A priori defined approach	Result
Conceptual level Critical evaluation of items relative to a pre-defined framework *Here: Self-reported capacity to perform activities based on the ICF*	**Removal of 3 items** Pain intensity Headaches Sleeping
Rasch analysis Identification of misfitting items, and exploration of cause of misfit *Here: DIF, disordered response thresholds, location dependence, multidimensionality, statistical redundancy*	**Removal of 2 items** Reading (due to considerable DIF) Lifting (due to statistical redundancy) NDI-5: Excellent fit to Rasch model
Classical test theory Establish properties of shortened scale with CTT-based approaches *Here: Stability, responsiveness, concurrent validity*	Properties of NDI-5 based on CTT statistically similar to those of original NDI-10.