

Appendix E, Table 5: Differential Item Functioning of Fatigue Domain, HF cross-sectional sample

Items	Chi <sup>2</sup> Values		McFadden Pseudo R <sup>2</sup>		DIF Interpret.
	Uniform	Non-uniform	Uniform	Non-uniform	
	Model 1 v 2	Model 2 v 3	Model 1 v 2	Model 2 v 3	
<b>Sex (male vs. female)</b>					
In the past 7 days, to what degree did you have to push yourself to get things done because of your fatigue?	0.009	0.313	0.004	0.001	No
In the past 7 days, how often did your fatigue make you feel slowed down in your thinking?	0.322	0.495	0.001	0.000	No
In the past 7 days, how often did you have to limit your social activities because of your fatigue?	0.724	0.902	0.000	0.000	No
In the past 7 days, how often were you too tired to do your household chores?	0.516	0.914	0.000	0.000	No
In the past 7 days, how often did you run out of energy?	0.922	0.940	0.000	0.000	No
In the past 7 days, how often did you feel tired?	0.001	0.571	0.007	0.000	No
During the past 7 days: I feel weak all over	0.803	0.104	0.000	0.002	No
During the past 7 days: I feel tired	0.438	0.278	0.000	0.001	No
During the past 7 days: I have energy	0.000	0.385	0.011	0.001	No
During the past 7 days: I am able to do my usual activities	0.025	0.284	0.003	0.001	No
In the past 7 days, how often did you need to take breaks to finish daily tasks?	0.454	0.585	0.000	0.000	No

Items	Chi <sup>2</sup> Values		McFadden Pseudo R <sup>2</sup> 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	
<b>Age (≤55 vs. &gt;55)</b>					
In the past 7 days, to what degree did you have to push yourself to get things done because of your fatigue?	0.087	0.197	0.002	0.001	No
In the past 7 days, how often did your fatigue make you feel slowed down in your thinking?	0.677	0.768	0.000	0.000	No
In the past 7 days, how often did you have to limit your social activities because of your fatigue?	0.658	0.107	0.000	0.002	No
In the past 7 days, how often were you too tired to do your household chores?	0.307	0.252	0.001	0.001	No
In the past 7 days, how often did you run out of energy?	0.540	0.786	0.000	0.000	No
In the past 7 days, how often did you feel tired?	0.607	0.311	0.000	0.001	No
During the past 7 days: I feel weak all over	0.975	0.068	0.000	0.002	No
During the past 7 days: I feel tired	0.314	0.338	0.001	0.001	No
During the past 7 days: I have energy	0.311	0.002	0.001	0.006	No
During the past 7 days: I am able to do my usual activities	0.180	0.000	0.001	0.008	No
In the past 7 days, how often did you need to take breaks to finish daily tasks?	0.897	0.645	0.000	0.000	No

Items	<u>Chi<sup>2</sup> Values</u>		<u>McFadden Pseudo R<sup>2</sup></u>		DIF Interpret.
	Uniform	Non-uniform	Uniform	Non-uniform	
	Model 1 v 2	Model 2 v 3	Model 1 v 2	Model 2 v 3	
<b>Education (completed college or not)</b>					
In the past 7 days, to what degree did you have to push yourself to get things done because of your fatigue?	0.049	0.172	0.002	0.001	No
In the past 7 days, how often did your fatigue make you feel slowed down in your thinking?	0.007	0.511	0.004	0.000	No
In the past 7 days, how often did you have to limit your social activities because of your fatigue?	0.253	0.139	0.001	0.001	No
In the past 7 days, how often were you too tired to do your household chores?	0.291	0.812	0.001	0.000	No
In the past 7 days, how often did you run out of energy?	0.007	0.212	0.005	0.001	No
In the past 7 days, how often did you feel tired?	0.005	0.098	0.005	0.002	No
During the past 7 days: I feel weak all over	0.488	0.845	0.000	0.000	No
During the past 7 days: I feel tired	0.457	0.574	0.000	0.000	No
During the past 7 days: I have energy	0.020	0.000	0.003	0.010	No
During the past 7 days: I am able to do my usual activities	0.843	0.002	0.000	0.006	No
In the past 7 days, how often did you need to take breaks to finish daily tasks?	0.819	0.667	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.