Table S6. Summary statistics for the grading prediction performance (LOCS- III based grading) of the deep learning system on slit-lamp images (NO).

	AUC	Sensitivity	Specificity	Accuracy
Grade 0 vs Others	0.9985	95.16%	99.27%	98.58%
	(0.9972 - 0.9998)	(90.07%, 100.0%)	(98.53%, 100.0%)	(97.60%, 99.55%)
Grade 1 vs Others	0.9482	73.37%	98.17%	95.24%
	(0.9314 - 0.9650)	(62.79%, 83.95%)	(96.78%, 99.57%)	(93.17%, 97.30%)
Grade 2 vs Others	0.9421	84.26%	87.64%	86.72%
	(0.9296 - 0.9547)	(77.69%, 90.83%)	(83.14%, 92.15%)	(83.72%, 90.18%)
Grade 3 vs Others	0.9340	75.48%	89.18%	85.52%
	(0.9162 - 0.9518)	(66.37%, 84.58%)	(86.70%, 91.66%)	(82.44%, 88.61%)
Grade 4 vs Others	0.9166	73.02%	97.76%	95.11%
	(0.8999 – 0.9333)	(63.99%, 82.04%)	(96.41%, 99.12%)	(93.61%, 96.61%)
Grade 5 vs Others	0.9617	73.50%	96.86%	95.74%
	(0.9489 - 0.9745)	(55.03%, 91.98%)	(95.06%, 98.66%)	(94.08%, 97.39%)
Grade 6 vs Others	0.9935	95.40%	98.55%	98.45%
	(0.9891 – 1.0000)	(86.94%, 100.0%)	(86.94%, 100.0%)	(97.32%, 99.58%)
Overall	0.9567	81.71%	93.10%	91.22%
	(0.9501 – 0.9633)	(78.49%, 84.93%)	(91.63%, 94.57%)	(89.40%, 93.04%)
Overall	0.9466	79.12%	92.35%	90.79%
(ResNet18)	(0.9415 – 0.9517)	(75.51%, 82.72%)	(91.08%, 93.63%)	(89.16%, 92.42%)
Overall	0.9471	80.32%	92.49%	90.37%
(WideResNet50-2)	(0.9402 - 0.9541)	(76.68%, 83.95%)	(91.11%, 93.88%)	(88.61%, 92.12%)
Overall	0.9463	78.96%	92.75%	90.76%
(ResNext50)	(0.9412 - 0.9514)	(75.07%, 82.85%)	(91.59%, 93.90%)	(89.14%, 92.38%)

Asymptotic two-sided 95% CIs, adjusted for clustering by patients, were calculated and presented as proportions (sensitivity, specificity, accuracy) and the AUC.

Abbreviations: LOCS-III = Lens Opacities Classification System III; NO = nuclear opalescence; CI = confidence interval; AUC = area under the receiver operating characteristic curve