



How to enrich WHODAS 2.0 considering ICF coding and EFs. The Web Activities and Participation Performance Inventory (WAPPIIn).

17-23 October 2015 Manchester, United Kingdom

C522

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Abstract The aim is to present an electronic tool developed to assess functioning and disability in lay language that combines the assessment modalities of WHODAS 2.0 and ICF, in order to automatically produce WHODAS 2.0 scores and an ICF functioning profile.

Introduction

WHO has developed ICF and WHODAS 2.0 in order to describe and measure functioning and disability. WHODAS 2.0 domains refer to the Activities and Participation (AP) component of ICF, but they do not make explicit the type and number of Environmental Factors (EFs) that the respondent should take into consideration to point out the difficulties experienced in the past 30 days. On the other hand, ICF is a classification and uses a technical language that cannot directly be used to interview people about their functioning. WHODAS 2.0 score does not correspond to an ICF functioning profile. The aim is to present an electronic tool developed to assess functioning and disability in lay language that combines the assessment modalities of WHODAS 2.0 and ICF as developed for a web environment, in order to automatically produce WHODAS 2.0 scores and an ICF functioning profile.

Methods & Materials

- identification of the list of activities explored by WHODAS 2.0 questions
- mapping to ICF according to WHODAS 2.0 domains and subdomains and verification of the symmetry level
- integration of the questionnaire with other questions formulated using the same syntactic structure and natural language of WHODAS 2.0, especially about facilitators and barriers, to apply to each activity analysed
- definition of the rules to transcode answers to WHODAS 2.0 into complete ICF AP categories with the performance qualifier and EF categories with the facilitator/barrier qualifier
- updating of the web assessment tool
- realization of a field test in a sample of adult outpatients.

Results

A new version of the WAPPIIn questionnaire for adults was developed. It includes 52 (+6) questions for the 6 WHODAS 2.0 domains. For each question, EFs are explored. The 35 (+3) questions of WAPPIIn correspond to the 36 questions of WHODAS 2.0 and produce the WHODAS 2.0 summary score. These questions map to 31 ICF AP categories and the answers correspond to 31 ICF AP categories qualified with a performance qualifier. The 17 (+3) additional questions that complete WAPPIIn come from 20 ICF AP categories that are not considered in the different WHODAS 2.0 domains. During the field test, the tool was used in a sample of adult outpatients.

Conclusions

The tool allows operators to collect information in natural language and in a user-friendly way.

Table 1 – WAPPIIn 1.0 synopsis

	WAPPIIn ID	Question ID	Topic	ICF
Domain 1 - Cognition	D1.1	D1.1	Concentrating for ten minutes	d161
	D1.2	D1.2	Remembering to do important things	-
	D1.3	D1.3	Analyzing and finding solutions to problems	d175
	D1.4	D1.4	Learning new tasks	d155
	D1.5	ViF1.3	Dealing with and managing tension	d2400 d2401
	D1.6	ViF1.4	Controlling one's emotions	d250
	D1.7	ViF1.2	Listening to what people say	d115
	D1.8	D1.5	Understanding what people say	d3101 d3102
	D1.9	D1.6	Having a conversation	d350
	D1.10	ViF1.1	Looking at moving objects and people	d110
	D1.11	ViF1.5	Understanding people's expressions and gestures	d315
	D1.12	ViF1.6	Understanding sign language (*)	d320
	D1.13	ViF1.7	Undestanding what is written in a newspaper	d325
	D1.14	ViF1.8	Speaking	d330
	D1.15	ViF1.9	Making oneself understood without speaking	d335
	D1.16	ViF1.10	Communicating by using sign language (*)	d340
	D1.17	ViF1.11	Writing on one's own initiative	d345
	D1.18	VF1i.12	Telephoning	d360
Domain 2 - Mobility	D2.1	D2.1	Standing for long periods	d415
	D2.2	D2.2	Standing up from sitting down	d410
	D2.3	D2.3	Moving around inside one's home	d460
	D2.4	D2.4	Getting out of one's home	-
	D2.5	D2.5	Walking a long distance	d450
	D2.6	ViF2.3	Moving around using assistive devices (*)	d465
	D2.7	ViF2.4	Using means of transport	d470
	D2.8	ViF2.5	Driving means of transport	d475
	D2.9	ViF2.1	Turning a knob by using one's hand and fingers	d440
	D2.10	ViF2.2	Turning a door handle by using arms and hands	d445
Domain 3 - Self-care	D3.1	D3.1	Washing the whole body	d510
	D3.2	D3.2	Getting dressed	d540
	D3.3	D3.3	Eating	d550
	D3.4	D3.3	Drinking	d560
	D3.5	ViF3.1	Toileting	d530
	D3.6	D3.4	Staying by oneself for a few days	d571
Domain 4 - Getting along	D4.1	D4.1	Dealing with unknown people	d730
	D4.2	D4.2	Maintaining a friendship	d750
	D4.3	D4.3	Dealing with people close to oneself	d760
	D4.4	D4.4	Making new friends	d750
	D4.5	D4.5	Sexuality	d770
Domain 5 - Life activities	Sub-domain 5(1) - Household activities	D5.1	Taking care of the house	d650
		D5.2	Taking care of the family	d660
		D5.3	Doing household tasks well	d640
		D5.4	Getting household work done	d640
		D5.5	Getting household work done as quickly as needed	d640
	Sub-domain 5(2) - Work or school activities	D5.6	Doing day-to-day school tasks (*)	d815; d820; d825; d830
		D5.7	Doing day-to-day work tasks (*)	d850
		D5.8	Doing work/school tasks well (*)	d815; d820; d825; d830; d850
		D5.9	Getting work/school tasks done (*)	d815; d820; d825; d830; d850
		D5.10	Getting work/school tasks done as quickly as needed (*)	d815; d820; d825; d830; d850
Domain 6 - Participation	(without barriers and facilitators)	D6.1	Joining in community activities	d910
		D6.2	Living with dignity	d940
		D6.3	Doing something for relaxation or pleasure	d920
		D6.4	Asserting social, political and citizenship rights	d950
		D6.5	Barriers or hindrances	-
		D6.6	Time dedicated to one's health	d570
		D6.7	One's health and emotional involvement	-
		D6.8	Draining of financial resources because of one's health	d870
		D6.9	One's health and impact on family	-

Figure 1 – The WAPPIIn 1.0 web interface

VilmaFABER™ System - WAPPIIn 1.0

PATIENT
Name: JOHN
Surname: DOE
Date of birth: 01/01/1901
SSN: XXXYYY00X00X000X

Domain 1 Cognition
CONCENTRATING FOR TEN MINUTES
REMEMBERING TO DO IMPORTANT THINGS
ANALYSING AND FINDING SOLUTIONS TO PROBLEMS
LEARNING NEW TASKS

Think about the **past 30 days**
Topic: **learning new tasks**

Did any of the **professionals** or **persons near to you** act as barrier and/or facilitator while you were doing this activity? ☒ Yes ☐ No

.Specify and add:

How much did this act as...
Jack Doe (Father main caregiver) ☐ N ☐ M ☐ M ☐ S ☐ E ☐ N ☐ M ☐ M ☐ S ☐ E

Did any of the **drugs** or **assistive devices** that you are using, or any **assets**, act as barier and/or facilitator while you were doing this activity? ☐ Yes ☒ No

Did the **Health services** that you used act as barrier and/or facilitator while you were doing this activity? ☐ Yes ☒ No

Did the **Social support services**, the **medico-legal certifications** and the **education and labor services** act as barrier and/or facilitator while you were doing this activity? ☐ Yes ☒ No

In the past 30 days (taking into account everything that helped and/or hindered you), how much difficulty did you have in **learning new tasks**, for example, learning how to get to a new place?
☐ None ☐ Mild ☐ Moderate ☐ Severe ☐ Extreme or cannot do

Notes:

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Evaluators do not have to be trained in ICF use since ICF coding is produced automatically by the ad-hoc developed web assessment system.