



NACC UNIFORM DATA SET

**DOWN SYNDROME MODULE**

# Coding Guidebook

Follow-up Visit Packet

**UDS Version 3.0, March 2015**

**DS Module Version 1.0, August 2022**

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## Down Syndrome Module to the Uniform Data Set

# Coding Guidebook for the Follow-up Visit Packet

## INTRODUCTION

The Down Syndrome Module to the UDS is designed for:

- Persons with Down Syndrome

### How to read the Guidebook

The Guidebook features a reproduction of each form in the DS Module, interspersed with explanatory notes and references. Throughout this document, all explanatory and reference text are on a white background.

#### Important notes

- **Timing** — The DS Module evaluation is intended to be completed as part of a UDS visit. If the UDS evaluation and the DS evaluation are separated into two days, please complete the DS evaluation within two weeks of the UDS evaluation.
- **Visit Number** — Even when the visit is split into two days, the same Visit Number MUST be used in the form header on all forms in both packets (UDS and DS) from both days.
- **IVP vs. FVP** — When a UDS enrollee is being given the DS Module evaluation for the first time, you should use the DS Module Initial Visit Packet, even if you are using the UDS Follow-up Visit Packet.

# Form A1D: Participant Health History

*INSTRUCTIONS: This form is to be completed by intake interviewer based on ADRC scheduling records, subject interview, medical records, and proxy co-participant report (as needed). Check only one box per question.*

1. What are the participant's weekday activities?	
1a. Day program	<input type="checkbox"/> 0 No <input type="checkbox"/> 1 Yes <input type="checkbox"/> 9 Unknown
1b. Workshops	<input type="checkbox"/> 0 No <input type="checkbox"/> 1 Yes <input type="checkbox"/> 9 Unknown
1c. Stays at home	<input type="checkbox"/> 0 No <input type="checkbox"/> 1 Yes <input type="checkbox"/> 9 Unknown
1d. Community paid job	<input type="checkbox"/> 0 No <input type="checkbox"/> 1 Yes <input type="checkbox"/> 9 Unknown
1e. Other (SPECIFY): _____	<input type="checkbox"/> 0 No <input type="checkbox"/> 1 Yes <input type="checkbox"/> 9 Unknown
2. Age of participant's mother at participant's birth	_____ (777 = provided at previous visit; 999 = unknown)

QUESTION 2: If the exact age of the participant's mother at the time of the participant's birth is unknown, ask the participant and/or co-participant to estimate. If s/he cannot estimate, enter **999 = Unknown**. If provided at a previous visit, enter **777 = provided at previous visit**.

QUESTIONS 3–7: For the following questions, record the presence or absence of a history of these congenital heart conditions at this visit, as determined by the clinician's best judgment following the medical history interview with the participant and/or co-participant.

## A condition should be considered...

Absent	IF	... it is not indicated by information obtained from the participant or co-participant interview
Present – resolved	IF	... it existed in the past but was resolved or there is no treatment currently under way
Present – repaired	IF	... it existed in the past and was repaired but not resolved or still requires active management
Present – unrepaired	IF	... it exists, was never repaired, or still requires active management
Unknown	IF	... there is insufficient information available from the participant or co-participant interview

3. Congenital heart disease — atrial septal defect	<input type="checkbox"/> 0 Absent <input type="checkbox"/> 1 Present — resolved <input type="checkbox"/> 2 Present — repaired <input type="checkbox"/> 3 Present — unrepaired <input type="checkbox"/> 9 Unknown
4. Congenital heart disease — ventricular septal defect	<input type="checkbox"/> 0 Absent <input type="checkbox"/> 1 Present — resolved <input type="checkbox"/> 2 Present — repaired <input type="checkbox"/> 3 Present — unrepaired <input type="checkbox"/> 9 Unknown
5. Congenital heart disease — atrioventricular (AV) canal defect	<input type="checkbox"/> 0 Absent <input type="checkbox"/> 1 Present — resolved <input type="checkbox"/> 2 Present — repaired <input type="checkbox"/> 3 Present — unrepaired <input type="checkbox"/> 9 Unknown
6. Congenital heart disease — tetralogy of Fallot	<input type="checkbox"/> 0 Absent <input type="checkbox"/> 1 Present — resolved <input type="checkbox"/> 2 Present — repaired <input type="checkbox"/> 3 Present — unrepaired <input type="checkbox"/> 9 Unknown
7. Congenital heart disease — other (SPECIFY): <hr/>	<input type="checkbox"/> 0 Absent <input type="checkbox"/> 1 Present — resolved <input type="checkbox"/> 2 Present — repaired <input type="checkbox"/> 3 Present — unrepaired <input type="checkbox"/> 9 Unknown

QUESTIONS 8 – 34: For the following questions, record the presence or absence of a history of these conditions at this visit, as determined by the clinician’s best judgment following the medical history interview with the participant and/or co-participant.

**A condition should be considered...**

Absent	IF	... it is not indicated by information obtained from the participant or co-participant interview
Recent/active	IF	... it happened within the last year or still requires active management and is consistent with information obtained from the participant and co-participant interview
Remote/inactive	IF	... it existed or occurred in the past (more than one year ago) but was resolved or there is no treatment currently under way
Unknown	IF	... there is insufficient information available from the participant or co-participant interview

8. Cardiovascular disease — hypotension	<input type="checkbox"/> 0 Absent <input type="checkbox"/> 1 Recent/active <input type="checkbox"/> 2 Remote/inactive <input type="checkbox"/> 9 Unknown
9. Cardiovascular disease — syncope	<input type="checkbox"/> 0 Absent <input type="checkbox"/> 1 Recent/active <input type="checkbox"/> 2 Remote/inactive <input type="checkbox"/> 9 Unknown
10. Pulmonary disease — pneumonia/aspiration	<input type="checkbox"/> 0 Absent <input type="checkbox"/> 1 Recent/active <input type="checkbox"/> 2 Remote/inactive <input type="checkbox"/> 9 Unknown
11. Hepatic conditions	<input type="checkbox"/> 1 Hepatitis B carrier <input type="checkbox"/> 2 Hepatitis B infected <input type="checkbox"/> 3 Hepatitis B immune <input type="checkbox"/> 4 Had hepatitis B vaccine <input type="checkbox"/> 9 Unknown

12. Dermatologic conditions — rosacea	<input type="checkbox"/> 0 Absent <input type="checkbox"/> 1 Recent/active <input type="checkbox"/> 2 Remote/inactive <input type="checkbox"/> 9 Unknown
13. Dermatologic conditions — alopecia	<input type="checkbox"/> 0 Absent <input type="checkbox"/> 1 Recent/active <input type="checkbox"/> 2 Remote/inactive <input type="checkbox"/> 9 Unknown
14. Dermatologic conditions — psoriasis	<input type="checkbox"/> 0 Absent <input type="checkbox"/> 1 Recent/active <input type="checkbox"/> 2 Remote/inactive <input type="checkbox"/> 9 Unknown
15. Musculoskeletal conditions — osteoporosis/osteopenia	<input type="checkbox"/> 0 Absent <input type="checkbox"/> 1 Recent/active <input type="checkbox"/> 2 Remote/inactive <input type="checkbox"/> 9 Unknown
16. Musculoskeletal conditions — gout	<input type="checkbox"/> 0 Absent <input type="checkbox"/> 1 Recent/active <input type="checkbox"/> 2 Remote/inactive <input type="checkbox"/> 9 Unknown
17. Musculoskeletal conditions — atlanto-axial subluxation	<input type="checkbox"/> 0 Absent <input type="checkbox"/> 1 Present <input type="checkbox"/> 9 Unknown
18. Musculoskeletal conditions — fractures in the past five years	<input type="checkbox"/> 0 No <input type="checkbox"/> 1 Yes (SPECIFY): _____ <input type="checkbox"/> 9 Unknown
19. Endocrine/metabolic conditions — hypothyroidism	<input type="checkbox"/> 0 Absent <input type="checkbox"/> 1 Recent/active <input type="checkbox"/> 2 Remote/inactive <input type="checkbox"/> 9 Unknown

20. Endocrine/metabolic conditions — Hashimoto's thyroiditis	<input type="checkbox"/> 0 Absent <input type="checkbox"/> 1 Recent/active <input type="checkbox"/> 2 Remote/inactive <input type="checkbox"/> 9 Unknown
21. Endocrine/metabolic conditions — hyperthyroidism	<input type="checkbox"/> 0 Absent <input type="checkbox"/> 1 Recent/active <input type="checkbox"/> 2 Remote/inactive <input type="checkbox"/> 9 Unknown
22. Endocrine/metabolic conditions — currently on thyroid replacement medication	<input type="checkbox"/> 0 No <input type="checkbox"/> 1 Yes (SPECIFY): _____ <input type="checkbox"/> 9 Unknown
23. Endocrine/metabolic conditions — vitamin D deficiency	<input type="checkbox"/> 0 Absent <input type="checkbox"/> 1 Recent/active <input type="checkbox"/> 2 Remote/inactive <input type="checkbox"/> 9 Unknown
24. Menstrual history — has the participant ever menstruated?	<input type="checkbox"/> 0 No <input type="checkbox"/> 1 Yes, active <input type="checkbox"/> 2 Yes, menopausal <input type="checkbox"/> 9 Unknown/not applicable
25. Menstrual history — age of onset of menses	_____ (777 = provided at previous visit; 888 = not applicable; 999 = unknown)
<p>QUESTION 25: If the exact age of the participant's onset of menses is unknown, ask the participant and/or co-participant to estimate. If s/he cannot estimate, enter <b>999=Unknown</b>. If provided at a previous visit, enter <b>777 = provided at previous visit</b>. If the participant has never menstruated, enter <b>888 = not applicable</b>.</p>	
26. Menstrual history — age of onset of menopause	_____ (777 = provided at previous visit; 888 = not applicable; 999 = unknown)
<p>QUESTION 26: If the exact age of the participant's onset of menopause is unknown, ask the participant and/or co-participant to estimate. If s/he cannot estimate, enter <b>999=Unknown</b>. If provided at a previous visit, enter <b>777 = provided at previous visit</b>. If the participant has never menstruated, enter <b>888 = not applicable</b>.</p>	

27. Hormone replacement therapy — has the participant received HRT?	<input type="checkbox"/> 0 No <input type="checkbox"/> 1 Yes <input type="checkbox"/> 9 Unknown
28. Hormone replacement therapy — at what age did HRT begin?	_____ (777 = provided at previous visit; 888 = not applicable; 999 = unknown)
<p>QUESTION 28: If the exact age that the participant began hormone replacement therapy is unknown, ask the participant and/or co-participant to estimate. If s/he cannot estimate, enter <b>999=Unknown</b>. If the participant did not receive hormone replacement therapy, enter <b>888=Not applicable</b>. If provided at a previous visit, enter <b>777 = provided at previous visit</b>.</p>	
29. Hormone replacement therapy — how many years has the participant been on HRT?	<input type="checkbox"/> 1 1 – 3 years <input type="checkbox"/> 2 4 – 6 years <input type="checkbox"/> 3 >6 years <input type="checkbox"/> 9 Unknown/not applicable
30. Gastrointestinal conditions — celiac disease	<input type="checkbox"/> 0 Absent <input type="checkbox"/> 1 Recent/active <input type="checkbox"/> 2 Remote/inactive <input type="checkbox"/> 9 Unknown
31. Hematopoietic/lymphatic disease — anemia with iron deficiency	<input type="checkbox"/> 0 Absent <input type="checkbox"/> 1 Recent/active <input type="checkbox"/> 2 Remote/inactive <input type="checkbox"/> 9 Unknown
32. Hematopoietic/lymphatic disease — anemia with folate deficiency	<input type="checkbox"/> 0 Absent <input type="checkbox"/> 1 Recent/active <input type="checkbox"/> 2 Remote/inactive <input type="checkbox"/> 9 Unknown
33. Autoimmune conditions — lupus	<input type="checkbox"/> 0 Absent <input type="checkbox"/> 1 Recent/active <input type="checkbox"/> 2 Remote/inactive <input type="checkbox"/> 9 Unknown



34. Autoimmune conditions — chronic neutropenia	<input type="checkbox"/> 0 Absent <input type="checkbox"/> 1 Recent/active <input type="checkbox"/> 2 Remote/inactive <input type="checkbox"/> 9 Unknown
35. Cancer — solid tumor	<input type="checkbox"/> 0 No <input type="checkbox"/> 1 Yes (SPECIFY PRIMARY SITE): _____ <input type="checkbox"/> 9 Unknown
36. Cancer — leukemia	<input type="checkbox"/> 0 No <input type="checkbox"/> 1 Yes, childhood transient myeloproliferative disorder <input type="checkbox"/> 2 Yes, childhood leukemia <input type="checkbox"/> 3 Yes, adult onset leukemia <input type="checkbox"/> 9 Unknown

QUESTIONS 37 – 44: For the following questions, if the exact year of the most recent surgical procedure is unknown, ask the participant and/or the co-participant to estimate. If s/he cannot estimate, enter **9999 = Unknown**. If year was entered at a previous visit, enter **7777 = provided at previous visit**.

37. Major surgical procedures — congenital heart-defect repair	<input type="checkbox"/> 0 No (SKIP TO QUESTION 38) <input type="checkbox"/> 1 Yes (SPECIFY): (CONTINUE) _____ <input type="checkbox"/> 9 Unknown (SKIP TO QUESTION 38)
37a. Year of most recent congenital heart-defect repair	____ ____ ____ ____ (7777 = provided at previous visit; 9999 = unknown)
38. Major surgical procedures — adult cardiac surgery	<input type="checkbox"/> 0 No (SKIP TO QUESTION 39) <input type="checkbox"/> 1 Yes (SPECIFY): (CONTINUE) _____ <input type="checkbox"/> 9 Unknown (SKIP TO QUESTION 39)
38a. Year of most recent adult cardiac surgery	____ ____ ____ ____ (7777 = provided at previous visit; 9999 = unknown)
39. Major surgical procedures — spinal surgery	<input type="checkbox"/> 0 No (SKIP TO QUESTION 40) <input type="checkbox"/> 1 Yes (SPECIFY): (CONTINUE) _____ <input type="checkbox"/> 9 Unknown (SKIP TO QUESTION 40)

39a. Year of most recent spinal surgery	____ _ (7777 = provided at previous visit; 9999 = unknown)
40. Major surgical procedures — lower-extremity orthopedic surgery	<input type="checkbox"/> 0 No ( <b>SKIP TO QUESTION 41</b> ) <input type="checkbox"/> 1 Yes (SPECIFY): ( <b>CONTINUE</b> ) _____ <input type="checkbox"/> 9 Unknown ( <b>SKIP TO QUESTION 41</b> )
40a. Year of most recent lower-extremity orthopedic surgery	____ _ (7777 = provided at previous visit; 9999 = unknown)
41. Major surgical procedures — upper-extremity orthopedic surgery	<input type="checkbox"/> 0 No ( <b>SKIP TO QUESTION 42</b> ) <input type="checkbox"/> 1 Yes (SPECIFY): ( <b>CONTINUE</b> ) _____ <input type="checkbox"/> 9 Unknown ( <b>SKIP TO QUESTION 42</b> )
41a. Year of most recent upper-extremity orthopedic surgery	____ _ (7777 = provided at previous visit; 9999 = unknown)
42. Major surgical procedures — thyroid surgery	<input type="checkbox"/> 0 No ( <b>SKIP TO QUESTION 43</b> ) <input type="checkbox"/> 1 Yes (SPECIFY): ( <b>CONTINUE</b> ) _____ <input type="checkbox"/> 9 Unknown ( <b>SKIP TO QUESTION 43</b> )
42a. Year of most recent thyroid surgery	____ _ (7777 = provided at previous visit; 9999 = unknown)
43. Major surgical procedures — oncology surgery	<input type="checkbox"/> 0 No ( <b>SKIP TO QUESTION 44</b> ) <input type="checkbox"/> 1 Yes (SPECIFY): ( <b>CONTINUE</b> ) _____ <input type="checkbox"/> 9 Unknown ( <b>SKIP TO QUESTION 44</b> )
43a. Year of most recent oncology surgery	____ _ (7777 = provided at previous visit; 9999 = unknown)
44. Major surgical procedures — other surgery	<input type="checkbox"/> 0 No ( <b>END FORM HERE</b> ) <input type="checkbox"/> 1 Yes (SPECIFY): ( <b>CONTINUE</b> ) _____ <input type="checkbox"/> 9 Unknown ( <b>END FORM HERE</b> )
44a. Year of most recent other surgery	____ _ (7777 = provided at previous visit; 9999 = unknown)

## Form B1D: NTG-EDSD

The NTG-Early Detection Screen for Dementia, adapted from the DSQIID\*, can be used for the early detection screening of those adults with an intellectual disability who are suspected of or may be showing early signs of mild cognitive impairment or dementia. The NTG-EDSD is not an assessment or diagnostic instrument, but an administrative screen that can be used by staff and family caregivers to note functional decline and health problems and record information useful for further assessment, as well as to serve as part of the mandatory cognitive assessment review that is part of the Affordable Care Act's annual wellness visit for Medicare recipients. This instrument complies with Action 2.B of the US National Plan to Address Alzheimer's Disease.

It is recommended that this instrument be used on an annual or as indicated basis with adults with Down syndrome beginning with age 40, and with other at-risk persons with intellectual or developmental disabilities when suspected of experiencing cognitive change. The form can be completed by anyone who is familiar with the adult (that is, has known him or her for over six months), such as a family member, agency support worker, or a behavioral or health specialist using information derived by observation or from the adult's personal record.

The estimated time necessary to complete this form is between 15 and 60 minutes. Some information can be drawn from the individual's medical/health record. Consult the NTG-EDSD Manual for additional instructions ([www.aadmd.org/ntg/screening](http://www.aadmd.org/ntg/screening)).



# NTG-EDSD

(7) Sex:

<input type="checkbox"/>	Female
<input type="checkbox"/>	Male

(8) Best description of intellectual disability

<input type="checkbox"/>	No discernible intellectual disability
<input type="checkbox"/>	Borderline (IQ 70-75)
<input type="checkbox"/>	Mild ID (IQ 55-69)
<input type="checkbox"/>	Moderate ID (IQ 40-54)
<input type="checkbox"/>	Severe ID (IQ 25-39)
<input type="checkbox"/>	Profound ID (IQ 24 and below)
<input type="checkbox"/>	Unknown

(9) Diagnosed condition (*check all that apply*)

<input type="checkbox"/>	Autism
<input type="checkbox"/>	Cerebral palsy
<input type="checkbox"/>	Down syndrome
<input type="checkbox"/>	Fragile X syndrome
<input type="checkbox"/>	Intellectual disability
<input type="checkbox"/>	Prader-Willi syndrome
<input type="checkbox"/>	Other:

### Instructions:

**For each question block, check the item that best applies to the individual or situation.**

### Current living arrangement of person:

- ☐ Lives alone
- ☐ Lives with spouse or friends
- ☐ Lives with parents or other family members
- ☐ Lives with paid caregiver
- ☐ Lives in community group home, apartment, supervised housing, etc.
- ☐ Lives in senior housing
- ☐ Lives congregate residential setting
- ☐ Lives in long term care facility
- ☐ Lives in other: \_\_\_\_\_

<sup>(10)</sup> General characteristics of current physical health:

	Excellent
	Very good
	Good
	Fair
	Poor

<sup>(11)</sup> Compared to one year ago, current physical health is:

	Much better
	Somewhat better
	About the same
	Somewhat worse
	Much worse

<sup>(12)</sup> Compared to one year ago, current mental health is:

	Much better
	Somewhat better
	About the same
	Somewhat worse
	Much worse

<sup>(13)</sup> Conditions present (*check all that apply*)

	Vision impairment
	Blind (very limited or no vision)
	Vision corrected by glasses
	Hearing impairment
	Deaf (very limited or no hearing)
	Hearing corrected by hearing aids
	Mobility impairment
	Not mobile — uses wheelchair
	Not mobile — is moved about in wheelchair

<sup>(14)</sup> Significant recent [in past year] life event (*check all that apply*)

	Death of someone close
	Changes in living arrangement, work, or day program
	Changes in staff close to the person
	New roommate/housemates
	Illness or impairment due to accident
	Adverse reaction to medication or over-medication
	Interpersonal conflicts
	Victimization / abuse
	Other:

<sup>(15)</sup> Seizures

	Recent onset seizures
	Long term occurrence of seizures
	Seizures in childhood, not occurring in adulthood
	No history of seizures

If MCI or dementia is documented, complete 16, 17, & 18

<sup>(16)</sup> **Diagnostic History**

Mild cognitive impairment [MCI] or dementia previously diagnosed (Dx)?

[ ] No

[ ] Yes, MCI

Date of Dx:

[ ] Yes, dementia

Date of Dx:

Type of dementia:

Diagnosed by:

☐ Geriatrician

☐ Neurologist

☐ Physician

☐ Psychiatrist

☐ Psychologist

☐ Other:

<sup>(17)</sup> **Reported date of onset of MCI/dementia**

[When suspicion of dementia first arose]

Note approximate year and month:

<sup>(18)</sup> **Comments / explanations about dementia suspicions:**

**“Always has been the case”** means the need, problem, or behavior has been present for a very long time.

**“Always but worse”** means the existing need, problem, or behavior has further declined, requiring more personal assistance.

**“New symptom in past year”** means this need, problem, or behavior was not present until recently.

**“Does not apply”** means these needs, problems, or behaviors are not present.

[Check column option as appropriate]

	Always been the case	Always but worse	New symptom in past year	Does not apply
<b>(19) Activities of Daily Living</b>				
Needs help with washing and/or bathing				
Needs help with dressing				
Dresses inappropriately (e.g., back to front, incomplete, inadequately for weather)				
Undresses inappropriately (e.g., in public)				
Needs help eating (cutting food, mouthful amounts, choking)				
Needs help using the bathroom (finding, toileting)				
Incontinent (including occasional accidents)				
<b>(20) Language &amp; Communication</b>				
Does not initiate conversation				
Does not find words				
Does not follow simple instructions				
Appears to get lost in middle of conversation				
Does not read				
Does not write (including printing own name)				
<b>(21) Sleep-Wake Change Patterns</b>				
Excessive sleep (sleeping more)				
Inadequate sleep (sleeping less)				
Wakes frequently at night				
Confused at night				
Sleeps during the day more than usual				
Wanders at night				
Wakes earlier than usual				
Sleeps later than usual				
<b>(22) Ambulation</b>				
Not confident walking over small cracks, lines on the ground, patterned flooring, or uneven surfaces				
Unsteady walk, loses balance				
Falls				
Requires aids to walk				

	Always been the case	Always but worse	New symptom in past year	Does not apply
<sup>(23)</sup> <b>Memory</b>				
Does not recognize familiar persons (staff/relatives/friends)				
Does not remember names of familiar people				
Does not remember recent events (in past week or less)				
Does not find way in familiar surroundings				
Loses track of time (time of day, day of the week, seasons)				
Loses or misplaces objects				
Puts familiar things in wrong places				
Problems with printing or signing own name				
Problems with learning new tasks or names of new people				
<sup>(24)</sup> <b>Behavior and affect</b>				
Wanders				
Withdraws from social activities				
Withdraws from people				
Loss of interest in hobbies and activities				
Seems to go into own world				
Obsessive or repetitive behavior				
Hides or hoards objects				
Does not know what to do with familiar objects				
Increased impulsivity (touching others, arguing, taking things)				
Appears uncertain, lacks confidence				
Appears anxious, agitated, or nervous				
Appears depressed				
Shows verbal aggression				
Shows physical aggression				
Temper tantrums, uncontrollable crying, shouting				
Shows lethargy or listlessness				
Talks to self				
<sup>(25)</sup> <b>Adult's Self-reported Problems</b>				
Changes in ability to do things				
Hearing things				
Seeing things				
Changes in 'thinking'				
Changes in interests				
Changes in memory				
<sup>(26)</sup> <b>Notable Significant Changes Observed by Others</b>				
In gait (e.g., stumbling, falling, unsteadiness)				
In personality (e.g., subdued when was outgoing)				
In friendliness (e.g., now socially unresponsive)				
In attentiveness (e.g., misses cues, distracted)				
In weight (e.g., weight loss or weight gain)				
In abnormal voluntary movements (head, neck, limbs, trunk)				

[Check column option as appropriate]

	(27) Chronic Health Conditions*	Recent condition (past year)	Condition diagnosed in last 5 years	Lifelong condition	Condition not present
	<b>Bone, Joint, and Muscle</b>				
1	Arthritis				
2	Osteoporosis				
	<b>Heart and Circulation</b>				
3	Heart condition				
4	High cholesterol				
5	High blood pressure				
6	Low blood pressure				
7	Stroke				
	<b>Hormonal</b>				
8	Diabetes (type 1 or 2)				
9	Thyroid disorder				
	<b>Lungs/breathing</b>				
10	Asthma				
11	Chronic bronchitis, emphysema				
12	Sleep disorder				
	<b>Mental Health</b>				
13	Alcohol or substance abuse				
14	Anxiety disorder				
15	Attention deficit disorder				
16	Bipolar disorder				
17	Dementia/Alzheimer's disease				
18	Depression				
19	Eating disorder (anorexia, bulimia)				
20	Obsessive-compulsive disorder				
21	Schizophrenia				
22	Other:				
	<b>Pain / Discomfort</b>				
23	Back pain				
24	Constipation				
25	Foot pain				
26	Gastrointestinal pain or discomfort				
27	Headaches				
28	Hip/knee pain				
29	Neck/shoulder pain				
	<b>Sensory</b>				
30	Dizziness / vertigo				
31	Impaired hearing				
32	Impaired vision				
	<b>Other</b>				
33	Cancer — type:				
34	Chronic fatigue				
35	Epilepsy / seizure disorder				
36	Heartburn / acid reflux				
37	Urinary incontinence				
38	Sleep apnea				
39	Tics/movement disorder/spasticity				
40	Dental pain				

\*Items drawn from the Longitudinal Health and Intellectual Disability Survey (University of Illinois at Chicago)

(28) **Current Medications**

**Yes      No      Indicate type**

- |                          |                          |                                                           |
|--------------------------|--------------------------|-----------------------------------------------------------|
| <input type="checkbox"/> | <input type="checkbox"/> | Treatment of chronic conditions                           |
| <input type="checkbox"/> | <input type="checkbox"/> | Treatment of mental health disorders or behavior problems |
| <input type="checkbox"/> | <input type="checkbox"/> | Treatment of pain                                         |

For reviews, attach list of current medications, dosage, and when prescribed

- ☐ List is attached for reviews

(29) **Comments related to other notable changes or concerns:**

(30) **Next Steps / Recommendations**

- ☐ Refer to treating physician for assessment
- ☐ Review internally by clinical personnel
- ☐ Include in annual review / annual wellness visit
- ☐ Repeat in \_\_\_\_\_ months

Acknowledgment: Derived from the DSQIID (\*Dementia Screening Questionnaire for Individuals with Intellectual Disabilities; Deb, S., 2007) as adapted into the Southeast PA Dementia Screening Tool (DST) – with the assistance of Carl V. Tyler, Jr., MD – and the LHIDS (Longitudinal Health and Intellectual Disability Survey; Rimmer & Hsieh, 2010) and as further adapted by the National Task Group on Intellectual Disabilities and Dementia Practices as the NTG Early Detection Screen for Dementia for use in the USA.

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[www.aadmd.org/ntg/screening](http://www.aadmd.org/ntg/screening)

National Task Group on Intellectual Disabilities and Dementia Practices



# Form B2D: DLD Summary Page

The Dementia Questionnaire for People with Learning Disabilities (DLD) must be purchased from Pearson UK:  
<https://www.pearsonclinical.co.uk/store/ukassessments/en/Store/Professional-Assessments/Cognition-%26-Neuro/Dementia-Questionnaire-for-People-with-Learning-Disabilities/p/P100009213.html>

The DLD is a Qualification Level B assessment and may be purchased by individuals meeting one of Pearson's qualification requirements. Further information about assessment qualification codes can be found at <https://www.pearsonclinical.co.uk/ordering/how-to-order/qualifications/qualifications-policy.html>

Purchases on behalf of a qualified user should follow the guidance at <https://www.pearsonclinical.co.uk/ordering/how-to-order/qualifications/purchasing-on-behalf-of-a-qualified-user.html>

Ordering questions should be directed to Pearson UK (<https://www.pearsonclinical.co.uk/contact-us.html>).

## Summary: Dementia Questionnaire for People With Learning Disabilities

Category ➔	1	2	3	4	5	6	7	8
Totals ↓	Short-term memory	Long-term memory	Spatial & temporal orientation	Speech	Practical skills	Mood	Activity & interest	Behavioral disturbance
Page 2					X	X	X	X
Page 3	X			X		X		
Page 4		X				X		
Page 5		X	X			X		X
Page 6					X	X		
Page 7		X	X	X	X			
Page 8	X			X			X	
Page 9	X			X	X		X	X
Page 10	X	X	X	X			X	X
Category total								

SCS = Sum of cognitive scores (1 – 3):

SOS = Sum of social scores (4 – 8):

# Form C1D: Neuropsychological Battery Scores

**INSTRUCTIONS:** This form should be completed by ADRC or clinic staff.

**KEY:** If the subject cannot complete any of the following exams, please give the reason by entering one of the following codes:  
95 = Physical problem; 96 = Cognitive/behavior problem; 97 = Other problem; 98 = Verbal refusal

1. Down Syndrome Mental Status Examination (DSMSE)			
1. Was any part of the DSMSE administered?			
0 <input type="checkbox"/> No (If No, enter reason code, 95 – 98: ____ and <b>SKIP TO QUESTION 2</b> )			
1 <input type="checkbox"/> Yes (If Yes, <b>CONTINUE</b> )			
			<b>TOTALS</b>
Personal information IA+IIIA+IIIB 1a1. ____ (0 – 7; 8=Not assessed)			1b2. ____ (0 – 11; 88=Not assessed)
Season/day IIIC+IIID 1b1. ____ (0 – 4; 8=Not assessed)			(1a1 + 1b1)
<b>Shoobox Memory</b>			
Object IIA	Immediate 1c1. ____ (0 – 9; 88=Not assessed)	VA Delay 1c2. ____ (0 – 9; 88=Not assessed)	1c3. ____ (0 – 18; 88=Not assessed) (1c1 + 1c2)
<b>Memory</b>			
Place VIIA	Immediate 1d1. ____ (0 – 3; 8=Not assessed)	XA Delay 1d2. ____ (0 – 3; 8=Not assessed)	1d3. ____ (0 – 6; 8=Not assessed) (1d1 + 1d2)
<b>Apraxia</b>			
Intransitive XIA	1e1. ____ (0 – 2; 8=Not assessed)		1e3. ____ . ____ (0.0 – 4.0; 8.8=Not assessed) (1e1 + 1e2)
Transitive XIB	1e2. ____ . ____ (0.0 – 2.0; 8.8=Not assessed)		
<b>Language</b>			
Naming VIA+VIIIA	1f1. ____ (0 – 11; 88=Not assessed)		1f4. ____ . ____ (0.0 – 53; 88.8=Not assessed) (1f1 + 1f2 + 1f3)
Repetitions IVA	1f2. ____ (0 – 30; 88=Not assessed)		
Comprehension VIB	1f3. ____ . ____ (0.0 – 12; 88.8=Not assessed)		
<b>Visuospatial</b>			
IXA+IXB	1g1. ____ . ____ (0.0 – 8.0; 8.8=Not assessed)		1g2. ____ . ____ (0.0 – 8.0; 8.8=Not assessed)

1. Down Syndrome Mental Status Examination (DSMSE)	
Knowledge of the Examiner	
IIIE+IIIF 1h1. ____ (0 – 3; 8=Not assessed)	1h2. ____ (0 – 3; 8= Not assessed)
DSMSE TOTAL SCORE:	TOTAL SCORE:
	1i1. ____ . ____ (0.0 – 103.0; 995.0 – 998.0)

2. Cued Recall Task (whole integer range)																										
2a. Was any part of the Cued Recall Task administered?																										
0 <input type="checkbox"/> No (If No, enter reason code, 95 – 98: ____ and <b>SKIP TO QUESTION 3</b> ) 1 <input type="checkbox"/> Yes (If Yes, <b>CONTINUE</b> )																										
2b. Indicate which cue card set was used:																										
1 <input type="checkbox"/> Version 1 (Set A) 2 <input type="checkbox"/> Version 2 (Set B) (NOTE: Set B no longer used by ABC-DS. See Down Syndrome Module neuropsychological battery instructions.)																										
2c. Training trial																										
	<table border="1"> <thead> <tr> <th></th> <th>TRIAL 1</th> <th>TRIAL 2</th> <th>TRIAL 3</th> </tr> </thead> <tbody> <tr> <td>Card 1</td> <td>2c1. ____ (0 – 4)</td> <td>2c4. ____ (0 – 4)</td> <td>2c7. ____ (0 – 4)</td> </tr> <tr> <td>Card 2</td> <td>2c2. ____ (0 – 4)</td> <td>2c5. ____ (0 – 4)</td> <td>2c8. ____ (0 – 4)</td> </tr> <tr> <td>Card 3</td> <td>2c3. ____ (0 – 4)</td> <td>2c6. ____ (0 – 4)</td> <td>2c9. ____ (0 – 4)</td> </tr> </tbody> </table>		TRIAL 1	TRIAL 2	TRIAL 3	Card 1	2c1. ____ (0 – 4)	2c4. ____ (0 – 4)	2c7. ____ (0 – 4)	Card 2	2c2. ____ (0 – 4)	2c5. ____ (0 – 4)	2c8. ____ (0 – 4)	Card 3	2c3. ____ (0 – 4)	2c6. ____ (0 – 4)	2c9. ____ (0 – 4)									
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Card 1	2c1. ____ (0 – 4)	2c4. ____ (0 – 4)	2c7. ____ (0 – 4)																							
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2d. Test trials																										
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	FREE RECALL	INTRUSIONS TO FR	CUED RECALL	INTRUSIONS TO CR																						
Trial 1	2d1. ____ (0 – 12)	2d2. ____ (no limit)	2d3. ____ (0 – 12)	2d4. ____ (no limit)																						
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TOTAL SCORE	2d13. ____ (0 – 36)	2d14. ____ (no limit)	2d15. ____ (0 – 36)	2d16. ____ (no limit)																						

3. Appraisal of participant engagement				
Select the best description of the participant's behavior during each test:				
	COOPERATIVE AND ENGAGED	COOPERATIVE BUT DISTRACTED	UNCOOPERATIVE	NOT ADMINISTERED
3a. DSMSE	1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>	9 <input type="checkbox"/>
3b. Cued Recall Task	1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>	9 <input type="checkbox"/>

# Form D1D: Clinician Exam and Diagnosis

INSTRUCTIONS: This form is to be completed by the clinician. Check only one box per question.

1. Head circumference	_____ cm (777 = provided at previous visit; 999 = Not assessed)
<p>QUESTION 1: Measure the largest possible circumference — from the most prominent part of the forehead (often 1 – 2 fingers above the eyebrow) around to the widest part of the back of the head. If head circumference cannot be measured (e.g., if participant is uncooperative), enter <b>888=Not assessed</b>. If provided at a previous visit, enter <b>777 = provided at previous visit</b>.</p>	
<p>QUESTIONS 2 – 4, below: For individuals with Down syndrome, individual primitive reflexes may be present throughout the lifespan with or without the presence of dementia. However, individuals with Down syndrome who have dementia tend to show a larger aggregate of these primitive reflexes.</p> <p>DEFINITIONS:</p> <p><b>Palmar grasp:</b> Examiner's finger placed between participant's thumb and fifth digit causes participant's fingers to close reflexively.</p> <p><b>Snout:</b> Moderate tap to the philtrum results in pursing or pouting of the lips.</p> <p><b>Rooting:</b> When examiner touches corner of participant's mouth, participant's head moves in that direction.</p>	
2. Pathological reflexes — palmar grasp	<input type="checkbox"/> 1 Absent <input type="checkbox"/> 2 Present <input type="checkbox"/> 9 Unknown/not assessed
3. Pathological reflexes — snout	<input type="checkbox"/> 1 Absent <input type="checkbox"/> 2 Present <input type="checkbox"/> 9 Unknown/not assessed
4. Pathological reflexes — rooting	<input type="checkbox"/> 1 Absent <input type="checkbox"/> 2 Present <input type="checkbox"/> 9 Unknown/not assessed
5. What is the participant's chromosome diagnosis?	<input type="checkbox"/> 1 Trisomy 21 <input type="checkbox"/> 2 Translocation DS <input type="checkbox"/> 3 Mosaic DS <input type="checkbox"/> 9 Unknown/not assessed

6. What is the participant's cognitive status?

- ☐ 1 Cognitively stable  
☐ 2 MCI-DS  
☐ 3 Dementia  
☐ 9 Unable to determine

#### QUESTION 6: Recommended guidelines for case consensus process

##### OVERVIEW

Determination of overall Alzheimer's disease (AD)-related clinical status is based on overall profile of performance on the directly administered neuropsychological measures and caregiver-reported measures of dementia symptoms, combined with clinical judgment and in consideration of baseline IQ, medical/psychiatric history, neurological exam, and recent life events. All available time points of data (i.e., previous study visits) are reviewed in this process.

##### Weighing available information:

Consensus Summary Table

AREA	SOURCE		
	Caregiver report	Cognitive scores	Other*
Memory			
Non-memory, cognitive			
Emotional/behavioral			
Functional behavior			

**Instructions:** For each source and area, enter the appropriate value:

0 = No concerns about decline/change

1 = Mild or inconsistent concerns about decline/change

2 = Moderate/consistent concerns about decline/change

*Shaded boxes indicate that there are no scores in this area from that source.*

*\*(e.g., neuro exam, research team observations)*

##### INTERPRETING THE DATA

Information to be used in the determination of diagnostic status will be primarily from the caregiver report and from direct testing/observation of the participant. But there also may be other sources of information, such as a report from a local neurologist who has given the participant an MCI or dementia diagnosis and review of medical records. The Down Syndrome Module Working Group ("Working Group") suggests organizing the information using the above table. As there aren't well-normed tests for adults with Down syndrome, it can be difficult to make a diagnosis of MCI-DS or dementia following a single visit. A key to interpreting any data is to know the individual's level of functioning and/or premorbid IQ (or prior functioning for those who come with concerns regarding possible dementia).

**Interpreting individual measures:** The Working Group strives towards using the same evaluators and the same caregivers for all visits. If that is not the case (especially if the caregiver is different), the team may need to wait for data from a subsequent visit before agreeing on an MCI-DS or dementia diagnosis (depending upon how reliable

the new information is judged). A second challenge in the interpretation of symptoms involves situations where there has been a worsening of performance, but this has occurred in the context of significant environmental changes (e.g., moving to a different home, death of a parent, a major medical issue). In such cases, it may be best to use the “unable to determine” diagnostic category until the participant is seen again.

Although the Working Group provides guidelines for interpreting performance, it should be noted that determination of consensus diagnosis is based on clinical judgment and the overall pattern of findings across measures (think of it as a gestalt interpretation) rather than through the use of cut-off scores or a single measure.

- a) **Dementia Questionnaire for People with Learning Disabilities (DLD):** The initial studies by measure authors of the DLD have suggested that a change of  $>7$  points on the Sum of Cognitive Scores (SCS) and a change of  $>5$  points on the Sum of Social Scores (SOS) are associated with a diagnosis of dementia.<sup>1</sup> Individuals functioning in the moderate to severe ranges of ID will likely have high DLD scores at baseline. Change in both the SCS and SOS have previously found to correspond to MCI and dementia status in Down syndrome,<sup>2</sup> with evidence that change in SCS may occur first.<sup>3</sup> However, as the DLD manual indicates sensitivity and specificity are imperfect for these diagnostic criteria, DLD findings need to be interpreted in the context of other evidence (e.g., change should be compared with change noted in other measures).
- b) **The Neuropsychiatric Inventory Questionnaire (NPI-Q):** The NPI assesses 13 neuropsychiatric areas, which are scored as “not present” and as mild/moderate/severe if present. There is a total score ranging from 0 to 36 points. The emergence of new concerns or increases in the severity of existing neuropsychiatric problems may occur with MCI or dementia, but can also be due to other factors.
- c) **NTG Early Detection Screen for Dementia (NTG):** The original data on the NTG suggested that  $\geq 20$  areas of worsening symptoms were suggestive of dementia in adults with DS. No data was available on MCI-DS. Hence, individuals with MCI-DS are generally expected to have  $>9$  and  $<20$  areas of worsening symptoms. Having one or more concern in the language or memory domain had good sensitivity and specificity for MCI-DS.
- d) **Neuropsychological measures:** The DSMSE Total provides a summary mental status score (as well as specific scores on areas such as memory, visual-spatial, etc). This measure tends to be stable across time while individuals are Cognitively Stable.<sup>4</sup> Additionally, the Working Group’s research to date suggests that episodic memory (Cued Recall) is the most sensitive measure for early MCI-DS and dementia.<sup>4-8</sup>

### Recommendations for how to approach a diagnostic decision

1. Review the available data in each area using the **Consensus Conference Form**. If data from only a single visit is available, use premorbid level of functioning or IQ to determine if any of the neuropsychological and caregiver measures are consistent with that level. If there are multiple visits, look for significant change.
  - **Memory:** DLD (memory subscales), NTG (memory items), Cued Recall and DSMSE (memory items), NPI, notes from staff (e.g., participant no longer seemed to remember any of the staff at the hospital), notes from neuro exam.
  - **Non-memory, cognitive:** DLD, NTG, NPI (psychomotor)
  - **Emotional/behavioral:** NTG (behavioral Items), NPI, notes from staff (e.g., participant frequently refused to comply, tearful) and from neuro exam.

- **Functional:** NTG (activities of daily living items), NPI, notes from staff and neuro exam
2. Complete the **Consensus Summary Table**, indicating which source is identifying concerns (“0” for no concerns, “1” for mild or inconsistent concerns, and “2” for moderate/consistent concerns). Some rules of thumb are:
    - Consider whether changes may be due to major environmental changes (moving, death of parent) or a major illness (see NTG for checklist of recent life stressful events).
    - For MCI-DS, problems are expected in memory and/or non-memory, cognitive domains that could impact other areas (e.g., emotional/behavioral or adaptive/functional). If neuro-psychological test results indicate that a participant has improved or stayed the same as baseline in a number of areas, it would be difficult to justify an MCI-DS diagnosis.
    - For dementia, “2”-level concerns in multiple areas and across sources are expected. For example, changes in memory and non-memory, cognitive domains on directly administered neuropsychological assessment are expected, as well as declines in adaptive and functional behavior reported by caregivers.
    - There will be cases where the caregiver reports no concerns but the neuropsych testing shows a decline. It is possible that the participant was tired or just had a difficult time with the testing. In these cases, it will be important to consider anything that may have impacted testing. All aspects of data should be considered in making the rating.

#### References:

1. Evenhuis HM. Further evaluation of the Dementia Questionnaire for Persons with Mental Retardation (DMR). *J Intellect Disabil Res.* 1996;40(4):369-373. doi:10.1111/j.1365-2788.1996.tb00642.x
2. Startin CM, Lowe B, Hamburg S, et al. Validating the cognitive scale for down syndrome (CS-DS) to detect longitudinal cognitive decline in adults with down syndrome. *Front Psychiatry.* 2019;10(APR):158. doi:10.3389/fpsyt.2019.00158
3. Firth NC, Startin CM, Hithersay R, et al. Aging related cognitive changes associated with Alzheimer’s disease in Down syndrome. *Ann Clin Transl Neurol.* 2018;5(6):741-751. doi:10.1002/acn3.571
4. Krinsky-McHale SJ, Zigman WB, Lee JH, et al. Promising outcome measures of early Alzheimer’s dementia in adults with Down syndrome. *Alzheimer’s Dement Diagnosis, Assess Dis Monit.* 2020;12(1):1-11. doi:10.1002/dad2.12044
5. Devenny DA, Zimmerli EJ, Kittler P, Krinsky-McHale SJ. Cued recall in early-stage dementia in adults with Down’s syndrome. *J Intellect Disabil Res.* 2002;46(6):472-483. doi:10.1046/j.1365-2788.2002.00417.x
6. Hartley SL, Handen BL, Devenny DA, et al. Cognitive functioning in relation to brain amyloid- $\beta$  in healthy adults with Down syndrome. *Brain.* 2014;137(9):2556-2563. doi:10.1093/brain/awu173
7. Hartley SL, Handen BL, Devenny D, et al. Cognitive decline and brain amyloid- $\beta$  accumulation across 3 years in adults with Down syndrome. *Neurobiol Aging.* 2017;58:68-76. doi:10.1016/j.neurobiolaging.2017.05.019
8. Hartley SL, Handen BL, Devenny D, et al. Cognitive Indicators of Transition to Preclinical and Prodromal Stages of Alzheimer’s Disease in Down Syndrome. *Alzheimer’s and Dementia. Alzheimer’s Dement Diagnosis, Assessment, Dis Monit.* Published online 2020. doi:10.1002/dad2.12096

Subject ID: \_\_\_\_\_

Consensus conference date: \_\_\_\_\_

Sex: \_\_\_\_\_ YOB: \_\_\_\_\_

Age V1: \_\_\_\_\_ Age V2: \_\_\_\_\_ Age V3: \_\_\_\_\_

IQ: \_\_\_\_\_ Test: \_\_\_\_\_

Date administered: \_\_\_\_\_

Level of intellectual disability: \_\_\_\_\_

# Consensus conference form

## CONSENSUS CONFERENCE DECISIONS

	CCD primary	Date	CCD secondary	Date
Visit 1				
Visit 2				
Visit 3				

### Consensus conference decision (CCD)

0 = Cognitively stable

1 = Mild cognitive impairment-DS

2 = Possible dementia

3 = Definite dementia

4 = Status uncertain (complications)

5 = Indeterminable

6 = Decision on hold

### Differential diagnosis (DDx)

1 = AD (possible)

2 = AD (probable)

3 = Mixed AD

4 = Vascular dementia

5 = Parkinson's dementia

6 = Other dementia

7 = Unknown

### Participants with CCD 2 or 3:

DDx: \_\_\_\_\_

### ALL participants:

Age @ 1st concern: \_\_\_\_\_

Age @ MD Dx: \_\_\_\_\_

## NEUROPSYCHOLOGICAL BATTERY

Visit 1 date: \_\_\_\_\_ Visit 2 date: \_\_\_\_\_ Visit 3 date: \_\_\_\_\_

### Down Syndrome Mental Status Examination

	Total score 1	Total score 2	Participant engagement
Visit 1			
Visit 2			
Visit 3			

Min – max: (0 – 81) (0 – 103)

### Cued Recall Task — Immediate

Totals:	Free recall	Intrusions to free recall	Cued recall	Intrusions to cued recall	Participant engagement
Visit 1					
Visit 2					
Visit 3					

Min – max: (0 – 36) (0 – 36)



## INFORMANT QUESTIONNAIRES

**Visit 1 date:** \_\_\_\_\_ **Visit 2 date:** \_\_\_\_\_ **Visit 3 date:** \_\_\_\_\_

### Dementia Questionnaire for People with Learning Disabilities (DLD)

	DLD total	DLD SCS	DLD SOS
<b>Visit 1</b>			
<b>Visit 2</b>			
<b>Visit 3</b>			

Min – Max: (0 – 104) (0 – 44) (0 – 60)

### NTG — Early Detection Screen for Dementia

		Visit 1	Visit 2	Visit 3
Category	Min – Max	Number of concerns per category		
Activities of daily living	0 – 7			
Language and communication	0 – 6			
Sleep-wake change pattern	0 – 8			
Ambulation	0 – 4			
Memory	0 – 9			
Behavior and affect	0 – 17			
Adult's self-reported problems	0 – 6			
Significant changes observed by others	0 – 6			
Total score	0 – 63			

## CONSENSUS CONFERENCE COMMENTS

### Visit 1 Conference

**Conference date(s):** \_\_\_\_\_

**Notes:**

### Visit 2 Conference

**Conference date(s):** \_\_\_\_\_

**Notes:**

### Visit 3 Conference

**Conference date(s):** \_\_\_\_\_

**Notes:**