

# The Community Integration Questionnaire (CIQ)

## Assessment Overview

### Assessment Area

**ICF Domain:**

Participation

**Subscales:**

Home Integration

Social Integration

Productive Activities

### You Will Need

Less than 15 minutes to complete 15 items.

**Scoring:**

3, 5, or 6-point scale for items

Subscales summed for a total score ranging from 0-29, with higher scores indicating a greater degree of Community Integration.

### Summary

The Community Integration Questionnaire (CIQ) is a self-report measure, originally designed for people with traumatic brain injury, but has recently been validated for use with SCI populations.

The CIQ has three subscales:

1) Home Integration (e.g. Who does the grocery shopping at home?

Who does the normal everyday housework?)

2) Social Integration (e.g. Who looks after your personal finances?)

3) Productive Activities (e.g. Do you work/volunteer? How often?).

Scores for these domains are generated based on the frequency of engaging in roles and activities, and responses are weighted according to level of independence in performing roles and activities.

The Community Integration Questionnaire—Revised (CIQ-R; Callaway et al. 2016) was revised from the original CIQ. It has a total of 18 items across four subscales:

- 1) Home Integration.
- 2) Social Integration.
- 3) Productivity
- 4) Electronic social networking.

### Availability

**Worksheets:**

- **CIQ:** Can be found [here](#).
- **CIQ-R:** Can be found for free here: <https://www.summerfoundation.org.au/resources/the-community-integration-questionnaire-revised/>

**Languages:** English, Chinese, Spanish, and Italian

## Assessment Interpretability

### Minimal Clinically Important Difference

Not established in SCI

### Statistical Error

Not established in SCI

### Typical Values

#### Mean (SD) Score:

Home integration = 3.5 (2.6)  
Social integration = 6.7 (2.5)  
Productive activity = 1.0 (1.6)  
Total score = 11.2 (5.0)

(Gontkovsky et al. 2009; n=28; 21 males; 25 traumatic SCI; ASIA A-D; level of injury: 60.7% cervical, 35.7% thoracic, 3.6% lumbar; 68% incomplete, 32% complete SCI; chronic SCI)

Home integration: 4.5 (3.3)  
Social integration: 8.5 (2.3)  
Productive activity: 3.4 (1.9)  
Total: 16.4 (6.1)

(Callaway et al. 2017; n=40, 61% males; mean age (SD): 52.8 (14.5); 77% traumatic SCI)

## Measurement Properties

### Validity – Low to High

#### High correlation with CHART-SF:

$r = 0.79$

(Gontkovsky et al. 2009; n=28; 21 males; 25 traumatic SCI; ASIA A-D; level of injury: 60.7% cervical, 35.7% thoracic, 3.6% lumbar; 68% incomplete, 32% complete SCI; chronic SCI)

#### Low to Moderate correlation with Spinal Cord Lesion Coping Strategies Questionnaire subscales (SCL CSQ):

SCL CSQ – Acceptance:  $r = 0.289$

SCL CSQ – Fighting spirit:  $r = 0.326$

SCL CSQ – Social reliance:  $r = 0.272$

(Saffari et al. 2015; Iranian version of SCL CSQ; n=220; 164 males; 140 paraplegia, 80 tetraplegia; mean time since injury (SD) = 50.96 (35.05) months)

#### Moderate correlation of CIQ (Spanish) with CHART (Spanish):

$r = 0.53$

#### High correlation of CIQ (Spanish) with CIQ (English):

$r = 0.83$

(Rintala et al. 2002; Spanish version; n=99, mean duration (SD): 7.0 (6.5), 29 traumatic SCI)

Low correlation between CIQ-R Italian version and: Physical Component Summary (PCS12) of the SF-12 health survey  $r = 0.25$

### Reliability – Low to High

#### Low to High Internal Consistency:

Total Score:  $\alpha = 0.71-0.75$

Home integration:  $\alpha = 0.79-0.81$

Social integration:  $\alpha = 0.62-0.63$

Productive activity:  $\alpha = 0.50-0.51$

(Kratz et al. 2015; measured at 1 month and 12 months, mixed injury types; time 1: n=727, 399 males, mean time since injury (SD) = 16.52(12.67) years; time 2: n=494, 301 males; mean time since injury (SD) = 16.15(11.98) years)

#### Low to High Internal Consistency:

Total Score:  $\alpha = 0.70$

Home integration:  $\alpha = 0.82$

Social integration:  $\alpha = 0.33$

Productive activity:  $\alpha = 0.42$

(Rintala et al. 2002; Spanish version; n=99, mean duration (SD): 7.0 (6.5), 29 traumatic SCI)

#### Moderate Internal Consistency (CIQ-R Italian version):

Total Score:  $\alpha = 0.627$

(Panuccio et al. 2022; Italian version; N=80; 47 male; Mean (SD) age 46 (11.74) years; Italian version)

#### High Internal Consistency (CIQ-R Chinese version):

Total Score:  $\alpha = 0.84$

(Xie et al. 2023; n=317; 212 males; mean (SD) age: 49.8 (13.3) years; 169 complete, 148 incomplete)

Mental Component Score (MCS12) of the SF-12 health survey:  $r = 0.29$

(Panuccio et al. 2022; N=80; 47 male; Mean (SD) age 46 (11.74) years; Italian version)

**Low to Moderate correlation between CIQ-R Chinese version and:**

Zung Self-Rating Anxiety Scale (SAS): -0.39

Zung Self-Rating Depression Scale (SDS): -0.42

Visual Analogue Scale (VAS): 0.37

Multidimensional Scale of Perceived Social Support (MSPSS): 0.22

(Xie et al. 2023; Chinese version; n=317; 212 males; mean (SD) age: 49.8 (13.3) years; 169 complete, 148 incomplete)

**Number of studies reporting validity data: 5**

**High Test-Retest Correlation:**

$r = 0.85 - 0.992$

(Rintala et al. 2002; Spanish version; n=99, mean duration (SD): 7.0 (6.5), 29 traumatic SCI)

**High Test-Retest Correlation (CIQ-R Italian version):**

ICC = 0.992

(Panuccio et al. 2022; Italian version; n=80; 47 male; Mean (SD) age 46 (11.74) years)

**High Test-Retest Correlation (CIQ-R Chinese version):**

Correlation = 0.87

(Xie et al. 2023; Chinese version; n=317; 212 males; mean (SD) age: 49.8 (13.3) years; 169 complete, 148 incomplete)

**Number of studies reporting reliability data: 4**

## Responsiveness

### Floor/Ceiling Effect:

Patients at ceiling (time 1, time 2):

Total Score: 0, 5%

Home integration: 6.4, 7.7%

Social integration: 1.6, 2.0%

Productive integration: 25, 27.1%

Patients at floor (time 1, time 2):

Total Score: 0.2%

Home integration: 1.2, 1.3%

Social integration: 0.6%

Productive integration: 8.1, 8.6%

(Kratz et al. 2015; measured at 1 month and 12 months, mixed injury types; time 1: n=727, 399 males, mean time since injury (SD) = 16.52(12.67) years; time 2: n=494, 301 males; mean time since injury (SD) = 16.15(11.98) years)

Floor effect:

Home domain, 6.62%

Social engagement domain, 14.83%

DSN domain, 17.67%

TSN domain, 9.78%

Total score, 0.63%

Ceiling effect:

Home domain, 2.21%

Social engagement domain, 0.31%

DSN domain, 13.56%

TSN domain, 30.91%

Total score, 0.00%

(Xie et al. 2023; CIQ-R Chinese version; n=317; 212 males; mean (SD) age: 49.8 (13.3) years; 169 complete, 148 incomplete; CIQ-R Chinese version)

### Effect Size:

Not established in SCI

### Number of studies reporting

**responsiveness data: 2**