

Supplementary material to article by L. Turner-Stokes et al. "Rasch analysis of the uk functional assessment measure (UK FIM+FAM) in a sample of patients with traumatic brain injury from the UK national clinical database"

Table SI. Frequency distribution of responses and Rasch model fit statistics for the UK Functional Assessment Measure (UK FIM+FAM) items ($n = 1,956$)

Item	Description	Location	Fit Residual	χ^2 **	Frequency distribution across scoring categories						
					Cat 1	Cat 2	Cat 3	Cat 4	Cat 5	Cat 6	Cat 7
Motor											
1	Eating	-0.59	0.78	24.01	230	61	46	54	228	186	1,027
2	Swallowing*	-0.87	6.19	27.07	145	65	58	48	121	140	1,255
3	Grooming*	-0.25	-10.50	165.35	233	140	119	167	359	197	617
4	Bathing*	0.08	-12.12	171.67	341	171	141	206	274	226	473
5	Dressing – upper*	-0.21	-10.67	130.17	272	149	136	150	252	197	676
6	Dressing – lower*	0.04	-11.15	118.00	386	161	142	155	199	199	590
7	Toileting*	-0.11	-10.31	115.41	401	132	104	102	141	177	775
8	Bladder*	-0.20	5.17	19.86	390	112	94	58	128	149	901
9	Bowel*	-0.24	-5.34	46.54	371	129	62	60	130	162	918
10	Bed transfers*	-0.16	-7.58	60.49	390	52	152	107	152	194	785
11	Toilet transfers*	-0.11	-6.89	56.38	420	56	122	114	145	210	765
12	Bath transfers*	0.09	-2.82	17.40	504	54	116	118	184	264	592
13	Car transfers	0.32	1.29	14.29	788	28	58	80	115	174	589
14	Locomotion	0.10	-1.92	13.88	526	68	52	70	209	315	578
15	Stairs	0.53	0.11	13.75	878	27	40	46	155	303	383
16	Community mobility*	0.98	0.27	47.68	901	143	213	72	178	150	175
Communication											
17	Comprehension	-0.38	0.64	5.36	146	129	146	105	393	457	456
18	Expression	-0.28	1.00	9.84	211	132	106	152	295	400	536
19	Reading*	0.10	7.22	158.52	435	66	71	149	330	325	456
20	Writing*	0.26	8.23	149.00	549	76	135	156	215	292	409
21	Speech* intelligibility	-0.75	4.79	41.44	126	71	107	97	177	258	996
Psychosocial											
22	Social interaction*	-0.41	6.71	70.42	162	119	149	122	292	366	622
23	Emotional status*	-0.10	20.32	607.34	283	148	103	98	248	439	513
24	Adjustment to limitations*	0.40	2.89	29.64	348	304	244	135	295	302	204
25	Use of leisure time	0.33	0.90	7.78	357	265	193	137	208	453	219
26	Problem solving*	0.64	-4.67	51.23	429	251	176	182	360	313	121
27	Memory*	0.37	1.54	32.41	381	269	201	197	266	282	236
28	Orientation*	-0.10	0.58	30.21	307	192	153	151	159	227	643
29	Concentration	0.03	-0.52	4.69	197	215	239	205	353	335	288
30	Safety awareness	0.49	-0.04	13.89	324	466	223	173	165	266	215
Domain subtests											
1	Motor*	0.01	-2.74	46.61							
2	Communication	-0.07	0.77	71.17							
3	Psychosocial	0.06	1.37	41.34							

*Significant misfit to the Rasch model $p < 0.05$; bold numbers indicate parameters associated with Rasch model misfit.