

Scale score to T-score conversion table (Equipercntile Linking with Log-linear Smoothing) for the ODI
(Oswestry Disability Index) to PROMIS Pain Interference

ODI Scale Score	PROMIS Pain Interference T Score	SE
0	38.7	0.0
1	39.0	0.1
2	39.4	0.1
3	45.5	2.8
4	48.4	0.6
5	49.6	0.3
6	50.4	0.3
7	51.1	0.2
8	51.7	0.2
9	52.2	0.2
10	52.7	0.2
11	53.2	0.2
12	53.7	0.2
13	54.1	0.2
14	54.6	0.2
15	55.0	0.2
16	55.5	0.2
17	55.9	0.2
18	56.4	0.2
19	56.8	0.2
20	57.2	0.2
21	57.7	0.2
22	58.1	0.2
23	58.6	0.2
24	59.0	0.2
25	59.5	0.2
26	59.9	0.2
27	60.3	0.2
28	60.7	0.2
29	61.2	0.2
30	61.6	0.2
31	62.0	0.2
32	62.4	0.2
33	62.8	0.1
34	63.2	0.1
35	63.6	0.1
36	63.9	0.1
37	64.3	0.1
38	64.7	0.1
39	65.0	0.1
40	65.4	0.1
41	65.7	0.1
42	66.0	0.1
43	66.4	0.1

44	66.7	0.1
45	67.0	0.1
46	67.3	0.1
47	67.6	0.1
48	67.9	0.1
49	68.2	0.1
50	68.5	0.1
51	68.8	0.1
52	69.1	0.1
53	69.4	0.1
54	69.7	0.1
55	70.0	0.1
56	70.3	0.1
57	70.6	0.2
58	70.9	0.2
59	71.2	0.2
60	71.5	0.2
61	71.9	0.2
62	72.2	0.2
63	72.5	0.2
64	72.8	0.2
65	73.1	0.2
66	73.4	0.2
67	73.8	0.2
68	74.1	0.2
69	74.4	0.2
70	74.8	0.3
71	75.2	0.3
72	75.5	0.3
73	75.9	0.3
74	76.3	0.3
75	76.7	0.4
76	77.1	0.4
77	77.5	0.5
78	78.0	0.4
79	78.4	0.4
80	78.8	0.5
81	79.3	0.4
82	79.7	0.5
83	80.1	0.5
84	80.5	0.5
85	80.9	0.5
86	81.3	0.5
87	81.6	0.5
88	81.9	0.5
89	82.2	0.4
90	82.5	0.5
91	82.8	0.4
92	83.1	0.4
93	83.3	0.4
94	83.5	0.3

95	83.7	0.4
96	83.9	0.3
97	84.1	0.2
98	84.2	0.2
99	84.3	0.1
100	84.4	0.1

For details, see Tang et al (in progress), Linking Oswestry Disability Index to the PROMIS Pain

Interference CAT with equipercentile methods