PhysIOL toric solutions

**PhysIOL Toric Calculator with Abulafia-Koch Formula**

When precision meets innovation

Beyond the limits of vision
How to achieve the most accurate correction for your astigmatic patients?

Our goal is to assist surgeons with the most precise and reliable IOL calculations in order to achieve the utmost satisfaction level of patients with corneal astigmatism. The new calculation method helps physicians select the appropriate toric IOL model and as such improves toric outcomes in astigmatic patients.

Clinical background

Standard keratometric and topography machines tend to yield inaccurate results in assessing the net corneal astigmatic power. Astigmatism is present on the posterior corneal surface, which is independent in magnitude and meridian from the astigmatism of the anterior surface. Residual postoperative astigmatism occurs often in eyes with toric IOL implantation.

Solution

The PhysIOL toric calculator model uses the new Abulafia-Koch regression Formula developed in order to compensate for the posterior corneal astigmatism effect.

What are the new features?

A redesigned interface, user-friendly, intuitive and mobile responsive, integrating following features:

1. Abulafia-Koch regression Formula, which reportedly theoretically accounts for posterior corneal astigmatism. This calculation method uses the standard keratometry measurements (anterior K values) and estimates the total corneal astigmatism based on the Abulafia-Koch regression Formula to improve the prediction of postoperative astigmatic outcome. Calculation using the Standard K method is also possible.
2. HELP-button at each bloc that will help you understand and fill in each parameter.
3. Predictive patient-specific effective lens position (ELP) which improves the preoperative refractive predictability.

What do studies say?

"The prediction of postoperative astigmatic outcomes can be optimized by adjusting the PhysIOL toric IOL calculator with the Abulafia-Koch regression Formula."

Reference:

What do studies say?

"In eyes with toric IOL implantation, corneal astigmatism prediction errors with devices that measure posterior corneal astigmatism only were 0.5 to 0.6 D WTR in WTR eyes and 0.2 to 0.3 D WTR in ATR eyes, showing the effect of posterior corneal astigmatism."

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What do studies say?

"Double C-loop haptics design provides excellent capsular bag stability associated with a low amount of PCO."

Reference:

What do studies say?

"An exceptional average rotation of 1.85° +/- 1.0° was observed between 1 day and 3 months with the double C-loop IOL."

Reference:
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Other PhysIOL advanced optical solutions

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