



Advances in Glaucoma Management and Intraocular Pressure Physiology

Guest Editor:

Dr. Kevin Gillmann

Department of Glaucoma
Services, Moorfields Eye Hospital
NHS Foundation Trust, London,
UK

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Message from the Guest Editor

Recent years have been a time of unprecedented progress in the field of glaucoma, there are still important unmet needs to address. First, although glaucoma is characterized by the premature apoptosis of retinal ganglion cell, to date, intraocular pressure regulation remains the central target of all approved glaucoma treatments. Although pressure-lowering treatments prevent vision loss in glaucoma, pressure-independent neuroprotective therapies are widely regarded as an unmet need in the specialty. Then, while intraocular pressure control remains the cornerstone of glaucoma management, there is growing evidence that traditional in-clinic tonometry does not reflect the dynamic nature of intraocular pressure. As reports suggest that intraocular pressure variations may play a role in glaucoma progression, translational research in ocular biomechanics, aqueous outflow physiology and pressure telemetry will be essential to guide accurate clinical decisions. Finally, although the wide armamentarium of techniques available to glaucoma surgeons provide remarkable flexibility in the management of glaucoma, there is yet no clear consensus guiding minimally invasive treatment choices.





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Office
MDPI, St. Alban-Anlage 66
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