

NINDS/NICHD-NCMRR NeuroRehab CDE Project Comorbid and Behavioral Conditions Subgroup Summary

The Comorbid and Behavioral Conditions subgroup reviewed existing NINDS CDEs and instruments from the assigned subdomains: Fatigue, Pain, and Sleep. They worked in collaboration with the Assessments and Examinations subgroup which was assigned the subdomains: Autonomic, Exercise Physiology, General and Motor, Hospital/Care Management, Non-Imaging Diagnostics, Other Clinical Data, Physical Examination, Physical/Neurological Examination, and Comorbidities (i.e., medical history).

The subgroups focused on recommendations within the Core and Supplemental – Highly Recommended classifications. CDEs within the Supplemental and Exploratory classifications were not recommended in this phase of the NeuroRehab CDE project. Per project guidance, up to three Supplemental – Highly Recommended CRFs/ instruments could be recommended per subdomain.

Instruments were reviewed first. Pairs were assigned to complete an initial review of each instrument. Feedback was discussed during teleconference meetings. The subgroups deemed that the list of Supplemental instruments identified during the initial review should be revisited if usage and validity data later cross the threshold for Supplemental – Highly Recommended. In addition to identifying gap areas, these lists will inform future NeuroRehab CDE efforts.

The subgroups decided to further review instruments that were already classified as Core or Supplemental – Highly Recommended in existing NINDS CDE disorders and determine their applicability to NeuroRehab. It was not within the subgroups' purview to update the classifications for these existing disorders. They considered several additional factors when reviewing, including length of administration, applicability across diverse populations, and cost. To select the top Supplemental – Highly Recommended instruments per subdomain, reviewers considered the number of disorders that currently recommended the instrument and which are most relevant to NeuroRehab. The classifications and disorder recommendations for selected instruments align with those for the existing NINDS CDE disorders.

The Chairs selected Core and Supplemental – Highly Recommended CDEs across the subgroup's assigned subdomains based on data essential for all NeuroRehab clinical trials and specific types of trials. The subgroup's instrument selections are recommended for general use in neurorehabilitation studies and should not differ substantially by the type of neurorehabilitation or the disorder being studied. The subgroup identified CDEs for the adult population. A separate Infant Pediatrics subgroup was responsible for making recommendations for the pediatric population.



Subdomain	Instrument/ CRF Name	Classification
General and	Assessments and Examinations Demographic	See CRF/CDE Details
Motor	and Clinical Conditions	
Pain	Brief Pain Inventory (Short Form)	NeuroRehab Supplemental –
		Highly Recommended
	PROMIS Item Bank v1.1 - Pain Interference	NeuroRehab Supplemental –
		Highly Recommended
	PROMIS Item Bank v2.0 - Pain Behavior	NeuroRehab Supplemental –
		Highly Recommended
Sleep	Neuro-QOL Adult Bank - Sleep Disturbance	NeuroRehab Supplemental –
		Highly Recommended
	PROMIS Item Bank v1.0 - Sleep Disturbance	NeuroRehab Supplemental –
		Highly Recommended
	PROMIS Item Bank v1.0 - Sleep Related	NeuroRehab Supplemental –
	Impairment	Highly Recommended

The following instruments and CDEs were selected for inclusion in NeuroRehab v1.0.

Other consensus recommendations exist for specific disorders, and accordingly have specific recommendations pertaining to the respective disorder.

Neurorehabilitation covers a broad range of interventions/evaluations for a broad range of disorders. Therefore, a neurorehabilitation CDE that is meant to apply broadly will by its nature lack specificity.

The subgroups noted that it was important to consider the time to administer an instrument. The amount of time it takes to collect all the required data can become burdensome with many instruments or long administration time. Time with patients to collect data is limited.

For the sleep subdomain, it was challenging to narrow the selection of sleep instruments to three Supplemental – Highly recommended. Sleep is a global construct and includes areas like sleep quality and sleep disorders.

For this initial phase of the NeuroRehab project, new CDEs and Supplemental and Exploratory recommendations were identified as gap areas.

The subgroup did not identify instruments within the fatigue subdomain.