

## 2-Minute Walk Test (2MWT)

### Assessment Overview

#### Assessment Area

**ICF Domain:**

Activity

**Subcategory:**

Mobility

#### You Will Need

**Length:**

2 minutes

**Equipment:**

- Countdown timer
- Tape measure
- Mechanical lap counter
- Cones to mark the turnaround
- Chair that can be easily moved along the walking course.

**Scoring:**

Total distance walked (rounding to the nearest meter) and the number and duration of rests during the test is reported.

#### Summary

The 2-Minute Walk Test (2MWT) assesses walking performance by measuring the distance a person is able to walk within 2 min.

The 2MWT is a measure of self-paced walking ability and functional capacity, particularly for those who cannot manage longer duration test like 6MWT.

The 2MWT is used as an outcome measure for patients with a variety of conditions and in multiple populations.

#### Availability

**Worksheet:** Can be found [here](#).

### Assessment Interpretability

#### Minimal Clinically Important Difference

Not established in SCI

#### Statistical Error

**Standard Error of Measurement:**

7.5 m (overall)  
8.5 m (slow walkers)  
7.3 m (fast walkers)

**Minimal Detectable Change:**

20.9 m (overall)  
23.6 m (slow walkers)  
20.3 m (fast walkers)

(Willi et al. 2023; n=50; 33 males, 17 females; mean (SD) age: 52.6 (16.3) years; ASIA A-D; 24 tetraplegia, 26 paraplegia; mean time since injury 6.11 years; 35m hallway)

#### Typical Values

Not established in SCI

## Measurement Properties

### Validity – **Moderate** to **High**

#### High correlation with 6-MWT:

$r = 0.992$

(Willi et al. 2023; n=50; 33 males, 17 females; mean (SD) age: 52.6 (16.3) years; ASIA A-D; 24 tetraplegia, 26 paraplegia; mean time since injury 6.11 years; 35m hallway)

#### High correlation with 10-MWT:

$r = 0.932 - 0.964$

#### Moderate to High correlation with WISCI II:

$r = 0.571 - 0.749$

(Willi et al. 2023; n=50; 33 males, 17 females; mean (SD) age: 52.6 (16.3) years; ASIA A-D; 24 tetraplegia, 26 paraplegia; mean time since injury 6.11 years; 35m hallway)

#### High correlation with SCI-FAI:

$r = 0.688 - 0.805$

#### High correlation with Berg Balance Scale:

$r = 0.781$

#### High correlation with TUG test:

$r = -0.623$

(Lemay & Nadeau 2010; n=32, 25 males, 7 females; mean (SD) age: 47.9 (12.8) years; ASIA D; tetraplegia and paraplegia; mean (SD) time since injury 77.2 (44.3) days)

**Number of studies reporting validity data: 2**

### Reliability – **High**

#### High Test-retest Reliability:

ICC = 0.980

(Willi et al. 2023; n=50; 33 males, 17 females; mean (SD) age: 52.6 (16.3) years; ASIA A-D; 24 tetraplegia, 26 paraplegia; mean time since injury 6.11 years; 35m hallway)

**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**