

## THE IMPACT OF TORIC IOL IMPLANTATION ON PATIENTS' QUALITY OF LIFE

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**Introduction:** The implantation of toric intraocular lenses (IOLs) has emerged as a transformative solution for patients with astigmatism undergoing cataract surgery. This study evaluates the impact of toric IOL implantation on the quality of life (QoL) of patients, focusing on visual acuity, spectacle independence, and overall satisfaction.

**Aim of the study:** To highlight the influence of toric IOL implantation on patients' vision and quality of life.

**Methods and materials:** We conducted a study involving 150 patients with significant corneal astigmatism who received toric IOLs during cataract surgery. Preoperative and postoperative assessments included measurements of uncorrected and best-corrected visual acuity (UCVA and BCVA), refractive outcomes, and patient-reported outcomes using the adapted questionnaire.

**Results** demonstrated a significant improvement in UCVA and BCVA post-surgery, with 85% of patients achieving spectacle independence for distance vision. The mean questionnaire scores increased notably in areas related to vision-specific mental health, dependency, and social functioning. Additionally, patients reported high levels of satisfaction regarding their visual outcomes and overall quality of life.

**Conclusions:** This study underscores the efficacy of toric IOLs in correcting astigmatism during cataract surgery and highlights the substantial benefits in enhancing patients' visual function and QoL. Our findings advocate for the broader adoption of toric IOL implantation as a standard practice for eligible patients, ultimately contributing to improved patient outcomes and satisfaction.