

Supplementary Material

Tables S1 to S3 present conversion tables that transform the ordinal scores to interval scores for the patients with warfarin therapy in Thailand. These tables can be generated in case there is no missing data with the study participants.

Table S1: *Converting from ordinal- to interval-level scores for the total score of the Thai version of the WHOQOL-BREF for the patients with warfarin therapy. To compute a total score, all items except for items 1 (satisfied with health) and 26 (Quality of life) are added according to the domain subscales. Once a total ordinal total score has been obtained, find the corresponding interval value in the table below. Conversion cannot be conducted for participants with missing values.*

<u>Thai WHOQOL-BREF total score</u>			
Ordinal	Interval	Ordinal	Interval
24	24.00	73	65.80
25	31.13	74	66.31
26	35.55	75	66.82
27	38.28	76	67.34
28	40.24	77	67.86
29	41.76	78	68.39
30	43.01	79	68.92
31	44.09	80	69.45
32	45.01	81	70.00
33	45.83	82	70.55
34	46.57	83	71.11
35	47.25	84	71.68
36	47.89	85	72.25
37	48.48	86	72.84
38	49.03	87	73.42
39	49.56	88	74.02
40	50.08	89	74.62
41	50.58	90	75.24
42	51.06	91	75.86
43	51.55	92	76.49
44	52.02	93	77.12
45	52.49	94	77.77
46	52.97	95	78.42
47	53.44	96	79.10
48	53.90	97	79.77
49	54.37	98	80.45
50	54.84	99	81.16
51	55.30	100	81.87
52	55.78	101	82.59
53	56.25	102	83.34
54	56.72	103	84.10
55	57.18	104	84.88
56	57.65	105	85.70
57	58.13	106	86.54
58	58.60	107	87.42
59	59.07	108	88.34
60	59.53	109	89.33

61	60.00	110	90.40
62	60.48	111	91.57
63	60.95	112	92.85
64	61.42	113	94.29
65	61.90	114	95.96
66	62.38	115	97.90
67	62.86	116	100.19
68	63.34	117	103.00
69	63.83	118	106.65
70	64.31	119	112.03
71	64.81	120	120.00
72	65.30		

Table S2: Converting from ordinal- to interval-level scores for the four subscales of the Thai version of the WHOQOL-BREF for patients with warfarin therapy. For the Physical domain, add items 2, 3, 4, 10, 11, 12, 24; for the Psychological domain, add items 5, 6, 7, 8, 9, 23; for the Social domain, add items 13, 14, 25; and for the Environmental domain, add items 15, 16, 17, 18, 19, 20, 21, 22. Once a total ordinal total score has been obtained, find the corresponding interval value in the table below. Conversion cannot be conducted for participants with missing values.

<u>Physical</u>		<u>Psychological</u>		<u>Social</u>		<u>Environmental</u>	
Ordinal	Interval	Ordinal	Interval	Ordinal	Interval	Ordinal	Interval
7	7.00	6	6.00	3	3.00	8	8.00
8	9.28	7	7.52	4	3.98	9	10.56
9	10.71	8	10.34	5	4.81	10	12.28
10	11.61	9	15.56	6	5.53	11	13.43
11	12.29	10	17.56	7	6.23	12	14.32
12	12.90	11	18.56	8	6.94	13	15.06
13	13.47	12	19.24	9	7.66	14	15.71
14	14.05	13	19.77	10	8.48	15	16.30
15	14.66	14	20.23	11	9.58	16	16.85
16	15.29	15	20.67	12	10.84	17	17.38
17	15.96	16	21.14	13	12.07	18	17.89
18	16.64	17	21.69	14	13.45	19	18.40
19	17.33	18	22.28	15	15.00	20	18.91
20	18.03	19	22.84			21	19.44
21	18.77	20	23.32			22	20.00
22	19.53	21	23.78			23	20.59
23	20.34	22	24.23			24	21.22
24	21.20	23	24.72			25	21.90
25	22.12	24	25.25			26	22.62
26	23.09	25	25.83			27	23.39
27	24.11	26	26.44			28	24.21
28	25.14	27	27.11			29	25.06
29	26.12	28	27.86			30	25.95
30	27.04	29	28.80			31	26.88
31	27.93	30	30.00			32	27.85
32	28.88					33	28.85
33	30.06					34	29.89
34	31.95					35	30.98
35	35.00					36	32.14
						37	33.44
						38	35.01
						39	37.13
						40	40.00

Table S3: Converting from ordinal- to interval-level scores for the Thai version of the WHOQOL-5 for patients with warfarin therapy. For both scales, add all items belonging to each questionnaire are added altogether to generate a total ordinal score. Using the table below, find the corresponding interval value. Conversion cannot be conducted for participants with missing values.

WHOQOL-5	
Ordinal	Interval
5	5.00
6	6.42
7	7.45
8	8.21
9	8.85
10	9.44
11	10.01
12	10.58
13	11.19
14	11.88
15	12.72
16	13.79
17	14.97
18	16.11
19	17.16
20	18.17
21	19.17
22	20.23
23	21.42
24	22.98
25	25.00

Table S4: The ordinal and also interval mean (n=260) scores and standard deviations for each scale among patients with warfarin therapy.

Measures	Ordinal		Interval	
	Mean	SD	Mean	SD
WHOQOL-BREF	84.32	12.18	72.57	7.95
WHOQOL-BREF domains				
Physical health	23.52	3.94	21.09	3.44
Psychological health	22.38	3.69	24.58	2.09
Social health	10.07	2.35	8.96	2.34
Environmental health	28.34	4.49	24.96	4.10
WHOQOL-5	17.87	2.80	15.98	3.06

SD: Standard deviations

Table S5: Summary of overall Rasch model fit statistics for the patients with warfarin therapy (n=199)

Analysis	Measures	Item fit residual (mean±SD)	Person fit residual (mean±SD)	Goodness of fit χ^2 <i>p</i> -value	PSI	%	Significant <i>t</i> -test (Unidimensionality) Upper bound CI	Lower bound CI
WHOQOL-BREF								
1	24-item WHOQOL-BREF	0.67±2.74	-0.28±1.88	463.26 (96)	N/A	9.55	12.58	6.52
2	4 domains subtests	0.34±1.91	-0.49±1.16	15.15 (16)	0.90	6.53	9.56	3.50
WHOQOL-BREF domains								
3	Physical – 7 items	0.31±2.08	-0.29±1.14	119.18 (28)	N/A	6.03	9.06	3.00
4	Physical-5 super items	0.11±1.75	-0.47±1.30	29.63 (20)	0.70	3.02	6.05	-0.01
5	Psychological – 6 items	0.06±1.01	-0.55±1.49	46.25 (24)	0.78	2.01	5.04	-1.02
6	Psychological – 5 super items	0.22±0.63	-0.57±1.46	21.69 (20)	0.79	2.01	5.04	-1.02
7	Social – 3 items	0.37±1.21	-0.59±1.14	11.57 (12)	0.48	2.51	5.54	-0.52
8	Environment – 8 items	0.36±2.21	-0.65±1.79	68.33 (32)	N/A	10.05	13.08	7.02
9	Environment – 7 items	0.05±1.17	-0.73±1.75	35.99 (28)	0.14	6.03	9.06	3.00
EUROHIS-QOL-8								
10	Initial/Final	-0.04±1.35	-0.57±1.52	37.06 (32)	0.25	N/A	10.57	4.51
WHOQOL-5								
11	Initial/Final	-0.16±0.56	-0.62±1.26	14.02 (20)	0.79	0.72	11.27	4.59