



## National Quality Registry for Neurological Care (NEUROreg)

NEUROreg is represented in all counties and all hospitals, covering 8 diagnosis:

- multiple sclerosis,
- Parkinson's disease,
- myasthenia gravis,
- narcolepsy,
- epilepsy,
- motor neuron disease,
- inflammatory polyneuropathy
- severe neurovascular headache.



# Key metrics:

- Demographic data and medical history (e.g. age of onset, initial symptoms and disease course type).
- Outcome of diagnostic investigation with MRI and cerebrospinal fluid exam.
- Measurement of disease activity.
- Rating scales of disability, quality of life, fatigue and cognition. (PROM)
- Disease-modifying therapy.

HealthMeasures consists of four precise, flexible, and comprehensive measurement systems that assess physical, mental, and social health, symptoms, well-being and life satisfaction; along with sensory, motor, and cognitive function.

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HealthMeasures

TRANSFORMING HOW HEALTH IS MEASURED

Self-reported and parentreported measures of global, physical, mental, and social health for adults and children in the general population and those living with a chronic condition

Neuro QoL

#### Neuro-QoL

Self-reported and proxyreported measures of physical, mental, and social health for adults and children living with a neurological condition



MEASUREMENT SYSTEMS

#### ASCQ-Me<sup>SM</sup>

Self-reported measures of physical, mental, and social health for adults living with sickle cell disease



Q

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#### NIH Toolbox®

Performance tests of cognitive, motor, and sensory function and self-reported measures of emotional function for adults and children in the general population and those living with a chronic condition

#### Standardized Scoring-

All scores are based on the same metric to enable cross-measure comparison

### Neuro QoL

Neuro-QoL (Quality of Life in Neurological Disorders) is a measurement system that evaluates and monitors the physical, mental, and social effects experienced by adults and children living with neurological conditions.

INTRO TO NEURO-QOL

OBTAIN & ADMINISTER MEASURES

MEASURE DEVELOPMENT & RESEARCH

#### Why Use Neuro-QoL?

- Developed and validated for common neurological conditions with state-of-the-science methods to be psychometrically sound
- · Designed to be completed in approximately one minute
- · Created with flexible administration-pen & paper, web-based, or interviewer
- Translations available in Spanish and other languages
- · Available without license, fee, or royalty

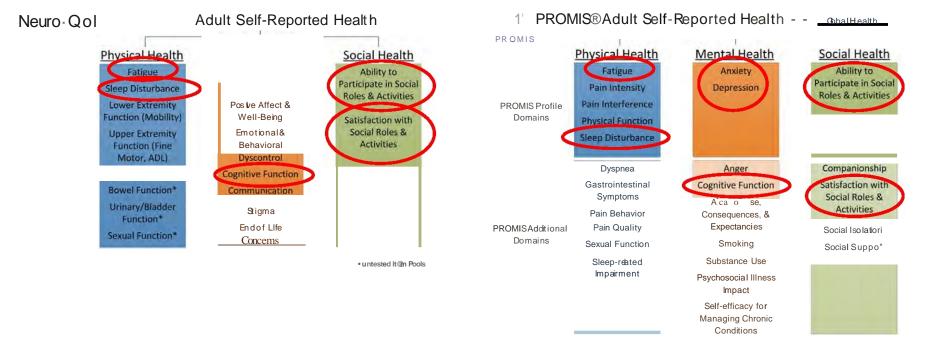
HealthMeasures is the official information and distribution center for PROMIS, Neuro-QoL, NIH Toolbox, and ASCQ-Me, which were developed and evaluated with National Institutes of Health (NIH) funding.



# **Neuro-QOL: Special Features**

- Target neurological conditions
- Adult and pediatric disorders
- Inclusion of ethnic minorities
- Assessment of acceptability to neurology research and clinical community
- IRT-based approach/CAT
- Available in the public domain





#### Pediatric Assessment





# **Pilot stage**

- Establish a multidisciplinary team including patient representation.
- Select item banks reflecting common registry needs.
- Agree a protocol for the translation.
- Identify where different clinics can participate.
- Create a demo CAT using the translated item banks.

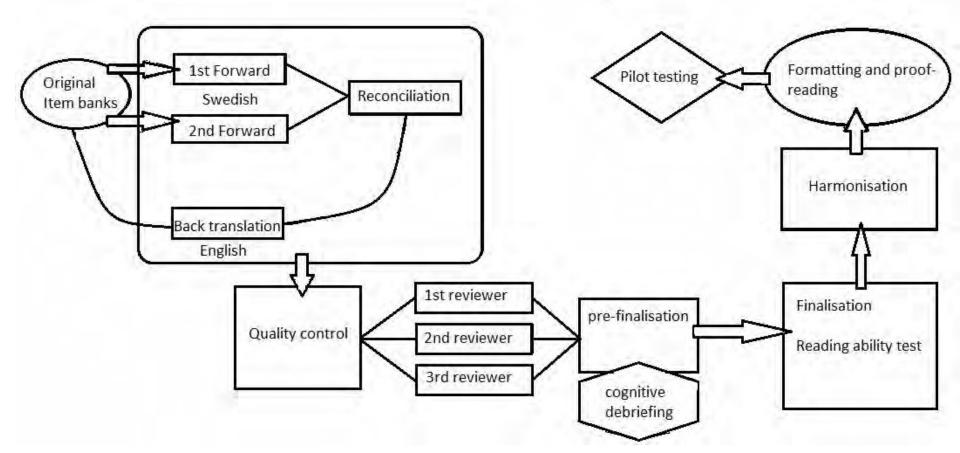
## Adult Banks and Scales

NeuroQoL item banks prioritized by NEUROreg

Domain	Format	# Items	# Items in	
			Short Form	
Anxiety	Bank	21	8	
Depression	Bank	24	8	
Fatigue	Bank	19	8	
Upper Extremity Function - Fine Motor, ADL	Bank	20	8	
Lower Extremity Function – Mobility	Bank	19	8	
Cognitive Function	Bank	28	8	
Emotional and Behavioral Dyscontrol	Bank	18	8	
Positive Affect and Well-Being	Bank	23	9	
Sleep Disturbance	Bank	8	NA	
Ability to Participate in Social Roles and	Bank	45	8	
Activities				
Satisfaction with Social Roles and Activities	Bank	45	8	
Stigma	Bank	24	8	
Communication	Scale	5	NA	



## **Translation process**



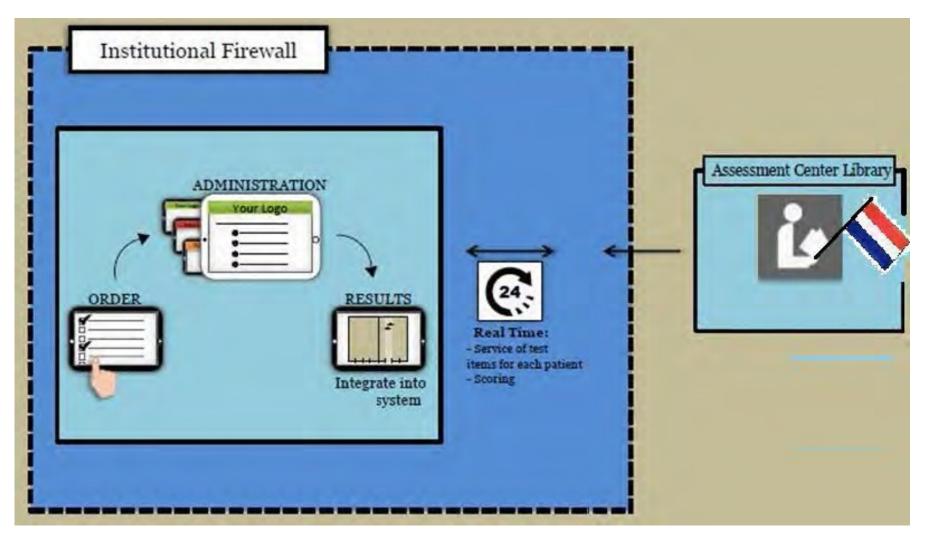
### The standard process of translation and verification used in adapting PROMIS for Swedish use:

Each item is translated independently by two native Swedish speakers into Swedish and reconciled. Back-translated into English and reviewed by three independent reviewers prior to cognitive testing with the target population; readability is evaluated and harmonized with other translations.

## CAT system



The system allows the utilization of available CATs in different languages.





# A Dutch solution

 The patient receives a personal invitation to complete the test. When the test is complete a report containing the interpreted results is available within the register.





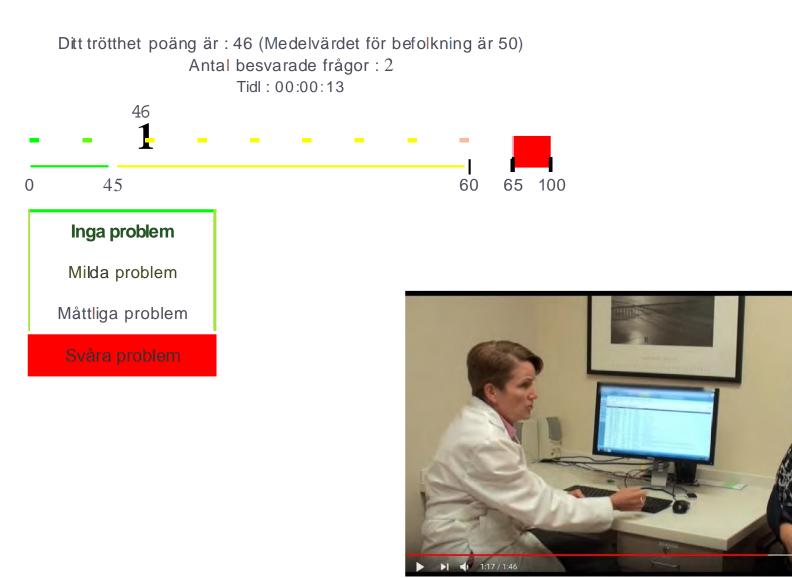
### Under de senaste 7 dagarna

### Jag kände mig uttröttad.





**.1.** Tolvan Test Tol'vånsson Avbryt





# **Future activities**

- Validate the item banks in national clinical populations.
- Evaluate patient's needs for and satisfaction with feedback.
- Demonstrate the psychometric quality of the data.