



This is a repository copy of *Implausible states: prevalence of EQ-5D-5L states in the general population and its effect on health state valuation*.

White Rose Research Online URL for this paper:
<https://eprints.whiterose.ac.uk/161290/>

Version: Supplemental Material

Article:

Marten, O., Mulhern, B., Bansback, N. et al. (1 more author) (2020) Implausible states: prevalence of EQ-5D-5L states in the general population and its effect on health state valuation. *Medical Decision Making*, 40 (6). pp. 735-745. ISSN 0272-989X

<https://doi.org/10.1177/0272989X20940673>

Marten O, Mulhern B, Bansback N, Tsuchiya A. Implausible States: Prevalence of EQ-5D-5L States in the General Population and Its Effect on Health State Valuation. *Medical Decision Making*. 2020;40(6):735-745. Copyright © 2020 The Author(s). DOI: <https://doi.org/10.1177/0272989X20940673>. Article available under the terms of the CC-BY-NC-ND licence (<https://creativecommons.org/licenses/by-nc-nd/4.0/>).

Reuse

This article is distributed under the terms of the Creative Commons Attribution-NonCommercial-NoDerivs (CC BY-NC-ND) licence. This licence only allows you to download this work and share it with others as long as you credit the authors, but you can't change the article in any way or use it commercially. More information and the full terms of the licence here: <https://creativecommons.org/licenses/>

Takedown

If you consider content in White Rose Research Online to be in breach of UK law, please notify us by emailing eprints@whiterose.ac.uk including the URL of the record and the reason for the withdrawal request.



eprints@whiterose.ac.uk
<https://eprints.whiterose.ac.uk/>

Appendix - Implausible states: prevalence of EQ-5D-5L states in the general population and its effect on health state valuation

Ole Marten (Bielefeld University, Germany), corresponding author <ole.marten@uni-bielefeld.de>

Brendan Mulhern (University of Technology Sydney, Australia)

Nick Bansback (University of British Columbia, Canada)

Aki Tsuchiya (University of Sheffield, UK)

Section A

Appendix Table 1: Cross-tab of frequencies of respondents at different levels of mobility and self-care.

Self-Care Mobility						
	1	2	3	4	5	Total
1	1,143,228	6,911	2,244	505	509	1,153,397
2	199,003	23,619	3,937	629	569	227,757
3	88,432	33,159	25,962	2,048	764	150,365
4	22,108	19,600	33,063	17,934	2,950	95,655
5	2,065	992	1,633	2,002	5,587	12,279
Total	1,454,836	84,281	66,839	23,118	10,379	1,639,453

Appendix Table 2: Cross-tab of frequencies of respondents at different levels of mobility and usual activities.

Usual Activities Mobility						
	1	2	3	4	5	Total
1	1,049,134	83,060	16,438	3,210	1,555	1,153,397
2	78,436	120,365	23,754	3,302	1,900	227,757
3	13,932	43,595	76,110	12,317	4,411	150,365
4	1,924	6,565	29,154	43,260	14,752	95,655
5	1,389	556	1,044	2,121	7,169	12,279
Total	1,144,815	254,141	146,500	64,210	29,787	1,639,453

Appendix Table 3: Cross-tab of frequencies of respondents at different levels of mobility and pain/discomfort.

Pain/Discomfort Mobility						
	1	2	3	4	5	Total
1	729,460	338,033	75,948	8,746	1,210	1,153,397
2	20,169	126,611	68,766	11,061	1,150	227,757
3	7,120	29,983	83,713	27,069	2,480	150,365
4	2,163	6,189	27,906	45,488	13,909	95,655
5	1,911	2,262	3,537	2,374	2,195	12,279
Total	760,823	503,078	259,870	94,738	20,944	1,639,453

Appendix Table 4: Cross-tab of frequencies of respondents at different levels of mobility and anxiety/depression.

Anxiety/Depression Mobility						
	1	2	3	4	5	Total
1	881,802	192,940	62,549	11,298	4,808	1,153,397
2	137,678	61,001	21,866	4,885	2,327	227,757
3	70,406	42,009	28,523	6,658	2,769	150,365
4	29,868	24,277	26,745	9,927	4,838	95,655
5	4,625	3,028	2,777	863	986	12,279
Total	1,124,379	323,255	142,460	33,631	15,728	1,639,453

Appendix Table 5: Cross-tab of frequencies of respondents at different levels of self-care and usual activities.

Usual Activities Self-Care						
	1	2	3	4	5	Total
1	1,141,250	219,602	76,849	12,395	4,740	1,454,836
2	2,452	30,931	34,628	12,296	3,974	84,281
3	433	3,001	32,689	23,853	6,863	66,839
4	122	226	1,827	14,354	6,589	23,118
5	558	381	507	1,312	7,621	10,379
Total	1,144,815	254,141	146,500	64,210	29,787	1,639,453

Appendix Table 6: Cross-tab of frequencies of respondents at different levels of self-care and pain/discomfort.

Pain/Discomfort Self-Care						
	1	2	3	4	5	Total
1	751,630	475,347	189,476	34,597	3,786	1,454,836
2	4,471	19,405	37,372	19,920	3,113	84,281
3	2,368	5,083	25,835	27,517	6,036	66,839
4	789	1,291	4,266	10,755	6,017	23,118
5	1,565	1,952	2,921	1,949	1,992	10,379
Total	760,823	503,078	259,870	94,738	20,944	1,639,453

Appendix Table 7: Cross-tab of frequencies of respondents at different levels of self-care and anxiety/depression.

Anxiety/ Depression Self-Care	1	2	3	4	5	Total
1	1,069,470	269,922	92,899	16,092	6,453	1,454,836
2	30,913	28,712	17,392	5,038	2,226	84,281
3	16,706	17,806	22,195	6,995	3,137	66,839
4	3,997	4,375	7,480	4,554	2,712	23,118
5	3,293	2,440	2,494	952	1,200	10,379
Total	1,124,379	323,255	142,460	33,631	15,728	1,639,453

Appendix Table 8: Cross-tab of frequencies of respondents at different levels of usual activities and pain/discomfort.

Pain/Discomfort Usual Activities	1	2	3	4	5	Total
1	723,413	342,443	71,433	6,710	816	1,144,815
2	24,167	131,627	83,765	13,470	1,112	254,141
3	8,428	21,204	79,700	34,045	3,123	146,500
4	2,414	4,001	16,308	31,927	9,560	64,210
5	2,401	3,803	8,664	8,586	6,333	29,787
Total	760,823	503,078	259,870	94,738	20,944	1,639,453

Appendix Table 9: Cross-tab of frequencies of respondents at different levels of usual activities and anxiety/depression.

Anxiety/ Depression Usual Activities	1	2	3	4	5	Total
1	899,887	183,172	52,951	6,585	2,220	1,144,815
2	142,619	75,426	28,153	5,910	2,033	254,141
3	58,247	42,294	33,845	8,817	3,297	146,500
4	15,471	15,135	19,436	9,170	4,998	64,210
5	8,155	7,228	8,075	3,149	3,180	29,787
Total	1,124,379	323,255	142,460	33,631	15,728	1,639,453

Appendix Table 10: Cross-tab of frequencies of respondents at different levels of pain/discomfort and anxiety/depression.

Anxiety/ Depression Pain/Discomfort	1	2	3	4	5	Total
1	623,750	96,165	32,343	5,883	2,682	760,823
2	335,246	126,373	33,665	5,504	2,290	503,078
3	132,123	72,693	43,804	8,096	3,154	259,870
4	29,359	24,234	26,899	10,597	3,649	94,738
5	3,901	3,790	5,749	3,551	3,953	20,944
Total	1,124,379	323,255	142,460	33,631	15,728	1,639,453

Section B

Appendix Table 11: Cross-tab of frequencies of unreported health states at different levels of mobility and self-care.

Self-Care Mobility						
	1	2	3	4	5	Total
1	0	3	9	30	33	75
2	0	3	9	25	30	67
3	0	5	5	27	32	69
4	0	9	12	21	35	77
5	8	30	29	38	25	130
Total	8	50	64	141	155	418

Appendix Table 12: Cross-tab of frequencies of unreported health states at different levels of mobility and usual activities.

Usual Activities Mobility						
	1	2	3	4	5	Total
1	31	25	13	6	0	75
2	38	13	9	5	2	67
3	40	19	8	2	0	69
4	39	30	7	1	0	77
5	51	46	23	6	4	130
Total	199	133	60	20	6	418

Appendix Table 13: Cross-tab of frequencies of unreported health states at different levels of mobility and pain/discomfort.

Pain/Discomfort Mobility						
	1	2	3	4	5	Total
1	6	11	10	13	35	75
2	17	5	7	9	29	67
3	15	13	7	10	24	69
4	24	19	14	7	13	77
5	31	25	17	20	37	130
Total	93	73	55	59	138	418

Appendix Table 14: Cross-tab of frequencies of unreported health states at different levels of mobility and anxiety/depression.

Anxiety/Depression Mobility						
	1	2	3	4	5	Total
1	5	11	13	22	24	75
2	8	10	12	16	21	67
3	7	9	10	19	24	69
4	3	6	17	24	27	77
5	9	12	20	42	47	130
Total	32	48	72	123	143	418

Appendix Table 15: Cross-tab of frequencies of unreported health states at different levels of self-care and usual activities.

Usual Activities Self-Care						
	1	2	3	4	5	Total
1	2	2	3	0	1	8
2	33	7	6	2	2	50
3	40	20	2	1	1	64
4	76	49	13	2	1	141
5	48	55	36	15	1	155
Total	199	133	60	20	6	418

Appendix Table 16: Cross-tab of frequencies of unreported health states at different levels of self-care and pain/discomfort.

Pain/Discomfort Self-Care						
	1	2	3	4	5	Total
1	2	1	1	1	3	8
2	14	9	7	5	15	50
3	17	11	11	7	18	64
4	30	26	19	20	46	141
5	30	26	17	26	56	155
Total	93	73	55	59	138	418

Appendix Table 17: Cross-tab of frequencies of unreported health states at different levels of self-care and anxiety/depression.

Anxiety/ Depression Self-Care						
	1	2	3	4	5	Total
1	0	1	0	3	4	8
2	1	1	10	17	21	50
3	6	4	9	21	24	64
4	15	23	28	30	45	141
5	10	19	25	52	49	155
Total	32	48	72	123	143	418

Appendix Table 18: Cross-tab of frequencies of unreported health states at different levels of usual activities and pain/discomfort.

Pain/Discomfort Usual Activities						
	1	2	3	4	5	Total
1	36	36	33	29	65	199
2	35	16	17	21	44	133
3	13	14	4	6	23	60
4	6	5	0	3	6	20
5	3	2	1	0	0	6
Total	93	73	55	59	138	418

Appendix Table 19: Cross-tab of frequencies of unreported health states at different levels of usual activities and anxiety/depression.

Anxiety/ Depression Usual Activities	1	2	3	4	5	Total
1	16	26	38	57	62	199
2	12	10	27	38	46	133
3	4	9	5	19	23	60
4	0	3	2	8	7	20
5	0	0	0	1	5	6
Total	32	48	72	123	143	418

Appendix Table 20: Cross-tab of frequencies of unreported health states at different levels of pain/discomfort and anxiety/depression.

Anxiety/ Depression Pain/Discomfort	1	2	3	4	5	Total
1	1	9	17	27	39	93
2	1	2	10	27	33	73
3	2	2	5	20	26	55
4	6	6	9	16	22	59
5	22	29	31	33	23	138
Total	32	48	72	123	143	418