



Lighthouse Project Hand ICF Implementation

12 – 18 October 2013
Beijing, China

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Abstract

This poster reports on the on-going project "Implementation and use of the ICF Core Sets for hand conditions in clinical practice, rehabilitation and research: Lighthouse Project Hand" started in 2012. The aim of this project is to operationalize, implement and use the ICF Core Sets for hand conditions as a monitoring tool in the treatment and rehabilitation of persons with hand conditions in the institutions of the statutory accident insurance in Germany.

Introduction

To implement the ICF Core Sets in clinical practice and research, the project "**Implementation and use of the ICF Core Sets for hand conditions in clinical practice, rehabilitation and research: Lighthouse Project Hand**" was started in 2012.

The project aims to ...

- (1) use the ICF as a basis for communication among...
 - health professionals involved in the treatment and rehabilitation of patients with hand conditions along the continuum of care
 - researchers and health scientists in the field of hand conditions
 - medical document specialists and statisticians
 - rehabilitation managers
 - members of (health) insurance companies and services
- (2) develop ICF-based instruments and treatment guidelines for clinical practice in institutions of the statutory accident insurance in Germany along the continuum of care from the acute phase to the (re-)integration into work
- (3) implement ICF-based documentation modules to improve communication among hospitals, clinical departments and the statutory accident insurance institutions
- (4) develop teaching materials, manuals and an (e-)learning tool for clinical practice and research.

The Lighthouse Project Hand is a cooperation effort between the Department of Hand Surgery, Plastic- and Microsurgery, Burns Unit, BG Trauma Hospital Hamburg, nine further hospitals and the Chair for Public Health and Health Services Research, Ludwig-Maximilians-University (LMU) Munich. The project is funded by the German Social Accident Insurance (DGUV).

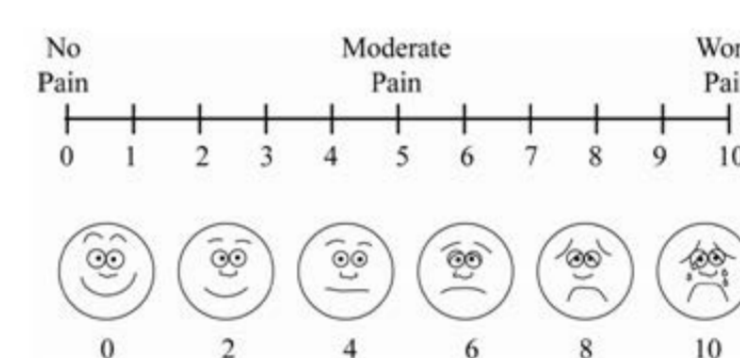
Methods & Materials

The following **methods** are used:

- (1) **Systematic literature reviews** and an **expert survey** to identify adequate assessment instruments to operationalize the ICF categories of the ICF Core Set for hand conditions

ICF code	Title
b152	Emotional functions
b265	Touch function
b270	Sensory functions related to temperature and other stimuli
b280	Sensation of pain
b710	Mobility of joint functions
b715	Stability of joint functions
b730	Muscle power functions
b760	Control of voluntary movement functions
s110	Protective functions of the skin
s120	Spinal cord and related structures

Defining assessment instruments



- (2) Based on the results of the literature reviews and an expert survey a **consensus process** was carried out to determine instruments that capture the categories of the Brief ICF Core Set for hand conditions

- (3) a **cross-sectional multicenter study** to develop indices and scores

ICF code	Title	Score
b152	Emotional functions	
b265	Touch function	4
b270	Sensory functions related to temperature and other stimuli	3
b280	Sensation of pain	4
b710	Mobility of joint functions	4
b715	Stability of joint functions	5
b730	Muscle power functions	6
b760	Control of voluntary movement functions	5
s110	Protective functions of the skin	2
s120	Spinal cord and related structures	

Developing indices and scores

- (4) a **decision-making process** to develop treatment guidelines
- (5) a **longitudinal multicenter study** to implement and evaluate these indices and scores as well as the treatment guidelines in clinical practice.

Results

In **systematic literature reviews** 156 assessment instruments used in clinical research with hand patients were identified.

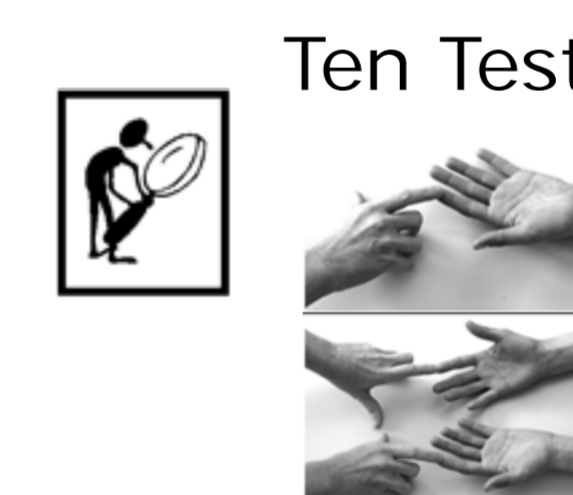
In the **expert survey** 121 assessment instruments that are used in clinical practice were mentioned by 161 health professionals representing different health professions.

A **multi-step consensus process** involving 41 experts in the field of hand conditions was carried out by providing evidence retrieved from the results of systematic literature reviews and expert survey. The experts determined a **two-step assessment procedure** including instruments that capture the categories of the Brief ICF Core Set:

1 - Screening: 8 clinical tests, 34 screening questions and 22 medical observations

2 - Detailed clinical assessment if indicated based on the screening

Example: b265 Touch function



Ten Test

Moberg Test



Additionally, the **DASH** (Disability of the arm, shoulder and hand) questionnaire was selected to address the patient perspective.

Currently, a **cross-sectional study** involving 11 study centers has been started. It is planned to collect data of 300 patients using the two-step assessment procedure.

Conclusions

The Lighthouse Project Hand is the first project aiming to implement ICF-based instruments, documentation forms and treatment guidelines along the continuum of care. It will be the case in point for the institutions of the statutory accident insurance in Germany to implement the ICF in clinical practice, documentation, health statistics and clinical research of other health conditions.