"Aurolab's TRUEDGE IOLs are designed to provide a solution to reduce posterior capsular opacification and powered with aspheric surface for better contrast sensitivity..."

PCO

PCO occurs when residual lens epithelial cells proliferate and migrate across the posterior capsule after cataract surgery. Advance researches show that the lens design can play a vital role in preventing PCO.
TRUEDGE 360° Posterior Square Edge for Preventing Cell Proliferation

360° square edge on the posterior side exerts more pressure on the posterior capsule compared to rounded edge and creates a capsular bend that prevents cell migration behind the optic.

CONVENTIONAL LENS DESIGN

TRUEDGE LENS DESIGN

PCO arises from proliferating epithelial cells that migrate between the IOL optic and the posterior capsule.

Barrier Effect – A square optical edge acts as a mechanical barrier against the migration of epithelial cells.

Projected Posterior Edge at optic-haptic junction for 360° Capsular Contact

Projected posterior edge at the optic-haptic junction ensures 360° capsular contact and prevents epithelial cell migration through the optic haptic junction.

Enhanced Capsule Bending

360° projected sharp edge along with 0.4mm steep vault exerts pressure on the posterior capsule and helps in creating sharp capsular bend there by preventing cell migration behind the optic.

Rounded Anterior Edge for Reduced Glare and Glistening

Anterior edge is rounded which helps in reducing the intensity of internally reflected lights. Hence glare is reduced.

Aberration free optic:

TRUEDGE Aspheric does not introduce any spherical aberration to the implanted eye. It improves contrast sensitivity in dim and low light conditions.

Simulated image with spherical IOL

Simulated image with TRUEDGE Aspheric IOL

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