| Formula | Constant | Optimized Constant <br> Value | Signed Average Numerical Error in <br> Refraction |
| :--- | :--- | :--- | :--- |
| Holladay1 | Surgeon factor | 1.990 | -0.000509 |
| SRK/T | A constant | 119.303 | -0.000509 |
| Hoffer Q | ACD | 5.844 | -0.000499 |
| Haigis | $a_{0}$ | 1.655 | -0.000405 |
| Olsen | ACDconst | 5.155 | $/$ |

Table S1 Optimized constants and mean error of existing formulas. The constants for Holladay
1, SRK/T, Hoffer Q and Haigis were selected so that the absolute value of the mean error was minimized. The constants were searched in a space around their default value with a step of 0.001. The constant for the Olsen formula was calculated based on the publication. ${ }^{1}$

## References

1. Olsen T, Corydon L, Gimbel H. Intraocular lens power calculation with an improved anterior chamber depth prediction algorithm. J Cataract Refract Surg. 1995;21(3).
