



# HAQ

## HEALTH ASSESSMENT QUESTIONNAIRE

Version 1.0

## Scaling and Scoring

Version 4.1: September 2024

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## I. Scaling

The HAQ is composed of 9 items investigating 2 domains.

Domains	Number of Items	Cluster of Items	Item reversion	Direction of Domains
Disability <sup>i</sup>	8	Dressing (DRESSNEW), Arising (RISENEW), Eating (EATNEW), Walking (WALKNEW), Hygiene (HYGNEW), Reach (REACHNEW), Grip (GRIPNEW), Common activities (ACTIVNEW) & the type of assistance needed for each item (DRSGASST, RISEASST, EATASST, WALKASST, HYGASST, RCHASST, GRIPASST & ACTVASST)	No	Higher score = Greater dysfunction
Discomfort and pain <sup>i</sup>	1	VAS scale (PAINSCAL)	-	Higher score = More severe pain

\*item reversion: item follows the opposite direction of the domains

<sup>i</sup>The first two domains, which comprise the HAQ Disability Index and Pain Scale, can be used independently

## II. Scoring of Domains

		Sources:
Item scaling	4-point scale for the disability items: DRESSNEW, RISENEW, EATNEW, WALKNEW, HYGNEW, REACHNEW, GRIPNEW, ACTIVNEW 0 = Without any difficulty 1 = With some difficulty 2 = With much difficulty 3 = Unable to do	From the author

	<p>4-point scale for DRSGASST, RISEASST, EATASST, WALKASST, HYGASST, RCHASST, GRIPASST &amp; ACTVASST: 0 = No assistance is needed 1 = A special device is used by the patient in his/her usual activities 2 = The patient usually needs help from another person 3 = The patient usually needs both a special device and help from another person</p> <p>Visual Analogue Scale for PAINSCAL from 0 (no pain) to 100 (Severe pain)</p> <p><i>* Although the original scale was a 15-cm VAS scale, the usual length is a 10-cm VAS scale. Of note, depending on the printer used, the length of the VAS scale may vary, but this does not make any difference. Whatever the length, the scale should be divided into 100 equal parts</i></p>	
<b>Weighting of items</b>	No	<b>From the author</b>
<b>Range of scores</b>	<p>For Disability dimension: Range 0-3</p> <p>The VAS Pain Scale ranges from 0 to 100. But it may be converted to a 0-3 scale</p>	<b>From the author</b>
<b>Scoring Procedure</b>	<p><u>Disability Index:</u></p> <ol style="list-style-type: none"> <li>1. The highest score reported for any component question of the eight categories (DRESSNEW, RISENEW, EATNEW, WALKNEW, HYGNEW, REACHNEW, GRIPNEW, ACTIVNEW) determines the score for that category</li> <li>2. If either devices and/or help from another person are checked for a category (DRSGASST, RISEASST, EATASST, WALKASST, HYGASST, RCHASST, GRIPASST &amp; ACTVASST), then the score is set to "2", but if the patient's highest score for that sub-category is a two it remains a two, and if a three, it remains a three.</li> <li>3. A global score is calculated by summing the scores for each of the categories and dividing by the number of categories answered</li> <li>4. If there are fewer than 6 categories with responses, an index score cannot be calculated</li> </ol> <p><u>Alternative Disability Index:</u> Summing the scores of the eight categories (DRESSNEW, RISENEW, EATNEW, WALKNEW, HYGNEW, REACHNEW, GRIPNEW &amp; ACTIVNEW) and dividing by the number of categories answered. In that case, the aids and devices are not used</p> <p><u>Pain scale:</u> Measure the distance (D in cm) from the left side of the line to the mark.</p> <p><u>For a 15-cm VAS scale:</u></p> <ul style="list-style-type: none"> <li>➤ For a 0-100 scale: Score = <math>(100 * D) / 15</math></li> <li>➤ For a 0-3 scale: Score = <math>D * 0.2</math></li> </ul> <p><u>For a 10-cm VAS scale:</u></p> <ul style="list-style-type: none"> <li>➤ For a 0-100 scale: Score = <math>(100 * D) / 10</math></li> <li>➤ For a 0-3 scale: Score = <math>D * 0.3</math></li> </ul> <p><u>For a X-cm VAS scale:</u></p> <ul style="list-style-type: none"> <li>➤ For a 0-100 scale: Score = <math>(100 * D) / X</math></li> </ul>	<b>From the author</b>

	For a 0-3 scale: Score = D * (3 / X)																																	
Interpretation and Analysis of missing data	<u>Disability Dimension:</u> <ul style="list-style-type: none"><li>• If a component question is left blank or the response is too ambiguous to assign a score, then the score for that category is determined by the remaining completed question(s)</li><li>• If all component questions are blank or if more than one answer is given, then follow up with the respondent is required</li><li>• If the respondent's mark is between the response columns, then move it to the closest one. If it's directly between the two, move it to the higher one</li></ul> <u>Pain:</u> <ul style="list-style-type: none"><li>• If the patient writes in a number on the pain scale, or writes a number in addition to making a mark, you need only take the number, converting it to the corresponding score. In this case, do not measure the mark. For example, if the patient writes "50" on the line, this should be coded as 1.5.</li><li>• If an individual records a percentage, multiply the percentage by 3. Pain severity coding translations follow below: If a patient puts more than one mark, the midpoint is used</li></ul> <p style="text-align: center;"><b>PAIN SEVERITY CODING TRANSLATIONS (0-3 scale)</b> <b>Applicable only for a 15-cm VAS scale</b></p> <table><tr><td><i>Measurement (Cm) = Score</i></td><td><i>Measurement (Cm) = Score</i></td></tr><tr><td>0 = 0</td><td>7.8 - 8.2 = 1.6</td></tr><tr><td>0.1 - 0.7 = 0.1</td><td>8.3 - 8.7 = 1.7</td></tr><tr><td>0.8 - 1.2 = 0.2</td><td>8.8 - 9.2 = 1.8</td></tr><tr><td>1.3 - 1.7 = 0.3</td><td>9.3 - 9.7 = 1.9</td></tr><tr><td>1.8 - 2.2 = 0.4</td><td>9.8 - 10.2 = 2.0</td></tr><tr><td>2.3 - 2.7 = 0.5</td><td>10.3 - 10.7 = 2.1</td></tr><tr><td>2.8 - 3.2 = 0.6</td><td>10.8 - 11.2 = 2.2</td></tr><tr><td>3.3 - 3.7 = 0.7</td><td>11.3 - 11.7 = 2.3</td></tr><tr><td>3.8 - 4.2 = 0.8</td><td>11.8 - 12.2 = 2.4</td></tr><tr><td>4.3 - 4.7 = 0.9</td><td>12.3 - 12.7 = 2.5</td></tr><tr><td>4.8 - 5.2 = 1.0</td><td>12.8 - 13.2 = 2.6</td></tr><tr><td>5.3 - 5.7 = 1.1</td><td>13.3 - 13.7 = 2.7</td></tr><tr><td>5.8 - 6.2 = 1.2</td><td>13.8 - 14.2 = 2.8</td></tr><tr><td>6.3 - 6.7 = 1.3</td><td>14.3 - 14.7 = 2.9</td></tr><tr><td>6.8 - 7.2 = 1.4</td><td>14.8 - 15.0 = 3.0</td></tr></table> <ul style="list-style-type: none"><li>• If a patient makes a horizontal line below the pain scale, instead of a vertical one, the midpoint of that line is taken. If the line starts at</li></ul>	<i>Measurement (Cm) = Score</i>	<i>Measurement (Cm) = Score</i>	0 = 0	7.8 - 8.2 = 1.6	0.1 - 0.7 = 0.1	8.3 - 8.7 = 1.7	0.8 - 1.2 = 0.2	8.8 - 9.2 = 1.8	1.3 - 1.7 = 0.3	9.3 - 9.7 = 1.9	1.8 - 2.2 = 0.4	9.8 - 10.2 = 2.0	2.3 - 2.7 = 0.5	10.3 - 10.7 = 2.1	2.8 - 3.2 = 0.6	10.8 - 11.2 = 2.2	3.3 - 3.7 = 0.7	11.3 - 11.7 = 2.3	3.8 - 4.2 = 0.8	11.8 - 12.2 = 2.4	4.3 - 4.7 = 0.9	12.3 - 12.7 = 2.5	4.8 - 5.2 = 1.0	12.8 - 13.2 = 2.6	5.3 - 5.7 = 1.1	13.3 - 13.7 = 2.7	5.8 - 6.2 = 1.2	13.8 - 14.2 = 2.8	6.3 - 6.7 = 1.3	14.3 - 14.7 = 2.9	6.8 - 7.2 = 1.4	14.8 - 15.0 = 3.0	
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From the author

	<p>the beginning of the scale, measure to the end of the line not the middle</p> <p><u>Disability Index:</u></p> <ul style="list-style-type: none"> <li>• If an item does not apply to an individual, e.g., they don't shampoo their hair, take tub baths, or reach for a heavy object above their heads, then they should leave the item(s) blank since the purpose is to obtain data about what they can do</li> <li>• If a patient uses adapted or modified aids or devices (e.g., clothing, faucets, cars), then they should answer the questions based on their usual equipment. If they have no difficulty using the adapted equipment, then they would mark the "no difficulty" column. The adapted equipment (aids and devices) will be taken into account in the assistance variables (see below)</li> <li>• If an individual can open their own door but not for others, then they should respond in consideration of their own requirements</li> </ul> <p>Relative to inquiries about distance in responding to the item about walking, patients should be advised to make their own decisions</p>	
<b>Interpretation of multiple answers for one item</b>	When a patient makes a mark between two response options, then the score is the closest one. When it is directly between two response options, use the higher number.	<b>From the author</b>
<b>Interpretation of scores</b>	No further interpretation of scores from the authors was found in the literature other than: Higher score = Greater dysfunction or Higher score = More severe pain	

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## Reference(s):

Ramey DR, Fries JF, Singh G. The Health Assessment Questionnaire 1995-status and review. In: Quality of Life and pharmacoeconomics in clinical trials. Second edition. Edited by B Spilker. Lippincott-Raven Publishers, Philadelphia, 1996

And information provided by the author

# HEALTH ASSESSMENT QUESTIONNAIRE

Name \_\_\_\_\_

Date \_\_\_\_\_

PATKEY# \_\_\_\_\_  
QUESTDAT \_\_\_\_\_

In this section we are interested in learning how your illness affects your ability to function in daily life. Please feel free to add any comments on the back of this page.

HAQADMIN \_\_\_\_\_

Please check the response which best describes your usual abilities OVER THE PAST WEEK:

QUESTYPE \_\_\_\_\_

	Without ANY Difficulty	With SOME Difficulty	With MUCH Difficulty	UNABLE To Do
--	------------------------------	----------------------------	----------------------------	-----------------

PMSVIS \_\_\_\_\_

RASTUDY \_\_\_\_\_

QUESTNUM \_\_\_\_\_

## DRESSING & GROOMING

Are you able to:

- Dress yourself, including tying shoelaces and doing buttons? \_\_\_\_\_
- Shampoo your hair? \_\_\_\_\_

DRESSNEW \_\_\_\_\_

## ARISING

Are you able to:

- Stand up from a straight chair? \_\_\_\_\_
- Get in and out of bed? \_\_\_\_\_

RISENEW \_\_\_\_\_

## EATING

Are you able to:

- Cut your meat? \_\_\_\_\_
- Lift a full cup or glass to your mouth? \_\_\_\_\_
- Open a new milk carton? \_\_\_\_\_

EATNEW \_\_\_\_\_

## WALKING

Are you able to:

- Walk outdoors on flat ground? \_\_\_\_\_
- Climb up five steps? \_\_\_\_\_

WALKNEW \_\_\_\_\_

Please check any AIDS OR DEVICES that you usually use for any of these activities:

- |                  |  |
|------------------|--|
| _____ Cane       | _____ Devices used for dressing (button hook, zipper pull, long-handled shoe horn, etc.) |
| _____ Walker     | _____ Built up or special utensils   |
| _____ Crutches   | _____ Special or built up chair  |
| _____ Wheelchair | _____ Other (Specify: _____)   |

DRSGASST \_\_\_\_\_

RISEASST \_\_\_\_\_

Please check any categories for which you usually need HELP FROM ANOTHER PERSON:

- |                             |               |
|-----------------------------|---------------|
| _____ Dressing and Grooming | _____ Eating  |
| _____ Arising               | _____ Walking |

EATASST \_\_\_\_\_

WALKASST \_\_\_\_\_

Please check the response which best describes your usual abilities OVER THE PAST WEEK:

	Without ANY Difficulty	With SOME Difficulty	With MUCH Difficulty	UNABLE To Do	
<b>HYGIENE</b>					
Are you able to:					
- Wash and dry your body?	_____	_____	_____	_____	HYGNNEW_____
- Take a tub bath?	_____	_____	_____	_____	
- Get on and off the toilet?	_____	_____	_____	_____	
<b>REACH</b>					
Are you able to:					
- Reach and get down a 5 pound object (such as a bag of sugar) from just above your head?	_____	_____	_____	_____	REACHNEW_____
- Bend down to pick up clothing from the floor?	_____	_____	_____	_____	
<b>GRIP</b>					
Are you able to:					
- Open car doors?	_____	_____	_____	_____	GRIPNEW_____
- Open jars which have been previously opened?	_____	_____	_____	_____	
- Turn faucets on and off?	_____	_____	_____	_____	
<b>ACTIVITIES</b>					
Are you able to:					
- Run errands and shop?	_____	_____	_____	_____	ACTIVNEW_____
- Get in and out of a car?	_____	_____	_____	_____	
- Do chores such as vacuuming or yardwork?	_____	_____	_____	_____	
<b>Please check any AIDS OR DEVICES that you usually use for any of these activities:</b>					
_____ Raised toilet seat	_____	_____	_____	_____	HYGNASST_____ RCHASST_____ GRIPASST_____ ACTVASST_____  PAINSCAL_____
_____ Bathtub seat	_____	_____	_____	_____	
_____ Jar opener (for jars previously opened)	_____	_____	_____	_____	
_____ Bathtub bar	_____	_____	_____	_____	
_____ Long handled appliances for reach	_____	_____	_____	_____	
_____ Long-handled appliances in bathroom	_____	_____	_____	_____	
_____ Other (Specify: _____)	_____	_____	_____	_____	
<b>Please check any categories for which you usually need HELP FROM ANOTHER PERSON:</b>					
_____ Hygiene	_____	_____	_____	_____	
_____ Reach	_____	_____	_____	_____	
_____ Gripping and opening things	_____	_____	_____	_____	
_____ Errands and chores	_____	_____	_____	_____	
We are also interested in learning whether or not you are affected by pain because of your illness.					
<b>How much pain have you had because of your illness IN THE PAST WEEK:</b>					
PLACE A <u>VERTICAL</u> (I) MARK ON THE LINE TO INDICATE THE SEVERITY OF THE PAIN.					
NO PAIN 0	_____			SEVERE PAIN 100	



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