

Additional File 4

Supplementary table 1. Standardized factor loadings in the first bifactor model (Bifactor 1).

Scales	Items	Factor loading		
		General HRQOL factor	Group factor	
Physical function	3. Vigorous activities	0.552	0.446	
	4. Moderate activities	0.593	0.623	
	5. Lift, carry groceries	0.553	0.621	
	6. Climb several flights	0.568	0.666	
	7. Climb one flight	0.532	0.696	
	8. Bend, kneel	0.550	0.595	
	9. Walk mile	0.554	0.670	
	10. Walk several blocks	0.525	0.734	
	11. Walk one block	0.487	0.727	
	12. Bath, Dress	0.460	0.524	
	Role limitations due to physical problems	13. Cut down time	0.541	0.537
		14. Accomplished less	0.571	0.572
15. Limited in kind		0.580	0.645	
16. Had difficulty		0.594	0.586	
Role limitations due to emotional problems	17. Cut down time	0.504	0.646	
	18. Accomplished less	0.515	0.699	
	19. Not careful	0.509	0.592	
Bodily pain	21. Pain magnitude	0.575	0.703	
	22. Pain interfere with work	0.611	0.653	
	22. Pain interfere with enjoyment	0.601	0.652	
Emotional wellbeing	24. Nervous person	0.372	0.531	
	25. Down in dumps	0.561	0.584	
	26. Peaceful	0.563	0.368	
	28. Blue/Sad	0.594	0.592	
	30. Happy	0.536	0.431	
Energy	23. Pep/life	0.714	0.204	
	27. Energy	0.717	0.243	
	29. Worn out	0.624	0.546	
	31. Tired	0.620	0.602	
	32. Rested on walking in the morning	0.519	0.280	
Health perceptions	1. EVGFP rating	0.638	0.451	
	34. Sick easier	0.417	0.269	
	35. As healthy	0.464	0.574	
	36. Health to get worse	0.450	0.233	
	37. Health excellent	0.590	0.658	
Cognitive function	42. Concentration and thinking	0.592	0.710	
	43. Sustained attention	0.576	0.700	
	44. Memory	0.468	0.708	
	45. Others note troubles with memory/concentration	0.436	0.564	
Health distress	38. Discouraged	0.729	0.508	
	39. Frustrated	0.712	0.544	
	40. Worried for life	0.624	0.543	
	41. Weighed down	0.694	0.563	
Sexual function	46. Lack if sexual interest	0.346	0.684	
	47. Erection/Lubrication	0.299	0.758	
	48. Orgasm	0.348	0.724	
	49. Satisfy sexual partner	0.377	0.657	
Social function	20. Social extent, physical health	0.735	0.873	
	33. Social time	0.757	0.209	
	51. Social extent, bowel or bladder	0.502	0.030	
Overall quality of life	53. 0-10 NRS rating	0.735	-	
	54. TUMMMPO rating	0.685	-	

EVGFP, Excellent, Very good, Good, Fair, Poor. HRQOL, health-related quality of life. NRS, Numeric Rating Scale. TUMMMPO, Terrible, Unhappy, Mostly dissatisfied, Mixed – about equally satisfied and dissatisfied, Pleased, Delighted.

Correlations between residuals: 0.524 (items 53 and 54).

Coefficients <0.40 are reported in bold; all the loadings are statistically significant at $p < 0.001$, with the exception of the three items of the social function subscale that are not statistically significant.