

Appendix F, Table 5: Differential Item Functioning of Physical Function Domain, OA-K cross-sectional sample

Items	Chi ² Values		McFadden Pseudo R ² Change Value		DIF Interpret.
	Uniform	Non-uniform	Uniform	Non-uniform	
	Model 1 v 2	Model 2 v 3	Model 1 v 2	Model 2 v 3	
Sex (male vs. female)					
Are you able to go for a walk of at least 15 minutes?	0.998	0.738	0.000	0.000	No
Are you able to walk a block (about 100 m) on flat ground?	0.340	0.192	0.001	0.001	No
Are you able to run 100 yards (100 m)?	0.000	0.153	0.015	0.001	No
Does your health now limit you in climbing one flight of stairs?	0.110	0.780	0.002	0.000	No
Are you able to stand unsupported for 10 minutes?	0.026	0.410	0.003	0.000	No
Are you able to walk at a normal speed?	0.947	0.929	0.000	0.000	No
Are you able to sit on and get up from the toilet?	0.000	0.204	0.013	0.001	No
Does your health now limit you in walking more than a mile (1.6 km)?	0.007	0.112	0.004	0.001	No
Are you able to straighten your knee?	0.000	0.787	0.013	0.000	No
Are you able to bend your knee?	0.003	0.100	0.006	0.002	No
Does your knee condition limit you in walking on uneven ground?	0.146	0.256	0.002	0.001	No
I use a cane, walker, or other support to prevent a fall.	0.038	0.468	0.002	0.000	No
My concern about falling limits the things I can do.	0.084	0.069	0.002	0.002	No
Age (≤55 vs. >55)					
Are you able to go for a walk of at least 15 minutes?	0.226	0.474	0.001	0.000	No
Are you able to walk a block (about 100 m) on flat ground?	0.023	0.036	0.003	0.003	No
Are you able to run 100 yards (100 m)?	0.000	0.621	0.026	0.000	No
Does your health now limit you in climbing one flight of stairs?	0.829	0.158	0.000	0.001	No
Are you able to stand unsupported for 10 minutes?	0.794	0.084	0.000	0.002	No
Are you able to walk at a normal speed?	0.058	0.848	0.002	0.000	No
Are you able to sit on and get up from the toilet?	0.000	0.016	0.013	0.004	No
Does your health now limit you in walking more than a mile (1.6 km)?	0.000	0.414	0.014	0.000	No
Are you able to straighten your knee?	0.000	0.029	0.017	0.003	No
Are you able to bend your knee?	0.000	0.006	0.015	0.005	No
Does your knee condition limit you in walking on uneven ground?	0.102	0.558	0.002	0.000	No
I use a cane, walker, or other support to prevent a fall.	0.007	0.577	0.004	0.000	No
My concern about falling limits the things I can do.	0.877	0.182	0.000	0.001	No

Items	Chi ² Values		McFadden Pseudo R ²		DIF Interpret.
	Uniform	Non-uniform	Uniform	Non-uniform	
	Model 1 v 2	Model 2 v 3	Model 1 v 2	Model 2 v 3	
Education (completed college or not)					
Are you able to go for a walk of at least 15 minutes?	0.114	0.945	0.002	0.000	No
Are you able to walk a block (about 100 m) on flat ground?	0.091	0.555	0.002	0.000	No
Are you able to run 100 yards (100 m)?	0.000	0.902	0.019	0.000	No
Does your health now limit you in climbing one flight of stairs?	0.585	0.459	0.000	0.000	No
Are you able to stand unsupported for 10 minutes?	0.012	0.079	0.004	0.002	No
Are you able to walk at a normal speed?	0.639	0.933	0.000	0.000	No
Are you able to sit on and get up from the toilet?	0.000	0.326	0.010	0.001	No
Does your health now limit you in walking more than a mile (1.6 km)?	0.000	0.625	0.013	0.000	No
Are you able to straighten your knee?	0.115	0.818	0.002	0.000	No
Are you able to bend your knee?	0.085	0.784	0.002	0.000	No
Does your knee condition limit you in walking on uneven ground?	0.237	0.591	0.001	0.000	No
I use a cane, walker, or other support to prevent a fall.	0.001	0.272	0.007	0.001	No
My concern about falling limits the things I can do.	0.296	0.552	0.001	0.000	No

Abbreviation: DIF is Differential Item Functioning, Interpret. is Interpretation. Models: Model 1 = ability explanatory term only; Model 2 = ability + group explanatory terms; Model 3 = ability + group + ability-by-group interaction explanatory terms.