

The 30 Second Sit to Stand Test: Summary

Equipment [1]:

- Stopwatch/clock
- Chair, 17 inches (43.2 cm) in height, placed against the wall
 (If unable to transfer patient safely to a chair, testing can be done from edge of bed)
- Another person to assist if required for safety

Patient Positioning:

- · Seated in middle of chair
- Back straight, feet approximately shoulder width apart, placed on floor at angle slightly back from knees
- One foot slightly in front of the other to help maintain balance
- Ideally, arms crossed at wrists and held against chest. This may not be feasible if patient is very deconditioned. If necessary patient may use a gait aid or the armrests of the chair to help them stand up

Testing Procedures:

- Assessor demonstrates one repetition
- Patient gets opportunity to practice one repetition (may not be feasible if patient is very deconditioned)

Instructions:

- Explain to the patient that this is a test of their maximal exercise capacity: "Try to complete as many full stands as possible within the 30 second time limit"
- Patient should rise to a full stand and then back to initial seated position with each repetition
- The test begins when the assessor says "Go"

Scoring:

- Score is the total amount of stands executed correctly within 30 seconds
- If patient is more than halfway up at the end of 30 seconds, count this as another full stand

Population Norms [2]:

n	6MWT (m)	Heart Rate 6MWT (bpm)	ST (s)	Heart Rate ST (bpm)	30sSTS (n)
(n=25)	649 (611-687)	152 (142-162)	33.0 (31.3-34.8)	172 (167-177)	26 (23-29)
(n=26)	650 (617-683)	154 (145-163)	34.0 (31.9-36.2)	170 (164-176)	24 (22-27
(n = 28)	664 (639-689)	143 (138-149)	35.0 (33.2-36.7)	164 (160-168)	25 (23-27
(n=27)	638 (614-662)	146 (139-154)	38.8 (36.6-41.1)	160 (154-166)	24 (22-26
(n=29)	573 (545-600)	137 (131-143)	46.2 (42.1-50.2)	149 (145-154)	21 (18-23
(n=37)	510 (488-531)	128 (123-134)	57.0 (53.5-60.4)	145 (139-152)	17 (16-19
(n = 20)	438 (399-476)	120 (112-128)	74.6 (64.8-84.5)*	133 (125-142)	14 (13-16
(n=192)	590 (575-604)	140 (137-143)	39.0 (36.5-42.0)**	157 (154-159)	22 (21-23
	100	Heart Rate 6MWT	100.000	100 IO BERLIN	
n	6MWT (m)	(bpm)	ST (s)	Heart Rate ST (bpm)	30sSTS (n)
(n = 23)	715 (688-741)	161 (153-169)	28.8 (27.7-30.0)	174 (169-179)	27 (25-30
(n = 24)	715 (690-740)	160 (152-168)	29.6 (28.0-31.3)	173 (167-179)	27 (25-30
(n = 26)	708 (680-736)	140 (133-148)	30.6 (28.6-32.6)	158 (151-164)	29 (27-32
(n = 32)	664 (638-689)	132 (125-139)	34.4 (32.8-36.1)	149 (144-155)	25 (23-27
(n = 25)	632 (600-664)	126 (118-134)	37.8 (35.1-40.5)	142 (136-148)	24 (22-27
(n = 30)	574 (541-607)	119 (113-126)	46.0 (42.1-49.9)*	131 (124-137)	19 (17-21
(n = 18)	506 (468-544)	117 (110-125)	56.6 (48.9-64.3)	130 (122-138)	17 (15-18
(n = 178)	648 (633-663)	136 (133-140)	33.9 (32.3-35.2)**	151 (148-154)	24 (23-25
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References:

- [1] Jones CJ, Rikli RE, Beam WC. A 30-s chair-stand test as a measure of lower body strength in community-residing older adults. Res Q Exerc Sport. 1999;70:113-9.
- [2] Tveter AT, Dagfinrud H, Moseng T, Holm I. Health-related physical fitness measures: reference values and reference equations for use in clinical practice. Arch Phys Med Rehabil. 2014;95:1366-73.

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