

Supplementary Table S1—A compilation of descriptive data and variables that on the basis of results of logistic regression analysis were not associated with keratopathy in 319 captive pinnipeds (229 otariids [sea lions and fur seals], 74 phocids [true seals], 16 odobenids [walrus]) housed at 25 facilities from 11 countries between January 1, 2010 and January 1, 2011.

Variable or factor	All pinnipeds (No./total)*	All pinnipeds (%)	Keratopathy (No./variable#)	Keratopathy (%)
Mean age (y)	15.73	n/a		
Sea lions	229	71.8		
Seals	74	23.2		
Walrus	16	5		
Males	140	43.9		
Females	179	56.1		
Aggressive temperament	38	11.9	22	57.9
Live in feeder pool	11	3.4	7	63.6
Diagnosis of corneal disease (one or both eyes)	181	56.7		
OU corneal disease	164	51.4		
OD only corneal disease	6	1.9		
OS only corneal disease	11	3.4		
No corneal disease	138	43.3		
Diagnosis of lens disease	179	56.1	110	61.5
OD lens disease	175	54.9	113	64.6
OS lens disease	173	54.2	115	66.5
No lens disease	140	43.9	65	46.4
Depth of pool 12 ft	253	79.3	139	43.6
Depth of pool >12 ft	66	20.7	28	42.4
pH ≤ 7.6 *	61/269	19.1	42	68.8
pH > 7.6	208/269	77.3	110	52.9
ORP 0-225	180	56.4	96	53.3
ORP 226-450	81	25.4	47	58
ORP 451-600	24	7.5	7	29.2
ORP > 600	34	10.7	22	64.7
Exposure to no oxidants	61	19.1	27	44.3
Chlorine	69	21.6	41	59.4
Ozone	60	18.8	33	55

Both ozone and chlorine	129	40.4	72	55.8
Reflective exhibit colors	165	30.4	77	46.7
Dark or natural exhibit colors	154	82.8	99	64.3
Water temperature $\leq 70^{\circ}\text{F}$	194	42.6	104	53.6
Air temperature $> 70^{\circ}\text{F}$	125	73.4	69	55.2
Day length < 12 hours	52	16.3	30	57.7
Day length ≥ 12 hours	267	83.7	150	56.2
Latitude 0 to $\pm 30.9^{\circ}$	119	37.3	63	52.9
Latitude $> \pm 31^{\circ}$	200	62.7	96	48
Indoor only	50	15.7	21	42
Outdoor only	251	78.7	142	56.6
Both outdoor and indoor	18	5.6	9	50
More than 20% shade access	223	69.9	116	52
Less than 20% shade access	96	30.1	40	41.7
Sun exposure during shows	207	64.9	120	58
No sun exposure during shows	110	34.5	53	48.2
Taking GSE and lutein	66	20.7	39	59.1
History of systemic disease	57	17.9	31	54.4
History of taking steroids	55	17.2	35	63.6
History of dental disease	14	4.4	8	57.1