

Special Issue

Recent Advances in Refractive Surgery and Intraocular Lens Implantation

Message from the Guest Editor

Refractive surgery and intraocular lens (IOL) implantation have seen significant progress in recent years, thanks to ongoing innovation in surgical methods, imaging technology, and lens design. These advancements not only improve the precision and safety of procedures but also expand the range of visual corrections available to patients. As surgical precision and visual expectations continue to rise, the demand for personalized and predictable outcomes drives the development of advanced technologies, including femtosecond lasers, intraoperative aberrometry, and next-generation IOLs. Despite progress, key challenges remain—such as managing postoperative visual quality, addressing residual refractive errors, and optimizing outcomes in patients with complex ocular profiles. This Special Issue provides an overview of the most recent developments and their impact on clinical practice, as well as limitations of current technologies, variability in patient outcomes, and strategies for individualized treatment planning.

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