

Appendix E, Table 7: Differential Item Functioning of Physical Function Domain, HF cross-sectional sample

| Items | Chi ² Values | | McFadden Pseudo R ² Change Value | | DIF Interpret. |
|--|-------------------------|-------------------------|---|-------------------------|----------------|
| | Uniform Model 1 v 2 | Non-uniform Model 2 v 3 | Uniform Model 1 v 2 | Non-uniform Model 2 v 3 | |
| Sex (male vs. female) | | | | | |
| Does your health now limit you in bending, kneeling, or stooping? | 0.022 | 0.949 | 0.003 | 0.000 | No |
| Does your health now limit you in doing heavy work around the house like scrubbing floors, or lifting or moving heavy furniture? | 0.658 | 0.431 | 0.000 | 0.000 | No |
| Are you able to push open a heavy door? | 0.308 | 0.078 | 0.001 | 0.002 | No |
| Are you able to go for a walk of at least 15 minutes? | 0.191 | 0.357 | 0.001 | 0.001 | No |
| Does your health now limit you in going OUTSIDE the home, for example to shop or visit a doctor's office? | 0.523 | 0.586 | 0.000 | 0.000 | No |
| Are you able to walk a block (about 100 m) on flat ground? | 0.465 | 0.045 | 0.000 | 0.002 | No |
| Are you able to run 100 yards (100 m)? | 0.715 | 0.175 | 0.000 | 0.001 | No |
| Are you able to walk up and down two steps? | 0.469 | 0.594 | 0.000 | 0.000 | No |
| Does your health now limit you in climbing one flight of stairs? | 0.019 | 0.229 | 0.003 | 0.001 | No |
| Does your health now limit you in walking about the house? | 0.945 | 0.025 | 0.000 | 0.003 | No |
| Age (≤55 vs. >55) | | | | | |
| Does your health now limit you in bending, kneeling, or stooping? | 0.060 | 0.141 | 0.002 | 0.001 | No |
| Does your health now limit you in doing heavy work around the house like scrubbing floors, or lifting or moving heavy furniture? | 0.305 | 0.448 | 0.001 | 0.000 | No |
| Are you able to push open a heavy door? | 0.939 | 0.433 | 0.000 | 0.000 | No |
| Are you able to go for a walk of at least 15 minutes? | 0.723 | 0.841 | 0.000 | 0.000 | No |

| Items | Chi ² Values | | McFadden Pseudo R ² Change Value | | DIF Interpret. |
|--|-------------------------|-------------------------|---|-------------------------|----------------|
| | Uniform Model 1 v 2 | Non-uniform Model 2 v 3 | Uniform Model 1 v 2 | Non-uniform Model 2 v 3 | |
| Age (≤55 vs. >55) - continued | | | | | |
| Does your health now limit you in going OUTSIDE the home, for example to shop or visit a doctor's office? | 0.347 | 0.134 | 0.001 | 0.001 | No |
| Are you able to walk a block (about 100 m) on flat ground? | 0.261 | 0.027 | 0.001 | 0.003 | No |
| Are you able to run 100 yards (100 m)? | 0.081 | 0.000 | 0.002 | 0.007 | No |
| Are you able to walk up and down two steps? | 0.720 | 0.151 | 0.000 | 0.001 | No |
| Does your health now limit you in climbing one flight of stairs? | 0.817 | 0.594 | 0.000 | 0.000 | No |
| Does your health now limit you in walking about the house? | 0.000 | 0.337 | 0.008 | 0.001 | No |
| Education (completed college or not) | | | | | |
| Does your health now limit you in bending, kneeling, or stooping? | 0.599 | 0.115 | 0.000 | 0.002 | No |
| Does your health now limit you in doing heavy work around the house like scrubbing floors, or lifting or moving heavy furniture? | 0.000 | 0.019 | 0.020 | 0.003 | No |
| Are you able to push open a heavy door? | 0.476 | 0.017 | 0.000 | 0.004 | No |
| Are you able to go for a walk of at least 15 minutes? | 0.001 | 0.257 | 0.006 | 0.001 | No |
| Does your health now limit you in going OUTSIDE the home, for example to shop or visit a doctor's office? | 0.002 | 0.525 | 0.006 | 0.000 | No |
| Are you able to walk a block (about 100 m) on flat ground? | 0.389 | 0.872 | 0.000 | 0.000 | No |
| Are you able to run 100 yards (100 m)? | 0.000 | 0.377 | 0.021 | 0.000 | No |
| Are you able to walk up and down two steps? | 0.000 | 0.636 | 0.012 | 0.000 | No |
| Does your health now limit you in climbing one flight of stairs? | 0.152 | 0.500 | 0.001 | 0.000 | No |
| Does your health now limit you in walking about the house? | 0.002 | 0.060 | 0.006 | 0.002 | 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.