

**Appendix E, Table 1: Differential Item Functioning of Ability to Participate in Social Roles and Activities Domain, HF cross-sectional sample**

| Items   | <u>Chi<sup>2</sup> Values</u> |                         | <u>McFadden Pseudo R<sup>2</sup></u> |                         | DIF Interpret. |
|---|-------------------------------|-------------------------|--------------------------------------|-------------------------|----------------|
|   | Uniform Model 1 v 2           | Non-uniform Model 2 v 3 | <u>Change Value</u>                  |                         |                |
|   |                               |                         | Uniform Model 1 v 2                  | Non-uniform Model 2 v 3 |                |
| <b>Sex (male vs. female)</b>  |                               |                         |                                      |                         |                |
| I have trouble doing my regular daily work around the house                       | 0.029                         | 0.169                   | 0.003                                | 0.001                   | No             |
| I have trouble meeting the needs of my family                                     | 0.753                         | 0.005                   | 0.000                                | 0.005                   | No             |
| I am limited in doing my work (include work at home)                              | 0.510                         | 0.835                   | 0.000                                | 0.000                   | No             |
| I have trouble doing everything for my family that I feel I should do             | 0.074                         | 0.150                   | 0.002                                | 0.001                   | No             |
| I have trouble accomplishing my usual work (include work at home)                 | 0.441                         | 0.619                   | 0.000                                | 0.000                   | No             |
| I have trouble doing everything for work that I want to do (include work at home) | 0.742                         | 0.549                   | 0.000                                | 0.000                   | No             |
| <b>Age (≤55 vs. &gt;55)</b>   |                               |                         |                                      |                         |                |
| I have trouble doing my regular daily work around the house                       | 0.287                         | 0.869                   | 0.001                                | 0.000                   | No             |
| I have trouble meeting the needs of my family                                     | 0.053                         | 0.956                   | 0.002                                | 0.000                   | No             |
| I am limited in doing my work (include work at home)                              | 0.687                         | 0.904                   | 0.000                                | 0.000                   | No             |
| I have trouble doing everything for my family that I feel I should do             | 0.767                         | 0.652                   | 0.000                                | 0.000                   | No             |
| I have trouble accomplishing my usual work (include work at home)                 | 0.005                         | 0.483                   | 0.005                                | 0.000                   | No             |
| I have trouble doing everything for work that I want to do (include work at home) | 0.670                         | 0.731                   | 0.000                                | 0.000                   | No             |
| <b>Education (completed college or not)</b>                                       |                               |                         |                                      |                         |                |
| I have trouble doing my regular daily work around the house                       | 0.096                         | 0.021                   | 0.002                                | 0.003                   | No             |
| I have trouble meeting the needs of my family                                     | 0.157                         | 0.007                   | 0.001                                | 0.004                   | No             |
| I am limited in doing my work (include work at home)                              | 0.177                         | 0.775                   | 0.001                                | 0.000                   | No             |
| I have trouble doing everything for my family that I feel I should do             | 0.374                         | 0.636                   | 0.001                                | 0.000                   | No             |
| I have trouble accomplishing my usual work (include work at home)                 | 0.315                         | 0.748                   | 0.001                                | 0.000                   | No             |
| I have trouble doing everything for work that I want to do (include work at home) | 0.448                         | 0.530                   | 0.000                                | 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.