

Appendix F, Table 4: Differential Item Functioning of Pain Interference Domain, OA-K cross-sectional sample

Items	Chi <sup>2</sup> Values		McFadden Pseudo R <sup>2</sup> 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	
<b>Sex (male vs. female)</b>					
In the past 7 days...					
How much did pain interfere with your enjoyment of life?	0.758	0.137	0.000	0.001	No
How much did pain interfere with your close personal relationships?	0.001	0.909	0.007	0.000	No
How much did pain interfere with your day to day activities?	0.144	0.661	0.001	0.000	No
How much did pain interfere with your ability to work (include work at home)?	0.983	0.729	0.000	0.000	No
How much did pain interfere with your ability to participate in social activities?	0.002	0.962	0.005	0.000	No
How much did pain interfere with your ability to remember things?	0.000	0.725	0.009	0.000	No
How irritable did you feel because of pain?	0.001	0.551	0.006	0.000	No
How often did pain prevent you from walking more than 1 mile?	0.001	0.376	0.006	0.000	No
How much did knee pain limit your daily activities?	0.176	0.299	0.001	0.001	No
How much did knee pain interfere with your walking?	0.234	0.483	0.001	0.000	No
How much did knee pain interfere with going up stairs?	0.000	0.830	0.009	0.000	No
How much did knee pain interfere with going down stairs?	0.081	0.109	0.002	0.001	No
How often did knee pain make you feel depressed?	0.563	0.651	0.000	0.000	No

Items	Chi <sup>2</sup> Values		McFadden Pseudo R <sup>2</sup> 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	
<b>Age (≤55 vs. &gt;55)</b>					
In the past 7 days...					
How much did pain interfere with your enjoyment of life?	0.691	0.077	0.000	0.002	No
How much did pain interfere with your close personal relationships?	0.000	0.372	0.011	0.000	No
How much did pain interfere with your day to day activities?	0.307	0.831	0.001	0.000	No
How much did pain interfere with your ability to work (include work at home)?	0.522	0.279	0.000	0.001	No
How much did pain interfere with your ability to participate in social activities?	0.944	0.163	0.000	0.001	No
How much did pain interfere with your ability to remember things?	0.000	0.563	0.033	0.000	No
How irritable did you feel because of pain?	0.000	0.850	0.011	0.000	No
How often did pain prevent you from walking more than 1 mile?	0.000	0.048	0.022	0.002	No
How much did knee pain limit your daily activities?	0.001	0.758	0.006	0.000	No
How much did knee pain interfere with your walking?	0.085	0.291	0.002	0.001	No
How much did knee pain interfere with going up stairs?	0.075	0.573	0.002	0.000	No
How much did knee pain interfere with going down stairs?	0.055	0.201	0.002	0.001	No
How often did knee pain make you feel depressed?	0.000	0.454	0.013	0.000	No

Items	Chi <sup>2</sup> Values		McFadden Pseudo R <sup>2</sup> 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	
<b>Education (completed college or not)</b>					
In the past 7 days...					
How much did pain interfere with your enjoyment of life?	0.229	0.480	0.001	0.000	No
How much did pain interfere with your close personal relationships?	0.034	0.892	0.003	0.000	No
How much did pain interfere with your day to day activities?	0.649	0.032	0.000	0.003	No
How much did pain interfere with your ability to work (include work at home)?	0.238	0.801	0.001	0.000	No
How much did pain interfere with your ability to participate in social activities?	0.004	0.243	0.005	0.001	No
How much did pain interfere with your ability to remember things?	0.000	0.409	0.010	0.000	No
How irritable did you feel because of pain?	0.997	0.051	0.000	0.002	No
How often did pain prevent you from walking more than 1 mile?	0.000	0.099	0.013	0.002	No
How much did knee pain limit your daily activities?	0.319	0.545	0.001	0.000	No
How much did knee pain interfere with your walking?	0.001	0.731	0.006	0.000	No
How much did knee pain interfere with going up stairs?	0.051	0.511	0.002	0.000	No
How much did knee pain interfere with going down stairs?	0.898	0.794	0.000	0.000	No
How often did knee pain make you feel depressed?	0.326	0.925	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.