

Supplemental Information

From: Reliability and Validity of the Japanese version of the Ocular Surface Disease Index for Dry Eye Disease

Akie Midorikawa-Inomata RN, MPH, Takenori Inomata MD, PhD, MBA, Soko Nojiri, MPH, Masahiro Nakamura MD, PhD, Masao Iwagami MD, MPH, MSc, PhD, Keiichi Fujimoto MD, Yuichi Okumura MD, Nanami Iwata, Atsuko Eguchi, Hitomi Hasegawa MD, Hikaru Kinouchi, Akira Murakami MD, PhD, and Hiroyuki Kobayashi MD, PhD.

Table S1: Factor matrix of each J-OSDI question

Components	Factor		
	1	2	3
1	0.352	0.474	0.361
2	0.055	0.393	0.504
3	0.256	0.349	0.331
4	0.335	0.167	0.927
5	0.632	0.269	0.573
6	0.706	0.208	0.323
7	0.576	0.246	0.171
8	0.710	0.172	0.198
9	0.719	0.283	0.260
10	0.156	0.815	0.307
11	0.239	0.837	0.295
12	0.441	0.742	0.159

J-OSDI, Japanese version of the Ocular Surface Disease Index.

Extraction Method: Maximum likelihood method; Rotation Method: Equamax with Kaiser normalization

Table S2: Sensitivity analysis of the internal consistency of the vision related function score

	Cronbach α
Vision-related function	0.669
excluded 6. Reading?	0.529
excluded 7. Driving at night?	0.746
excluded 8. Working with a computer or bank machine (ATM)?	0.508
excluded 9. Watching TV?	0.497

Table S3: J-OSDI total score sensitivity and specificity analysis results

J-OSDI total score	Sensitivity (%)	Specificity (%)
> 1.05	98.03	12.28
> 2.2	95.39	14.04
> 2.4	95.39	15.79
> 3.35	94.74	17.54
> 4.9	94.08	22.81
> 5.95	94.08	26.32
> 6.55	92.76	28.07
> 6.95	91.45	29.82
> 7.3	90.79	29.82
> 7.9	90.13	31.58
> 9.15	88.82	35.09
> 10.2	88.82	36.84
> 10.9	88.16	38.6
> 11.95	88.16	40.35
> 13.05	84.87	42.11
> 14.1	84.21	43.86
> 14.8	82.24	43.86
> 15.3	81.58	45.61
> 15.75	81.58	47.37
> 16.3	80.26	47.37
> 17.45	78.95	50.88
> 18.5	78.29	52.63
> 19.1	75.66	54.39
> 19.7	75.66	56.14

> 20.25	74.34	59.65
> 20.65	73.68	61.4
> 21.35	72.37	61.4
> 22.05	71.05	61.4
> 22.35	70.39	61.4
> 22.6	69.08	61.4
> 23.85	69.08	63.16
> 26.15	67.11	66.67
> 27.4	67.11	68.42
> 27.8	66.45	70.18
> 28.65	65.79	70.18
> 29.35	65.13	71.93
> 29.75	61.18	71.93
> 30.3	60.53	75.44
> 30.95	59.87	75.44
> 31.55	57.24	75.44
> 32.55	55.92	75.44
> 33.7	54.61	82.46
> 34.55	53.95	84.21
> 35.2	53.29	84.21
> 35.75	52.63	85.96
> 36.25	51.32	87.72
> 36.95	48.68	87.72
> 38.55	46.05	87.72
> 39.8	44.74	87.72
> 40.85	42.76	87.72
> 42.1	39.47	91.23

> 42.85	38.82	91.23
> 43.5	38.16	91.23
> 44.4	36.84	91.23
> 45.4	34.87	91.23
> 46.5	33.55	91.23
> 47.35	32.89	91.23
> 47.6	32.24	91.23
> 47.8	31.58	91.23
> 48.95	30.92	92.98
> 51.05	27.63	94.74
> 52.2	26.97	98.25
> 52.4	25.66	98.25
> 53.35	25	98.25
> 54.35	23.03	98.25
> 55.4	21.71	98.25
> 56.55	21.05	98.25
> 57.15	20.39	98.25
> 57.9	18.42	98.25
> 58.7	17.11	98.25
> 59.75	16.45	98.25
> 61.45	15.79	100
> 63.05	15.13	100
> 63.75	13.82	100
> 64.25	13.16	100
> 66.05	11.84	100
> 67.7	9.868	100
> 68.35	9.211	100

> 69.65	8.553	100
> 70.65	7.895	100
> 71.85	7.237	100
> 75	6.579	100
> 77.2	5.921	100
> 78.25	4.605	100
> 82.1	3.947	100
> 85.7	2.632	100
> 87.5	1.974	100
> 89.3	1.316	100

J-OSDI, Japanese version of the Ocular Surface Disease Index