

# 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

Michael Lawless, James Y. Jiang, Chris Hodge, Gerard Sutton, Timothy V. Roberts, Graham Barrett

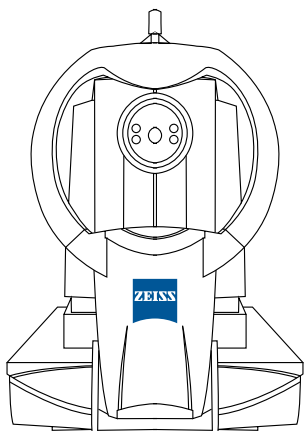


### Publication

Clinical & Experimental Ophthalmology, April 2020

## Methodology

### IOL Calculations



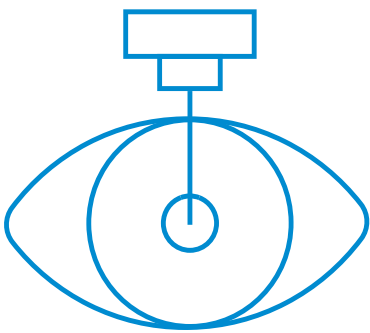
#### Formulas compared

- ASCRS Average with K<sup>1</sup>
- Barrett True K NH with K
- Barrett True K with TK
- Haigis L with K
- Haigis with TK
- Holladay 1 Double K with TK<sup>1</sup>
- Shammas with K<sup>1</sup>

### ZEISS IOLMaster 700

with Total Keratometry (TK)

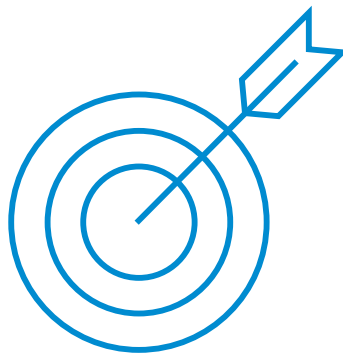
### Sample Size



### 40 Post-Myopic LASIK Eyes

No History, Retrospective Analysis

### Evaluation Criteria

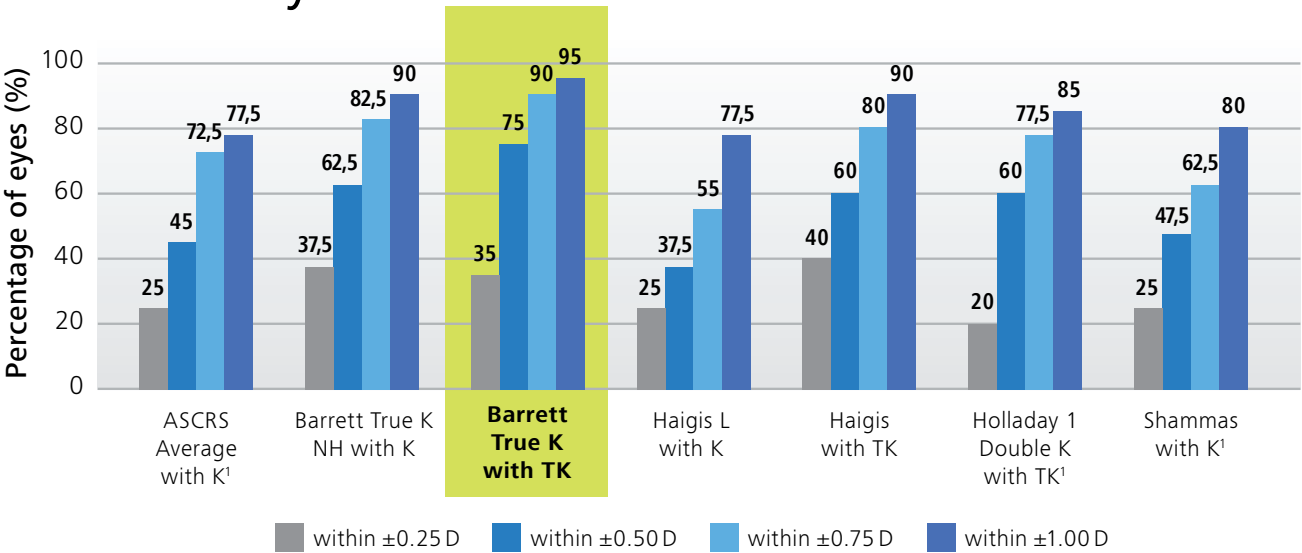


### Prediction

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  $\pm 0.5$  D by  $>12$  % ( $p = 0.04$ ).**

Disclaimer:

<sup>1</sup> Not available with the ZEISS IOLMaster 700