

This is a **Sample** version of the
The ABILOCO.
A Measure Of Locomotion Ability

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The full complete (20 page) version includes –

- Overview
- Administration Instructions
- Complete 10 sets of 13 questions

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The ABILOCO. A Measure Of Locomotion Ability

ABILOCO : A Rasch-Built 13-Item Questionnaire to Assess Locomotion Ability in Stroke Patients

Abstract

Objective: To develop a questionnaire (ABILOCO), based on the Rasch measurement model, that can assess locomotion ability in adult stroke patients (International Classification of Functioning, Disability and Health activity domain). **Design:** Prospective study and questionnaire development. **Setting:** A faculty hospital. **Participants:** Adult stroke patients (N=100) (age, 64±15y). The time since stroke ranged from 1 to 260 weeks. **Intervention:** A preliminary questionnaire included 43 items representing a large sample of locomotion activities. This questionnaire was tested on the 100 stroke patients, and their responses were analyzed using the Rasch model (RUMM 2020 software) to select items that had an ordered rating scale and fitted a unidimensional model. **Main Outcome Measure:** The ABILOCO questionnaire. **Results:** The retained items resulted in a 13-item questionnaire, which includes a wide range of locomotion abilities well targeted to the sample population, leading to good reliability (R=.93). The item calibration was independent of age, sex, time since stroke, and affected side. The concurrent validity of ABILOCO was also investigated by comparing it with well-known, criterion standard scales (Functional Walking Category, Functional Ambulation Categories, item 12 of the FIM instrument evaluating walking ability) and the walking speed measured with the 10-meter walk test. **Conclusions:** The ABILOCO questionnaire presents good psychometric qualities to measure locomotion ability in adult stroke patients. Its range and measurement precision make it attractive for clinical use throughout the rehabilitation process and for clinical research.

INSTRUCTIONS FOR THE ABILOCO QUESTIONNAIRE

The ABILOCO questionnaire

The ABILOCO questionnaire was elaborated as a measure of locomotion ability in a sample of adult stroke patients. It explores the most representative inventory of locomotion activities (Activity domain of the World Health Organization International Classification of Functioning ICF). Items were selected from existing scales and on the clinical experience of professionals in the field of rehabilitation. ABILOCO was originally developed using the Rasch model which allows to convert ordinal scores into linear measures located on a unidimensional scale. The 13 items of ABILOCO defined a valid scale, which includes a wide range of locomotion abilities well targeted on the sample population, leading to a good reliability (R= 0.93).

Procedures

The ABILOCO questionnaire is administered on an interview basis. Patients do not realise the activities and are asked to estimate their perceived difficulty in performing it.

During the evaluation, a 2-level response scale is presented to the patients. They are asked to rate their perception on the response scale as 'Impossible' or 'Possible'. Activities not attempted in the last 3 months are not scored and are entered as missing responses (check the question mark '?' on the scoring sheet). Activities not realised because they are too difficult must be scored as 'Impossible'.

For any activity the three potential answers are:

-**Impossible:** the patient is unable to perform it.

-**Possible:** the patient is able to perform it.

-**Question mark:** the patient cannot estimate the difficulty of the activity because he/she has never done it. Note that when a patient has never attempted it, the rater needs to make sure why it is so. If an activity was never attempted because it is impossible, then it must be scored as “Impossible” rather than “Question mark”.

The instructions are given to the patient only at the beginning of the test

Activities order

The activities of the ABILOCO questionnaire are presented in a random order to avoid any systematic effect. Ten different orders of presentation are used. The evaluator selects the next one of the 10 orders for each new assessment, no matter which patient is tested.

Package content

1 instruction sheet

Testing forms in ten random orders

ABILOCO: A Measure of Locomotion Ability

English version. Order 1

Name: _____

Could you estimate your ability to realize the following activities?	Impossible	Possible	?
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1	Going up an escalator alone.			
2	Hopping on the healthy foot.			
3	Going up stairs putting each foot on the next step.			
4	Walking backwards.			
5	Striding over an object with the paretic foot first.			
6	Striding over an object with the healthy foot first.			
7	Walking more than five meters alone, indoors, on flat ground without assistive device.			
8	Walking with the help of a person who guides but does not support.			
9	Walking less than five meters with the help of a person to support.			
10	Walking while holding a fragile object (such as a full glass).			
11	Walking less than five meters alone without the help or supervision of a person.			
12	Turning and walking in a narrow space.			
13	Walking less than five meters, indoors, holding pieces of furniture.			

Above is a sample view of Set 1 questions only, the full complete version comes with 10 sets of 13 questions.

This is the end of the sample version of The ABILOCO. Please return to page 1 to purchase full complete ABILOCO.