Assessment Overview

Assessment Area

ICF Domain: Activity Subcategory: Mobility Subscales: General Mobility Ambulation

You Will Need

Length:

13 items

Scoring:

7-point scale ranging from 1 (fully dependent mobility) to 7 (normal independent mobility). COVS summed total score ranges from 13 to 91. The general mobility subscale ranges from 7-49 and the ambulation subscale ranges from 5-35.

Higher scores = better mobility. **Equipment:**

Stopwatch, plastic mug, penny and slotted can (or slotted can), exercise mat, ramp (1 inch to 12 inch rise), 6-inch platform **Training:**

Raters should be trained in the administration of both the COVS and TCOVS.

Summary

The Clinical Outcome Variables Scale (COVS) is a measure of mobility that has been used in people with stroke, traumatic brain injury, amputations, and musculoskeletal injuries in a variety of settings (acute, inpatient/outpatient rehabilitation, and community settings). Items include: rolling, lying to sitting, sitting balance, transfers, ambulation, wheelchair mobility, and arm function.

There are two subscales in the COVS: 1) General Mobility subscale (7 items) and 2) Ambulation subscale (5 items) Two versions:

COVS: clinician-administered through observation of task performance
TCOVS: Self-report, administered by telephone

Availability

Worksheet: Can be found in the appendix of publication linked <u>here</u>. Full guidelines and scoring software available for purchase <u>here</u>.

Languages: English

Minimal Clinically Important
DifferenceStatistical ErrorTypical ValuesNot established in SCINot established in SCICOVS mean (SD) scores:
Composite score: 55 (20)
Mobility subscale: 39 (13)
Ambulation subscale: 11(9)
TCOVS mean (SD) scores:
Composite score: 54 (18)
Mobility subscale: 37 (12)
Ambulation subscale: 11(9)

Assessment Interpretability

traumatic SCI, mixed injury types, mean time since injury (SD): 8 (3.7) months, community living)

Threshold Values: Not established in SCI

Measurement Properties Validity – High Reliability – High **High Test-retest Reliability (TCOVS):** The COVS can discriminate across clinically distinct groups (by lesion level, completeness of injury and ICC = 1.00walking status) during discharge from hospital and High Correlation between COVS and TCOVS: admission to a transitional rehabilitation program. ICC = 0.98 (Campbell & Kendall 2003; n=169; 124 males, 45 females; 36 complete paraplegia, 56 incomplete paraplegia, 25 complete paraplegia, 52 (Barker et al. 2007; study 1 n=37; 31 males, 6 females; traumatic SCI, 18 incomplete paraplegia, community rehab) tetraplegia, 19 paraplegia; 19 complete injury, 18 incomplete injury; mean time since injury (SD): 8 (3.7) months, community living) Number of studies reporting validity data: 1 Number of studies reporting reliability data: 1 Responsiveness

Floor/Ceiling Effect: Not established in SCI Effect Size: Not established in SCI Number of studies reporting responsiveness data: 0