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# ICF orientated clinimetrics for compression trials in lymphedema



Robert J Damstra, MD PhD

Dept. dermatology, phlebology and lympho-vascular medicine,
Nij Smellinghe hospital Drachten, NL

# ICF (international classification of functioning, disability and health)

- Model to describe human functioning in relation to the health condition and the contextual factors
- Accepted by the WHO in 2001
- Bio-medical psycho social model for classification
- For chronic diseases
- Good comparability of studies / outcome in research

### **ICF**

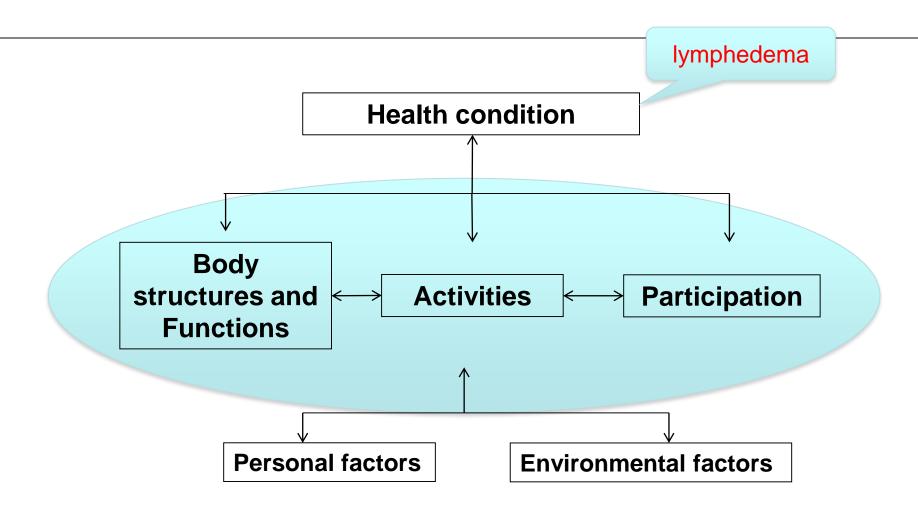
### Classification model

- One language
- Compare / code
- >1400 categories
- Scientific research

### Conceptual model

- Organise
- Clinical reasoning
- Core sets / brief core sets
- Daily practice

#### ICF model



World Health Organisation, International Classification of Functioning, Disability and Health: ICF. 2001, Geneva: WHO.

### ICF components examples

## **Body function and structures**

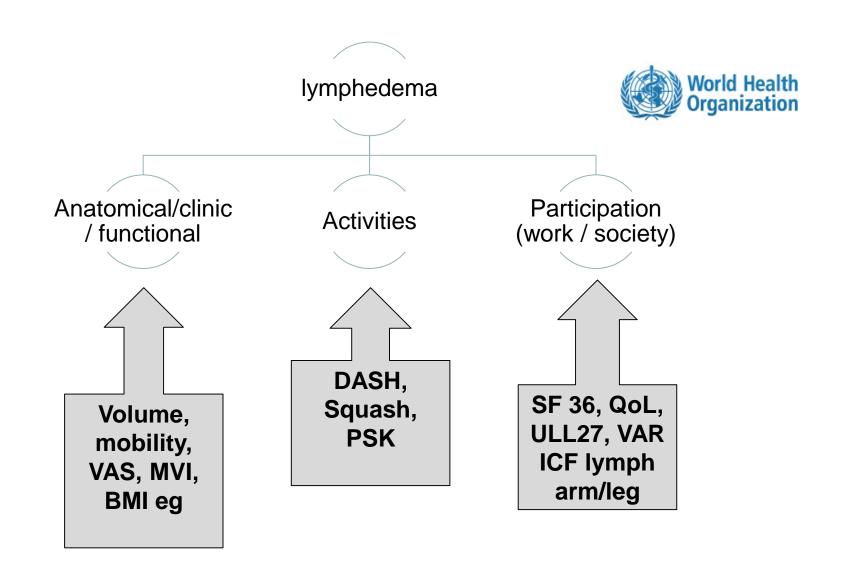
- Swelling
- Limited range of motion
- Pain
- Loss of muscle strength
- Fatigue
- Physical capacity

## Activities and participation

- Limitations in activities of daily living
- Restriction in Participation

Quality of Life is affected

## Which clinical endpoints are most important for the patient / professional and can be measured (clinimetry)



### Health-related patient reported outcomes HR-PROs

- Patient reported Outcome Measures (PROM's)
- All types of questinaries
- COSMIN rules for HR-PRO / PROM and quality of articles

Terwee, CB et al. Rating the methodological quality in systematic reviews of studies on measurement properties: a scoring system for the COSMIN checklist. Int. J Qual Life Aspects Treat, Care Rehab 2012: 21(4), 651–657

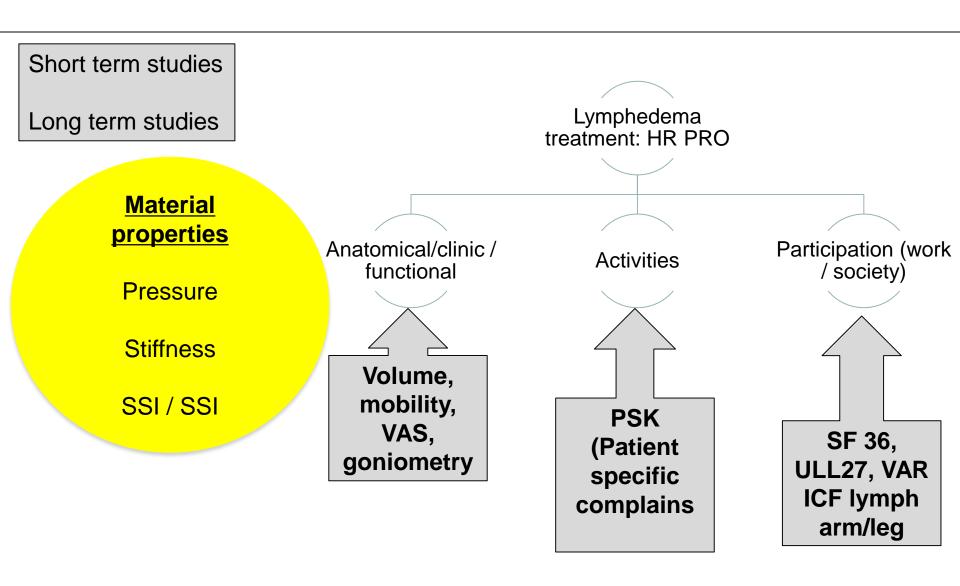
Fig. 1 COSMIN taxonomy of relationships of measurement properties



Mokkink LB et al. The COSMIN checklist for assessing the methodological quality of studies on measurement properties of health status measurement instruments: an international Delphi study.

International Journal of Quality of Life Aspects of Treatment, Care and Rehabilitation, 19(4), 539–549.

### ICF clinemetrics in compression trials



### Conclusion of clinimatrics in compression trials

#### **Material related**

- Choose binary / mathematical methods
- Pressure / stiffness
- Strength
- Choose existing validated tools

#### Patients related: ICF

- COSMIN for HR PRO's
- 3 domains of ICF
- Choose binary / mathematical methods
- Choose existing validated tools