

Special Issue

Glaucoma Surgery: Current Challenges and Future Perspectives

Message from the Guest Editors

Glaucoma surgery faces several challenges that impact effectiveness and patient outcomes. The variability in surgical success rates is influenced by factors such as individual anatomy and pathophysiology. Post-operative scarring remains a very important obstacle for long-term surgical success of external filtration procedures.

Advances in biomaterials and targeted gene therapy seek to reduce scarring and improve performance of the surgical implants or trabeculectomy. Emerging imaging and AI may transform glaucoma management by enabling more personalized and predictable surgical outcomes. It is anticipated that AI-driven models can identify patients at higher risk of complications and optimize timing and choice of surgery. Overall, integrating imaging and AI enhances accuracy, individualization, and prognosis in surgery, ultimately leading to better patient outcomes and more efficient, targeted treatments tailored.

Future perspectives in glaucoma surgery aim to enhance safety, efficacy, and patient quality of life. Integrating technological innovations and personalized medicine may provide safer and more effective surgical options for glaucoma management in the future.

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