

Hasegawa's Dementia Scale - Revised (HDS-R): Questionnaire Sheet

Question	Answer	Score
1. "How old are you?"	_____	0 1
2. "What day is today?"	Sun/Mon/Tue/Wed/Thu/Fri/Sat	0 1
"What is the day, today?"	_____	0 1
"What is the month, today?"	_____	0 1
"What is the year, today?"	_____	0 1
3. "What is this place?"	_____	2
"Is this a hospital? Clinic? Health center? Office? Your house?"		0 1
4. "Please, repeat following three words."		
Pronounce three words of A or B.	a) _____	0 1
A: a) padauk tree, b) cat, c) bullock cart	b) _____	0 1
B: a) tamarind tree, b) dog, c) car	c) _____	0 1
"I will ask you the three words later. So, please memorize the three words."		
5. "What is the answer of subtraction of 7 from 100?"	_____	0 1
"What is the answer of subtraction of 7 from the value?"	_____	0 1
6. "Please, repeat the numbers backwards. For example, 3-2-1 for 1-2-3."		
"Please, repeat 6-8-2 backwards." (If failed, go to Question 7.)	_____	0 1
"Please, repeat 3-5-2-9 backwards."	_____	0 1
7. "Please, recall the 3 words you memorized before."		
"One was a plant, wasn't it?"	a) _____	0 1 2
"Another was an animal, wasn't it?"	b) _____	0 1 2
"The last was a vehicle, wasn't it?"	c) _____	0 1 2
8. "I will show you 5 objects, then take them back. Please, say what it is."		0 1 2
a)_____ b)_____ c)_____ d)_____ e)_____		3 4 5
9. "Please, name 10 vegetables that come to mind."		
a)_____ b)_____ c)_____ d)_____ e)_____		0 1 2
f)_____ g)_____ h)_____ i)_____ j)_____		3 4 5
Total score		/30

General rules

1. When examinee cannot respond the question within 10 seconds, move to the next question.
2. When examinee has ear problems, questions can be repeated twice in a clear slow pronunciation.

**Question 1 [Age]**

Give one point to the answer within a deviation of 2 years from the true age.

**Question 2 [Orientation in time]**

The examiner may ask the date or day, month, and year one by one. Give one point to each correct answer.

**Question 3 [Orientation in place]**

Give two points to a spontaneous correct answer. It is judged to be correct if the examinee substantially understand where he/she is. There is no need to answer the exact name of and address of hospital, clinic, health center, office, or his/her house. If a correct answer cannot be gotten, ask the examinee 10 seconds later: "Is this a hospital, clinic, health center, office, or your house?" Give one point to a correct answer.

**Question 4 [Repeating 3 words]**

Pronounce the three words slowly. Then, ask the examinee to repeat them. Give one point to each correctly repeated word.

If the words cannot be correctly repeated, pronounce the words at maximum three times, and ask the examinee to memorize it. But, if this process ends up with a failure, remove the word(s) in Question 7.

**Question 5 [Serial subtractions of 7s]**

If the answer of the first question is correct, give one point, and proceed to the second question. If the first answer is incorrect, discontinue this question, and proceed to Question 6. In the second question, do not repeat the correct answer of the first question, such as "subtraction of 7 from 93". If the answer is correct, give one point to it.

**Question 6 [Digits backward]**

After demonstration of the example, pronounce 3 digits, 6-8-2, slowly at intervals of one second. Then, ask the subject to repeat them backward. If the examinee can do this correctly, give one point, and proceed to the next 4 digits backward repeat. If this ends up with a failure, discontinue this question, and proceed to Question 7. Second, pronounce 4 digits, 3-5-2-9, in the same manner as above. After that, ask the subject to repeat them backward. If the subject can do this correctly, give one point to the success.

**Question 7 [Recalling of 3 words]**

Recalling 3 words in Question 4. Give two points to each spontaneous answer. If the examinee cannot well recall words, give the examinee a hint as “plant”, “an animal”, and “a vehicle” after 10 seconds. Do not convey two or more hints at a time; instead, convey them one by one confirming the examinee’s response. For example, if the examinee cannot remember both “padauk tree” and “bullock cart”, say to him/her, “one was a plant, wasn’t it?” If he/she can correctly recall “padauk tree”, give one point to the success. Shortly after, convey a hint to examinee saying, “the other was a vehicle, wasn’t it?” If he/she can correctly reproduce “bull cart”, give one point to the success.

**Question 8 [Recalling 5 objects]**

The pictures of five objects on one sheet are used. They are optional, but must be unrelated common objects as in a combination of a watch, a key, a cigarette, a ballpoint pen and money. Show the five objects calling their names, and take them back. Then ask for recall. Give one point to each correct answer, regardless of the order recall.

**Question 9 [Generating vegetables]**

List the names of the vegetables the examinee recalls. Do not count duplicated answers, but continue to ask until 10 different vegetables are stated. Since this question is intended to observe generating fluency, discontinue the question if the examinees cannot recall another name of vegetables for 10 seconds. Give 0 point to 0-5 name(s), then give one point to each for each name after the 5th one. For example, 8 names are 3 points.