

Study Spotlight: IOLMaster 700 with TK



Seeing beyond

Outcome prediction in post-myopic LASIK patients –
Barrett True K formula with TK

Source



Title

Total keratometry in intraocular lens power calculations in eyes with previous laser refractive surgery



Authors

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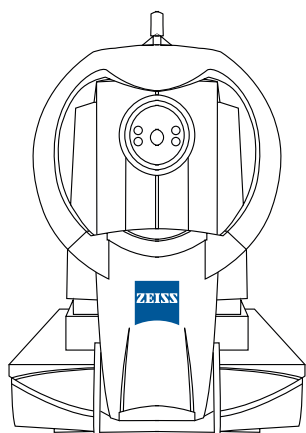


Publication

Clinical & Experimental Ophthalmology, April 2020

Methodology

IOL Calculations



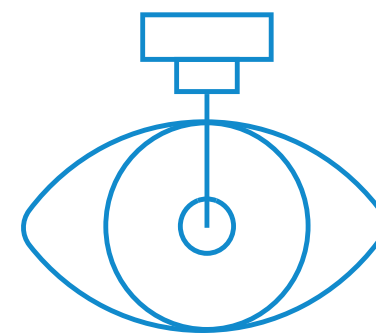
Formulas compared

- ASCRS Average with K¹
- Barrett True K NH with K
- Barrett True K with TK
- Haigis L with K
- Haigis with TK
- Holladay 1 Double K with TK¹
- Shammas with K¹

ZEISS IOLMaster 700

with Total Keratometry (TK)

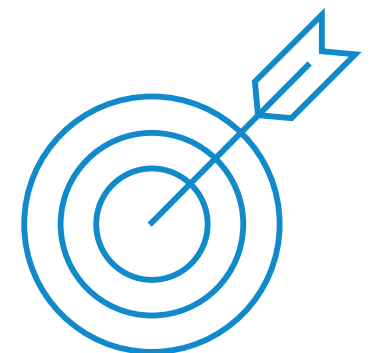
Sample Size



40 Post-Myopic LASIK Eyes

No History, Retrospective Analysis

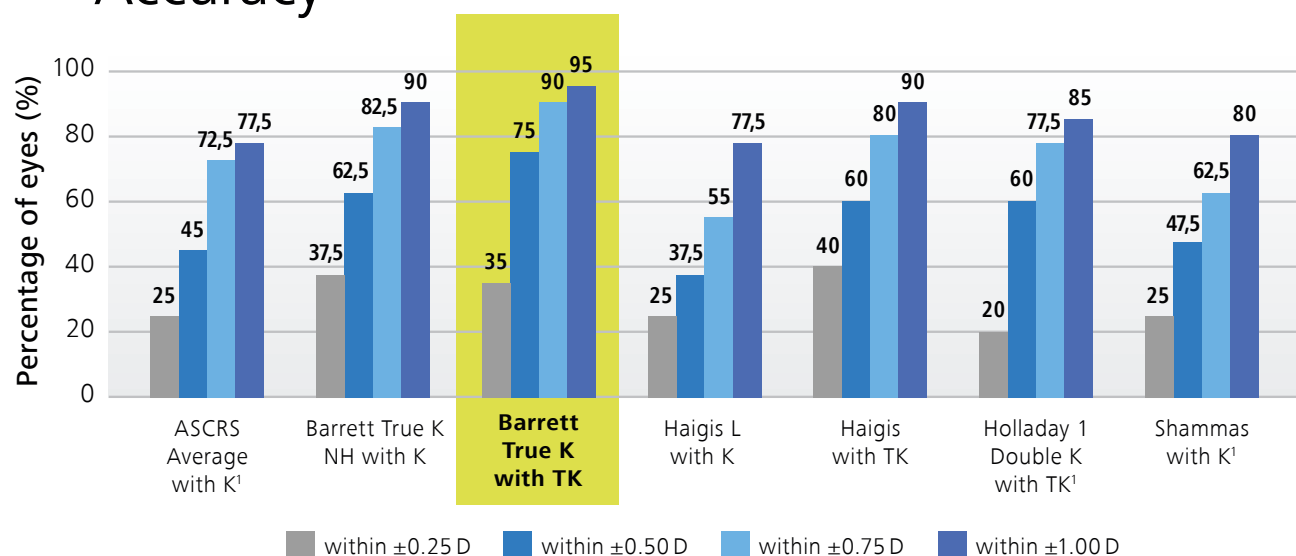
Evaluation Criteria



Prediction Accuracy

Results

Accuracy



In post-myopic LASIK eyes Barrett True K formula with TK improved the outcome prediction compared to the Barrett True K with Classic Ks within ±0.5 D by >12 % (p = 0.04).

Disclaimer:

¹ Not available with the ZEISS IOLMaster 700