DOWN SYNDROME MODULE
Data Element Dictionary
For Follow-up Visit Packet

UDS Version 3.0, March 2015
DS Module Version 1.0, August 2022

Form Header

Q #	Data element name	Ver	Description	Data type	Allowable codes	Comment
0a	**PACKET_DS**	1.0	Packet code	Char	FDS = Follow-up Visit Packet, DS Module	
0b	**FORMVER_DS**	1.0	Form version	Num	1	
0c	**ADCID**	1.0	Center ID	Num	2 – 68; use appropriate code below: 2 = Boston University 4 = Columbia University 6 = Emory University 7 = Massachusetts ADRC 8 = Indiana University 9 = Johns Hopkins University 10 = Mayo Clinic 11 = Mount Sinai 12 = New York University 13 = Northwestern University 14 = Oregon Health & Science University 15 = Rush University 16 = University of California, Davis 18 = University of California, San Diego 19 = University of Kentucky 21 = University of Pennsylvania 22 = University of Pittsburgh 26 = University of Washington 27 = Washington University in St. Louis	30 = University of Southern California 31 = University of California, Irvine 32 = Stanford University 33 = Arizona ADC 34 = University of Arkansas 35 = University of California, San Francisco 37 = University of Wisconsin 38 = University of Kansas 39 = Stanford University #2 40 = Yale University 41 = 1Florida ADRC 42 = Wake Forest University 43 = University of Michigan ADC 46 = Cleveland Clinic, Las Vegas 47 = Vanderbilt University 48 = University of New Mexico 49 = Duke/UNC ADRC 65 = Cleveland ADRC 67 = South Texas ADRC 68 = U Alabama at Birmingham Note: In research data sets generated by NACC, the variable NACCADCID is replaced by a randomly generated NACCADC.

Q #	Data element name	Ver	Description	Data type	Allowable codes	Comment
0d	**PTID**	1.0	ADRC participant ID	Char	Follow your Center's Patient ID scheme; use same ID as in MDS, if subject is enrolled in MDS.	Number must be unique within data from your Center and be used across all visits for the subject. **NOTE: PTID is replaced by a randomly generated NACCID in research data sets generated by NACC.**
0e	**VISITDATE**	1.0	Form date	Num	Month: 1–12 Day: 1–31 Year: 2020 to the current year	Visit date cannot precede January 1, 2020. Use the date that the UDS visit was started (i.e., first form date) for **VISITDATE**. If unsure, use the UDS Form A1 (Participant demographics) form date
0f	**VISITNUM**	1.0	Visit number	Num	Can be determined by the Center.	The Center can use its existing visit number scheme if desired. It is **NOT** required to start with 1.

Form A1D: Participant Health History

Q	Data element name	Ver	Description	Data type	Allowable codes	Blanks, Skips, and Comments
0a	**FRMDATE_A1D**	1.0	Form Date	Num	mm/dd/yyy Month: 1–12 Day: 1–31 Year: 2020 to the current year	Form date cannot precede January 1, 2020.
0b	**INITIALS_A1D**	1.0	Examiner's initials	Char	text	NOTE: **INITIALS** is never released in research data sets generated by NACC.
1a	**DSDAYPRG**	1.0	Participant's weekday activities: Day Program	Num	0 = No 1 = Yes 9 = Unknown	
1b	**DSWRKSHP**	1.0	Participant's weekday activities: Workshops	Num	0 = No 1 = Yes 9 = Unknown	
1c	**DSHOME**	1.0	Participant's weekday activities: Stays at home	Num	0 = No 1 = Yes 9 = Unknown	
1d	**DSJOB**	1.0	Participant's weekday activities: Community paid job	Num	0 = No 1 = Yes 9 = Unknown	
1e	**DSOTHAC**	1.0	Participant's weekday activities: Other	Num	0 = No 1 = Yes 9 = Unknown	
1e1	**DSOTHACX**	1.0	Other weekday activity: Specify	Char	text	Blank if Question 1e **DSOTHAC** ≠ 1 (Participant's weekday activities: Other)
2	**DSMOMAGE**	1.0	Age of participant's mother at participant's birth	Num	10 – 60 777 = provided at previous visit 999 = unknown	
3	**DSCHDASD**	1.0	Congenital heart disease – atrial septal defect	Num	0 = Absent 1 = Present – resolved 2 = Present – repaired 3 = Present – unrepaired 9 = Unknown	

Q	Data element name	Ver	Description	Data type	Allowable codes	Blanks, Skips, and Comments
4	**DSCHDVSD**	1.0	Congenital heart disease – ventricular septal defect	Num	0 = Absent 1 = Present – resolved 2 = Present – repaired 3 = Present – unrepaired 9 = Unknown	
5	**DSCHDACD**	1.0	Congenital heart disease – atrioventricular (AV) canal defect	Num	0 = Absent 1 = Present – resolved 2 = Present – repaired 3 = Present – unrepaired 9 = Unknown	
6	**DSCHDTOF**	1.0	Congenital heart disease – tetralogy of Fallot	Num	0 = Absent 1 = Present – resolved 2 = Present – repaired 3 = Present – unrepaired 9 = Unknown	
7	**DSCHDOTH**	1.0	Congenital heart disease – Other	Num	0 = Absent 1 = Present – resolved 2 = Present – repaired 3 = Present – unrepaired 9 = Unknown	
7a	**DSCHDOTX**	1.0	Other congenital heart disease: Specify	Char	text	Blank if Question 7 **DSCHDOTH** = 0 (Congenital heart disease – Other: Absent) Blank if Question 7 **DSCHDOTH** = 9 (Congenital heart disease – Other: Unknown)
8	**DSHYPOTN**	1.0	Cardiovascular disease – hypotension	Num	0 = Absent 1 = Recent/active 2 = Remote/inactive 9 = Unknown	
9	**DSSYNC**	1.0	Cardiovascular disease – syncope	Num	0 = Absent 1 = Recent/active 2 = Remote/inactive 9 = Unknown	
10	**DSPNEUM**	1.0	Pulmonary disease – pneumonia/ aspiration	Num	0 = Absent 1 = Recent/active 2 = Remote/inactive 9 = Unknown	

Q	Data element name	Ver	Description	Data type	Allowable codes	Blanks, Skips, and Comments
11	**DSHEPAT**	1.0	Hepatic conditions	Num	1 = Hepatitis B carrier 2 = Hepatitis B infected 3 = Hepatitis B immune 4 = Had hepatitis B vaccine 9 = Unknown	
12	**DSROSAC**	1.0	Dermatologic conditions – rosacea	Num	0 = Absent 1 = Recent/active 2 = Remote/inactive 9 = Unknown	
13	**DSALOP**	1.0	Dermatologic conditions – alopecia	Num	0 = Absent 1 = Recent/active 2 = Remote/inactive 9 = Unknown	
14	**DSPSOR**	1.0	Dermatologic conditions – psoriasis	Num	0 = Absent 1 = Recent/active 2 = Remote/inactive 9 = Unknown	
15	**DSOSTEO**	1.0	Musculoskeletal conditions – osteoporosis/osteopenia	Num	0 = Absent 1 = Recent/active 2 = Remote/inactive 9 = Unknown	
16	**DSGOUT**	1.0	Musculoskeletal conditions – gout	Num	0 = Absent 1 = Recent/active 2 = Remote/inactive 9 = Unknown	
17	**DSATAXSU**	1.0	Musculoskeletal conditions – atlanto-axial subluxation	Num	0 = Absent 1 = Present 9 = Unknown	
18	**DSFRACT**	1.0	Musculoskeletal conditions – fractures in the past five years	Num	0 = No 1 = Yes 9 = Unknown	
18a	**DSFRACTX**	1.0	Fractures in the past five years: Specify	Char	text	Blank if Question 18 **DSFRACT** ≠1 (Fractures in the past five years)
19	**DSHYPOTH**	1.0	Endocrine/metabolic conditions – hypothyroidism	Num	0 = Absent 1 = Recent/active 2 = Remote/inactive 9 = Unknown	

Q	Data element name	Ver	Description	Data type	Allowable codes	Blanks, Skips, and Comments
20	**DSHASHIM**	1.0	Endocrine/metabolic conditions – Hashimoto's thyroiditis	Num	0 = Absent 1 = Recent/active 2 = Remote/inactive 9 = Unknown	
21	**DSHYPER**	1.0	Endocrine/metabolic conditions – hyperthyroidism	Num	0 = Absent 1 = Recent/active 2 = Remote/inactive 9 = Unknown	
22	**DSTHYMED**	1.0	Endocrine/metabolic conditions – currently on thyroid replacement medication	Num	0 = No 1 = Yes 9 = Unknown	
22a	**DSTHYMEX**	1.0	Thyroid replacement medication: Specify	Char	text	Blank if Question 22 **DSTHYMED** ≠1 (Currently on thyroid replacement medication)
23	**DSVDDEF**	1.0	Endocrine/metabolic conditions – vitamin D deficiency	Num	0 = Absent 1 = Recent/active 2 = Remote/inactive 9 = Unknown	
24	**DSMENSTR**	1.0	Menstrual history – has the participant ever menstruated?	Num	0 = No 1 = Yes, active 2 = Yes, menopausal 9 = Unknown/not applicable	
25	**DSMNSAGE**	1.0	Menstrual history – age of onset of menses	Num	8 – 20 777 = provided at previous visit 888 = Not applicable 999 = Unknown	
26	**DSMNPAGE**	1.0	Menstrual history – age of onsent of menopause	Num	20 – 65 777 = provided at previous visit 888 = not applicable 999 = unknown	
27	**DSHRT**	1.0	Hormone replacement therapy – has the participant received HRT?	Num	0 = No 1 = Yes 9 = Unknown	
28	**DSAGEHRT**	1.0	Hormone replacement therapy – at what age did HRT begin?	Num	0 – 110 777 = provided at previous visit 888 = not applicable 999 = unknown	

Q	Data element name	Ver	Description	Data type	Allowable codes	Blanks, Skips, and Comments
29	**DSYRSHRT**	1.0	Hormone replacement therapy – how many years has the participant been on HRT?	Num	1 = 1–3 years 2 = 4–6 years 3 = >6 years 9 = Unknown/not applicable	
30	**DSCELIAC**	1.0	Gastrointestinal conditions – celiac disease	Num	0 = Absent 1 = Recent/active 2 = Remote/inactive 9 = Unknown	
31	**DSANIRON**	1.0	Hematopoietic/lymphatic disease – anemia with iron deficiency	Num	0 = Absent 1 = Recent/active 2 = Remote/inactive 9 = Unknown	
32	**DSANFOL**	1.0	Hematopoietic/lymphatic disease – anemia with folate deficiency	Num	0 = Absent 1 = Recent/active 2 = Remote/inactive 9 = Unknown	
33	**DSLUPUS**	1.0	Autoimmune conditions – lupus	Num	0 = Absent 1 = Recent/active 2 = Remote/inactive 9 = Unknown	
34	**DSNTRPN**	1.0	Autoimmune conditions – chronic neutropenia	Num	0 = Absent 1 = Recent/active 2 = Remote/inactive 9 = Unknown	
35	**DSTUMOR**	1.0	Cancer – solid tumor	Num	0 = No 1 = Yes 9 = Unknown	
35a	**DSTUMORX**	1.0	Solid tumor: Specify primary site	Char	text	Blank if Question 35 **DSTUMOR** ≠1 (Cancer – solid tumor)
36	**DSLEUKEM**	1.0	Cancer – leukemia	Num	0 = No 1 = Yes, childhood transient myeloproliferative disorder 2 = Yes, childhood leukemia 3 = Yes, adult onset leukemia 9 = Unknown	

Q	Data element name	Ver	Description	Data type	Allowable codes	Blanks, Skips, and Comments
37	**DSHRTRPR**	1.0	Major surgical procedures – congenital heart-defect repair	Num	0 = No 1 = Yes 9 = Unknown	
37.1	**DSHRTRPX**	1.0	Congenital heart-defect repair: Specify	Char	text	Blank if Question 37 **DSHRTRPR** ≠ 1 (Congenital heart-defect repair)
37a	**DSHRTRYR**	1.0	Year of most recent congenital heart-defect repair	Num	1900 to current year 777 = provided at previous visit 9999 = Unknown	
38	**DSCRDSRG**	1.0	Major surgical procedures – adult cardiac surgery	Num	0 = No 1 = Yes 9 = Unknown	
38.1	**DSCRDSRX**	1.0	Adult cardiac surgery: Specify	Char	text	Blank if Question 38 **DSCRDSRG** ≠1 (Adult cardiac surgery)
38a	**DSCRDSYR**	1.0	Year of most recent adult cardiac surgery	Num	1900 to current year 777 = provided at previous visit 9999 = Unknown	
39	**DSSPIN**	1.0	Major surgical procedures – spinal surgery	Num	0 = No 1 = Yes 9 = Unknown	
39.1	**DSSPINX**	1.0	Spinal surgery: Specify	Char	text	Blank if Question 39 **DSSPIN** ≠1 (Spinal surgery)
39a	**DSSPINYR**	1.0	Year of most recent spinal surgery	Num	1900 to current year 777 = provided at previous visit 9999 = Unknown	
40	**DSLWORTH**	1.0	Major surgical procedures – lower-extremity orthopedic surgery	Num	0 = No 1 = Yes 9 = Unknown	
40.1	**DSLWORTX**	1.0	Lower-extremity orthopedic surgery: Specify	Char	text	Blank if Question 40 **DSLWORTH** ≠1 (Lower–extremity orthopedic surgery)
40a	**DSLWORYR**	1.0	Year of most recent lower-extremity orthopedic surgery	Num	1900 to current year 777 = provided at previous visit 9999 = Unknown	
41	**DSUPORTH**	1.0	Major surgical procedure – upper-extremity orthopedic surgery	Num	0 = No 1 = Yes 9 = Unknown	

Q	Data element name	Ver	Description	Data type	Allowable codes	Blanks, Skips, and Comments
41.1	**DSUPORTX**	1.0	Upper-extremity orthopedic surgery: Specify	Char	text	Blank if Question 41 **DSUPORTH** ≠1 (Upper–extremity orthopedic surgery)
41a	**DSUPORYR**	1.0	Year of most recent upper-extremity orthopedic surgery	Num	1900 to current year 777 = provided at previous visit 9999 = Unknown	
42	**DSTHYSRG**	1.0	Major surgical procedures – thyroid surgery	Num	0 = No 1 = Yes 9 = Unknown	
42.1	**DSTHYSRX**	1.0	Thyroid surgery: Specify	Char	text	Blank if Question 42 **DSTHYSRG** ≠1 (Thyroid surgery)
42a	**DSTHYSYR**	1.0	Year of most recent thyroid surgery	Num	1900 to current year 777 = provided at previous visit 9999 = Unknown	
43	**DSONCSRG**	1.0	Major surgical procedures – oncology surgery	Num	0 = No 1 = Yes 9 = Unknown	
43.1	**DSONCSRX**	1.0	Oncology surgery: Specify	Char	text	Blank if Question 43 **DSONCSRG** ≠ 1 (Oncology surgery)
43a	**DSONCSYR**	1.0	Year of most recent oncology surgery	Num	1900 to current year 777 = provided at previous visit 9999 = Unknown	
44	**DSOTHSRG**	1.0	Major surgical procedures – other surgery	Num	0 = No 1 = Yes 9 = Unknown	
44.1	**DSOTHSRX**	1.0	Other surgery: Specify	Char	text	Blank if Question 44 **DSOTHSRG** ≠ 1 (Other surgery)
44a	**DSOTHSYR**	1.0	Year of most recent other surgery	Num	1900 to current year 777 = provided at previous visit 9999 = Unknown	

Form B1D: NTG – Early Detection Screen for Dementia

Q	Data element name	Ver	Description	Data type	Allowable codes	Blanks, Skips, and Comments
0a	**FRMDATE_B1D**	1.0	Form Date	Num	mm/dd/yyy Month: 1–12 Day: 1–31 Year: 2020 to the current year	Form date cannot precede January 1, 2020.
0b	**INITIALS_B1D**	1.0	Examiner's initials	Char	text	NOTE: **INITIALS** is never released in research data sets generated by NACC.
0c	**DSLIV**	1.0	Current living arrangement of person	Num	1 = Lives alone 2 = Lives with spouse or friends 3 = Lives with parents or other family members 4 = Lives with paid caregiver 5 = Lives in community group home, apartment, supervised housing, etc. 6 = Lives in senior housing 7 = Lives in congregate residential setting 8 = Lives in long term care facility 9 = Lives in other	
0c1	**DSLIVX**	1.0	Other living arrangement: Specify	Char	text	Blank if Question 0 **DSLIV** ≠ 9 (Lives in other)
7	**DSSEX**	1.0	Sex	Num	0 = Female 1 = Male	
8	**DSDISLEV**	1.0	Best Description of intellectual disability	Num	1 = No discernible intellectual disability 2 = Borderline (IQ 70 - 75) 3 = Mild ID (IQ 55 - 69) 4 = Moderate ID (IQ 40 - 54) 5 = Severe ID (IQ 25 - 39) 6 = Profound ID (IQ 24 and below) 9 = Unknown	
9a	**DSDX_AUT**	1.0	Diagnosed condition: Autism	Num	0 = Blank 1 = Yes	
9b	**DSDX_CP**	1.0	Diagnosed condition: Cerebral palsy	Num	0 = Blank 1 = Yes	
9c	**DSDX_DS**	1.0	Diagnosed condition: Down syndrome	Num	0 = Blank 1 = Yes	

Q	Data element name	Ver	Description	Data type	Allowable codes	Blanks, Skips, and Comments
9d	**DSDX_FRX**	1.0	Diagnosed condition: Fragile X syndrome	Num	0 = Blank 1 = Yes	
9e	**DSDX_ID**	1.0	Diagnosed condition: Intellectual disability	Num	0 = Blank 1 = Yes	
9f	**DSDX_PW**	1.0	Diagnosed condition: Prader–Willi syndrome	Num	0 = Blank 1 = Yes	
9g	**DSDX_OTH**	1.0	Diagnosed condition: other	Num	0 = Blank 1 = Yes	
9g1	**DSDXOTHX**	1.0	Other diagnosed condition: Specify	Char	text	Blank if Question 9g **DSDX_OTH** ≠ 1 (Diagnosed condition: other)
10	**DSPHYS**	1.0	General characterization of current physical health	Num	0 = Poor 1 = Fair 2 = Good 3 = Very good 4 = Excellent	
11	**DSPHYSYR**	1.0	Compared to one year ago current physical health is	Num	0 = Much worse 1 = Somewhat worse 2 = About the same 3 = Somewhat better 4 = Much better	
12	**DSMENTAL**	1.0	Compared to one year ago current mental health is	Num	0 = Much worse 1 = Somewhat worse 2 = About the same 3 = Somewhat better 4 = Much better	
13a	**DSCN_VIM**	1.0	Condition present: Vision impairment	Num	0 = Blank 1 = Yes	
13b	**DSCN_BLD**	1.0	Condition present: Blind (very limited or no vision)	Num	0 = Blank 1 = Yes	
13c	**DSCN_GLS**	1.0	Condition present: Vision corrected by glasses	Num	0 = Blank 1 = Yes	
13d	**DSCN_HIM**	1.0	Condition present: Hearing impairment	Num	0 = Blank 1 = Yes	
13e	**DSCN_DF**	1.0	Condition present: Deaf (very limited or no hearing)	Num	0 = Blank 1 = Yes	

Q	Data element name	Ver	Description	Data type	Allowable codes	Blanks, Skips, and Comments
13f	**DSCN_HAD**	1.0	Condition present: Hearing corrected by hearing aids	Num	0 = Blank 1 = Yes	
13g	**DSCN_MIM**	1.0	Condition present: Mobility impairment	Num	0 = Blank 1 = Yes	
13h	**DSCN_UW**	1.0	Condition present: Not mobile – uses wheelchair	Num	0 = Blank 1 = Yes	
13i	**DSCN_MIW**	1.0	Condition present: Not mobile – is moved about in wheelchair	Num	0 = Blank 1 = Yes	
14a	**DSLE_CD**	1.0	Significant life event: Death of someone close	Num	0 = Blank 1 = Yes	
14b	**DSLE_CHL**	1.0	Significant life event: Changes in living arrangement, work, or day program	Num	0 = Blank 1 = Yes	
14c	**DSLE_CHS**	1.0	Significant life event: Changes in staff close to the person	Num	0 = Blank 1 = Yes	
14d	**DSLE_NRM**	1.0	Significant life event: New roommate/housemates	Num	0 = Blank 1 = Yes	
14e	**DSLE_ILL**	1.0	Significant life event: Illness or impairment due to accident	Num	0 = Blank 1 = Yes	
14f	**DSLE_SEM**	1.0	Significant life event: Adverse reaction to medication or over-medication	Num	0 = Blank 1 = Yes	
14g	**DSLE_SEI**	1.0	Significant life event: Interpersonal conflicts	Num	0 = Blank 1 = Yes	
14h	**DSLE_SEV**	1.0	Significant life event: Victimization/abuse	Num	0 = Blank 1 = Yes	
14i	**DSLE_OTH**	1.0	Significant life event: Other	Num	0 = Blank 1 = Yes	
14i1	**DSLEOTHX**	1.0	Significant recent life event: Specify	Char	Text	Blank if Question 14i **DSLE_OTH** ≠ 1 (Significant life event: other)
15	**DSSEIZ**	1.0	Seizures	Num	0 = No history of seizures 1 = Seizures in childhood, not occurring in adulthood 2 = Long term occurrence of seizures 3 = Recent onset seizures	

Q	Data element name	Ver	Description	Data type	Allowable codes	Blanks, Skips, and Comments
16a	**DSDXHS_NO**	1.0	Diagnostic history: No diagnosis of MCI or dementia	Num	0 = Blank 1 = Yes	If Question 16a **DSDXHS_NO** = 1 (No diagnosis of MCI or dementia), then skip to Question 19
16b	**DSDXHS_MCI**	1.0	Diagnostic history: Yes, mild cognitive impairment (MCI)	Num	0 = Blank 1 = Yes	
16c	**DSDXHS_DEM**	1.0	Diagnostic history: Yes, dementia	Num	0 = Blank 1 = Yes	
16a1	**DSMCIMO**	1.0	MCI diagnosis month	Num	1 = January 2 = February 3 = March 4 = April 5 = May 6 = June 7 = July 8 = August 9 = September 10 = October 11 = November 12 = December 99 = Diagnosis month is unknown	Blank if Question 16b **DSDXHS_MCI** ≠ 1 (MCI)
16a2	**DSMCIYR**	1.0	MCI diagnosis year	Num	1950 to current year 9999 = Unknown	Blank if Question 16b **DSDXHS_MCI** ≠ 1 (MCI)
16b1	**DSDEMMO**	1.0	Dementia diagnosis month	Num	1 = January 2 = February 3 = March 4 = April 5 = May 6 = June 7 = July 8 = August 9 = September 10 = October 11 = November 12 = December 99 = Diagnosis month is unknown	Blank if Question 16c **DSDXHS_DEM** ≠ 1 (Dementia)
16b2	**DSDEMYR**	1.0	Dementia diagnosis year	Num	1950 to current year 9999 = Unknown	Blank if Question 16c **DSDXHS_DEM** ≠ 1 (Dementia)

Q	Data element name	Ver	Description	Data type	Allowable codes	Blanks, Skips, and Comments
16b3	**DSDXTYPE**	1.0	Type of dementia	Char	text	Blank if Question 16c **DSDXHS_DEM** ≠ 1 (Dementia)
16d	**DSDXBY**	1.0	MCI/dementia diagnosed by	Num	1 = Geriatrician 2 = Neurologist 3 = Physician 4 = Psychiatrist 5 = Psychologist 6 = Other	Blank if Question 16a **DSDXHS_NO** = 1 (No diagnosis of MCI or dementia)
16d1	**DSDXBYX**	1.0	MCI/dementia diagnosed by other: Specify	Char	text	Blank if Question 16d **DSDXBY** ≠ 6 (Diagnosed by: other)
17a	**DSONSTMO**	1.0	Note approximate MONTH of onset of MCI/dementia	Num	1 = January 2 = February 3 = March 4 = April 5 = May 6 = June 7 = July 8 = August 9 = September 10 = October 11 = November 12 = December 99 = Diagnosis month is unknown	Blank if Question 16a **DSDXHS_NO** = 1 (No diagnosis of MCI or dementia)
17b	**DSONSTYR**	1.0	Note approximate YEAR of onset of MCI/dementia	Num	1950 to current year 9999 = Unknown	Blank if Question 16a **DSDXHS_NO** = 1 (No diagnosis of MCI or dementia)
18	**DSDEMCOM**	1.0	Comments/explanations about dementia suspicions	Char	text	Blank if Question 16a **DSDXHS_NO** = 1 (No diagnosis of MCI or dementia)
19a	**DSADL1**	1.0	Activities of daily living: Needs help washing and/or bathing	Num	0 = Does not apply 1 = New symptom in past year 2 = Always but worse 3 = Always been the case	
19b	**DSADL2**	1.0	Activites of daily living: Needs help with dressing	Num	0 = Does not apply 1 = New symptom in past year 2 = Always but worse 3 = Always been the case	

Q	Data element name	Ver	Description	Data type	Allowable codes	Blanks, Skips, and Comments
19c	**DSADL3**	1.0	Activities of daily living: Dresses inappropriately (e.g., back to front, incomplete, inadequately for weather)	Num	0 = Does not apply 1 = New symptom in past year 2 = Always but worse 3 = Always been the case	
19d	**DSADL4**	1.0	Activities of daily living: Undresses inappropriately (e.g., in public)	Num	0 = Does not apply 1 = New symptom in past year 2 = Always but worse 3 = Always been the case	
19e	**DSADL5**	1.0	Activities of daily living: Needs help eating (cutting food, mouthful amounts, choking)	Num	0 = Does not apply 1 = New symptom in past year 2 = Always but worse 3 = Always been the case	
19f	**DSADL6**	1.0	Activities of daily living: Needs help using the bathroom (finding, toileting)	Num	0 = Does not apply 1 = New symptom in past year 2 = Always but worse 3 = Always been the case	
19g	**DSADL7**	1.0	Activities of daily living: Incontinent (including occasional accidents)	Num	0 = Does not apply 1 = New symptom in past year 2 = Always but worse 3 = Always been the case	
20a	**DSLANG1**	1.0	Language & Communication: Does not initiate conversation	Num	0 = Does not apply 1 = New symptom in past year 2 = Always but worse 3 = Always been the case	
20b	**DSLANG2**	1.0	Language & Communication: Does not find words	Num	0 = Does not apply 1 = New symptom in past year 2 = Always but worse 3 = Always been the case	
20c	**DSLANG3**	1.0	Language & Communication: Does not follow simple instructions	Num	0 = Does not apply 1 = New symptom in past year 2 = Always but worse 3 = Always been the case	
20d	**DSLANG4**	1.0	Language & Communication: Appears to get lost in middle of conversation	Num	0 = Does not apply 1 = New symptom in past year 2 = Always but worse 3 = Always been the case	

Q	Data element name	Ver	Description	Data type	Allowable codes	Blanks, Skips, and Comments
20e	**DSLANG5**	1.0	Language & Communication: Does not read	Num	0 = Does not apply 1 = New symptom in past year 2 = Always but worse 3 = Always been the case	
20f	**DSLANG6**	1.0	Language & Communication: Does not write (including printing own name)	Num	0 = Does not apply 1 = New symptom in past year 2 = Always but worse 3 = Always been the case	
21a	**DSSLEEP1**	1.0	Sleep/wake change patterns: Excessive sleep (sleeping more)	Num	0 = Does not apply 1 = New symptom in past year 2 = Always but worse 3 = Always been the case	
21b	**DSSLEEP2**	1.0	Sleep/wake change patterns: Inadequate sleep (sleeping less)	Num	0 = Does not apply 1 = New symptom in past year 2 = Always but worse 3 = Always been the case	
21c	**DSSLEEP3**	1.0	Sleep/wake change patterns: Wakes frequently at night	Num	0 = Does not apply 1 = New symptom in past year 2 = Always but worse 3 = Always been the case	
21d	**DSSLEEP4**	1.0	Sleep/wake change patterns: Confused at night	Num	0 = Does not apply 1 = New symptom in past year 2 = Always but worse 3 = Always been the case	
21e	**DSSLEEP5**	1.0	Sleep/wake change patterns: Sleeps during the day more than usual	Num	0 = Does not apply 1 = New symptom in past year 2 = Always but worse 3 = Always been the case	
21f	**DSSLEEP6**	1.0	Sleep/wake change patterns: Wanders at night	Num	0 = Does not apply 1 = New symptom in past year 2 = Always but worse 3 = Always been the case	
21g	**DSSLEEP7**	1.0	Sleep/wake change patterns: Wakes earlier than usual	Num	0 = Does not apply 1 = New symptom in past year 2 = Always but worse 3 = Always been the case	

Q	Data element name	Ver	Description	Data type	Allowable codes	Blanks, Skips, and Comments
21h	**DSSLEEP8**	1.0	Sleep/wake change patterns: Sleeps later than usual	Num	0 = Does not apply 1 = New symptom in past year 2 = Always but worse 3 = Always been the case	
22a	**DSAMB1**	1.0	Ambulation: Not confident walking over small cracks, lines on the ground, patterned flooring, or uneven surfaces	Num	0 = Does not apply 1 = New symptom in past year 2 = Always but worse 3 = Always been the case	
22b	**DSAMB2**	1.0	Ambulation: Unsteady walk, loses balance	Num	0 = Does not apply 1 = New symptom in past year 2 = Always but worse 3 = Always been the case	
22c	**DSAMB3**	1.0	Ambulation: Falls	Num	0 = Does not apply 1 = New symptom in past year 2 = Always but worse 3 = Always been the case	
22d	**DSAMB4**	1.0	Ambulation: Requires aids to walk	Num	0 = Does not apply 1 = New symptom in past year 2 = Always but worse 3 = Always been the case	
23a	**DSMEM1**	1.0	Memory: Does not recognize familiar persons (staff/relatives/friends)	Num	0 = Does not apply 1 = New symptom in past year 2 = Always but worse 3 = Always been the case	
23b	**DSMEM2**	1.0	Memory: Does not remember names of familiar people	Num	0 = Does not apply 1 = New symptom in past year 2 = Always but worse 3 = Always been the case	
23c	**DSMEM3**	1.0	Memory: Does not remember recent events (in past week or less)	Num	0 = Does not apply 1 = New symptom in past year 2 = Always but worse 3 = Always been the case	
23d	**DSMEM4**	1.0	Memory: Does not find way in familiar surroundings	Num	0 = Does not apply 1 = New symptom in past year 2 = Always but worse 3 = Always been the case	

Q	Data element name	Ver	Description	Data type	Allowable codes	Blanks, Skips, and Comments
23e	**DSMEM5**	1.0	Memory: Loses track of time (time of day, day of the week, seasons)	Num	0 = Does not apply 1 = New symptom in past year 2 = Always but worse 3 = Always been the case	
23f	**DSMEM6**	1.0	Memory: Loses or misplaces objects	Num	0 = Does not apply 1 = New symptom in past year 2 = Always but worse 3 = Always been the case	
23g	**DSMEM7**	1.0	Memory: Puts familiar things in wrong places	Num	0 = Does not apply 1 = New symptom in past year 2 = Always but worse 3 = Always been the case	
23h	**DSMEM8**	1.0	Memory: Problems with printing or signing own name	Num	0 = Does not apply 1 = New symptom in past year 2 = Always but worse 3 = Always been the case	
23i	**DSMEM9**	1.0	Memory: Problems with learning new tasks or names of new people	Num	0 = Does not apply 1 = New symptom in past year 2 = Always but worse 3 = Always been the case	
24a	DSBEH1	1.0	Behavior and Affect: Wanders	Num	0 = Does not apply 1 = New symptom in past year 2 = Always but worse 3 = Always been the case	
24b	**DSBEH2**	1.0	Behavior and Affect: Withdraws from social activities	Num	0 = Does not apply 1 = New symptom in past year 2 = Always but worse 3 = Always been the case	
24c	DSBEH3	1.0	Behavior and Affect: Withdraws from people	Num	0 = Does not apply 1 = New symptom in past year 2 = Always but worse 3 = Always been the case	
24d	**DSBEH4**	1.0	Behavior and Affect: Loss of interest in hobbies and activities	Num	0 = Does not apply 1 = New symptom in past year 2 = Always but worse 3 = Always been the case	

Q	Data element name	Ver	Description	Data type	Allowable codes	Blanks, Skips, and Comments
24e	**DSBEH5**	1.0	Behavior and Affect: Seems to go into own world	Num	0 = Does not apply 1 = New symptom in past year 2 = Always but worse 3 = Always been the case	
24f	**DSBEH6**	1.0	Behavior and Affect: Obsessive or repetitive behavior	Num	0 = Does not apply 1 = New symptom in past year 2 = Always but worse 3 = Always been the case	
24g	**DSBEH7**	1.0	Behavior and Affect: Hids or hoards objects	Num	0 = Does not apply 1 = New symptom in past year 2 = Always but worse 3 = Always been the case	
24h	**DSBEH8**	1.0	Behavior and Affect: Does not know what to do with familiar objects	Num	0 = Does not apply 1 = New symptom in past year 2 = Always but worse 3 = Always been the case	
24i	**DSBEH9**	1.0	Behavior and Affect: Increased impulsivity (touching others, arguing, taking things)	Num	0 = Does not apply 1 = New symptom in past year 2 = Always but worse 3 = Always been the case	
24j	**DSBEH10**	1.0	Behavior and Affect: Appears uncertain, lacks confidence	Num	0 = Does not apply 1 = New symptom in past year 2 = Always but worse 3 = Always been the case	
24k	**DSBEH11**	1.0	Behavior and Affect: Appears anxious, agitated, or nervous	Num	0 = Does not apply 1 = New symptom in past year 2 = Always but worse 3 = Always been the case	
24l	**DSBEH12**	1.0	Behavior and Affect: Appears depressed	Num	0 = Does not apply 1 = New symptom in past year 2 = Always but worse 3 = Always been the case	
24m	**DSBEH13**	1.0	Behavior and Affect: Shows verbal aggression	Num	0 = Does not apply 1 = New symptom in past year 2 = Always but worse 3 = Always been the case	

Q	Data element name	Ver	Description	Data type	Allowable codes	Blanks, Skips, and Comments
24n	**DSBEH14**	1.0	Behavior and Affect: Shows physical aggression	Num	0 = Does not apply 1 = New symptom in past year 2 = Always but worse 3 = Always been the case	
24o	**DSBEH15**	1.0	Behavior and Affect: Temper tantrums, uncontrollable crying, shouting	Num	0 = Does not apply 1 = New symptom in past year 2 = Always but worse 3 = Always been the case	
24p	**DSBEH16**	1.0	Behavior and Affect: Shows lethargy or listlessness	Num	0 = Does not apply 1 = New symptom in past year 2 = Always but worse 3 = Always been the case	
24q	**DSBEH17**	1.0	Behavior and Affect: Talks to self	Num	0 = Does not apply 1 = New symptom in past year 2 = Always but worse 3 = Always been the case	
25a	**DSSELF1**	1.0	Self-reported problems: Changes in ability to do things	Num	0 = Does not apply 1 = New symptom in past year 2 = Always but worse 3 = Always been the case	
25b	**DSSELF2**	1.0	Self-reported problems: Hearing things	Num	0 = Does not apply 1 = New symptom in past year 2 = Always but worse 3 = Always been the case	
25c	**DSSELF3**	1.0	Self-reported problems: Seeing things	Num	0 = Does not apply 1 = New symptom in past year 2 = Always but worse 3 = Always been the case	
25d	**DSSELF4**	1.0	Self-reported problems: Changes in "thinking"	Num	0 = Does not apply 1 = New symptom in past year 2 = Always but worse 3 = Always been the case	
25e	**DSSELF5**	1.0	Self-reported problems: Changes in interests	Num	0 = Does not apply 1 = New symptom in past year 2 = Always but worse 3 = Always been the case	

Q	Data element name	Ver	Description	Data type	Allowable codes	Blanks, Skips, and Comments
25f	**DSSELF6**	1.0	Self-reported problems: Changes in memory	Num	0 = Does not apply 1 = New symptom in past year 2 = Always but worse 3 = Always been the case	
26a	**DSOTHER1**	1.0	Changes observed by others: In gait (e.g., stumbling, falling, unsteadiness)	Num	0 = Does not apply 1 = New symptom in past year 2 = Always but worse	
26b	**DSOTHER2**	1.0	Changes observed by others: In personality (e.g., subdued when was outgoing)	Num	0 = Does not apply 1 = New symptom in past year 2 = Always but worse	
26c	**DSOTHER3**	1.0	Changes observed by others: In friendliness (e.g. now socially unresponsive)	Num	0 = Does not apply 1 = New symptom in past year 2 = Always but worse	
26d	**DSOTHER4**	1.0	Changes observed by others: In attentiveness (e.g., missing cues, distracted)	Num	0 = Does not apply 1 = New symptom in past year 2 = Always but worse	
26e	**DSOTHER5**	1.0	Changes observed by others: In weight (e.g., weight loss or weight gain)	Num	0 = Does not apply 1 = New symptom in past year 2 = Always but worse	
26f	**DSOTHER6**	1.0	Changes observed by others: In abnormal voluntary movements (head, neck, limbs, trunk)	Num	0 = Does not apply 1 = New symptom in past year 2 = Always but worse	
27a	**DSARTHR**	1.0	Bone, Joint, and Muscle: Arthritis	Num	0 = Condition not present 1 = Recent condition (past year) 2 = Condition diagnosed in last 5 years 3 = Lifelong condition	
27b	**DSOSTEOP**	1.0	Bone, Joint, and Muscle: Osteoporosis	Num	0 = Condition not present 1 = Recent condition (past year) 2 = Condition diagnosed in last 5 years 3 = Lifelong condition	
27c	**DSHRTCON**	1.0	Heart and Circulation: Heart condition	Num	0 = Condition not present 1 = Recent condition (past year) 2 = Condition diagnosed in last 5 years 3 = Lifelong condition	

Q	Data element name	Ver	Description	Data type	Allowable codes	Blanks, Skips, and Comments
27d	**DSCHOL**	1.0	Heart and Circulation: High cholesterol	Num	0 = Condition not present 1 = Recent condition (past year) 2 = Condition diagnosed in last 5 years 3 = Lifelong condition	
27e	**DSHGHBP**	1.0	Heart and Circulation: High blood pressure	Num	0 = Condition not present 1 = Recent condition (past year) 2 = Condition diagnosed in last 5 years 3 = Lifelong condition	
27f	**DSLOWBP**	1.0	Heart and Circulation: Low blood pressure	Num	0 = Condition not present 1 = Recent condition (past year) 2 = Condition diagnosed in last 5 years 3 = Lifelong condition	
27g	**DSSTROKE**	1.0	Heart and Circulation: Stroke	Num	0 = Condition not present 1 = Recent condition (past year) 2 = Condition diagnosed in last 5 years 3 = Lifelong condition	
27h	**DSDIAB**	1.0	Hormonal: Diabetes (type 1 or 2)	Num	0 = Condition not present 1 = Recent condition (past year) 2 = Condition diagnosed in last 5 years 3 = Lifelong condition	
27i	**DSTHYR**	1.0	Hormonal: Thyroid disorder	Num	0 = Condition not present 1 = Recent condition (past year) 2 = Condition diagnosed in last 5 years 3 = Lifelong condition	
27j	**DSASTHMA**	1.0	Lungs/breathing: Asthma	Num	0 = Condition not present 1 = Recent condition (past year) 2 = Condition diagnosed in last 5 years 3 = Lifelong condition	
27k	**DSBRONCH**	1.0	Lungs/breathing: Chronic bronchitis, emphysema	Num	0 = Condition not present 1 = Recent condition (past year) 2 = Condition diagnosed in last 5 years 3 = Lifelong condition	
27l	**DSSLPDIS**	1.0	Lungs/breathing: Sleep disorder	Num	0 = Condition not present 1 = Recent condition (past year) 2 = Condition diagnosed in last 5 years 3 = Lifelong condition	

Q	Data element name	Ver	Description	Data type	Allowable codes	Blanks, Skips, and Comments
27m	**DSALCSUB**	1.0	Mental health: Alcohol or substance abuse	Num	0 = Condition not present 1 = Recent condition (past year) 2 = Condition diagnosed in last 5 years 3 = Lifelong condition	
27n	**DSANXIET**	1.0	Mental health: Anxiety disorder	Num	0 = Condition not present 1 = Recent condition (past year) 2 = Condition diagnosed in last 5 years 3 = Lifelong condition	
27o	**DSADD**	1.0	Mental health: Attention deficit disorder	Num	0 = Condition not present 1 = Recent condition (past year) 2 = Condition diagnosed in last 5 years 3 = Lifelong condition	
27p	**DSBIPOLR**	1.0	Mental health: Bipolar disorder	Num	0 = Condition not present 1 = Recent condition (past year) 2 = Condition diagnosed in last 5 years 3 = Lifelong condition	
27q	**DSAD**	1.0	Mental health: Dementia/ Alzheimer's disease	Num	0 = Condition not present 1 = Recent condition (past year) 2 = Condition diagnosed in last 5 years 3 = Lifelong condition	
27r	**DSDEP**	1.0	Mental health: Depression	Num	0 = Condition not present 1 = Recent condition (past year) 2 = Condition diagnosed in last 5 years 3 = Lifelong condition	
27s	**DSEATDIS**	1.0	Mental health: Eating disorder (anorexia, bulimia)	Num	0 = Condition not present 1 = Recent condition (past year) 2 = Condition diagnosed in last 5 years 3 = Lifelong condition	
27t	**DSOCD**	1.0	Mental health: Obsessive-compulsive disorder	Num	0 = Condition not present 1 = Recent condition (past year) 2 = Condition diagnosed in last 5 years 3 = Lifelong condition	
27u	**DSSCHIZ**	1.0	Mental health: Schizophrenia	Num	0 = Condition not present 1 = Recent condition (past year) 2 = Condition diagnosed in last 5 years 3 = Lifelong condition	

Q	Data element name	Ver	Description	Data type	Allowable codes	Blanks, Skips, and Comments
27v	**DSMHOTH**	1.0	Mental health: Other	Num	0 = Condition not present 1 = Recent condition (past year) 2 = Condition diagnosed in last 5 years 3 = Lifelong condition	
27v1	**DSMHOTHX**	1.0	Other mental health: Specify	Char	text	Blank if Question 27v **DSMHOTH** = 0 (Mental health: Other condition not present)
27w	**DSBACK**	1.0	Pain/discomfort: Back pain	Num	0 = Condition not present 1 = Recent condition (past year) 2 = Condition diagnosed in last 5 years 3 = Lifelong condition	
27x	**DSCONST**	1.0	Pain/discomfort: Constipation	Num	0 = Condition not present 1 = Recent condition (past year) 2 = Condition diagnosed in last 5 years 3 = Lifelong condition	
27y	**DSFOOT**	1.0	Pain/discomfort: Foot pain	Num	0 = Condition not present 1 = Recent condition (past year) 2 = Condition diagnosed in last 5 years 3 = Lifelong condition	
27z	**DSGASTRO**	1.0	Pain/discomfort: Gastrointestinal pain or discomfort	Num	0 = Condition not present 1 = Recent condition (past year) 2 = Condition diagnosed in last 5 years 3 = Lifelong condition	
27aa	**DSHEAD**	1.0	Pain/discomfort: Headaches	Num	0 = Condition not present 1 = Recent condition (past year) 2 = Condition diagnosed in last 5 years 3 = Lifelong condition	
27bb	**DSHIP**	1.0	Pain/discomfort: Hip/knee pain	Num	0 = Condition not present 1 = Recent condition (past year) 2 = Condition diagnosed in last 5 years 3 = Lifelong condition	
27cc	**DSNECK**	1.0	Pain/discomfort: Neck/shoulder pain	Num	0 = Condition not present 1 = Recent condition (past year) 2 = Condition diagnosed in last 5 years 3 = Lifelong condition	

Q	Data element name	Ver	Description	Data type	Allowable codes	Blanks, Skips, and Comments
27dd	**DSDIZZ**	1.0	Sensory: Dizziness/vertigo	Num	0 = Condition not present 1 = Recent condition (past year) 2 = Condition diagnosed in last 5 years 3 = Lifelong condition	
27ee	**DSIMPHR**	1.0	Sensory: Impaired hearing	Num	0 = Condition not present 1 = Recent condition (past year) 2 = Condition diagnosed in last 5 years 3 = Lifelong condition	
27ff	**DSIMPVS**	1.0	Sensory: Impaired vision	Num	0 = Condition not present 1 = Recent condition (past year) 2 = Condition diagnosed in last 5 years 3 = Lifelong condition	
27gg	**DSCANCER**	1.0	Other chronic conditions: Cancer	Num	0 = Condition not present 1 = Recent condition (past year) 2 = Condition diagnosed in last 5 years 3 = Lifelong condition	
27gg1	**DSCANCX**	1.0	Cancer type: Specify	Char	text	Blank if Question 27gg **DSCANCER** = 0 (Cancer is not present)
27hh	**DSCHRFAT**	1.0	Other chronic conditions: Chronic fatigue	Num	0 = Condition not present 1 = Recent condition (past year) 2 = Condition diagnosed in last 5 years 3 = Lifelong condition	
27ii	**DSEPILEP**	1.0	Other chronic conditions: Epilepsy/seizure disorder	Num	0 = Condition not present 1 = Recent condition (past year) 2 = Condition diagnosed in last 5 years 3 = Lifelong condition	
27jj	**DSREFLUX**	1.0	Other chronic conditions: Heartburn/acid reflux	Num	0 = Condition not present 1 = Recent condition (past year) 2 = Condition diagnosed in last 5 years 3 = Lifelong condition	
27kk	**DSINCONT**	1.0	Other chronic conditions: Urinary incontinence	Num	0 = Condition not present 1 = Recent condition (past year) 2 = Condition diagnosed in last 5 years 3 = Lifelong condition	

Q	Data element name	Ver	Description	Data type	Allowable codes	Blanks, Skips, and Comments
27ll	**DSAPNEA**	1.0	Other chronic conditions: Sleep apnea	Num	0 = Condition not present 1 = Recent condition (past year) 2 = Condition diagnosed in last 5 years 3 = Lifelong condition	
27mm	**DSTICS**	1.0	Other chronic conditions: Tics/ movement disorder/spasticity	Num	0 = Condition not present 1 = Recent condition (past year) 2 = Condition diagnosed in last 5 years 3 = Lifelong condition	
27nn	**DSDENTAL**	1.0	Other chronic conditions: Dental pain	Num	0 = Condition not present 1 = Recent condition (past year) 2 = Condition diagnosed in last 5 years 3 = Lifelong condition	
28a	**DSCHRNRX**	1.0	Reason for current medication: Treatment of chronic conditions	Num	0 = No 1 = Yes	
28b	**DSMHRX**	1.0	Reason for current medication: Treatment of mental health disorders or behavior problems	Num	0 = No 1 = Yes	
28c	**DSPAINRX**	1.0	Reason for current medication: Treatment of pain	Num	0 = No 1 = Yes	
29	**DSCOMM**	1.0	Comments related to other notable changes or concerns	Char	text	
30a	**DSRE_REF**	1.0	Recommendations: Refer to treating physician for assessment	Num	0 = Blank 1 = Yes	
30b	**DSRE_INT**	1.0	Recommendations: Review internally by clinical personnel	Num	0 = Blank 1 = Yes	
30c	**DSRE_ANN**	1.0	Recommendations: Include in annual review/annual wellness visit	Num	0 = Blank 1 = Yes	
30d	**DSRE_REP**	1.0	Recommendations: Repeat in .... months	Num	0 = Blank 1 = Yes	
30d1	**DSREPMO**	1.0	Recommendations: Specify number of months to repeat	Num	Numeric free-text	Blank if Question 30d **DSRE_REP** ≠ 1 (No recommendation to repeat in __ months)

Q	Data element name	Ver	Description	Data type	Allowable codes	Blanks, Skips, and Comments
Form B2D: DLD Summary Page						
0a	**FRMDATE_B2D**	1.0	Form Date	Num	mm/dd/yyy Month: 1–12 Day: 1–31 Year: 2020 to the current year	Form date cannot precede January 1, 2020.
0b	**INITIALS_B2D**	1.0	Examiner's initials	Char	text	NOTE: **INITIALS** is never released in research data sets generated by NACC.
1a	**DSDLDST2**	1.0	Short-term memory, page 2	Num	0 – 4	
1b	**DSDLDST4**	1.0	Short-term memory, page 4	Num	0 – 2	
1c	**DSDLDST5**	1.0	Short-term memory, page 5	Num	0 – 4	
1d	**DSDLDST6**	1.0	Short-term memory, page 6	Num	0 – 2	
1e	**DSDLDST7**	1.0	Short-term memory, page 7	Num	0 – 2	
1	**DSDLDSTM**	1.0	Short-term memory total	Num	0 – 14	
2a	**DSDLDLT2**	1.0	Long-term memory, page 2	Num	0 – 2	
2b	**DSDLDLT3**	1.0	Long-term memory, page 3	Num	0 – 2	
2c	**DSDLDLT6**	1.0	Long-term memory, page 6	Num	0 – 2	
2d	**DSDLDLT8**	1.0	Long-term memory, page 8	Num	0 – 2	
2e	**DSDLDLT9**	1.0	Long-term memory, page 9	Num	0 – 8	
2	**DSDLDLTM**	1.0	Long-term memory total	Num	0 – 16	
3a	**DSDLDOR2**	1.0	Spatial & temporal orientation, page 2	Num	0 – 2	
3b	**DSDLDOR3**	1.0	Spatial & temporal orientation, page 3	Num	0 – 4	
3c	**DSDLDOR4**	1.0	Spatial & temporal orientation, page 4	Num	0 – 2	
3d	**DSDLDOR6**	1.0	Spatial & temporal orientation, page 6	Num	0 – 2	
3e	**DSDLDOR8**	1.0	Spatial & temporal orientation, page 8	Num	0 – 2	

Q	Data element name	Ver	Description	Data type	Allowable codes	Blanks, Skips, and Comments
3f	**DSDLDOR9**	1.0	Spatial & temporal orientation, page 9	Num	0 – 2	
3	**DSDLDOR**	1.0	Spatial & temporal orientation total	Num	0 – 14	
4a	**DSDLDSP2**	1.0	Speech, page 2	Num	0 – 2	
4b	**DSDLDSP4**	1.0	Speech, page 4	Num	0 – 2	
4c	**DSDLDSP5**	1.0	Speech, page 5	Num	0 – 2	
4d	**DSDLDSP6**	1.0	Speech, page 6	Num	0 – 2	
4	**DSDLDSP**	1.0	Speech total	Num	0 – 8	
5a	**DSDLDPR3**	1.0	Practical skills, page 3	Num	0 – 2	
5b	**DSDLDPR4**	1.0	Practical skills, page 4	Num	0 – 4	
5c	**DSDLDPR5**	1.0	Practical skills, page 5	Num	0 – 2	
5d	**DSDLDPR8**	1.0	Practical skills, page 8	Num	0 – 4	
5e	**DSDLDP10**	1.0	Practical skills, page 10	Num	0 – 4	
5	**DSDLDPRC**	1.0	Practical skills total	Num	0 – 16	
6a	**DSDLDMD7**	1.0	Mood, page 7	Num	0 – 2	
6b	**DSDLDMD8**	1.0	Mood, page 8	Num	0 – 6	
6c	**DSDLDMD9**	1.0	Mood, page 9	Num	0 – 2	
6d	**DSDLDM10**	1.0	Mood, page 10	Num	0 – 2	
6	**DSDLDMD**	1.0	Mood total	Num	0 – 12	
7a	**DSDLDAI3**	1.0	Activity & interest, page 3	Num	0 – 2	
7b	**DSDLDAI4**	1.0	Activity & interest, page 4	Num	0 – 2	
7c	**DSDLDAI5**	1.0	Activity & interest, page 5	Num	0 – 4	
7d	**DSDLDAI6**	1.0	Activity & interest, page 6	Num	0 – 2	
7e	**DSDLDAI7**	1.0	Activity & interest, page 7	Num	0 – 2	
7	**DSDLDAI**	1.0	Activity & interest total	Num	0 – 12	

Q	Data element name	Ver	Description	Data type	Allowable codes	Blanks, Skips, and Comments
8a	**DSDLDBD3**	1.0	Behavioral disturbance, page 3	Num	0 – 2	
8b	**DSDLDBD4**	1.0	Behavioral disturbance, page 4	Num	0 – 2	
8c	**DSDLDBD6**	1.0	Behavioral disturbance, page 6	Num	0 – 2	
8d	**DSDLDBD7**	1.0	Behavioral disturbance, page 7	Num	0 – 4	
8e	**DSDLDBD8**	1.0	Behavioral disturbance, page 8	Num	0 – 2	
8	**DSDLDBD**	1.0	Behavioral disturbance total	Num	0 – 12	
9	**DSDLDSCS**	1.0	Sum of Cognitive Scores (Category 1 – 3)	Num	0 – 44	
10	**DSDLDSOS**	1.0	Sum of Social Scores (Category 4 – 8)	Num	0 – 60	

Form C1D: Neuropsychological Battery Scores

Q	Data element name	Ver	Description	Data type	Allowable codes	Blanks, Skips, and Comments
0a	FRMDATE_C1D	1.0	Form Date	Num	mm/dd/yyy Month: 1–12 Day: 1–31 Year: 2020 to the current year	Form date cannot precede January 1, 2020.
0b	INITIALS_C1D	1.0	Examiner's initials	Char	text	NOTE: **INITIALS** is never released in research data sets generated by NACC.
1	DSMSEADM	1.0	Was any part of the DSMSE administered?	Num	0 = No 1 = Yes	
1a	DSMSEREA	1.0	Was not administered: Specify reason	Num	95 = Physical problem 96 = Cognitive/behavior problem 97 = Other problem 98 = verbal refusal	Blank if Question 1 **DSMSEADM** ≠ 0 (DSMSE not administered) If Question 1 **DSMSEADM** = 0 (No), then skip to Question 2a
1a1	DSPRSINF	1.0	Personal information	Num	0 – 7 8 = Not assessed	Blank if Question 1 **DSMSEADM** ≠ 1 (DSMSE administered)
1b1	DSSEASDY	1.0	Season/Day	Num	0 – 4 8 = Not assessed	Blank if Question 1 **DSMSEADM** ≠ 1 (DSMSE administered)
1b2	DSORTOT	1.0	1b2 Total Score	Num	0 – 11 88 = Not assessed	Blank if Question 1 **DSMSEADM** ≠ 1 (DSMSE administered)
1c1	DSSMIMM	1.0	Shoebox memory – Immediate	Num	0 – 9 88 = Not assessed	Blank if Question 1 **DSMSEADM** ≠ 1 (DSMSE administered)
1c2	DSSMDEL	1.0	Shoebox memory – Delay	Num	0 – 9 88 = Not assessed	Blank if Question 1 **DSMSEADM** ≠ 1 (DSMSE administered)
1c3	DSSMTOT	1.0	Shoebox memory – Total Score	Num	0 – 18 88 = Not assessed	Blank if Question 1 **DSMSEADM** ≠ 1 (DSMSE administered)
1d1	DSMEMIMM	1.0	Memory – Immediate	Num	0 – 3 8 = Not assessed	Blank if Question 1 **DSMSEADM** ≠ 1 (DSMSE administered)
1d2	DSMEMDEL	1.0	Memory – Delay	Num	0 – 3 8 = Not assessed	Blank if Question 1 **DSMSEADM** ≠ 1 (DSMSE administered)
1d3	DSMMTOT	1.0	Memory – Total Score	Num	0 – 6 8 = Not assessed	Blank if Question 1 **DSMSEADM** ≠ 1 (DSMSE administered)

Q	Data element name	Ver	Description	Data type	Allowable codes	Blanks, Skips, and Comments
1e1	**DSAPINT**	1.0	Apraxia – Intransitive	Num	0 – 2 8 = Not assessed	Blank if Question 1 **DSMSEADM** ≠ 1 (DSMSE administered)
1e2	**DSAPTRAN**	1.0	Apraxia – transitive	Num	0.0 – 2.0 8.8 = Not assessed	Blank if Question 1 **DSMSEADM** ≠ 1 (DSMSE administered)
1e3	**DSAPTOT**	1.0	Apraxia – Total Score	Num	0.0 – 4.0 8.8 = Not assessed	Blank if Question 1 **DSMSEADM** ≠ 1 (DSMSE administered)
1f1	**DSLGNAM**	1.0	Language – Naming	Num	0 – 11 88 = Not assessed	Blank if Question 1 **DSMSEADM** ≠ 1 (DSMSE administered)
1f2	**DSLGREP**	1.0	Language – Repetitions	Num	0 – 30 88 = Not assessed	Blank if Question 1 **DSMSEADM** ≠ 1 (DSMSE administered)
1f3	**DSLGCOMP**	1.0	Language – Comprehension	Num	0.0 – 12.0 88.8 = Not assessed	Blank if Question 1 **DSMSEADM** ≠ 1 (DSMSE administered)
1f4	**DSLGTOT**	1.0	Language – Total Score	Num	0.0 – 53.0 88.8 = Not assessed	Blank if Question 1 **DSMSEADM** ≠ 1 (DSMSE administered)
1g1	**DSVISUO**	1.0	Visuospatial	Num	0.0 – 8.0 8.8 = Not assessed	Blank if Question 1 **DSMSEADM** ≠ 1 (DSMSE administered)
1g2	**DSVISTT**	1.0	Visuospatial – Total Score	Num	0.0 – 8.0 8.8 = Not assessed	Blank if Question 1 **DSMSEADM** ≠ 1 (DSMSE administered)
1h1	**DSKNOWL**	1.0	Knowledge of the examiner	Num	0 – 3 8 = Not assessed	Blank if Question 1 **DSMSEADM** ≠ 1 (DSMSE administered)
1h2	**DSKNWTT**	1.0	Knowledge of the examiner – Total Score	Num	0 – 3 8 = Not assessed	Blank if Question 1 **DSMSEADM** ≠ 1 (DSMSE administered)
1i1	**DSMSETT**	1.0	DSMSE Total Score	Num	0.0 – 103.0 995.0 = Physical problem 996.0 = Cognitive/behavior problem 997.0 = Other problem 998.0 = Verbal refusal	Blank if Question 1 **DSMSEADM** ≠ 1 (DSMSE administered)
2a	**DSCRADM**	1.0	Was any part of the Cued Recall Task administered?	Num	0 = No 1 = Yes	
2a1	**DSCRREAS**	1.0	Cued Recall Task not administered: Specify reason	Num	95 = Physical problem 96 = Cognitive/behavioral problem 97 = Other problem 98 = Verbal refusal	Blank if Question 2a **DSCRADM** ≠ 0 (Cued Recall Task not administered) If Question 2a **DSCRADM** = 0 (No), then skip to Question 3a

Q	Data element name	Ver	Description	Data type	Allowable codes	Blanks, Skips, and Comments
2b	**DSCRVERS**	1.0	Which cue card set was used?	Num	1 = Version 1 (Set A) 2 = Version 2 (Set B)	Blank if Question 2a **DSCRADM** ≠ 1 (Cued Recall Task administered)
2c1	**DSCRT1C1**	1.0	Training trial – Trial 1, Card 1	Num	0 – 4	Blank if Question 2a **DSCRADM** ≠ 1 (Cued Recall Task administered)
2c2	**DSCRT1C2**	1.0	Training trial – Trial 1, Card 2	Num	0 – 4	Blank if Question 2a **DSCRADM** ≠ 1 (Cued Recall Task administered)
2c3	**DSCRT1C3**	1.0	Training trial – Trial 1, Card 3	Num	0 – 4	Blank if Question 2a **DSCRADM** ≠ 1 (Cued Recall Task administered)
2c4	**DSCRT2C1**	1.0	Training trial – Trial 2, Card 1	Num	0 – 4	Blank if Question 2a **DSCRADM** ≠ 1 (Cued Recall Task administered)
2c5	**DSCRT2C2**	1.0	Training trial – Trial 2, Card 2	Num	0 – 4	Blank if Question 2a **DSCRADM** ≠ 1 (Cued Recall Task administered)
2c6	**DSCRT2C3**	1.0	Training trial – Trial 2, Card 3	Num	0 – 4	Blank if Question 2a **DSCRADM** ≠ 1 (Cued Recall Task administered)
2c7	**DSCRT3C1**	1.0	Training trial – Trial 3, Card 1	Num	0 – 4	Blank if Question 2a **DSCRADM** ≠ 1 (Cued Recall Task administered)
2c8	**DSCRT3C2**	1.0	Training trial – Trial 3, Card 2	Num	0 – 4	Blank if Question 2a **DSCRADM** ≠ 1 (Cued Recall Task administered)
2c9	**DSCRT3C3**	1.0	Training trial – Trial 3, Card 3	Num	0 – 4	Blank if Question 2a **DSCRADM** ≠ 1 (Cued Recall Task administered)
2d1	**DSCRT1FR**	1.0	Test trial – Trial 1, free recall	Num	0 – 12	Blank if Question 2a **DSCRADM** ≠ 1 (Cued Recall Task administered)
2d2	**DSCRT1IF**	1.0	Test trial – Trial 1, intrusions to free recall	Num	0 – 999	Blank if Question 2a **DSCRADM** ≠ 1 (Cued Recall Task administered)
2d3	**DSCRT1CR**	1.0	Test trial – Trial 1, cued recall	Num	0 – 12	Blank if Question 2a **DSCRADM** ≠ 1 (Cued Recall Task administered)
2d4	**DSCRT1IC**	1.0	Test trial – Trial 1, intrusions to cued recall	Num	0 – 999	Blank if Question 2a **DSCRADM** ≠ 1 (Cued Recall Task administered)
2d5	**DSCRT2FR**	1.0	Test trial – Trial 2, free recall	Num	0 – 12	Blank if Question 2a **DSCRADM** ≠ 1 (Cued Recall Task administered)

Q	Data element name	Ver	Description	Data type	Allowable codes	Blanks, Skips, and Comments
2d6	**DSCRT2IF**	1.0	Test trial – Trial 2, intrusions to free recall	Num	0 – 999	Blank if Question 2a **DSCRADM** ≠ 1 (Cued Recall Task administered)
2d7	**DSCRT2CR**	1.0	Test trial – Trial 2, cued recall	Num	0 – 12	Blank if Question 2a **DSCRADM** ≠ 1 (Cued Recall Task administered)
2d8	**DSCRT2IC**	1.0	Test trial – Trial 2, intrusions to cued recall	Num	0 – 999	Blank if Question 2a **DSCRADM** ≠ 1 (Cued Recall Task administered)
2d9	**DSCRT3FR**	1.0	Test trial – Trial 3, free recall	Num	0 – 12	Blank if Question 2a **DSCRADM** ≠ 1 (Cued Recall Task administered)
2d10	**DSCRT3IF**	1.0	Test trial – Trial 3, intrusions to free recall	Num	0 – 999	Blank if Question 2a **DSCRADM** ≠ 1 (Cued Recall Task administered)
2d11	**DSCRT3CR**	1.0	Test trial – Trial 3, cued recall	Num	0 – 12	Blank if Question 2a **DSCRADM** ≠ 1 (Cued Recall Task administered)
2d12	**DSCRT3IC**	1.0	Test trial – Trial 3, intrusions to cued recall	Num	0 – 999	Blank if Question 2a **DSCRADM** ≠ 1 (Cued Recall Task administered)
2d13	**DSCRTTFR**	1.0	Free recall – Total	Num	0 – 36	Blank if Question 2a **DSCRADM** ≠ 1 (Cued Recall Task administered)
2d14	**DSCRTTIF**	1.0	Intrusions to free recall – Total	Num	0 – 999	Blank if Question 2a **DSCRADM** ≠ 1 (Cued Recall Task administered)
2d15	**DSCRTTCR**	1.0	Cued recall – Total	Num	0 – 36	Blank if Question 2a **DSCRADM** ≠ 1 (Cued Recall Task administered)
2d16	**DSCRTTIC**	1.0	Intrusions to cued recall – Total	Num	0 – 999	Blank if Question 2a **DSCRADM** ≠ 1 (Cued Recall Task administered)
3a	**DSMSEBEH**	1.0	Participant behavior during: DSMSE	Num	1 = Cooperative and engaged 2 = Cooperative but distracted 3 = Uncooperative 9 = Not administered	
3b	**DSCRBEH**	1.0	Participant behavior during: Cued Recall Task	Num	1 = Cooperative and engaged 2 = Cooperative but distracted 3 = Uncooperative 9 = Not administered	

Q	Data element name	Ver	Description	Data type	Allowable codes	Blanks, Skips, and Comments
Form D1D: Clinician Exam and Diagnosis						
0a	**FRMDATE_D1D**	1.0	Form Date	Num	mm/dd/yyy Month: 1–12 Day: 1–31 Year: 2020 to the current year	Form date cannot precede January 1, 2020.
0b	**INITIALS_D1D**	1.0	Examiner's initials	Char	text	NOTE: **INITIALS** is never released in research data sets generated by NACC.
1	**DSHEADCM**	1.0	Head circumference (cm)	Num	45 – 70 777 = provided at previous visit 888 = Not assessed	
2	**DSGRASP**	1.0	Pathological reflexes – grasp	Num	1 = Absent 2 = Present 9 = Unknown/not assessed	
3	**DSSNOUT**	1.0	Pathological reflexes – snout	Num	1 = Absent 2 = Present 9 = Unknown/not assessed	
4	**DSROOT**	1.0	Pathological reflexes – rooting	Num	1 = Absent 2 = Present 9 = Unknown/not assessed	
5	**DSCHROM**	1.0	What is the participant's chromosome diagnosis?	Num	1 = Trisomy 21 2 = Translocation DS 3 = Mosaic DS 9 = Unknown/not assessed	
6	**DSCOGST**	1.0	What is the participant's cognitive status	Num	1 = Cognitively stable 2 = MCI-DS 3 = Dementia 9 = Unable to determine	