Supplemental file 5. Quality items of the 76 included studies following the NICE checklist*

	Quality items from the NICE checklist	Yes	No	Unclear	Explanation for scoring studies
1.	The study sample represents the population of interest with regard to key characteristics, sufficient to limit bias to the results.	74 (97.4%)	2 (2.6%)	0 (0%)	We rated studies that investigated patients that underwent or still had to undergo corneal transplantation surgery and of whom the baseline IOP or presence of glaucoma was established and or the mean IOP or the presence of glaucoma was compared between two or more potential risk factors. Baseline characteristics (i.e., age, sex and IOP/glaucoma) should be adequately described.
2.	Loss to follow-up is unrelated to key characteristics (i.e., the study data adequately represent the sample), sufficient to limit potential bias.	12 (15.8%)	64 (84.2%)	0 (0%)	We rated cohort studies that either reported similar baseline characteristics in the group lost to follow-up and the analysed group, or had no loss to follow-up. By definition, case series and case-control studies were rated as "No".
3.	The prognostic factor of interest is adequately measured in study participants, sufficient to limit bias.	76 (100%)	0 (0%)	0 (0%)	We rated studies that measured risk factors in patients in which an increase in IOP/high IOP after corneal surgery could occur or studies that investigated whether the presence of a studied risk factor influenced the IOP/presence of glaucoma.
4.	The outcome of interest is adequately measured in study participants, sufficient to limit bias.	36(47.4%)	1 (1.3%)	39 (51.3%)	We rated the outcome as adequately measured if the same method of measurement for IOP was used in all groups/before and after surgery.
5.	Important potential confounders are appropriately accounted for, limiting potential bias with respect to the prognostic factor of interest.	10 (13.2%)	66 (86.8%)	0 (0%)	We rated studies that performed a multivariable analysis.
6.	The statistical analysis is appropriate for the design of the study, limiting potential for the presentation of invalid results	76 (100%)	0 (0%)	0 (0%)	We rated studies that adequately described the statistical analysis in a way that it is reproducible for others. All candidate variables considered for the analysis should be listed.

*NICE: National Institute for Healthy and Clinical Excellence
Values are shown as n (%)