

Short Physical Performance Battery (SPPB) as a frailty measure

Scoring: SPPB scores range from zero to 12 possible points. SPPB score of 3-9 points in persons with possible sarcopenia but no mobility disability indicates frailty; SPPB score of 10 or greater for persons with no sarcopenia and no mobility disability indicates robustness. Persons with a score of 2 or lower who have sarcopenia, potential cachexia, and mobility disability are determined to be disabled.

Frailty Criterion	Definition
Usual Gait	Gait Speed Test: person attempts walk a 4-meter course at their usual speed, just as if walking down the street to
Speed	go to the store.
	0 points if unable to do the walk
	1 point if time is more than 8.70 sec
	2 points if time is 6.21 to 8.70 sec
	3 points if time is 4.82 to 6.20 sec
	4 points if time is less than 4.82 sec
	Equipment: walking course; stopwatch. Average of 2 attempts.
Repeated Chair	Chair Stand Test: person attempts to rise from a chair five times without using their arms.
Stands	0 points if unable to complete 5 chair stands or completes stands in >60 seconds
	1 point if chair stand time is 16.70 sec or more
	2 points if chair stand time is 13.70 to 16.69 sec or more
	3 points if chair stand time is 11.20 to 13.69 sec
	4 points if chair stand time is 11.19 sec or less
	Equipment: chair; stopwatch.
Standing	Three balance tests are performed and scored as follows:
Balance	Side-by-side stand: person attempts to stand with feet together, side-by-side, for 10 seconds.
	1 point if held for 10 seconds
	0 points if not held for 10 seconds or not attempted
	Semi-tandem stand: person attempts to stand with the side of the heel of one foot touching the big toe of the
	other foot for 10 seconds.
	1 point if held for 10 seconds
	0 points if not held for 10 seconds or not attempted
	Tandem stand: person attempts to stand with the heel of one foot in front of and touching the toes of the other
	foot for about 10 seconds.
	2 points if held for 10 seconds
	1 point if held for 3 to 9.99 seconds
	0 points if held for <3 seconds or not attempted
Ì	Equipment: stopwatch.

References:

Cesari M, Landi F, Calvani R, et al. Rationale for a preliminary operational definition of physical frailty and sarcopenia in the SPRINTT trial. *Aging Clin Exp Res.* 2017;29(1):81-88.

Guralnik JM, Simonsick EM, Ferrucci L, et al. A short physical performance battery assessing lower extremity function: association with self-reported disability and prediction of mortality and nursing home admission. *J Gerontol.* 1994 Mar 1;49(2):M85-94.