall		(0-15)
4f. Intrusions		(No limit)
4g. Trial 4 — Total recall		(0-15)
4h. Intrusions		(No limit)
4i. Trial 5 — Total recall		(0-15)
4j. Intrusions		(No limit)
4k. Trial 6 — Total recall		(0-15)
4I. Intrusions		(No limit)
5. Number Span Test: Forward		
5a. Number of correct trials (If test not completed, enter reason code, 95–98, and SKIP TO QUESTION 6a.)		(0-14, 95-98)
5b. Longest span forward		(0, 3-9)
6. Number Span Test: Backward		
6a. Number of correct trials (If test not completed, enter reason code, 95–98, and SKIP TO QUESTION 7a.)		(0-14, 95-98)
6b. Longest span backward		(0, 2–8)

7. Oral Trail Making Test (Optional)	
7a. PART A: Total number of seconds to complete (if not finished by 100 seconds, enter 100)	
(If test was not completed, enter reason code, 995-998. If test was skipped because optional, enter 888, and SKIP TO QUESTION 7b.)	(0-100, 888, 995-998)
7a1. Number of commission errors	(No limit)
7a2. Total number correct	(0-25)
7b. PART B: Total number of seconds to complete (if not finished by 300 seconds, enter 300)	
(If test was not completed, enter reason code, 995-998. If test was skipped because optional, enter 888, and SKIP TO QUESTION 8a.)	(0-300, 888, 995-998)
7b1. Number of commission errors	(No limit)
7b2. Total number correct	(0-25)
8. Craft Story 21 Recall (Delayed)	
8a. Total story units recalled, verbatim scoring (If test not completed, enter reason code, 95–98, and SKIP TO QUESTION 9a.)	(0-44, 95-98)
8b. Total story units recalled, paraphrase scoring	<u> </u>
8c. Delay time (minutes) (99=Unknown)	(0 – 85 minutes)
8d. Cue ("boy") needed	□ o No □ 1 Yes
9. Category Fluency	
9a. Animals: Total number of animals named in 60 seconds (If test not completed, enter reason code, 95–98, and SKIP TO QUESTION 9b.)	(0-77, 95-98)
9b. Vegetables: Total number of vegetables named in 60 seconds (If test not completed, enter reason code, 95–98, and SKIP TO QUESTION 10a.)	(0–77, 95-98)
10. Verbal Fluency: Phonemic Test	
10a. Number of correct F-words generated in 1 minute (If test not completed, enter reason code, 95–98, and SKIP TO QUESTION 10d.)	(0-40, 95-98)
10b. Number of F-words repeated in 1 minute	<u> </u>
10c. Number of non-F-words and rule violation errors in 1 minute	(0-15)
10d. Number of correct L-words generated in 1 minute (If test not completed, enter reason code, 95–98, and SKIP TO QUESTION 11a.)	<u> </u>
10e. Number of L-words repeated in one minute	(0-15)
10f. Number of non-L-words and rule violation errors in 1 minute	(0-15)
10g. TOTAL number of correct F-words and L-words	<u> </u>
10h. TOTAL number of F-word and L-word repetition errors	<u> </u>
10i. TOTAL number of non-F/L words and rule violation errors	<u> </u>

11a. Total delayed recall (If test not completed, enter reason code, 95-98. If test was skipped because optional or unavailable in Spanish translation, enter 88, and \$KIP TO QUESTION 12a.} 11b. Intrusions 11c. Recognition — Total correct 11d. Recognition — Total false positive 12. Verbal Naming Test (Optional) 12a. Total correct without a cue (If test was not completed, enter reason code, 95-98. If test was skipped because optional, enter 88, and \$KIP TO QUESTION 12b.) 12b. Total correct with phonemic cue (If test was not completed, enter reason code, 95-98. If test was skipped because optional or if no cues were given, enter 88, and \$KIP TO QUESTION 12b.) 13a. Per the clinician (e.g., neuropsychologist, behavioral neuropsychologist, or betwoes the USS neuropsychological examination, the subject's cognitive status is deemed: 13a. Per the clinician (e.g., neuropsychologist, behavioral neuropsychologist, or betwoes the USS neuropsychological examination, the subject's cognitive status is deemed: 14. Validity of participant's responses Please record your impression of whether hearing or other factors significantly influenced test results. It can be difficult to judge, but it is helpful in adjudication and data analysis to know that such an influence may have been present. 14a. How valid do you think the participant's responses are? 14b. What makes this participant's responses 14b. What makes this participant's responses 14b. What makes this participant's responses 14ab Lack of effort or disinterest 14ba Distractions 14ab Lack of effort or disinterest 14ba Chapproved assistance 14ba Other (section).	11. Rey Auditory Verbal Learning — Delayed recall and recognition	(Optional)					
11b. Intrusions 11c. Recognition — Total correct 11d. Recognition — Total false positive 12. Verbal Naming Test (Optional) 12a. Total correct without a cue (If test was not completed, enter reason code, 95-98. If test was skipped because optional, enter 88, and SKIP TO QUESTION 12b.) 12b. Total correct with phonemic cue (If test was not completed, enter reason code, 95-98. If test was skipped because optional or if no cues were given, enter 88, and SKIP TO QUESTION 13a.) 13. Overall appraisal 13. Per the clinician (e.g., neuropsychologist, behavioral neurologist, or other suitably qualified clinician), based on the UDS neuropsychological examination, the subject's cognitive status is deemed: 14. Validity of participant's responses Please record your impression of whether hearing or other factors significantly influenced test results. It can be difficult to judge, but it is helpful in adjudication and data analysis to know that such an influence may have been present. 14a. How valid do you think the participant's responses are? 1 Very valid, probably accurate indication of participant's cognitive abilities (CONTINUE) 14b. What makes this participant's responses 14b. What makes this participant's responses 14c. Lack of effort or disinterest 14d. Employoed assistance	(If test not completed, enter reason code, 95-98. If test was skipped because optional or						
11c. Recognition — Total correct 11d. Recognition — Total false positive 12. Verbal Naming Test (Optional) 12a. Total correct without a cue (If test was not completed, enter reason code, 95-98. If test was skipped because optional, enter 88, and SKIP TO QUESTION 12b.) 12b. Total correct with phonemic cue (If test was not completed, enter reason code, 95-98. If test was skipped because optional or if no cues were given, enter 88, and SKIP TO QUESTION 13a.) 13. Overall appraisal 13a. Per the clinician (e.g., neuropsychologist, behavioral neurologist, or other suitably qualified clinician), based on the UDS neuropsychological examination, the subject's cognitive status is deemed: 14. Validity of participant's responses Please record your impression of whether hearing or other factors significantly influenced test results. It can be difficult to judge, but it is helpful in adjudication and data analysis to know that such an influence may have been present. 14a. How valid do you think the participant's responses are? 1 Very valid, probably accurate indication of participant's cognitive abilities (END FORM HERE) 2 Questionably valid, possibly inaccurate indication of participant's cognitive abilities (CONTINUE) 14b. What makes this participant's responses less valid? (Select all that apply) 14b. What makes this participant's responses less valid? (Select all that apply) 14c. Wald the participant's responses less valid? (Select all that apply) 14b. What makes this participant's responses less valid? (Select all that apply) 14c. Wald there is make this participant's responses less valid? (Select all that apply) 14d. Lack of effort or disinterest labs Fatigue labs Emotional issues labs Total Complex of the survey of	unavailable in Spanish translation, enter 88, and SKIP TO QUEST	(0-15, 88, 95-98)					
12. Verbal Naming Test (Optional) 12a. Total correct without a cue (If test was not completed, enter reason code, 95-98. If test was skipped because optional, enter 88, and SKIP TO QUESTION 12b.) 12b. Total correct with phonemic cue (If test was not completed, enter reason code, 95-98. If test was skipped because optional or if no cues were given, enter 88, and SKIP TO QUESTION 13a.) 13a. Per the clinician (e.g., neuropsychologist, behavioral neurologist, or other suitably qualified clinician), based on the UDS neuropsychological examination, the subject's cognitive status is deemed: 13 One or two test scores are abnormal or lower than expected 14. Validity of participant's responses Please record your impression of whether hearing or other factors significantly influenced test results. It can be difficult to judge, but it is helpful in adjudication and data analysis to know that such an influence may have been present. 14a. How valid do you think the participant's responses are? 14a. How valid, probably accurate indication of participant's cognitive abilities (CONTINUE) 14b. What makes this participant's responses less valid? (Select all that apply) 14b. What makes this participant's responses less valid? (Select all that apply) 14b. What makes this participant's responses less valid? (Select all that apply)	11b. Intrusions	(No limit)					
12. Verbal Naming Test (Optional) 12a. Total correct without a cue (If test was not completed, enter reason code, 95-98. If test was skipped because optional, enter 88, and SKIP TO QUESTION 12b.) 12b. Total correct with phonemic cue (If test was not completed, enter reason code, 95-98. If test was skipped because optional or if no cues were given, enter 88, and SKIP TO QUESTION 13a.) 13. Overall appraisal 13a. Per the clinician (e.g., neuropsychologist, behavioral neurologist, or other suitably qualified clinician), based on the UDS neuropsychological examination, the subject's cognitive status is deemed: 14. Validity of participant's responses Please record your impression of whether hearing or other factors significantly influenced test results. It can be difficult to judge, but it is helpful in adjudication and data analysis to know that such an influence may have been present. 14a. How valid do you think the participant's responses are? 14a. How valid, probably valid, possibly inaccurate indication of participant's cognitive abilities (END FORM HERE) 2 Questionably valid, possibly inaccurate indication of participant's cognitive abilities (CONTINUE) 3 Invalid, probably valid, possibly inaccurate indication of participant's cognitive abilities (CONTINUE) 14b. What makes this participant's responses less valid? (Select all that apply) 14b. What makes this participant's responses less valid? (Select all that apply) 14b. What makes this participant's responses less valid? (Select all that apply)	11c. Recognition — Total correct	(0–15)					
12a. Total correct without a cue (If test was not completed, enter reason code, 95-98. If test was skipped because optional, enter 88, and SKIP TO QUESTION 12b.) (0-50, 88, 95-98)	11d. Recognition — Total false positive	(0–15)					
(If test was not completed, enter reason code, 95-98. If test was skipped because optional, enter 88, and SKIP TO QUESTION 12b.) 12b. Total correct with phonemic cue (If test was not completed, enter reason code, 95-98. If test was skipped because optional or if no cues were given, enter 88, and SKIP TO QUESTION 13a.) 13a. Per the clinician (e.g., neuropsychologist, behavioral neurologist, or other suitably qualified clinician), based on the UDS neuropsychological examination, the subject's cognitive status is deemed: 14a. Validity of participant's responses Please record your impression of whether hearing or other factors significantly influenced test results. It can be difficult to judge, but it is helpful in adjudication and data analysis to know that such an influence may have been present. 14a. How valid do you think the participant's responses are? 14a. How valid you think the participant's responses are? 14b. What makes this participant's responses less valid? (Select all that apply) 14b. What makes this participant's responses less valid? (Select all that apply) 14b. What makes this participant's responses less valid? (Select all that apply) 14b. What makes this participant's responses less valid? (Select all that apply) 14c. Validity of participant's cognitive abilities (CONTINUE) 14c. Validity of participant's	12. Verbal Naming Test (Optional)						
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less valid? (Select all that apply) 14b2 Distractions 14b3 Interruptions 14b4 Lack of effort or disinterest 14b5 Fatigue 14b6 Emotional issues 14b7 Unapproved assistance		participant's cognitive abilities (CONTINUE)					
☐ 14b3 Interruptions ☐ 14b4 Lack of effort or disinterest ☐ 14b5 Fatigue ☐ 14b6 Emotional issues ☐ 14b7 Unapproved assistance		☐ 14b1 Hearing impairment					
☐ 14b4 Lack of effort or disinterest ☐ 14b5 Fatigue ☐ 14b6 Emotional issues ☐ 14b7 Unapproved assistance	less valid? (Select all that apply)	14b2 Distractions					
☐ 14b5 Fatigue ☐ 14b6 Emotional issues ☐ 14b7 Unapproved assistance							
☐ 14b6 Emotional issues ☐ 14b7 Unapproved assistance							
14b7 Unapproved assistance							
14b8 Other (SPECIFY):							
		14b8 Other (SPECIFY):					



Form date: ___ / __ / __

TELEPHONE FOLLOW-UP VISIT NACC UNIFORM DATA SET (UDS)

Subject ID:

ADC name: _

Form C2T: Neuropsychological Battery Scores for T-cog

Visit #:	Examiner's initials:		
	IONS: This form is to be completed by ADC or clinic staff. For test administration a hological Battery Form C2T.	nd scoring, s	ee Instructions for
	8=Optional item 95/995=Physical problem 96/996=Cognitive/behavior problem 97/997= d on clinical judgment, if factors are present that significantly affect the validity of the test, so		
O. Mode	of communication		
Oa.	What modality of communication	onference	
	neuropsychological battery?		/0
1. Mont	eal Cognitive Assessment (MoCA) Blind		
1a.	Was any part of the MoCA administered?		
	O No (If No, enter reason code, 95 – 98): (SKIP TO QUESTION 2a)		
	1 Yes (CONTINUE WITH QUESTION 1b)		
1b.	Language of MoCA administration:	SPECIFY):	
1c.	Subject was unable to complete one or more sections due to hearing impairment:	□o No	□ 1 Yes
ld.	TOTAL RAW SCORE — UNCORRECTED (Not corrected for education or visual/ hearing impairment)		
	Enter 88 if any of the following MoCA items were not administered: $1e-1k$, $1n-1s$		(0-22, 88)
1e.	Attention — Digits		(0-2, 95-98)
1f.	Attention — Letter A		(0-1, 95-98)
lg.	Attention — Serial 7s		(0-3, 95-98)
1h.	Language — Repetition		(0-2, 95-98)
1i.	Language — Fluency		(0-1, 95-98)
1j.	Abstraction		(0-2, 95-98)
1k.	Delayed recall — No cue		(0-5, 95-98)
11.	Delayed recall — Category cue		(0-5; 88=Not applicable)

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									_
KEV	. 99/999-	- Ontional item	as/aas.	- Physical problem	96/996=Cognitive/behavior prob	lom 97/997-	Other problem	QR/QQR - Verbal ref	CHICS!

1m. Dela	yed recall — Recognition		(0-5; 88=Not applicable)
1n. Orie	ntation — Date		(0-1, 95-98)
1o. Orie	ntation — Month		(0-1, 95-98)
1p. Orie	ntation — Year		(0-1, 95-98)
1q. Orie	ntation — Day		(0-1, 95-98)
1r. Orie	ntation — Place		(0-1, 95-98)
1s. Orie	ntation — City		(0-1, 95-98)
2. ADMINIST	TRATION OF THE REMAINDER OF THE BATTERY		
2a. Lang	guage of test administration: 🔲 1 English 🔲 2 Spanish 🔲 3 Other (SPECIF	Y):	
3. Craft Story	21 Recall — Immediate		
	I story units recalled, verbatim scoring st not completed, enter reason code, 95–98, and SKIP TO QUESTION 4a.)		(0-44, 95-98)
3b. Total	story units recalled, paraphrase scoring		(0-25)
4. Rey Audito	ory Verbal Learning — Immediate (Optional)		
Special ins	structions: The Rey Auditory Verbal Learning test should not be administered to pa	erticinante	hoing
assessed i		пистранта	s beilig
assessed i		пистранс	s being
assessed i 4a. Trial (If te	n Spanish. 1 — Total recall est was not completed, enter reason code, 95-98. If test was skipped	пистрани	s being
assessed in 4a. Trial (If te beca	n Spanish. 1 — Total recall		(0-15, 88, 95-98)
assessed in 4a. Trial (If te beca	n Spanish. 1 — Total recall est was not completed, enter reason code, 95-98. If test was skipped ause optional or not available in Spanish translation, enter 88, and		
4a. Trial (If te beca SKIP	n Spanish. 1 — Total recall est was not completed, enter reason code, 95-98. If test was skipped ause optional or not available in Spanish translation, enter 88, and TO QUESTION 5a.)		(0-15, 88, 95-98)
4a. Trial (If te beca SKIP	1 — Total recall est was not completed, enter reason code, 95-98. If test was skipped suse optional or not available in Spanish translation, enter 88, and TO QUESTION 5a.) Intrusions		(0-15, 88, 95-98) (No limit)
4a. Trial (If to beca SKIP 4b. 4c. Trial 4d.	1 — Total recall est was not completed, enter reason code, 95-98. If test was skipped ause optional or not available in Spanish translation, enter 88, and TO QUESTION 5a.) Intrusions 2 — Total recall		(0-15, 88, 95-98) (No limit) (0-15) (No limit)
4a. Trial (If to beca SKIP 4b. 4c. Trial 4d.	1 — Total recall est was not completed, enter reason code, 95-98. If test was skipped ause optional or not available in Spanish translation, enter 88, and TO QUESTION 5a.) Intrusions 2 — Total recall Intrusions		(0-15, 88, 95-98) (No limit) (0-15) (No limit)
4a. Trial (If to becaus KIP) 4b. 4c. Trial 4d. 4e. Trial 4f.	1 — Total recall est was not completed, enter reason code, 95-98. If test was skipped eause optional or not available in Spanish translation, enter 88, and TO QUESTION 5a.) Intrusions 2 — Total recall Intrusions 3 — Total recall		(0-15, 88, 95-98) (No limit) (0-15) (No limit) (0-15)
4a. Trial (If to becaus KIP) 4b. 4c. Trial 4d. 4e. Trial 4f.	1 — Total recall est was not completed, enter reason code, 95-98. If test was skipped eause optional or not available in Spanish translation, enter 88, and TO QUESTION 5a.) Intrusions 2 — Total recall Intrusions 3 — Total recall Intrusions		(0-15, 88, 95-98) (No limit) (0-15) (No limit) (0-15) (No limit)
4a. Trial (If to becaus KIP) 4b. 4c. Trial 4d. 4e. Trial 4f. 4g. Trial 4h.	1 — Total recall est was not completed, enter reason code, 95-98. If test was skipped eause optional or not available in Spanish translation, enter 88, and TO QUESTION 5a.) Intrusions 2 — Total recall Intrusions 3 — Total recall Intrusions 4 — Total recall		(0-15, 88, 95-98) (No limit) (0-15) (No limit) (0-15) (No limit) (0-15)
4a. Trial (If to becaus KIP) 4b. 4c. Trial 4d. 4e. Trial 4f. 4g. Trial 4h.	n Spanish. 1 — Total recall est was not completed, enter reason code, 95-98. If test was skipped eause optional or not available in Spanish translation, enter 88, and TO QUESTION 5a.) Intrusions 2 — Total recall Intrusions 3 — Total recall Intrusions 4 — Total recall Intrusions		(0-15, 88, 95-98) (No limit) (0-15) (No limit) (0-15) (No limit) (0-15) (No limit)
assessed in 4a. Trial (If to beca SKIP 4b. 4c. Trial 4d. 4e. Trial 4f. 4g. Trial 4h. 4i. Trial 4j.	1 — Total recall est was not completed, enter reason code, 95-98. If test was skipped eause optional or not available in Spanish translation, enter 88, and TO QUESTION 5a.) Intrusions 2 — Total recall Intrusions 3 — Total recall Intrusions 4 — Total recall Intrusions 5 — Total recall		(0-15, 88, 95-98) (No limit) (0-15) (No limit) (0-15) (No limit) (0-15) (No limit) (0-15)

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UDS V3.0, MARCH 2015; TFP V3.2, JUNE 2020 Telephone Follow-up Form C2T: T-cog Neuropsychological Battery Scores Page 2 of 5

Visit #: _____

KEY: 88/888= Optional item 95/995=Physical problem 96/996=Cognitive/behavior problem 97/997=Other problem 98/998=Verbal refusal

5. Number Span Test: Forward	
 Number of correct trials (If test not completed, enter reason code, 95–98, and SKIP TO QUESTION 6a.) 	(0-14, 95-98)
5b. Longest span forward	(0, 3-9)
6. Number Span Test: Backward	
 Number of correct trials (If test not completed, enter reason code, 95–98, and SKIP TO QUESTION 7a.) 	(0-14, 95-98)
6b. Longest span backward	(0, 2–8)
7. Oral Trail Making Test (Optional)	
7a. PART A: Total number of seconds to complete (if not finished by 100 seconds, enter 100) (If test was not completed, enter reason code, 995-998. If test was skipped because optional, enter 888, and SKIP TO QUESTION 7b.)	(0-100, 888, 995-998)
7a1. Number of commission errors	(No limit)
7a2. Total number correct	(0-25)
7b. PART B: Total number of seconds to complete (if not finished by 300 seconds, enter 300) (If test was not completed, enter reason code, 995-998. If test was skipped because optional, enter 888, and SKIP TO QUESTION 8a.)	(0-300,888, 995-998)
7b1. Number of commission errors	(No limit)
7b2. Total number correct	(0-25)
8. Craft Story 21 Recall (Delayed)	
8a. Total story units recalled, verbatim scoring (If test not completed, enter reason code, 95–98, and SKIP TO QUESTION 9a.)	(0-44, 95-98)
8b. Total story units recalled, paraphrase scoring	(0-25)
8c. Delay time (minutes) (99=Unknown)	(0 – 85 minutes)
8d. Cue ("boy") needed	□ o No □ 1 Yes
9. Category Fluency	
9a. Animals: Total number of animals named in 60 seconds (If test not completed, enter reason code, 95–98, and SKIP TO QUESTION 9b.)	(0-77, 95-98)
9b. Vegetables: Total number of vegetables named in 60 seconds (If test not completed, enter reason code, 95–98, and SKIP TO QUESTION 10a.)	(0-77, 95-98)

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Subject ID: Form date:	/	Visit #:
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KEY: 88/888= Optional item 95/995=Physical problem 96/996=Cognitive/behavior problem 97/997=Other problem 98/998=Verbal refusa

	Se Optional item 95/995=Physical problem 96/996=Cognitive/benavior problem 97/997=Othe	Problem	30/330= Verbai Terusai
verba	I Fluency: Phonemic Test		
10a.	Number of correct F-words generated in 1 minute (if test not completed, enter reason code, 95 – 98 , and SKIP TO QUESTION 10d.)		(0-40, 95-98)
10b.	Number of F-words repeated in 1 minute		(0-15)
10c.	Number of non-F-words and rule violation errors in 1 minute		(0-15)
10d.	Number of correct L-words generated in 1 minute (if test not completed, enter reason code, 95–98, and SKIP TO QUESTION 11a.)		(0-40, 95-98)
10e.	Number of L-words repeated in one minute		(0-15)
10f.	Number of non-L-words and rule violation errors in 1 minute		(0-15)
10g.	TOTAL number of correct F-words and L-words		(0-80)
10h.	TOTAL number of F-word and L-word repetition errors		(0-30)
10i.	TOTAL number of non-F/L words and rule violation errors		(0-30)
Rey A	auditory Verbal Learning — Delayed recall and recognition (Optional)		
11a.	Total delayed recall (If test not completed, enter reason code, 95-98. If test was skipped because optional or not available in Spanish translation, enter 88, and SKIP TO QUESTION 12a.)		(0-15, 88, 95-98)
11b.	Intrusions		(No limit)
11c.	Recognition — Total correct		(0-15)
11d.	Recognition — Total false positive		(0-15)
Verba	l Naming Test (Optional)		
12a.	Total correct without a cue		
	(If test was not completed, enter reason code, 95-98. If test was skipped because optional, enter 88, and SKIP TO QUESTION 12b.)		(0-50, 88, 95-98)
12b.	Total correct with phonemic cue		
	(If test was not completed, enter reason code, 95-98. If test was skipped because optional or if no cues were given, enter 88, and SKIP TO QUESTION 13a.)		(0-50, 88, 95-98)
13. Over	all appraisal		
13a.	Per the clinician (e.g., neuropsychologist, behavioral neurologist, or other suitably qualified clinician), based on the UDS neuropsychological examination, the subject's cognitive status is deemed: 1 Better than normal for age 2 Normal for age 3 One or two test score than expected 4 Three or more scores than expected 5 Oclinician unable to recognitive status.	es are abo	ormal or lower

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UDS V3.0, MARCH 2015; TFP V3.2, JUNE 2020 Telephone Follow-up Form C2T: T-cog Neuropsychological Battery Scores Page 4 of 5

SAMPLE FORM

Subject ID: ____ _ _ _ _ _ _ Visit #: ____ _ Visit #: ____

14.	Validity of participant's responses	
		ring or other factors significantly influenced test results. It can be difficult data analysis to know that such an influence may have been present.
	14a. How valid do you think the participant's responses are?	Very valid, probably accurate indication of participant's cognitive abilities (END FORM HERE) Questionably valid, possibly inaccurate indication of participant's cognitive abilities (CONTINUE) Invalid, probably inaccurate indication of participant's cognitive abilities (CONTINUE)
	14b. What makes this participant's responses less valid? (Select all that apply)	☐ 14b1 Hearing impairment ☐ 14b2 Distractions ☐ 14b3 Interruptions ☐ 14b4 Lack of effort or disinterest ☐ 14b5 Fatigue ☐ 14b6 Emotional issues ☐ 14b7 Unapproved assistance ☐ 14b8 Other (SPECIFY):

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UDS V3.0, MARCH 2015; TFP V3.2, JUNE 2020 Telephone Follow-up Form C2T: T-cog Neuropsychological Battery Scores Page 5 of 5

Form D1: Clinician Diagnosis

INSTRUCTIONS: This form is to be completed by the clinician. For additional clarification and examples, see UDS Coding Guidebook for Telephone Follow-up Visit Packet, Form D1. Check only one box per question. It is understood that in some instances it may be difficult to provide an accurate diagnosis where a traditional in-person UDS has not occurred, especially for participants without a previous traditional in-person UDS visit or a recent detailed clinical assessment with documentation, or where new signs and symptoms that alter the diagnosis may have emerged since the last evaluation. We recommend that you use the best sources of information available in filling out this form and defer to an "Other-Unknown" answer option in instances where information may be lacking and or considered unreliable by the study clinician. This form is divided into three main sections: Section 1 Cognitive and behavioral status: Normal cognition / MCI / dementia and dementia syndrome Section 2 Biomarkers, imaging, and genetics: Neurodegenerative imaging and CSF biomarkers, imaging evidence for CVD, and known genetic mutations for AD and FTLD Section 3 Etiological diagnoses: presumed etiological diagnoses for the cognitive disorder 1. Diagnosis method — responses in this form are based on diagnosis by: ☐ 1 A single clinician 2 A formal consensus panel 3 Other (e.g., two or more clinicians or other informal group) Select **2=A formal consensus panel** if the diagnosis was made by a group of clinicians (e.g., neurologists, neuropsychologists, geriatricians) who convene on a regular or semi-regular basis to discuss and decide upon the final diagnosis. In the case of an ad hoc consensus group (e.g., two or more clinicians or other informal group), select 3=Other. **SECTION 1:** Cognitive and behavioral status 2. Does the subject have normal cognition (global CDR=0 and/or neuropsychological testing within normal range) and normal behavior (i.e., the subject does not exhibit behavior sufficient to diagnose MCI or dementia due to FTLD or LBD)? No (CONTINUE TO QUESTION 3) 1 Yes (SKIP TO QUESTION 6) Select 1= Yes if the subject has normal cognition and does not have behavior that is sufficient to diagnose MCI or dementia due to FTD or DLB. Normal cognition is defined as: 1.) No diagnosis of MCI or dementia; and 2.) Either CDR=0 or neuropsychological testing within normal range (or both).

ALL-CAUSE DEMENTIA

The subject has cognitive or behavioral (neuropsychiatric) symptoms that meet all of the following criteria:

- Interfere with ability to function as before at work or at usual activities?
- Represent a decline from previous levels of functioning?
- Are not explained by delirium or major psychiatric disorder?
- Include cognitive impairment detected and diagnosed through a combination of 1) history-taking and 2) objective cognitive assessment (bedside or neuropsychological testing)?

<u>AND</u>

Impairment in one* or more of the following domains.

- Impaired ability to acquire and remember new information
- Impaired reasoning and handling of complex tasks, poor judgment

 Impaired reasoning and handing of complex tasks, poor judgment Impaired visuospatial abilities Impaired language functions Changes in personality, behavior, or comportment * In the event of single-domain impairment (e.g., language in PPA, behavior in bvFTD, posterior cortatorophy), the subject must not fulfill criteria for MCI. 	ical
3. Does the subject meet the criteria for dementia? O No (SKIP TO QUESTION 5) O Yes (CONTINUE TO QUESTION 4)	
Review the criteria listed above Question 3 to determine whether the subject meets the criteria for all-cau These criteria are modified from the McKhann all-cause dementia criteria (2011) to allow a single domain affected.	
Questions 4a – 4f: Diagnosis of the dementia syndromes listed below should be based excledinical symptoms, not on biomarkers or imaging. 4. If the subject meets criteria for dementia, answer Questions 4a–4f below and then SKIP TO QUESTION 6.	usively on
Based entirely on the history and examination (including neuropsychological testing), what is the cognitive syndrome? Select one or more as Present; all others will default to Absent in the NACC database. Dementia syndrome	re/behavioral
4a. Amnestic multidomain dementia syndrome	
This would include typical AD dementia, as well as non-AD amnestic multidomain dementia.	_
4b. Posterior cortical atrophy syndrome (or primary visual presentation)	

Excerpted from Crutch et al. (2013): "Often considered an atypical or variant form of Alzheimer's disease (AD), PCA typically presents in the mid-50s or early 60s and is characterized by progressive decline in visual processing skills, relatively intact memory and language in the early stages, and atrophy of posterior brain regions. PCA is associated with a variety of unusual symptoms, such as difficulty interpreting, locating, or reaching for objects under visual guidance or difficulty navigating. Understanding numbers and reading and writing or spelling may also be affected and, as the disease progresses, patients often develop a more diffuse pattern of cognitive dysfunction, ultimately leading to dementia."

Table 1: Characteristics of posterior cortical atrophy (Excerpted from Crutch et al. (2013))

Core features of PCA:

- · Insidious onset and gradual progression
- Prominent visuoperceptual and visuospatial impairments but no significant impairment of vision itself
- · Relative preservation of memory and insight
- Evidence of complex visual disorders (e.g., elements of Balint's syndrome or Gerstmann's syndrome, visual field defects, visual agnosia, environmental disorientation)
- · Absence of stroke or tremor

Other supportive features:

- · Presenile onset
- · Alexia
- · Ideootor and dressing apraxia
- · Prosopagnosia
- Prolonged color after-images

Reprinted from Alzheimer's & Dementia, 9/4, Sebastian J. Crutch, Jonathan M. Schott, Gil D. Rabinovici, Bradley F. Boeve, Stefano F. Cappa, Bradford C. Dickerson, Bruno Dubois, Neill R. Graff-Radford, Pierre Krolak-Salmon, Manja Lehmann, Mario F. Mendez, Yolande Pijnenburg, Natalie S. Ryan et al., Shining a light on posterior cortical atrophy, Pages 464, 2013, with permission from Elsevier. http://www.sciencedirect.com/science/journal/15525260.

4c. Prima	ry progressive aphasia (PPA) syndrome		
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Select **1=Present** if the subject meets the core clinical criteria for PPA.

ROOT DIAGNOSIS OF PRIMARY PROGRESSIVE APHASIA (PPA)1

All three core criteria must be present:

- 1. Most prominent clinical feature is a new and progressive difficulty with language (i.e., retrieving, using, repeating, sequencing, or understanding words).
- 2. The language disorder (aphasia) should be the most prominent deficit at symptom onset and for the initial phases of the disease.
- 3. All causes other than neurodegeneration are excluded.

1Mesulam, M.-M., 2003. Primary progressive aphasia: A language-based dementia. New England Journal of Medicine 348, 1535-1542.

Diagnostic features for the nonfluent/agrammatic variant PPA

I. Clinical diagnosis of nonfluent/agrammatic variant PPA

At least one of the following core features must be present:

- 1. Agrammatism in language production
- 2. Effortful, halting speech with inconsistent speech sound errors and distortions (apraxia of speech)

At least 2 of 3 of the following other features must be present:

- 1. Impaired comprehension of syntactically complex sentences
- 2. Spared single-word comprehension
- 3. Spared object knowledge
- II. Imaging-supported nonfluent/agrammatic variant diagnosis

Both of the following criteria must be present:

- 1. Clinical diagnosis of nonfluent/agrammatic variant PPA
- 2. Imaging must show one or more of the following results:
 - a. Predominant left posterior fronto-insular atrophy on MRI or
 - b. Predominant left posterior fronto-insular hypoperfusion or hypometabolism on SPECT or PET
- III. Nonfluent/agrammatic variant PPA with definite pathology

Clinical diagnosis (criterion 1 below) and either criterion 2 or 3 must be present:

- 1. Clinical diagnosis of nonfluent/agrammatic variant PPA
- 2. Histopathologic evidence of a specific neurodegenerative pathology (e.g., FTLD-tau, FTLD-TDP, AD, other)
- 3. Presence of a known pathogenic mutation

Abbreviations: AD = Alzheimer's disease; FTLD = frontotemporal lobar degeneration; PPA = primary progressive aphasia

Diagnostic criteria for the semantic variant PPA

I. Clinical diagnosis of semantic variant PPA

Both of the following core features must be present:

- 1. Impaired confrontation naming
- 2. Impaired single-word comprehension

At least 3 of the following other diagnostic features must be present:

- 1. Impaired object knowledge, particularly for low-frequency or low-familiarity items
- 2. Surface dyslexia or dysgraphia
- 3. Spared repetition
- 4. Spared speech production (grammar and motor speech)
- II. Imaging-supported semantic variant PPA diagnosis

Both of the following criteria must be present:

- 1. Clinical diagnosis of semantic variant PPA
- 2. Imaging must show one or more of the following results:
 - a. Predominant anterior temporal lobe atrophy
 - b. Predominant anterior temporal lobe hypoperfusion or hypometabolism on SPECT or PET
- III. Semantic variant PPA with definite pathology

Clinical diagnosis (criterion 1 below) and either criterion 2 or 3 must be present:

- 1. Clinical diagnosis or semantic variant PPA
- 2. Histopathologic evidence of a specific neurodegenerative pathology (e.g., FTLD-tau, FTLD-TDP, AD, other)
- 3. Presence of a known pathogenic mutation

Abbreviations: AD = Alzheimer's disease; FTLD = frontotemporal lobar degeneration; PPA = primary progressive aphasia

Diagnostic criteria for logopenic variant PPA

I. Clinical diagnosis of logopenic variant PPA

Both of the following core features must be present:

- 1. Impaired single-word retrieval in spontaneous speech and naming
- 2. Impaired repetition of sentences and phrases

At least 3 of the following other features must be present:

- 1. Speech (phonologic) errors in spontaneous speech and naming
- 2. Spared single-word comprehension and object knowledge
- 3. Spared motor speech
- 4. Absence of frank agrammatism
- II. Imaging-supported logopenic variant diagnosis

Both criteria must be present:

- 1. Clinical diagnosis of logopenic variant PPA
- 2. Imaging must show at least one of the following results:
 - a. Predominant left posterior perisylvian or parietal atrophy on MRI
 - b. Predominant left posterior perisylvian or parietal hypoperfusion or hypometabolism on SPECT or PET

Logopenic variant PPA with definite pathology

Clinical diagnosis (criterion 1 below) and either criterion 2 or 3 must be present:

- 1. Clinical diagnosis of logopenic variant PPA
- 2. Histopathologic evidence of a specific neurodegenerative pathology (e.g. AD, FTLD-tau, FTLD-TDP, other)
- 3. Presence of a known pathogenic mutation

		4c1.	☐ 1 Meets criteria for semantic PPA		
			☐ 2 Meets criteria for logopenic PPA		
			☐ 3 Meets criteria for nonfluent/agrammatic PPA		
			4 PPA other/not otherwise specified		
n	neets		criteria above and select the PPA subtype. Select 4=PPA other/not otherwise specified if ore clinical criteria for PPA but cannot be further classified as nonfluent/agrammatic, semantic PA.		
	4d.	Beha	vioral variant FTD (bvFTD) syndrome	\square_1	
S	elect	1=Pr	resent if the subject meets the core clinical criteria for bvFTD below.		
т	nton	natio	onal consensus criteria for behavioural variant FTD (FTDC)		
1		_	generative disease Dowing symptom must be present to meet criteria for bvFTD.		
		Show	rs progressive deterioration of behaviour and/or cognition by observation or history (as provide wledgeable informant).	ed by a	
Ι	I. Pos	ssible	bvFTD		
			f the following behavioural/cognitive symptoms (A–F) must be present to meet criteria. Ascer that symptoms be persistent or recurrent, rather than single or rare events.	rtainment	
		-	y* behavioural disinhibition [one of the following symptoms (A1–A3) must be present]:		
			Socially inappropriate behaviour		
		A2.	Loss of manners or decorum		
		A3.	Impulsive, rash or careless actions		
	В.	Earl	y apathy or inertia [one of the following symptoms (B1–B2) must be present]:		
			Apathy		
			Inertia		
	C.		y loss of sympathy or empathy [one of the following symptoms (C1–C2) must be present]:		
			Diminished response to other people's needs and feelings		
	D		Diminished social interest, interrelatedness or personal warmth y perseverative, stereotyped or compulsive/ritualistic behaviour [one of the following symptom	ıs (D1_D0)	
	D		t be present]:	is (D1–D3)	
			Simple repetitive movements		
		D2.	Complex, compulsive or ritualistic behaviours		
		D3.	Stereotypy of speech		
	E.	Hyp	erorality and dietary changes [one of the following symptoms (E1–E3) must be present]:		
			Altered food preferences		
			Binge eating, increased consumption of alcohol or cigarettes		
	-		Oral exploration or consumption of inedible objects	,. 1	
	F.	func	ropsychological profile: executive/generation deficits with relative sparing of memory and visuo tions [all	ospatial	
			e following symptoms (F1–F3) must be present]:		
		F1.	Deficits in executive tasks Relative energing of enisodia memory.		
		F2.	Relative sparing of episodic memory Relative sparing of visuospatial skills		
		гз.	Relative sparing of visuospatial skills		

III. Probable bvFTD

All of the following symptoms (A-C) must be present to meet criteria.

- A. Meets criteria for possible bvFTD
- B. Exhibits significant functional decline (by caregiver report or as evidenced by Clinical Dementia Rating Scale or Functional Activities Questionnaire scores)
- C. Imaging results consistent with bvFTD [one of the following (C1–C2) must be present]:
 - C1. Frontal and/or anterior temporal atrophy on MRI or CT
 - C2. Frontal and/or anterior temporal hypoperfusion or hypometabolism on PET or SPECT

IV. Behavioural variant FTD with definite FTLD pathology

Criterion A and either criterion B or criterion C must be present to meet criteria.

- A. Meets criteria for possible or probable bvFTD
- B. Histopathological evidence of FTLD on biopsy or at post-mortem
- C. Presence of a known pathogenic mutation

V. Exclusionary criteria for bvFTD

Criteria A and B must be answered negatively for any bvFTD diagnosis. Criterion C can be positive for possible bvFTD but must be negative for probable bvFTD.

- A. Pattern of deficits is better accounted for by other non-degenerative nervous system or medical disorders
- B. Behavioural disturbance is better accounted for by a psychiatric diagnosis
- C. Biomarkers strongly indicative of Alzheimer's disease or other neurodegenerative process

*As a general guideline, "early" refers to symptom presentation within the first 3 years. bvFTD = behavioral variant FTD

4e. Lewy body dementia syndrome	
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Select **1=Present** if the subject meets the criteria below for the clinical diagnosis of dementia with Lewy bodies (DLB).

Revised (20171) criteria for the clinical diagnosis of dementia with Lewy Bodies (DLB):

- Essential for a diagnosis of DLB is dementia, defined as a progressive cognitive decline of sufficient
 magnitude to interfere with normal social or occupational functions, or with usual daily activities. Prominent
 or persistent memory impairment may not necessarily occur in the early stages but is usually evident with
 progression. Deficits on tests of attention, executive function, and visuoperceptual ability may be especially
 prominent and occur early.
- 2. Core clinical features (the first 3 typically occur early and may persist throughout the course):
 - · Fluctuating cognition with pronounced variations in attention and alertness.
 - · Recurrent visual hallucinations that are typically well-formed and detailed.
 - REM sleep behavior disorder, which may precede cognitive decline.
 - One or more spontaneous cardinal features of parkinsonism: these are bradykinesia (defined as slowness of movement and decrement in amplitude or speed), rest tremor, or rigidity.
- 3. Supportive clinical features:
 - · Severe sensitivity to antipsychotic agents; postural instability.
 - · Repeated falls.
 - · Syncope or other transient episodes of unresponsiveness.
 - · Severe autonomic dysfunction, e.g., constipation, orthostatic hypotension, urinary incontinence.
 - · Hypersomnia.
 - · Hyposmia.
 - · Hallucinations in other modalities.
 - · Systematized delusions.
 - Apathy.
 - Anxiety.
 - · Depression.
- 4. Indicative biomarkers:
 - · Reduced dopamine transporter uptake in basal ganglia demonstrated by SPECT or PET.
 - Abnormal (low-uptake) 123iodine-MIBG myocardial scintigraphy.
 - · Polysomnographic confirmation of REM sleep without atonia.
- 5. Supportive biomarkers:
 - Relative preservation of medial temporal lobe structures on CT/MRI scan.
 - Generalized low uptake on SPECT/PET perfusion/metabolism scan with reduced occipital activity 6 the cingulate island sign on FDG-PET imaging.
 - · Prominent posterior slow-wave activity on EEG with periodic fluctuations in the pre-alpha/theta range.
- 6. Probable DLB can be diagnosed if:
 - a. Two or more core clinical features of DLB are present, with or without the presence of indicative biomarkers, or
 - b. Only one core clinical feature is present, but with one or more indicative biomarkers. Probable DLB should not be diagnosed on the basis of biomarkers alone.
- 7. Possible DLB can be diagnosed if:
 - a. Only one core clinical feature of DLB is present, with no indicative biomarker evidence, or
 - b. One or more indicative biomarkers is present but there are no core clinical features.

8. DLB is less likely:

- In the presence of any other physical illness or brain disorder including cerebrovascular disease, sufficient
 to account in part or in total for the clinical picture, although these do not exclude a DLB diagnosis and may
 serve to indicate mixed or multiple pathologies contributing to the clinical presentation.
- If parkinsonian features are the only core clinical feature and appear for the first time at a stage of severe dementia.

DLB should be diagnosed when dementia occurs before or concurrently with parkinsonism. The term Parkinson disease dementia (PDD) should be used to describe dementia that occurs in the context of well-established Parkinson disease. In a practice setting the term that is most appropriate to the clinical situation should be used, and generic terms such as Lewy body disease are often helpful. In research studies in which distinction needs to be made between DLB and PDD, the existing 1-year rule between the onset of dementia and parkinsonism continues to be recommended.

(For more information on the criteria above, visit the website of the Lewy Body Dementia Association at https://www.lbda.org/newdlbcriteria.)

¹Guidebook updated September 19, 2017 to reflect the recommendations for the clinical diagnosis of DLB by the Dementia with Lewy Bodies Consortium.

McKeith IF, Boeve BF, Dickson DW, et al. Diagnosis and management of dementia with Lewy bodies: Fourth consensus report of the DLB Consortium, Neurology 2017; 89: 88-100.

4f. Non-amnestic multidomain dementia, not PCA, PPA, bvFTD, or DLB syndrome

This category of dementia syndrome refers to those with a pattern of test results on the neuropsychological battery in which the typical memory-predominant pattern of deficits is not present. This category would be used for subjects who fit none of the other defined syndromes in Questions 4a - 4e (i.e., PPA syndrome, PCA syndrome, the typical pattern of psychomotor slowing and visuospatial cognitive and behavioral deficits associated with DLB [reference Ferman T, Clin Neuropsychol 20:623, 2006], nor the executive deficits seen with bvFTD).

Clin Neuropsychol. 2006 Dec;20(4):623-36. Neuropsychological differentiation of dementia with Lewy bodies from normal aging and Alzheimer's disease. Ferman TJ1, Smith GE, Boeve BF, Graff-Radford NR, Lucas JA, Knopman DS, Petersen RC, Ivnik RJ, Wszolek Z, Uitti R, Dickson DW.

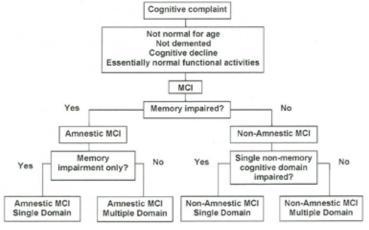
5. If the subject does not have normal cognition or behavior and is not clinically demented, indicate the type of cognitive impairment below.

MCI CORE CLINICAL CRITERIA

- Is the subject, the co-participant, or a clinician concerned about a change in cognition compared to the subject's previous level?
- Is there impairment in one or more cognitive domains (memory, language, executive function, attention, and visuospatial skills)?
- Is there largely preserved independence in functional abilities (no change from prior manner of functioning or uses minimal aids or assistance)?

QUESTIONS 5a – 5d: After having determined that the subject does not have normal cognition (Question 2 above) and does not have dementia (Question 3 above), please use the following chart¹, excerpted from the Alzheimer's Disease Neuroimaging Initiative (ADNI) manual, page 18, to guide your answers to Questions 5a through 5d. First determine whether memory impairment is present, based on your clinical judgment and/or neuropsychological memory test(s) (e.g., the Craft Story immediate and delayed recall tests and/or other memory tests used at your ADC). Then apply the same clinical and/or psychometric approach to determine whether other cognitive domains are also impaired.

Mild Cognitive Impairment



¹Arch Neurol, 2005. 62;1160-63, Figure 1. Reproduced by permission of the publisher. Copyright© 2005. American Medical Association. All rights reserved

 \square_1

Туре	Present	Affected domains	No	Yes
5a. Amnestic MCI, single domain (aMCI SD)				
memory is the only cognitive domain in	npaired, s	elect 1=Present for Question 5a.		
5b. Amnestic MCI, multiple domains (aMCI MD)		CHECK YES for at least one additional domain (besides memory):		
		5b1. Language	О	
		5b2. Attention	О	
		5b3. Executive	□ o	
		5b4. Visuospatial	□ o	
5b4. Select o=No for all others. 5c. Non-amnestic MCI, single	□ 1	s. 1=Yes must be selected for at least one domain CHECK YES to indicate the affected domain:		
5b4. Select o=No for all others.				
5b4. Select o=No for all others.		CHECK YES to indicate the affected domain:		
5b4. Select o=No for all others. 5c. Non-amnestic MCI, single		CHECK YES to indicate the affected domain: 5c1. Language	По	
5b4. Select o=No for all others. 5c. Non-amnestic MCI, single		CHECK YES to indicate the affected domain: 5c1. Language 5c2. Attention	□о	
5b4. Select o=No for all others. 5c. Non-amnestic MCI, single		CHECK YES to indicate the affected domain: 5c1. Language 5c2. Attention 5c3. Executive	□ o □ o	
5b4. Select o=No for all others. 5c. Non-amnestic MCI, single		CHECK YES to indicate the affected domain: 5c1. Language 5c2. Attention	□о	
5b4. Select o=No for all others. 5c. Non-amnestic MCI, single domain (naMCI SD) memory is not impaired, and only one of	other cogr	CHECK YES to indicate the affected domain: 5c1. Language 5c2. Attention 5c3. Executive 5c4. Visuospatial hitive domain is impaired, select 1=Present for Congle cognitive domain that you judge to be impaired.	Ouestion	1 1 1 5c, and
5c. Non-amnestic MCI, single domain (naMCI SD) memory is not impaired, and only one of the en select 1=Yes in Questions 5c1 – 5c4 tamination and/or neuropsychological to 5d. Non-amnestic MCI, multiple	other cogr	CHECK YES to indicate the affected domain: 5c1. Language 5c2. Attention 5c3. Executive 5c4. Visuospatial hitive domain is impaired, select 1=Present for Congle cognitive domain that you judge to be impaired.	Ouestion	1 1 1 5c, and
5c. Non-amnestic MCI, single domain (naMCI SD) memory is not impaired, and only one one select 1=Yes in Questions 5c1 – 5c4 tamination and/or neuropsychological terms.	other cogr for the sir est results	CHECK YES to indicate the affected domain: 5c1. Language 5c2. Attention 5c3. Executive 5c4. Visuospatial nitive domain is impaired, select 1=Present for Quelle cognitive domain that you judge to be impaired. Select o=No for all others.	Ouestion	1 1 1 5c, and
5c. Non-amnestic MCI, single domain (naMCI SD) memory is not impaired, and only one of the en select 1=Yes in Questions 5c1 – 5c4 tamination and/or neuropsychological to 5d. Non-amnestic MCI, multiple	other cogr for the sir est results	CHECK YES to indicate the affected domain: 5c1. Language 5c2. Attention 5c3. Executive 5c4. Visuospatial nitive domain is impaired, select 1=Present for Congle cognitive domain that you judge to be impaired. Select o=No for all others. CHECK YES for at least two domains:	0 0 0 0 Question ed based	1 1 1 1 1 5c, and
5c. Non-amnestic MCI, single domain (naMCI SD) memory is not impaired, and only one of the en select 1=Yes in Questions 5c1 – 5c4 tamination and/or neuropsychological to 5d. Non-amnestic MCI, multiple	other cogr for the sir est results	CHECK YES to indicate the affected domain: 5c1. Language 5c2. Attention 5c3. Executive 5c4. Visuospatial Antive domain is impaired, select 1=Present for Quality of the cognitive domain that you judge to be impaired. Select o=No for all others. CHECK YES for at least two domains: 5d1. Language	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1 1 1 5c, and 1 on you

evaluation are not consistent with MCI and do not allow you to select 1=P1 5d, then select 1=Present for Question 5e.			ns, and clinical Questions 5a –			
QUESTIONS 6a – 6j: Use your Center's local standards to determine where sults for each of the Questions 6a – 6j. If the results were positive for a postandards, select 1=Yes. If the results were negative, select 0=No. If the financoording to your Center's standard cut-off values (i.e., are "too close to call If a specific biomarker test or assay (e.g., CSF tau) was repeated over time at than a month apart, report the result (+ or -) from the most recent test/ass multiple times (e.g., repeat assays of CSF tau within one month), these are results from these tests/assays are conflicting, select 8=Unknown/not a	articular test, a indings fall with ll"), select o=N and the repeate say. If the same the most recen	according to y hin an ambig Io. ed tests/assay test/assay w	your local guous range ys were more yas repeated			
CCTION 2: Biomarkers, imaging, and genetics						
ction 2 must be completed for all subjects.						
6. Indicate neurodegenerative biomarker status, using local standards for positivity.						
6. Indicate neurodegenerative biomarker status, using local standards fo						
6. Indicate neurodegenerative biomarker status, using local standards fo						
6. Indicate neurodegenerative biomarker status, using local standards fo	No	Yes	Unknown/ not assessed			
	No □ 0	Yes				
Biomarker findings			not assessed			
Biomarker findings 6a. Abnormally elevated amyloid on PET	o		not assessed			
Biomarker findings 6a. Abnormally elevated amyloid on PET 6b. Abnormally low amyloid in CSF	□ o □ o		not assessed			
Biomarker findings 6a. Abnormally elevated amyloid on PET 6b. Abnormally low amyloid in CSF 6c. FDG-PET pattern of AD						
Biomarker findings 6a. Abnormally elevated amyloid on PET 6b. Abnormally low amyloid in CSF 6c. FDG-PET pattern of AD 6d. Hippocampal atrophy						
Biomarker findings 6a. Abnormally elevated amyloid on PET 6b. Abnormally low amyloid in CSF 6c. FDG-PET pattern of AD 6d. Hippocampal atrophy 6e. Tau PET evidence for AD			8			
Biomarker findings 6a. Abnormally elevated amyloid on PET 6b. Abnormally low amyloid in CSF 6c. FDG-PET pattern of AD 6d. Hippocampal atrophy 6e. Tau PET evidence for AD 6f. Abnormally elevated CSF tau or ptau 6g. FDG-PET evidence for frontal or anterior temporal hypometabolism			8			
Biomarker findings 6a. Abnormally elevated amyloid on PET 6b. Abnormally low amyloid in CSF 6c. FDG-PET pattern of AD 6d. Hippocampal atrophy 6e. Tau PET evidence for AD 6f. Abnormally elevated CSF tau or ptau 6g. FDG-PET evidence for frontal or anterior temporal hypometabolism for FTLD			8			
Biomarker findings 6a. Abnormally elevated amyloid on PET 6b. Abnormally low amyloid in CSF 6c. FDG-PET pattern of AD 6d. Hippocampal atrophy 6e. Tau PET evidence for AD 6f. Abnormally elevated CSF tau or ptau 6g. FDG-PET evidence for frontal or anterior temporal hypometabolism for FTLD 6h. Tau PET evidence for FTLD 6i. Structural MR evidence for frontal or anterior temporal atrophy			R			

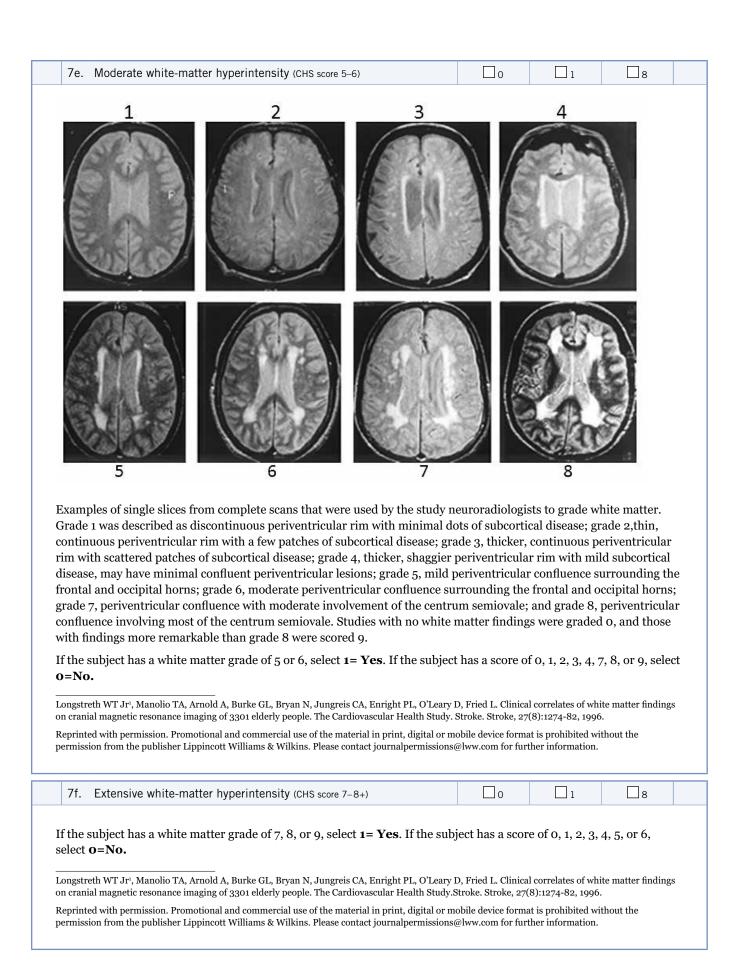
QUESTIONS 7a - 7f: Use your Center's local standards to determine whether the subject had imaging evidence for each of the Questions 7a - 7f. If there is no evidence or ambiguous evidence for each particular CVD listed according to your Center's standards, select o = No for the corresponding question.

Although each Center's local standards should be used to determine whether the subject has imaging evidence for CVD, clinicians are welcome to refer the following paper:

Wardlaw JM, et al. Neuroimaging standards for research into small vessel disease and its contribution to ageing and neurodegeneration. Lancet Neurol 2013;12:822-38.

7. Is there evidence for cerebrovascular disease (CVD) on imaging?

Imaging findings	No	Yes	Unknown/ not assessed
7a. Large vessel infarct(s)	О		□8
7b. Lacunar infarct(s)	О		□8
7c. Macrohemorrhage(s)	О		□8
7d. Microhemorrhage(s)	О		□8



8. Does the subject have a dominantly inherited AD mutation (PSEN1, PSEN2, APP)?
□o No □1 Yes □9 Unknown
If the subject has medical record or lab test evidence of a PSEN1, PSEN2, or APP mutation, select 1=Yes . If medical record review and/or testing has been done, and the subject does not have a PSEN1, PSEN2, or APP mutation, select o=No . If sufficient evidence is not available (e.g., no testing done), select 9=Not assessed/unknown .
9. Does the subject have a hereditary FTLD mutation (e.g., GRN, VCP, TARBP, FUS, C9orf72, CHMP2B, MAPT)?
□ o No □ 1 Yes □ 9 Unknown
If the subject has medical record or lab test evidence of an hereditary FTLD mutation, select 1=Yes. If medical record review and/or testing has been done, and the subject does not have a known hereditary FTLD mutation, select o=No . If sufficient evidence is not available (e.g., no testing done), select 9=Not assessed/unknown .
10. Does the subject have a hereditary mutation other than an AD or FTLD mutation? □ 0 No □ 1 Yes (SPECIFY): □ 9 Unknown
If the subject has medical record or lab test evidence of an inherited mutation other than an AD or FTLD mutation, select 1=Yes and enter a brief description of the mutation in the specify field. If medical record review and/or testing has been done and the results were negative for all non-AD and non-FTLD mutations tested, select 0=No . If sufficient evidence is not available (e.g., no testing done) for other non-AD and non-FTLD mutations, select 9=Not assessed/unknown .

SECTION 3: Etiologic diagnoses

Section 3 must be filled out for all subjects. Indicate presumptive etiologic diagnoses of the cognitive disorder and whether a given diagnosis is a primary, contributing, or non-contributing cause of the observed impairment, based on the clinician's best judgment. Select one or more diagnoses as Present; all others will default to Absent in the NACC database. Only one diagnosis should be selected as 1=Primary.

For subjects with normal cognition: Indicate the presence of any diagnoses by marking Present, and leave the questions on whether the diagnosis was primary, contributing, or non-contributing blank. Subjects with positive biomarkers but no clinical symptoms of Alzheimer's disease, Lewy body disease, or frontotemporal lobar degeneration **should not** have these etiologic diagnoses marked as Present. Instead, the biomarker data from Section 2 can be used to identify the presence of preclinical disease.

Etiologic diagnoses	Present	Primary	Contributing	Non- contributing
11. Alzheimer's disease	□ 1	11a 🗌 1	□ 2	Пз

The AD dementia criteria listed below are excerpted and condensed from the 2011 NIA-AA criteria for AD dementia (McKhann et al., 2011). The diagnosis of dementia due to Alzheimer's disease: Recommendations from the National Institute on Aging and the Alzheimer's Association workgroups. See the original paper for details.

A. Probable AD dementia is diagnosed when the patient:

- 1. Meets criteria for dementia, and has the following characteristics:
- 2. Insidious onset. Symptoms have a gradual onset over months to years; and
- 3. Clear-cut history of worsening of cognition by report or observation; and
- 4. The initial and most prominent cognitive deficits are evident on history and examination in one of the following categories.
 - (1) Amnestic disorder: The most common syndromic presentation of AD dementia.
 - (2) Non-amnestic disorders:
 - · Language disorder
 - · Visuospatial disorder
 - · Executive and behavioral disorder
- 5. Exclusions: The diagnosis of probable AD dementia should not be applied when there is evidence of:
 - (a) substantial concomitant cerebrovascular disease or
 - (b) core features of dementia with Lewy bodies other than dementia itself; or
 - (c) prominent features of behavioral variant frontotemporal dementia; or
 - (d) prominent features of semantic variant primary progressive aphasia or non-fluent/agrammatic variant primary progressive aphasia; or
 - (e) evidence for another concurrent, active neurological disease, or a non-neurological medical co-morbidity or medication use that could have a substantial impact on cognition.

B. Possible AD dementia is diagnosed when the patient meets one of the two following criteria:

- 1. Atypical course: Meets the core clinical criteria (1) and (4) (above) for probable AD dementia, but either had a sudden onset of cognitive impairment or demonstrates insufficient historical detail or objective cognitive documentation of progressive decline, or
- 2. Etiologically mixed presentation: Meets all core clinical criteria (1) through (4) (above) for probable AD dementia but has evidence of:
 - (a) concomitant cerebrovascular disease or
 - (b) features of dementia with Lewy bodies other than the dementia itself; or
 - (c) evidence for another neurological disease or a non-neurological medical co-morbidity or medication use that could have a substantial impact on cognition.

McKhann GM, Knopman DS, Chertkow H, et al. The diagnosis of dementia due to Alzheimer's disease: recommendations from the National Institute on Aging-Alzheimer's Association workgroups on diagnostic guidelines for Alzheimer's disease. Alzheimers Dement. 2011;7(3):263-269.

The following table is excerpted from the 2011 NIA-AA criteria for MCI due to AD (Albert et al., 2011):

Summary of clinical and cognitive evaluation for MCI due to AD

Establish clinical and cognitive criteria

Cognitive concern reflecting a change in cognition reported by patient or informant or clinician (i.e., historical or observed evidence of decline over time)

Objective evidence of impairment in one or more cognitive domains, typically including memory (i.e., formal or bedside testing to establish level of cognitive function in multiple domains)

Largely preserved independence in functional abilities

Not demented

Examine etiology of MCI consistent with AD pathophysiological process

Rule out vascular, traumatic, medical causes of cognitive decline, where possible

Provide evidence of longitudinal decline in cognition, when feasible

Report history consistent with AD genetic factors, where relevant

Abbreviations: AD, Alzheimer's disease; MCI, mild cognitive impairment

If Alzheimer's disease is not present, leave all boxes for Questions 11 and 11a unchecked.

For subjects with cognitive impairment: If Alzheimer's disease is present, select 1=Present and indicate whether it is thought to be the 1=Primary or 2=Contributing cause of the cognitive impairment. Probable AD can be indicated as 1=Primary or 2=Contributing. On the contrary, Possible Alzheimer's disease (atypical course or seemingly mixed etiologies) should not be marked as 1=Primary; the only exception is when there is an atypical course, positive biomarker evidence for AD, and no compelling clinical or biomarker evidence for another primary etiology.

For subjects with normal cognition: If the subject has normal cognition and either sufficient biomarker evidence for Alzheimer's disease or a known genetic mutation, leave all checkboxes in Questions 11 and 11a blank/unchecked. The biomarker and genetic data from Section 2 are used to determine the presence of preclinical disease.

[&]quot;Alzheimer's and Dementia, 7/3, Albert MS, DeKosky ST, Dickson D, Dubois B, Feldman HH, Fox NC, Gamst A, Holtzman DM, Jagust WJ, Petersen RC, Snyder PJ, Carrillo MC, Thies B, Phelps CH, The diagnosis of mild cognitive impairment due to Alzheimer's disease: recommendations from the National Institute on Aging-Alzheimer's Association workgroups on diagnostic guidelines for Alzheimer's disease, 270-279, 2011, with permission from Elsevier http://www.sciencedirect.com/science/article/pii/S155252601100104X."

, ,	12.	Lewy body disease		12a 🗌 1	□ 2	Пз	
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Refer to the papers McKeith et al., 2017 (see DLB criteria on pages 80 - 81) and Litvan et al., 2003 (see criteria table below) to assess the presence of dementia with Lewy body disease. The following criteria refer to probable and possible MCI with Lewy bodies. Additional details concerning the PD criteria are listed under Question 12b.

Summary of research criteria for the clinical diagnosis of the prodromal phase of dementia with Lewy Bodies (DLB) excerpted from McKeith et al., 2020¹.

RESEARCH CRITERIA for the clinical diagnosis of probable and possible MCI with Lewy bodies (MCI-LB):

1. Essential for a diagnosis of MCI-LB is MCI defined by the presence of each of the following:

- Concern by the patient, informant, or clinician regarding cognitive decline.
- Objective evidence of impairment in 1 or more cognitive domains. The cognitive impairment may
 include any domain, but is more likely to be associated with attention-executive and/or visual
 processing deficits.
- Preserved or minimally affected performance of previously attained independence in functional abilities, which do not meet the criteria for dementia.

2. Core clinical features:

- Fluctuating cognition with variations in attention and alertness.
- · Recurrent visual hallucinations.
- · REM sleep behavior disorder.
- One or more spontaneous cardinal features of parkinsonism: these are bradykinesia (defined as slowness of movement and decrement in amplitude or speed), rest tremor, or rigidity.

3. Supportive clinical features:

Severe sensitivity to antipsychotic agents; postural instability; repeated falls; syncope or other transient episodes of unresponsiveness; prolonged or recurrent delirium not due to provoking factors such as surgery, infections, or other systemic illness; autonomic dysfunction, e.g., constipation, orthostatic hypotension, urinary incontinence; hypersomnia; hyposmia; REM sleep without atonia; hallucinations in other modalities including passage, and sense of presence phenomena; systematized delusions including Capgras syndrome; apathy, anxiety, and depression.

4. Proposed biomarkers:

- Reduced dopamine transporter uptake in basal ganglia demonstrated by SPECT or PET.
- Polysomnographic confirmation of REM sleep without atonia.
- Reduced meta-iodobenzylguanidine (MIBG) uptake on myocardial scintigraphy.

5. Potential biomarkers:

- Quantitative EEG showing slowing and dominant frequency variability.
- · Relative preservation of medial temporal lobe structures on structural imaging.
- Insular thinning and gray matter volume loss on MRI.
- Low occipital uptake on perfusion/metabolism scan.

- MCI plus supportive clinical features or potential biomarkers are insufficient to diagnose MCI-LB but
 may raise suspicion of it and prompt biomarker investigation and may add weight to an existing MCILB diagnosis.
- MCI-LB is less likely in the presence of any other physical illness or brain disease including
 cerebrovascular disease, sufficient to account in part or in total for the clinical picture, although
 these do not exclude an MCI-LB diagnosis and may serve to indicate mixed or multiple pathologies
 contributing to the clinical presentation.

6. Probable MCI-LB can be diagnosed if:

- a. Two or more core clinical features of DLB are present, with or without the presence of a proposed biomarker, or
- b. Only 1 core clinical feature is present, but with 1 or more proposed biomarkers.

7. Probable MCI-LB should not be diagnosed based on biomarkers alone.

8. Possible MCI-LB can be diagnosed if:

- a. Only 1 core clinical feature of DLB is present, with no proposed biomarkers, or
- b. One or more of the proposed biomarkers is present, but there are no core clinical features.

McKeith IF, Ferman TJ, Thomas AJ, et al. Research criteria for the dianosis of prodromal dementia with Lewy bodies, Neurology 2020; 94: 1-13

McKeith IF, Boeve BF, Dickson DW, et al. Diagnosis and management of dementia with Lewy bodies: Fourth consensus report of the DLB Consortium, Neurology 2017; 89: 88-100.

Mov Disord. 2003 May; 18(5):467-86. Movement Disorders Society Scientific Issues Committee report: SIC Task Force appraisal of clinical diagnostic criteria for Parkinsonian disorders. Litvan I¹. Bhatia KP, Burn DJ, Goetz CG, Lang AE, McKeith I, Quinn N, Sethi KD, Shults C, Wenning GK; Movement Disorders Society Scientific Issues Committee.

For subjects with cognitive impairment: If Lewy body disease (DLB or Parkinson's disease) is present, select **1=Present**, and indicate whether it is thought to be the **1=Primary** or **2=Contributing** cause of the cognitive impairment. If Lewy body disease is not present, leave all boxes for Questions 12 and 12a unchecked.

For subjects with normal cognition: If the subject has normal cognition but has a clinical diagnosis of Parkinsons's disease, select **1=Present** and leave checkbox 12a blank. If the subject has normal cognition and sufficient biomarker evidence for Lewy body disease, leave all checkboxes in Question 12 and 12a blank/unchecked. The biomarker data from Section 2 are used to determine the presence of preclinical disease.

¹ Guidebook updated July 2020 to reflect the recommendations for the clinical diagnosis of prodromal DLB by the Prodromal Dementia With Lewy Bodies Diagnostic Study Group.

of initiation of voluntary movement with progressive reduction in speed and amplitude of repetitive actions); And at least one of the following: Muscular rigidity. Postural instability not caused by primary visual, vertibular, cerebellar, or proprioceptive dysfunction. Draw of definite encephalitis. Oculogyric crises. Neuroleptic treatment at onset of symptoms. More than one affected relative. Sustained remission. Strictly unilateral features after 3 years. Supranuclear gaze palsy. Cerebellar signs. Early severe autonomic involvement. Early severe dementia with disturbances of memory, language, and praxis. Babinski sign. Presence of cerebral tumor or communicating hydrocephalus on CT scan. Negative response to large doses of levodopa (if malabsorption excluded). diagnosis of definite PD • Unilateral onset. Rest tremor presence • Progressive disorde • Persistent asymment affecting side of ons most. Excellent response 100%) to levodopa. • Severe levodopa-inchorea. • Levodopa response years or more. • Clinical course of 16 or more.	* 1 · · ·		IAGNOSTIC CRITERIA
MPTP exposure.	Bradykinesia (slowness of initiation of voluntary movement with progressive reduction in speed and amplitude of repetitive actions); And at least one of the following: • Muscular rigidity. • 4- to 6-Hz rest tremor. • Postural instability not caused by primary visual, vertibular, cerebellar, or proprioceptive	History of repeated strokes with stepwise progression of parkinsonian features. History of repeated head injury. History of definite encephalitis. Oculogyric crises. Neuroleptic treatment at onset of symptoms. More than one affected relative. Sustained remission. Strictly unilateral features after 3 years. Supranuclear gaze palsy. Cerebellar signs. Early severe autonomic involvement. Early severe dementia with disturbances of memory, language, and praxis. Babinski sign. Presence of cerebral tumor or communicating hydrocephalus on CT scan. Negative response to large doses of levodopa (if	 (Three or more required for diagnosis of definite PD): Unilateral onset. Rest tremor present. Progressive disorder. Persistent asymmetry affecting side of onset most. Excellent response (70% 100%) to levodopa. Severe levodopa-induced chorea. Levodopa response for 5 years or more. Clinical course of 10 years
UK = United Kingdom; PD = Parkinson's disease; CT = computed tomography.		son's disease; CT = computed tomography.	
13. Multiple system atrophy	13. Multiple system atrophy		13a 1 2 3

14. Frontotemporal lobar degeneration						
14a. Progressive supranuclear p	alsy (PSP)		14a1 🗌 1	□ 2	Пз	
Use the following criteria to diagnose PSP (adapted from Bensimon et al., 2009)						
Inclusion criteria	Exclusion criteria					
ALL OF THE FOLLOWING:	ANY OF THE FOLLO	WING:				
 Age at disease onset ≥30 years; Cerebellar ataxia; 						
 Akinetic-rigid syndrome; 						
• Postural instability or falls (within 3 • History of repeated strokes with stepwise progression of parkinsonian						
years from disease onset); features;						
Supranuclear ophthalmoplegia. Idiopathic Parkinson's disease; Oculograpia original.						
Oculogyric crises; Significant other pourelegical disease on CT scan /MRI.						
	Significant other neurological disease on CT-scan/MRI; Signs of corticohasal degeneration;					
	Signs of corticobasal degeneration;Signs of lewy body disease;					
 Signs of fewy body disease; Symptomatic autonomic dysfunction; 						
	• Tremor at rest.	•				
For subjects with cognitive and/or behavioral impairment: If PSP is present, select 1=Present and indicate whether it is thought to be the 1=Primary cause, a 2=Contributing cause, or a 3=Non-contributing cause of the cognitive impairment.						
For subjects with normal cognition a sufficient for a diagnosis of PSP, select 1=1 contributing in Question 14a1 blank/unche	Present and leave the ch	-	_			
If PSP is not present, leave all boxes for Qu	iestions 14a and 14a1 blar	nk/unchecke	d.			

14b.	Corticobasal degeneration (CBD)		14b1 🗌 1	□ 2	□ 3	
	3					

Refer to diagnostic criteria by Armstrong et al. (2013) when assessing the presence of CBD.

For subjects with cognitive and/or behavioral impairment: If CBD is present, select **1=Present** and indicate whether it is thought to be the **1=Primary** cause, a **2=Contributing** cause, or a **3=Non-contributing** cause of the cognitive impairment.

For subjects with normal cognition and behavior: If the subject has normal cognition but clinical symptoms sufficient for a diagnosis of CBD, select CBD as **1=Present** and leave the checkboxes about whether it is primary or contributing in Question 14b1 blank/unchecked.

If CBD is not present, leave all boxes for Questions 14b and 14b1 blank/unchecked.

Proposed clinical phenotypes (syndromes) associated with the pathology of corticobasal degeneration (CBD)

Syndrome	Features
Probable corticobasal syndrome	Asymmetric presentation of TWO OF: a) limb rigidity or akinesia, b) limb dystonia, c) limb myoclonus;
	PLUS TWO OF: d) orobuccal or limb apraxia, e) cortical sensory deficit, f) alien limb phenomena (more than simple levitation).
Possible corticobasal syndrome	May be symmetric; ONE OF: a) limb rigidity or akinesia, b) limb dystonia, c) limb myoclonus;
	PLUS ONE OF: d) orobuccal or limb apraxia, e) cortical sensory deficit, f) alien limb phenomena (more than simple levitation).

 $^{^{1} \}text{Armstrong, MJ, Litvan I, et al. } \textit{Criteria for the diagnosis of corticobasal degeneration.} \\ \text{Neurology 2013;80;496.}$

14c. FTLD with motor neuron disease	□ 1 14c1 □ 1 □ 2 □ 3							
Use the following criteria, adapted from El Escorial revisite lateral sclerosis (Brooks et al., 2000)1:	ed: Revised criteria for the diagnosis of amyotrophic							
Requirements for the diagnosis of amyotrophic lat	teral sclerosis							
The diagnosis of ALS requires the PRESENCE of:	The diagnosis of ALS requires the ABSENCE of:							
 Evidence of lower motor neuron (LMN) degeneration by clinical, electrophysiological or neuropathologic examination; 	 Electrophysiological or pathological evidence of other disease processes that might explain the signs of LMN and/or UMN degeneration; and 							
 Evidence of upper motor neuron (UMN) degeneration by clinical examination; and 	• Neuroimaging evidence of other disease processes that might explain the observed clinical and							
• Progressive spread of symptoms or signs within a region or to other regions, as determined by history or examination, together with B1 and B2 in next column.								
¹ Brooks BR, Miller RG, Swash M, Munsat TL, Diseases WFoNRGoMN. El Escorial revisited: revised criteria for the diagnosis of amyotrophic lateral sclerosis. Amyotroph Lateral Scler Other Motor Neuron Disord. 2000;1(5):293-299.								
3=Non-contributing cause of the cognitive impairment. For subjects with normal cognition and behavior: If the sufficient for a diagnosis of FTLD with motor neuron disease, see whether it is primary or contributing in Question 14c1 blank/un of FTLD with motor neuron disease is not present, leave the chemical subject.	elect 1=Present and leave the checkboxes about achecked.							
14d. FTLD NOS								
	□ 1							
CBD, or FTLD with motor neuron disease is present. If FTLD Note 1=Primary cause, a 2=Contributing cause, or a 3=Non-contributing cause, or a 3=Non-contributing cause, or a 3=Non-contributing cause, or a 3=Non-contributing cause, or a 3=Non-contribution cause, or a 3=Non-contribu	sent. This diagnosis should not be selected if PSP, OS is present, indicate whether it is thought to be the atributing cause of the cognitive impairment. 14d and 14d1 blank/unchecked.							
CBD, or FTLD with motor neuron disease is present. If FTLD Note = Primary cause, a 2=Contributing cause, or a 3=Non-con of FTLD NOS is not present, leave all checkboxes for Questions 14e. If FTLD (Questions 14a – 14d) is Present, specific	sent. This diagnosis should not be selected if PSP, OS is present, indicate whether it is thought to be the atributing cause of the cognitive impairment. 14d and 14d1 blank/unchecked.							
CBD, or FTLD with motor neuron disease is present. If FTLD Note = Primary cause, a 2=Contributing cause, or a 3=Non-contributing cause, or a 3=Non-contribution cause, or a 3=Non-contribu	sent. This diagnosis should not be selected if PSP, OS is present, indicate whether it is thought to be the atributing cause of the cognitive impairment. 14d and 14d1 blank/unchecked.							
FTLD subtype: 1 Tauopathy 2 TDP-43 proteinopathy	sent. This diagnosis should not be selected if PSP, OS is present, indicate whether it is thought to be the atributing cause of the cognitive impairment. 14d and 14d1 blank/unchecked.							

Select **1=Tauopathy**, **2=TDP-43 proteinopathy**, or **3=Other (specify)** if specific evidence (e.g., genetics) beyond the clinical syndrome is available to indicate the FTLD subtype. If a subtype other than Tauopathy or TDP-43 proteinopathy is present, select **3=Other** and specify the subtype. Select **9=Unknown** if there is no evidence beyond the clinical syndrome to specify the FTLD subtype.

Etiol	ogic diagnoses	Present	Primary	Contributing	Non- contributing
15.	Vascular brain injury (based on clinical or imaging evidence)		15a 🗌 1	☐ 2	Пз
	If significant vascular brain injury is absent, SKIP TO QUESTION 16.				

If there is evidence of significant vascular brain injury confirmed by clinical <u>or</u> neuroimaging studies, select **1=Present** for Question 15. Significant vascular brain injury includes either:

- CLINICAL EVIDENCE of symptomatic stroke (i.e., abrupt onset of focal neurological signs)
- OR -
- NEUROIMAGING EVIDENCE of one or more of the following:
 - cystic infarcts (large or small)
 - significant white matter changes (Grade 7-8+ on Cardiovascular Health Study Scale)
 - intraparenchymal hemorrhage
 - multiple microbleeds

If the subject has no clinical evidence of symptomatic stroke and neuroimaging studies do not indicate evidence of significant vascular brain injury, skip to Question 16.

For subjects with cognitive impairment: Indicate whether vascular brain injury is thought to be the 1=Primary cause, a 2=Contributing cause, or a 3=Non-contributing cause of the cognitive impairment.

Select **1=Primary** if the subject has one or more of the following:

- a temporal relationship between a symptomatic stroke (confirmed by neuroimaging) and cognitive decline;
- · imaging evidence of cystic infarction(s) in a cognitive network
- cystic infarct (anywhere in the brain), <u>and</u> imaging evidence of extensive confluent white matter changes (WMH Grade 7-8+), <u>and</u> impairment in executive function.

If there is clinical evidence of a symptomatic stroke with temporal relationship to cognitive decline but no available supporting neuroimaging, select **1=Primary** or **2=Contributing** based on clinical judgment.

If there is significant vascular brain injury but no clear temporal or anatomical relationship with cognitive impairment, select **2=Contributing** or **3=Non-contributing** based on clinical judgment.

If there is a history of gradually progressive cognitive decline preceding a symptomatic stroke in the absence of extensive confluent white matter changes (thereby suggesting an underlying neurodegenerative etiology), select **2=Contributing** or **3=Non-contributing** based on clinical judgment.

For subjects with normal cognition: If the subject has normal cognition but has evidence of significant vascular brain injury, select **1=Present** for Question 15 and leave the primary and contributing boxes in Question 15a blank/unchecked.

Questions 15b - 15d:

Questions 15b, 15c, and 15d represent three possible, non-mutually exclusive scenarios that support a causal relationship between vascular brain injury and cognitive impairment based on temporal or anatomical relationships.

15b.	Previous symptomatic stroke?			
	O No (SKIP TO QUESTION 15c)			
	☐ 1 Yes			

Select $\mathbf{1}=\mathbf{Yes}$ if the subject has clinical evidence of at least one previous symptomatic stroke. Select $\mathbf{o}=\mathbf{No}$ if the subject has never had a symptomatic stroke.

	15b1. Temporal relationship between stroke and cognitive decline?□ 0 No□ 1 Yes					
cognition; or 2 1=Yes if eithe	tionship is defined in two ways: either 1) when the stroeth the symptomatic stroke was followed by cognitive der of these two conditions is present (for any previous suitive decline within six months of a symptomatic stroke	ecline noted ymptomatic	within three	to six month	s. Select	
	15b2. Confirmation of stroke by neuroimaging? O No 1 Yes 9 Unknown; no imaging data available					
signs. Select 1: neurological si of symptomati	f neuroimaging does not support stroke as the etiology =Yes if neuroimaging data/report confirm stroke as the gns (if subject has had more than one previous sympton costroke was confirmed by neuroimaging). Select 9=U ake this determination.	ne etiology fo omatic strok	or a history of te, select 1=Y	f abrupt onse es if at least	et of one instance	
15c.	Is there imaging evidence of cystic infarction in cognitive network(s)? 0 No 1 Yes 9 Unknown; no imaging data available					
subcortical loc	f there is imaging evidence of cystic infarction(s) in cops, medial temporal diencephalic memory system, landeredoes not show cystic infarction in a cognitive network.	guage, or vi				
15d.	Is there imaging evidence of cystic infarction, imaging evidence of extensive white matter hyperintensity (CHS grade 7–8+), and impairment in executive function? 0 No 1 Yes 9 Unknown; no imaging data available					
evidence of ex	f the subject has imaging evidence of cystic infarct (no tensive confluent WMH (CHS grade 7–8+) <u>and</u> impair course). Select o=No if there is evidence that at least	ment in exe	cutive function			

	16. Essential tremor		16a 🗌 1	□ 2	Пз			
c I it it	tefer to the consensus criteria (Deuschl et al., 1998) for essential tresheckboxes in Questions 16 and 16a blank/unchecked. For subjects with cognitive impairment: If essential tremor is a sthought to be the 1=Primary cause, a 2=Contributing cause, is thought to be the 1=Primary cause, a final cause, in pairment. For subjects with normal cognition: If the subject has normal cognition is the subject has normal cognition.	present, selo or a 3=Nor	ect 1=Presen 1-contributi	nt and indica	te whether the cognitive	,		
1 -	1=Present and leave the boxes for Question 16a blank/unchecked. Deuschl G, Bain P, Brin M. Mov Disord. 1998; 12 Suppl 3:2–23. Consensus statement of the Movement Disorder Society on Tremor. Ad Hoc Scientific Committee.							
	17. Down syndrome		17a 🗆 1	□ ₂	Пз			
2 I c	f Down syndrome is present, select 1=Present and indicate whether =Contributing cause, or a 3=Non-contributing cause of the confidence of Down syndrome is not present, leave all boxes for Questions 17 and appreciation but has Down syndrome, select 1=Present for Question 17 question 17 a blank/unchecked.	gnitive impa d 17a blank/	airment, if ap unchecked. It	plicable. f the subject	has normal			
	18. Huntington's disease		18a 🗌 1	☐2	□3			
1 (Huntington's disease is present, select 1=Present for Question 18 =Primary cause, a 2=Contributing cause, or a 3=Non-contrib Question 18a, if applicable. If Huntington's disease is not present, learn networked. If the subject has normal cognition but has Huntington's =Present and leave the primary and contributing boxes in Question	uting cause ave all boxes disease feat	e of the cognit s for Question tures or a kno	tive impairm as 18 and 18a	ent in blank/			
	19. Prion disease (CJD, other)		19a 🗌 1	☐2	Пз			
I S ti ii 1 u	tefer to the paper by Puoti et al. (2012)¹ regarding the clinical diagnors of prion disease is not present, leave all checkboxes in Questions 19 at elect 1=Present if prion disease (Creutzfeldt-Jakob disease or other nought to be the 1=Primary cause, a 2=Contributing cause, or a mpairment in Question 19a. If the subject has normal cognition but =Present for Question 19 and leave the primary, contributing, and nchecked. Lancet Neurol. 2012 Jul;11(7):618-28. doi: 10.1016/S1474-4422(12)70063-7. Sporadic lancet Neurol. 2012 Jul;11(7):618-28. doi: 10	nd 19a blaner type) is pr 3=Non-co has tested p non-contril	k/unchecked. resent, and incomplete the control of	dicate wheth cause of the c ion disease, s in Question 1	cognitive select 19a blank/			
	, , ,							

	20.	Traumatic brain injury	□ 1	20a 🗌 1	□ ₂	Пз	
		nition of TBI below has been condensed from Menon et al. (•				
,	TBI is de	efined as an alteration in brain function, or other evidence of	f brain patho	ology, caused l	by an extern	al force.	
	A:A:Nlo	ation in brain function is defined as 1 of the following clinical my period of loss of or a decreased LOC my loss of memory for events immediately before (retrograde eurologic deficits (weakness, loss of balance, change in visionss, aphasia, etc.) ny alteration in mental state at the time of the injury (confus	e amnesia) o n, dyspraxia	paresis/plegi	a [paralysis]	_	
		her evidence of brain pathology: Such evidence may include rmation of damage to the brain.	visual, neur	oradiologic, o	r laboratory		
	TlTlAFo	ed by an external force may include any of the following ever the head being struck by an object the head striking an object the brain undergoing an acceleration/deceleration movement foreign body penetrating the brain process generated from events such as a blast or explosion or other force yet to be defined		ect external t	rauma to the	e head	
	1=Pres	pjects with cognitive impairment: If the subject has had ent for Question 20 and indicate whether the TBI is thought a 3=Non-contributing cause of the cognitive impairmen	t to be the 1 =	Primary cat			
•	defined a	ojects with normal cognition: If the subject has normal above, select 1=Present for Question 20 and leave the prima 20 a blank/unchecked.					
	If the su	bject has had no previous TBI, leave all boxes in Questions 2	o and 20a b	lank and uncl	necked.		
	MENON, I 1637-40.	D. K., SCHWAB, K., WRIGHT, D. W. & MAAS, A. I. 2010. Position statement:	definition of tra	numatic brain inju	ıry. Arch Phys N	/Ied Rehabil, 91,	
		20b. If Present, does the subject have symptoms consistent with chronic traumatic encephalopathy? O No 1 Yes 9 Unknown					
: :	sympton Select 1= have syn	the published papers by McKee et al. (2009) and Stern et al ns. Yes if the subject has symptoms consistent with chronic transport consistent with CTE, select o=No . If it is unknown ect 9=Unknown .	aumatic ence	ephalopathy. I	If the subjec	t does not	
1		thol Exp Neurol. 2009 Jul;68(7):709-35. doi: 10.1097/NEN.obo13e3181a9d5 after repetitive head injury. McKee AC1, Cantu RC, Nowinski CJ, Hedley-Wh					
]	DR, Monte	. 2013 Sep 24;81(13):1122-9. Clinical presentation of chronic traumatic encepenigro PH, Riley DO, Fritts NG, Stamm JM, Robbins CA, McHale L, Simkin I,					

21. Normal-pressure hydrocephalus		21a 🗌 1	□ 2	□3					
If normal-pressure hydrocephalus is not present, leave all boxes in Questions 21 and 21a blank/unchecked. If normal-pressure hydrocephalus is present, select 1=Present , and indicate whether it is thought to be the 1=Primary cause, a 2=Contributing cause, or a 3=Non-contributing cause of the cognitive impairment. If the subject has normal cognition, but has other non-cognitive features of normal-pressure hydrocephalus, select 1=Present for Question 21 and leave the primary, contributing, and non-contributing boxes for Question 21a blank/unchecked.									
22. Epilepsy		22a 🗆 1	□ 2	Пз					
Refer to the paper by Fisher et al. (2014)¹ for clinical symptoms consistent with epilepsy. If epilepsy is not present, leave all boxes in Questions 22 and 22a blank/unchecked. If epilepsy is present, select 1=Present, and indicate whether it is thought to be the 1=Primary cause, a 2=Contributing cause, or a 3=Non-contributing cause of the cognitive impairment. If the subject has normal cognition but has other non-cognitive features of epilepsy, select 1=Present for Question 22 and leave the primary, contributing, and non-contributing boxes for Question 22a blank/unchecked. ¹ Epilepsia. 2014 Apr;55(4):475-82. doi: 10.1111/epi.12550. Epub 2014 Apr 14. ILAE official report: a practical clinical definition of epilepsy. Fisher RS1, Acevedo C, Arzimanoglou A, Bogacz A, Cross JH, Elger CE, Engel J Jr, Forsgren L, French JA, Glynn M, Hesdorffer DC, Lee BI, Mathern GW, Moshé SL, Perucca E, Scheffer IE, Tomson T, Watanabe M, Wiebe S.									
23. CNS neoplasm 23b. 1 Benign 2 Malignant									
If CNS neoplasm (benign or malignant) is not present, leave all boxes for Questions 23, 23a, and 23b blank/ unchecked. If CNS neoplasm is present, select 1=Present , and indicate whether it is thought to be the 1=Primary cause, a 2=Contributing cause, or a 3=Non-contributing cause of the cognitive impairment. If the subject has normal cognition and has CNS neoplasm, select 1=Present for Question 23 and leave the primary, contributing, and non-contributing boxes for Question 23a blank/unchecked.									
24. Human immunodeficiency virus (HIV)		24a 🗌 1	□ 2	□ 3					
Recent publications outline updated research criteria for determining the presence of an HIV-associated neurocognitive disorder — for instance, the paper by Antinori et al. (2007). For subjects with cognitive impairment: If HIV is present, select, and indicate whether it is thought to be the 1=Primary cause, a 2=Contributing cause, or a 3=Non-contributing cause of the cognitive impairment. For subjects with normal cognition: If the subject has normal cognition and has HIV, select 1=Present for Question 24 and leave the primary, contributing, and non-contributing boxes for Question 24a blank/unchecked. If HIV is not present, leave all boxes for Questions 24 and 24a blank/unchecked. Antinori A, Arendt G, Becker JT, et al. Updated research nosology for HIV-associated neurocognitive disorders. Neurology. 2007;69(18):1789-1799.									
25. Cognitive impairment due to other neurologic, genetic, or infectious conditions not listed above		25a 🗌 1	□ 2	Пз					

25 b.	If Present, specify:				
described in Qu whether the etic	as cognitive impairment due to a neurological, genetic estions 11 – 24, select 1=Present , specify the etiolog clogy is the 1=Primary cause, a 2=Contributing ca ive impairment.	ic cause in t	he Specify fi	ield, and indi	cate
whether a give on the clinicia NACC database For subjects w the questions of positive bioma	t be filled out for all subjects. Indicate presumptive et in diagnosis is a primary, contributing, or non-contribun's best judgment. Select one or more diagnoses as Proc. Only one diagnosis should be selected as 1=Primary. In the normal cognition: Indicate the presence of any diagnosis was primary, contributing, or or whether the diagnosis was primary, contributing, or or kers but no clinical symptoms of Alzheimer's disease thould not have these etiologic diagnoses marked as p	ting cause of esent; all other gnoses by me non-contribute, Lewy body resent. Inste	f the observe ers will defau- arking Preser- outing blank. disease, or fr	d impairmen ilt to Absent i nt, and leave Subjects with	t, based in the n l lobar
Section 2 can	be used to identify the presence of preclinical disease	; .			
Section 2 can Condition	be used to identify the presence of preclinical disease	Present	Primary	Contributing	Non- contributing
Condition	depression If Present, select one: 0 Untreated 1 Treated with medication and/or counseling		Primary 26a 1	Contributing 2	Non- contributing

r i i i	QUESTIONS 27 – 31: Consult the Diagnostic and Statistical Manual of the psychiatric conditions listed in Questions 27 – 31. If the psychelated to the particular psychiatric disorder blank/unchecked. If the sactive but successfully treated with medication or counseling) is sthought to be the 1=Primary cause, a 2=Contributing cause, mpairment. If the subject has normal cognition but has the psychiatric primary, contributing, and non-contributing boxes for that respect	hiatric disord he psychiatric present, selec or a 3=Non- atric disorder	er is not prese condition (re t 1=Present , contributin g, select 1=Pre	ent, leave all gardless of v and indicate g cause of the esent and le	questions whether it e whether it e cognitive			
	27. Bipolar disorder		27a 🗌 1	□ 2	□3			
	28. Schizophrenia or other psychosis		28a 🗌 1	□ 2	□ 3			
	29. Anxiety disorder		29a 🔲 1	□ 2	□3			
	30. Delirium		30a 🔲 1	☐ 2	□ 3			
	31. Post-traumatic stress disorder (PTSD)		31a 🗌 1	□ 2	□3			
	32. Other psychiatric disease 32b. If Present, specify:	. 1	32a 🗌 1	☐ 2	З			
i	If the subject has cognitive impairment due to a psychiatric condition other than those described in Questions 26 – 31, select 1=Present for Question 32, specify the etiologic cause in the specify field, and indicate whether the etiology is the 1=Primary cause, a 2=Contributing cause, or a 3=Non-contributing cause of the observed cognitive impairment.							
(Questions 33 – 36: Consult the Diagnostic and Statistical Manua	ol of Montal D	. 1					
t r i i i	he psychiatric conditions listed in Questions 33 – 36. If the psychiatric disorder blank/unchecked. If the sactive but successfully treated with medication or counseling) is sthought to be the 1=Primary cause, a 2=Contributing cause, mpairment. If the subject has normal cognition but has the psychiatrimary, contributing, and non-contributing boxes for the respective	atric disorder he psychiatric present, selec or a 3=Non- atric disorder	is not present condition (re t 1=Present, contributing , select 1=Pre	t, leave all que gardless of ve and indicate g cause of the esent and le	uestions whether it whether it e whether it			
t r i i i	related to the particular psychiatric disorder blank/unchecked. If the sactive but successfully treated with medication or counseling) is a sthought to be the 1=Primary cause, a 2=Contributing cause, mpairment. If the subject has normal cognition but has the psychiatric properties of the subject has normal cognition but has the psychiatric properties.	atric disorder he psychiatric present, selec or a 3=Non- atric disorder	is not present condition (re t 1=Present, contributing , select 1=Pre	t, leave all que gardless of ve and indicate g cause of the esent and le	uestions whether it whether it e whether it			
t r i i i	related to the particular psychiatric disorder blank/unchecked. If the sactive but successfully treated with medication or counseling) is a sthought to be the 1=Primary cause, a 2=Contributing cause, mpairment. If the subject has normal cognition but has the psychiatrimary, contributing, and non-contributing boxes for the respective or comparts of the property	atric disorder he psychiatric present, selec or a 3=Non- atric disorder we question bl	is not present condition (ret 1=Present, contributing, select 1=Present, ank/uncheck	t, leave all questions of very and indicate grause of the esent and lead.	uestions whether it e whether it e cognitive ave the			
t r i i i	related to the particular psychiatric disorder blank/unchecked. If the sactive but successfully treated with medication or counseling) is a sthought to be the 1=Primary cause, a 2=Contributing cause, mpairment. If the subject has normal cognition but has the psychiatrimary, contributing, and non-contributing boxes for the respective strain of the subject has normal cognition but has the psychiatrimary, contributing, and non-contributing boxes for the respective strain of the subject has normal cognition but has the psychiatrimary, contributing, and non-contributing boxes for the respective strain of the subject has normal cognition but has the psychiatrimary, contributing and non-contributing boxes for the respective strain of the subject has normal cognition but has the psychiatrimary, contributing and non-contributing boxes for the respective strain of the subject has normal cognition but has the psychiatrimary, contributing and non-contributing boxes for the respective strain of the subject has normal cognition but has the psychiatrimary, contributing, and non-contributing boxes for the respective strain of the subject has normal cognition but has the psychiatrimary, contributing boxes for the respective strain of the subject has normal cognition but has the psychiatrimary contribution but has the	atric disorder he psychiatric present, selec or a 3=Non- atric disorder we question bl	is not present condition (ret t=Present, contributing, select 1=Present, ank/uncheck	t, leave all questions of very and indicate grause of the esent and lead.	uestions whether it e whether it e cognitive ave the			

pairment.	2=Contributing cause, or	a 3–Non-contributing	g cause of the	observed co	giittive
37. Cognitive impairm 37b. If Preser		□1	37a 🗌 1	□ 2	Пз
38. Cognitive impairm 38b. If Preser	nent NOS it, specify:	□1	38a 🗆 1	□ 2	Пз
39. Cognitive impairm 39b. If Preser	nent NOS nt, specify:		39a 🗌 1	□ ₂	Пз



TELEPHONE FOLLOW-UP PACKET NACC UNIFORM DATA SET (UDS)

Form D1: Clinician Diagnosis

ADC name:	Subject ID: Form date:/ Form date:/	
	This form is to be completed by the clinician. For additional clarification and examples, see UDS Coding ephone Follow-up Packet, Form D1. Check only one box per question.	_
This form is Section 1 Section 2 Section 3	Cognitive and behavioral status: Normal cognition / MCI / dementia and dementia syndrome Biomarkers, imaging, and genetics: Neurodegenerative imaging and CSF biomarkers, imaging evidence for CVD, and known genetic mutations for AD and FTLD Etiological diagnoses: presumed etiological diagnoses for the cognitive disorder	
☐1 A single		
2. Does the sub normal beha	ognitive and behavioral status bject have normal cognition (global CDR=0 and/or neuropsychological testing within normal range) and wior (i.e., the subject does not exhibit behavior sufficient to diagnose MCI or dementia due to FTLD or LBD) ONTINUE TO QUESTION 3) SKIP TO QUESTION 6)	?
The subject Interfere to Represent Are not ex Include coognitive AND Impaire Impaire Imp Imp Cha	has cognitive or behavioral (neuropsychiatric) symptoms that meet all of the following criteria: with ability to function as before at work or at usual activities? t a decline from previous levels of functioning? xplained by delirium or major psychiatric disorder? ognitive impairment detected and diagnosed through a combination of 1) history-taking and 2) objective assessment (bedside or neuropsychological testing)? ment in one* or more of the following domains. vaired ability to acquire and remember new information paired reasoning and handling of complex tasks, poor judgment vaired visuospatial abilities vaired language functions anges in personality, behavior, or comportment the event of single-domain impairment (e.g., language in PPA, behavior in bvFTD, posterior cortical control of the subject must not fulfill criteria for MCI.	
O No (SI	bject meet the criteria for dementia? KIP TO QUESTION 5) CONTINUE TO QUESTION 4)	

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4. If the subject meets criteria for dementia, answer Questions 4a-4f below and then SKIP TO QUESTION 6.						
		luding neuropsychological testing), what is the cog rs will default to Absent in the NACC database.	gnitive/b	ehavioral		
Dementia syndrome			- 1	Present		
4a. Amnestic multidomain dementia sy	ndrome			\Box_1		
4b. Posterior cortical atrophy syndrome	(or prima	ry visual presentation)		□1		
4c. Primary progressive aphasia (PPA) s	syndrome			\Box 1		
4c1. 1 Meets criteria for semant	tic PPA					
☐ 2 Meets criteria for logope	nic PPA					
☐ 3 Meets criteria for nonflue	ent/agram	matic PPA				
☐ 4 PPA other/not otherwise	specified					
4d. Behavioral variant FTD (bvFTD) syn	drome			□ 1		
4e. Lewy body dementia syndrome				\Box 1		
4f. Non-amnestic multidomain dement	ia, not PO	CA, PPA, bvFTD, or DLB syndrome		\Box_1		
If the subject does not have normal cogni impairment below.	ition or be	ehavior and is not clinically demented, indicate the	e type of	cognitive		
MCI CORE CLINICAL CRITERIA						
previous level?		concerned about a change in cognition compared				
 Is there impairment in one or more co- visuospatial skills)? 	gnitive do	mains (memory, language, executive function, atte	ention, a	nd		
· ·	ce in fund	tional abilities (no change from prior manner of fu	ınctionin	g or		
		ent (all others will default to Absent in the NACC of below, it should meet the MCI core clinical criteria				
Туре	Present	Affected domains	No	Yes		
5a. Amnestic MCI, single domain (aMCI SD)	\Box 1					
5b. Amnestic MCI, multiple domains (aMCI MD)		CHECK YES for at least one additional domain (besides memory):				
		5b1. Language	0	□1		
		5b2. Attention	_o			
		5b3. Executive	□ o	□1		

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5b4. Visuospatial

□0

 \Box_1

Select one syndrome from 5a-5e as being Present (all others will default to Absent in the NACC database), and then CONTINUE TO QUESTION 6. If you select MCI below, it should meet the MCI core clinical criteria outlined above.

Туре	Present	Affected domains	No	Yes
5c. Non-amnestic MCI, single domain (naMCI SD)	□1	CHECK YES to indicate the affected domain:		
		5c1. Language	□∘	□1
		5c2. Attention	□°	□1
		5c3. Executive	□∘	□1
		5c4. Visuospatial	□∘	\Box_1
5d. Non-amnestic MCI, multiple domains (naMCI MD)	□1	CHECK YES for at least two domains:		
domains (name) mb)		5d1. Language	□o	□1
		5d2. Attention	□∘	□ 1
		5d3. Executive	□o	□1
		5d4. Visuospatial	□∘	□1
5e. Cognitively impaired, not MCI	□1			

SECTION 2: Biomarkers, imaging, and genetics

Section 2 must be completed for all subjects.

6. Indicate neurodegenerative biomarker status, using local standards for positivity.

Bio	marker findings	No	Yes	Unknown/ not assessed
6a.	Abnormally elevated amyloid on PET	□0	□ 1	□8
6b.	Abnormally low amyloid in CSF	□0	□ 1	□8
6c.	FDG-PET pattern of AD	□∘	□1	□8
6d.	Hippocampal atrophy	□0	□ 1	□8
6e.	Tau PET evidence for AD	□0	□ 1	□8
6f.	Abnormally elevated CSF tau or ptau	□0	□ 1	□8
6g.	FDG-PET evidence for frontal or anterior temporal hypometabolism for FTLD	□0	□1	□8
6h.	Tau PET evidence for FTLD	□o	□ 1	□8
6i.	Structural MR evidence for frontal or anterior temporal atrophy for FTLD	□0	□ 1	□8
6j.	Dopamine transporter scan (DATscan) evidence for Lewy body disease	□∘	□1	□8
6k.	Other (SPECIFY):	□₀	□1	

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Imag	ging findings		No	Yes r	Unknown/ ot assessed
7a.	Large vessel infarct(s)		□ 0	□ 1	□8
7Ь.	Lacunar infarct(s)		□ o	□ 1	□8
7c.	Macrohemorrhage(s)		□ 0	□ 1	□8
7d.	Microhemorrhage(s)		□ o	□ 1	□8
7e.	Moderate white-matter hyperintensity (CHS score 5–6)		□∘	П	□8
7f.	Extensive white-matter hyperintensity (CHS score 7–8+)		□ o	□ 1	□8
_	loes the subject have a dominantly inherited AD mutation (PS □ 0 No □ 1 Yes □ 9 Unknown/not assessed	EN1, PSEN2	, APP)?		
_	loes the subject have a hereditary FTLD mutation (e.g., GRN,	VCP, TARBP,	FUS, C9orf7	2, CHMP2B	, MAPT)?
_	Does the subject have a hereditary mutation other than an AD	or FTLD muta	ition?		
_	O NO 1 Yes (SPECIFY):			9 Unknow	n/not asses
ON 1	3: Etiologic diagnoses				
n diag ment. Id be ubje c her ti	must be filled out for all subjects. Indicate presumptive etiology gnosis is a primary, contributing, or non-contributing cause of the selections of the selections of the selected as 1 = Primary. cts with normal cognition: Indicate the presence of any diagnosis he diagnosis was primary, contributing, or non-contributing blass of Alzheimer's disease, Lewy body disease, or frontotemporal	e observed im to Absent in th es by marking ik. Subjects w	pairment, bane NACC data Present, and ith positive bi	sed on the c base. Only or leave the qu omarkers bu	linician's be ne diagnosis estions on t no clinica
ment. Id be ubject her ti	gnosis is a primary, contributing, or non-contributing cause of ti . Select one or more diagnoses as Present; all others will default eselected as 1 = Primary. cts with normal cognition: Indicate the presence of any diagnos	e observed im to Absent in the es by marking ik. Subjects wo obar degenera	pairment, bane NACC data Present, and ith positive bition should n	sed on the c base. Only or leave the qu omarkers bu of have these	linician's be ne diagnosis estions on t no clinica e diagnoses al disease.
ment. Id be ubject her ti otoms ed as	gnosis is a primary, contributing, or non-contributing cause of till. Select one or more diagnoses as Present; all others will default eselected as 1= Primary. cts with normal cognition: Indicate the presence of any diagnoshe diagnosis was primary, contributing, or non-contributing blass of Alzheimer's disease, Lewy body disease, or frontotemporal	e observed im to Absent in the es by marking ik. Subjects wo obar degenera	pairment, bane NACC data Present, and ith positive bition should n	sed on the c base. Only or leave the qu omarkers bu of have these	linician's be ne diagnosis estions on t no clinica e diagnoses al disease.
ment. Id be subject her ti otoms sed as	gnosis is a primary, contributing, or non-contributing cause of the Select one or more diagnoses as Present; all others will default a selected as 1 = Primary. In the presence of any diagnosis with normal cognition: Indicate the presence of any diagnosis he diagnosis was primary, contributing, or non-contributing blass of Alzheimer's disease, Lewy body disease, or frontotemporal is present. Instead, the biomarker data from Section 2 can be under the present of the p	e observed im to Absent in the es by marking ak. Subjects we obar degenera sed to identify Present 1	Present, and ith positive bition should not the presence	sed on the consection of the c	linician's be ne diagnosis estions on t no clinica e diagnoses al disease.
nent. Id be ubject her ti stoms ed as Etiolo 11.	gnosis is a primary, contributing, or non-contributing cause of till. Select one or more diagnoses as Present; all others will default a selected as 1= Primary. Cts with normal cognition: Indicate the presence of any diagnosis he diagnosis was primary, contributing, or non-contributing blass of Alzheimer's disease, Lewy body disease, or frontotemporal is Present. Instead, the biomarker data from Section 2 can be used to diagnoses	e observed im to Absent in the es by marking ik. Subjects we obar degenerated to identify	Present, and ith positive bitton should in the presence	leave the que omarkers but of preclinical Contributing	inician's be ne diagnosis estions on t no clinica e diagnoses al disease.
n diag ment. Id be ubject her the stoms ed as Etiolo 11.	crossis is a primary, contributing, or non-contributing cause of the Select one or more diagnoses as Present; all others will default a selected as 1 = Primary. In the presence of any diagnose of the diagnosis was primary, contributing, or non-contributing blats of Alzheimer's disease, Lewy body disease, or frontotemporal is Present. Instead, the biomarker data from Section 2 can be used to be diagnoses. Alzheimer's disease. Lewy body disease.	e observed im to Absent in the es by marking ik. Subjects we obar degenera sed to identify Present 1	Present, and ith positive bition should not the presence	leave the quomarkers but thave these of preclinical Contributing	linician's beine diagnosis lestions on the no clinical ediagnoses al disease. Non-contribution
i diag ment. Id be ubject her ti stoms ed as Etiolo 11.	gnosis is a primary, contributing, or non-contributing cause of till. Select one or more diagnoses as Present; all others will default a selected as 1 = Primary. Cts with normal cognition: Indicate the presence of any diagnos the diagnosis was primary, contributing, or non-contributing blass of Alzheimer's disease, Lewy body disease, or frontotemporal is Present. Instead, the biomarker data from Section 2 can be used to be used to be disease. Alzheimer's disease Lewy body disease 12b. 1 Parkinson's disease	e observed Im to Absent in the es by marking ik. Subjects we obar degenera sed to identify Present 1 1	Present, and ith positive bition should not the presence	sed on the cobase. Only or leave the quomarkers but the formation of preclinical Contributing 2	linician's beine diagnosis estions on the no clinical diagnoses al disease. Non-contribution 3
n diag ment. Id be ubject her ti otoms ed as Etiolo 11. 12.	snosis is a primary, contributing, or non-contributing cause of till. Select one or more diagnoses as Present; all others will default is selected as 1 = Primary. In the diagnosis was primary, contributing, or non-contributing blass of Alzheimer's disease, Lewy body disease, or frontotemporal is Present. Instead, the biomarker data from Section 2 can be used to be diagnoses. Alzheimer's disease Lewy body disease Lewy body disease 12b. 1 Parkinson's disease Multiple system atrophy	e observed Im to Absent in the es by marking ik. Subjects we obar degenera sed to identify Present 1 1	Present, and ith positive bition should not the presence	sed on the cobase. Only or leave the quomarkers but the formation of preclinical Contributing 2	linician's beine diagnosis estions on the no clinical diagnoses al disease. Non-contribution 3
i diag ment. Id be ubject her ti stoms ed as Etiolo 11.	snosis is a primary, contributing, or non-contributing cause of till. Select one or more diagnoses as Present; all others will default a selected as 1 = Primary. In the diagnosis was primary, contributing, or non-contributing blass of Alzheimer's disease, Lewy body disease, or frontotemporal is Present. Instead, the biomarker data from Section 2 can be used to be diagnoses. Alzheimer's disease. Lewy body disease. Lewy body disease. Multiple system atrophy. Frontotemporal lobar degeneration.	e observed im to Absent in the es by marking ak. Subjects we obar degenera sed to identify Present 1 1 1	Present, and ith positive bition should in the presence Primary 11a 1 12a 1 13a 1	sed on the cobase. Only or leave the quomarkers but of have these of preclinical Contributing 2	Inician's beine diagnosis restions on the no clinical diagnoses all disease. Non-contributions 3 3 3
i diag ment. Id be ubject her ti stoms ed as Etiolo 11.	gnosis is a primary, contributing, or non-contributing cause of till. Select one or more diagnoses as Present; all others will default a selected as 1 = Primary. In the diagnosis was primary, contributing, or non-contributing blass of Alzheimer's disease, Lewy body disease, or frontotemporal is Present. Instead, the biomarker data from Section 2 can be used to be diagnoses. Alzheimer's disease Lewy body disease Lewy body disease 12b. 1 Parkinson's disease Multiple system atrophy Frontotemporal lobar degeneration 14a. Progressive supranuclear palsy (PSP)	e observed im to Absent in the es by marking ak. Subjects we obar degenerated to identify Present 1 1 1	Present, and ith positive bition should in the presence Primary 11a 1 12a 1 13a 1	sed on the cobase. Only or leave the quomarkers but of have these of preclinical Contributing 2 2	linician's beine diagnosis restions on it no clinicale diagnoses al disease. Non-contributio 3 3 3
n diag ment. Id be ubject her ti otoms ed as Etiolo 11. 12.	snosis is a primary, contributing, or non-contributing cause of the Select one or more diagnoses as Present; all others will default a selected as 1 = Primary. In the diagnosis was primary, contributing, or non-contributing blat is of Alzheimer's disease, Lewy body disease, or frontotemporal is Present. Instead, the biomarker data from Section 2 can be used to be diagnoses. Alzheimer's disease Lewy body disease Lewy body disease 12b. 1 Parkinson's disease Multiple system atrophy Frontotemporal lobar degeneration 14a. Progressive supranuclear palsy (PSP) 14b. Corticobasal degeneration (CBD)	e observed im to Absent in the es by marking ak. Subjects we obar degenera sed to identify Present 1 1 1 1 1	Present, and ith positive bition should in the presence Primary 11a 1 12a 1 13a 1 14a1 1 14b1 1	sed on the cobase. Only or leave the quomarkers but of have these of preclinical Contributing 2 2	Inician's beine diagnosis restions on the no clinical diagnoses al disease. Non-contribution 3 3 3 3 3
n diag ment. Id be ubject her ti otoms sed as Etiolo 11. 12.	gnosis is a primary, contributing, or non-contributing cause of the Select one or more diagnoses as Present; all others will default a selected as 1 = Primary. In the diagnosis was primary, contributing, or non-contributing blasts of Alzheimer's disease, Lewy body disease, or frontotemporal is Present. Instead, the biomarker data from Section 2 can be used to be diagnoses. Alzheimer's disease Lewy body disease Lewy body disease Lewy body disease Multiple system atrophy Frontotemporal lobar degeneration 14a. Progressive supranuclear palsy (PSP) 14b. Corticobasal degeneration (CBD) 14c. FTLD with motor neuron disease 14d. FTLD NOS 14e. If FTLD (Questions 14a – 14d) is Present, specify FTLD subtype:	e observed im to Absent in the es by marking ak. Subjects we obar degenerated to identify Present 1 1 1 1 1 1 1 1 1 1	Present, and ith positive bition should in the presence Primary 11a 1 12a 1 14a1 1 14b1 1 14c1 1	sed on the cibase. Only or leave the quiomarkers but of have these of preclinical Contributing 2 2 2 2 2 2 2 2	inician's beine diagnosis restions on it no clinicale diagnoses al disease. Non-contributi
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SECTION 3: Etiologic diagnoses (cont.)

Section 3 must be filled out for all subjects. Indicate presumptive etiologic diagnoses of the cognitive disorder and whether a given diagnosis is a primary, contributing, or non-contributing cause of the observed impairment, based on the clinician's best judgment. Select one or more diagnoses as Present; all others will default to Absent in the NACC database. Only one diagnosis should be selected as 1=Primary.

For subjects 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. Subjects 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.

Etiol	ogic diag	gnoses	Present	Primary	Contributing	Non- contributing
15.	eviden	ificant vascular brain injury is absent, SKIP TO		□ 2	З	
	15c.	Previous symptomatic stroke? O No (SKIP TO QUESTION 15c) 1 Yes 15b1. Temporal relationship between stroke and cognitive decline? O No 1 Yes 15b2. Confirmation of stroke by neuroimaging? O No 1 Yes 9 Unknown; no relevant imaging data available Is there imaging evidence of cystic infarction in cognitive network(s)? O No 1 Yes 9 Unknown; no relevant imaging data available Is there imaging evidence of cystic infarction, imaging evidence of extensive white matter hyperintensity (CHS grade 7–8+), and impairment in executive function? O No 1 Yes 9 Unknown; no relevant imaging data available				
16.	Essent	tial tremor	П	16a 🗌 1	□2	Пз
17.	Down	syndrome	□1	17a 🗆 1	□2	□з
18.	Huntir	ngton's disease	□1	18a 🗌 1	□2	Пз
19.	Prion	disease (CJD, other)	□1	19a 🗆 1	□2	Пз

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Etiolo	ogic diagnoses	Present	Primary	Contributing	Non- contributing
20.	Traumatic brain injury 20b. If Present, does the subject have symptoms consistent with chronic traumatic encephalopathy? □ 0 No □ 1 Yes □ 9 Unknown	□1	20a 🗌 1	□2	Пз
21.	Normal-pressure hydrocephalus	□1	21a 🗌 1	□2	□з
22.	Epilepsy	□1	22a 🗆 1	□2	Пз
23.	CNS neoplasm 23b. □1 Benign □2 Malignant	П	23a 🗆 1	□2	Пз
24.	Human immunodeficiency virus (HIV)	□1	24a 🗌 1	□2	Пз
25.	Cognitive impairment due to other neurologic, genetic, or infectious conditions not listed above 25 b. If Present, specify:	□1	25a 🗆 1	□2	□3

Section 3 must be filled out for all subjects. Indicate presumptive etiologic diagnoses of the cognitive disorder and whether a given diagnosis is a primary, contributing, or non-contributing cause of the observed impairment, based on the clinician's best judgment. Select one or more diagnoses as Present; all others will default to Absent in the NACC database. Only one diagnosis should be selected as 1= Primary.

For subjects 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. Subjects 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.

Cond	lition	Present	Primary	Contributing	Non- contributing
26.	Active depression 26b. If Present, select one: 0 Untreated 1 Treated with medication and/or counseling	□1	26a 🗌 1	□2	Пз
27.	Bipolar disorder	□1	27a 🗆 1	□2	Пз
28.	Schizophrenia or other psychosis	□1	28a 🗌 1	□2	Пз
29.	Anxiety disorder	□1	29a 🗆 1	□2	□з
30.	Delirium	□1	30a 🗌 1	□2	□3
31.	Post-traumatic stress disorder (PTSD)	□1	31a 🗌 1	□2	Пз
32.	Other psychiatric disease 32b. If Present, specify:	П	32a 🔲 1	□2	Пз

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Form D2: Clinician-assessed Medical Conditions

When to answer No: When the clinician has sufficient evidence to conclude that the subject does not have the condition. Example 1: If the subject is not currently taking hypertension medications, does not report having hypertension, and did not have high blood pressure at his/her UDS visit, select o=No for hypertension. Example 2: If the subject and/or co-participant reports that the subject has hypercholesterolemia and is not taking cholesterol lowing drugs, but the subject's cholesterol levels were examined recently and were normal, the clinician may decide to select o=No for hypercholesterolemia.

When to answer Yes: When the clinician believes there is sufficient evidence to conclude that the subject currently has the condition (even if present but successfully treated), or — for specific conditions or procedures — that the subject has experienced it in the last 12 months. For some conditions, subject and co-participant report may be sufficient to warrant concluding that a condition is present, based on the clinician's best judgment.

When to answer Not assessed: If the only information for assessing the presence of these conditions is self-report by the subject or the co-participant, and the clinician believes the self-reported information is not sufficient enough to warrant concluding that a condition is present, mark **8=Not assessed** or **9=Not assessed or unknown**.

Definition of "Active" condition: Unless otherwise indicated, active means the subject is currently experiencing and/or being treated for the condition at this visit (e.g., within the last two weeks).

Medical conditions and procedures
The following questions should be answered based on review of all available information, including new diagnoses made during the current visit, previous medical records, procedures, laboratory tests, and the clinical exam.
1. Cancer (excluding non-melanoma skin cancer), primary or metastatic
O No (SKIP TO QUESTION 2)
☐ 1 Yes, primary/non-metastatic
☐ 2 Yes, metastatic
8 Not assessed (SKIP TO QUESTION 2)
1a. If yes, specify primary site:
1=Yes, primary/non-metastatic or 2=Yes, metastatic and specify the primary site where the cancer started in Question 1a. If results are pending to determine whether the cancer is metastatic, select 1=Yes, primary/non-metastatic and revise to 2=Yes, metastatic at a later date if it is found to be metastatic around the time of this UDS visit.
If any of the conditions below are present (even if successfully treated), please check Yes.
2. Diabetes 0 No 1 Yes, Type I 2 Yes, Type II 3 Yes, other type (diabetes insipidus, latent autoimmune diabetes/type 1.5, gestational diabetes) 9 Not assessed or unknown
Select 1=Yes , Type I ; 2=Yes , Type II ; or 3=Yes , other type if the clinician has sufficient evidence of active diabetes, even if successfully treated. See instructions at top of page 111 to determine when to select o=No or 9=Not assessed or unknown .

	No	Yes	Not assessed	
3. Myocardial infarct	О		□8	
Select 1=Yes if the clinician has sufficient evidence of a myocardial infarct <u>within the past 12 months</u> . See instructions at top of page 111 to determine when to select o=No or 8=Not assessed .				
4. Congestive heart failure	О		□8	
Select 1=Yes if the clinician has sufficient evidence of active congestive heart failure. See instr 111 to determine when to select o=No or 8=Not assessed .	ructions a	it top of p	oage	
5. Atrial fibrillation	О		□8	
Select 1=Yes if the clinician has sufficient evidence of active atrial fibrillation, even if successfully treated. See instructions at top of page 111 to determine when to select o=No or 8=Not assessed .				
6. Hypertension	О	□ 1	□8	
Select 1=Yes if the clinician has sufficient evidence of active hypertension, even if successfully treated. See instructions at top of page 111 to determine when to select 0=No or 8=Not assessed .				
7. Angina	По		□8	
Select 1=Yes if the clinician has sufficient evidence of active angina, even if successfully treated. See instructions at top of page 111 to determine when to select o=No or 8=Not assessed .				
8. Hypercholesterolemia	О		□8	
Select 1=Yes if the clinician has sufficient evidence of active hypercholesterolemia, even if successfully treated. See instructions at top of page 111 to determine when to select 0=No or 8=Not assessed .				
9. B12 deficiency	□o		□8	
Select 1=Yes if the clinician has sufficient evidence of active B12 deficiency, even if successfully treated. See instructions at top of page 111 to determine when to select o=No or 8=Not assessed .				
10. Thyroid disease	О		□8	
Select 1=Yes if the clinician has sufficient evidence of active thyroid disease, even if successfully treated. See instructions at top of page 111 to determine when to select o=No or 8=Not assessed .				

If any of the conditions below are present (even if successfully treated), please check Yes.					
	No	Yes	Not assessed		
11. Arthritis If No or Not assessed, SKIP TO QUESTION 12	О		□8		
Select 1=Yes if the clinician has sufficient evidence of active arthritis, even if successfully treatop of page 111 to determine when to select o=No or 8=Not assessed .	ted. See i	instructio	ons at		
11a. If yes, what type? 1 Rheumatoid 2 Osteoarthritis 3 Other (SPECIFY): 9 Unknown If the subject has both rheumatoid arthritis and osteoarthritis, select 1=Rheumatoid. See instructions at top of page 111 to determine when to select o=No or 9=Unknown.					
11b. If yes, regions affected (check all that apply): 11b1. 1 Upper extremity 11b2. 1 Lower extremity 11b3. 1 Spine 11b4. 1 Unknown Indicate all regions that are affected by arthritis.					
12. Incontinence — urinary	О		□ 8		
Select 1=Yes if the clinician has sufficient evidence of active urinary incontinence, even if successfully treated. See instructions at top of page 111 to determine when to select o=No or 8=Not assessed .					
13. Incontinence — bowel	О		□8		
Select 1=Yes if the clinician has sufficient evidence of active bowel incontinence, even if successfully treated. See instructions at top of page 111 to determine when to select o=No or 8=Not assessed .					
14. Sleep apnea	О		□8		
Select 1=Yes if the clinician has sufficient evidence of sleep apnea, even if successfully treated. See instructions at top of page 111 to determine when to select o=No or 8=Not assessed .					

15. REM sleep behavior disorder (RBD)	О	□ 1	□8	
Select 1=Yes if the clinician has sufficient evidence of REM sleep behavior disorder, even if successfully treated. See instructions at top of page 111 to determine when to select o=No or 8=Not assessed .				
16. Hyposomnia/insomnia	□ o		□8	
Select 1=Yes if the clinician has sufficient evidence hyposomnia/insomnia, even if successfull instructions at top of page 111 to determine when to select o=No or 8=Not assessed .	Select 1=Yes if the clinician has sufficient evidence hyposomnia/insomnia, even if successfully treated. See instructions at top of page 111 to determine when to select o=No or 8=Not assessed .			
17. Other sleep disorder (SPECIFY):	По		□8	
Select 1=Yes if the clinician has sufficient evidence of an active sleep disorder not already listed in Questions 14–16, even if that sleep disorder is successfully treated. Write the sleep disorder in the space provided. See instructions at top of page 111 to determine when to select o=No or 8=Not assessed .				
18. Carotid procedure: angioplasty, endarterectomy, or stent	О		□8	
Select 1=Yes if the clinician has sufficient evidence of carotid procedure — angioplasty, endarterectomy, or stent, within the past 12 months. See instructions at top of page 111 to determine when to select o=No or 8=Not assessed .				
19. Percutaneous coronary intervention: angioplasty and/or stent	О		8	
Select 1=Yes if the clinician has sufficient evidence of percutaneous coronary intervention — angioplasty and/or stent — <u>within the past 12 months</u> . See instructions at top of page 111 to determine when to select o=No or 8=Not assessed .				
20. Procedure: pacemaker and/or defibrillator	□ ₀		□8	
Select 1=Yes if the clinician has sufficient evidence of a pacemaker implant <u>within the past 12 months</u> . See instructions at top of page 111 to determine when to select o=No or 8=Not assessed .				
21. Procedure: heart valve replacement or repair	О		□8	
Select 1=Yes if the clinician has sufficient evidence of a heart valve replacement or repair surgery <u>within the past 12 months</u> . See instructions at top of page 111 to determine when to select o=No or 8=Not assessed .				
22. Antibody-mediated encephalopathy 22a. Specify antibody:	О	□ 1	□8	
Select 1=Yes if the clinician has sufficient evidence of antibody-mediated encephalopathy <u>within the past 12</u> <u>months</u> . See instructions at top of page 111 to determine when to select o=No or 8=Not assessed .				

23.	Other medical conditions or procedures not listed above (IF YES, SPECIFY):	О		
Select 1=Yes if the clinician has sufficient evidence of another major medical condition that is active or a major surgical procedure that occurred in the past 12 months. See instructions at top of page 111 to determine when to select o=No .				



TELEPHONE FOLLOW-UP PACKET NACC UNIFORM DATA SET (UDS)

Form D2: Clinician-assessed Medical Conditions

ADC no	me: Subject ID: Form date:	/_	_/_		
Visit #:	Examiner's initials:				
	RUCTIONS: This form is to be completed by a physician, physician's assistant, nurse practition tioner. For additional clarifications and examples, see UDS Coding Guidebook for Telephone Fo				
Med	lical conditions and procedures				
	e following questions should be answered based on review of all available information, including the current visit, previous medical records, procedures, laboratory tests, and the clinical e		iagnoses	made	
Cancer (excluding non-melanoma skin cancer), primary or metastatic					
	O No (SKIP TO QUESTION 2)				
	1 Yes, primary/non-metastatic				
	2 Yes, metastatic				
	8 Not assessed (SKIP TO QUESTION 2)				
	1a. If yes, specify primary site:				
If an	y of the conditions below are present (even if successfully treated), please check Yes.				
2.	2. Diabetes 0 No				
	☐ 1 Yes, Type I				
	2 Yes, Type II				
	 ☐ 3 Yes, other type (diabetes insipidus, latent autoimmune diabetes/type 1.5, gestational diabetes) ☐ 9 Not assessed or unknown 				
	9 Not assessed or unknown				
-		No	Yes	assessed	
3.	Myocardial infarct	o	□ 1	□8	
4.	Congestive heart failure	□o		□8	
5.	Atrial fibrillation	□0	□1	□8	
6.	Hypertension	□0		□8	
7.	Angina	□∘	□1	□8	
8.	Hypercholesterolemia	П°	□1	□8	
9.	B12 deficiency	По	□1	□8	
10.	Thyroid disease	□ o	□1	□8	

Subject ID:

Form date: ____/___/_____

Visit #:

If an	y of the conditions below are present (even if successfully treated), please check	Yes.		
		No	Yes	Not assessed
11.	Arthritis If No or Not assessed, SKIP TO QUESTION 12	□∘	П	□s
	11a. If yes, what type?			
	2 Osteoarthritis			
	3 Other (SPECIFY):			
	□9 Unknown			
	11b. If yes, regions affected (check at least one):			
	11b1. 1 Upper extremity			
	11b2. 1 Lower extremity			
	11b3. 🗆 1 Spine			
	11b4. 🗆 1 Unknown			
12.	Incontinence — urinary	□∘	П	□8
13.	Incontinence — bowel	□∘	П	□8
14.	Sleep apnea	□∘	\Box_1	□8
15.	REM sleep behavior disorder (RBD)	По		□8
16.	Hyposomnia/insomnia	По	\Box_1	□8
17.	Other sleep disorder (SPECIFY):		Пі	□в
18.	Carotid procedure: angioplasty, endarterectomy, or stent	По	\Box ı	□8
19.	Percutaneous coronary intervention: angioplasty and/or stent	По		□8
20.	Procedure: pacemaker and/or defibrillator	По	\square_1	□8
21.	Procedure: heart valve replacement or repair	□∘	□ı	□8
22.	State of the control			□в
	22a. Specify antibody:		7	27-150
23.	Other medical conditions or procedures not listed above	□₀	□i	
	(IF YES, SPECIFY):		P1	

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