

Wheelchair Skills Test 4.1

Manual Wheelchair - Wheelchair User

Name: _11-year-old girl with spina bifida_
(VIDEO #5)

Date: _____ Tester: _____ CS _____

Time start: _____ Time finish: _____

Scoring Guide (see over for details)

✓ = pass, safe

* = fail, unsafe

NP = no part (only for indicated skills)

TE = testing error

Type of Test

Objective - Capacity

Questionnaire - Capacity

Questionnaire - Performance

	Individual Skills	Capacity/ Performance	Safety	Comments
1.	Rolls forward 10m	✓	✓	
2.	Rolls forward 10m in 30s	✓	✓	
3.	Rolls backward 5m	✓	✓	Could use more shoulder checks
4.	Turns 90° while moving forward ^{L&R}	✓	✓	
5.	Turns 90° while moving backward ^{L&R}	✓	✓	Minor TE re full right turn at start
6.	Turns 180° in place ^{L&R}	✓	✓	
7.	Maneuvers sideways ^{L&R}	✓	✓	Minor TE due to video
8.	Gets through hinged door in both directions	✓	✓	Minor TE due to video
9.	Reaches 1.5m high object	✓	✓	Would be safer with casters forward
10.	Picks object from floor	✓	✓	Would be safer with casters forward
11.	Relieves weight from buttocks	✓	✓	Would be safer with casters forward
12.	Transfers from WC to bench and back	TE	TE	Video doesn't show transfer out
13.	Folds and unfolds wheelchair	*	✓	Believed chair didn't fold but it did
14.	Rolls 100m	TE	TE	Could not see full distance
15.	Avoids moving obstacles ^{L&R}	TE	TE	Could not see obstacle from left
16.	Ascends 5° incline	✓	✓	
17.	Descends 5° incline	✓	✓	A little fast
18.	Ascends 10° incline	*	✓	Unable. Anti-tips a potential problem.
19.	Descends 10° incline	✓	✓	
20.	Rolls 2m across 5° side-slope ^{L&R}	✓	✓	
21.	Rolls 2m on soft surface	*	✓	Gravel. Got stuck. Leaning forward.
22.	Gets over 15cm pot-hole	*	✓	Casters into pot-hole. Needed help.
23.	Gets over 2cm threshold	✓	✓	
24.	Ascends 5cm level change	*	✓	
25.	Descends 5cm level change	✓	✓	Anti-tips scraped.
26.	Ascends 15cm curb	*	✓	Tried to use curb-cut.
27.	Descends 15cm curb	TE	TE	Not captured on video.
28.	Performs 30s stationary wheelie	*	✓	Declined to attempt.
29.	Turns 180° in place in wheelie position ^{L&R}	*	✓	Declined to attempt.
30.	Gets from ground into wheelchair	✓	✓	
31.	Ascends stairs	*	✓	Declined to attempt.
32.	Descends stairs	*	✓	Declined to attempt.
Total Percentage Scores		19/28=68%	28/28=100%	

Additional comments: _____

- **Note:** The WST 4.1 Manual should be consulted for scoring details (www.wheelchairskillsprogram.ca).

Scale for Scoring Skill Capacity/Performance

Pass: (on the Data Collection Form, record “P” or ✓)

- Task independently and safely accomplished. Unless otherwise specified, the skill may be performed in any manner. The focus is on the task requirements, not the method used. Aids may be used (section 2.23).
- A pass may be awarded if the subject passed a more difficult version of the same skill (e.g. if a subject successfully ascends a 15cm curb, a pass may be awarded on the 5cm level change without the subject needing to actually perform the latter).

Fail: (on the Data Collection Form, record “F” or ✗)

- Task incomplete.
- Unsafe performance (as defined in section 2.25).
- Likely to be unsafe in the opinion of the clinician or tester (e.g. on the basis of the subject’s description of how a task will be attempted).
- Unwilling to try.
- Has failed an easier version of the same skill (e.g. if the subject cannot roll forward 10m [#5.8], he/she need not be asked to roll 100m [#5.21]).
- If a caregiver is the subject of testing, he/she may not ask the wheelchair occupant for advice or physical assistance in the performance of the skill unless specifically permitted in the caregiver section of the individual skill descriptions (section 5).
- Wheelchair part malfunction.

Scale for Scoring Skill Safety

Safe: (on the Data Collection Form, record “S” or ✓)

- None of the unsafe criteria were met.
- Although a failing capacity score will be awarded in such circumstances, a safe score can be awarded to a person who states that he/she cannot do and/or will not attempt a skill.

Unsafe: (on the Data Collection Form, record “US” or ✗)

- Subject requires appropriate significant spotter intervention to prevent acute injury to the subject or others (section 2.26). Performing a skill quickly is not, in and of itself, unsafe. A significant intervention is one that affects performance of the skill.
- A significant acute injury occurred. This includes sprains, strains, fractures or head injury, but does not include minor blisters, abrasions or superficial lacerations. Poor technique that may or may not lead to overuse injury at a later time should be noted in the comments section, but does not warrant awarding an unsafe score.
- During screening questions (section 3), the subject describes a method of performing a skill that the tester considers dangerous.
- If a caregiver creates more than minimal discomfort or potential harm (e.g. using excessive force with the knee against a flexible backrest of the wheelchair to help push the wheelchair through gravel).
- Specific risks and whether they warrant an unsafe score or merely a recorded comment can be found later in the section on individual skills (section 5).

Note: If an easier version of the skill has been failed, the skill under consideration is not objectively tested, so the tester needs to determine whether the attempt would have been safe or unsafe on the basis of interview only.

For both Capacity/Performance and Safety

No Part: (on the Data Collection Form, record “NP”)

- As for Capacity scoring (Table 1).

Testing Error: (on the Data Collection Form, record “TE”)

- As for Capacity scoring (Table 1).

Total Capacity/Performance Score = # passed skills _____ / (32 - # NP - #TE) X 100% = _____%

Total Safety Score = # safe skills _____ / (32 - # NP - #TE) X 100% = _____%