

Advances in Medical Glaucoma Management: Video #2

Statement of Need Learning Objectives Faculty and Disclosure Statements

<http://cme.ufl.edu/ed/self-study/videos-glaucoma-management/>

TARGET AUDIENCE

This educational activity is intended for ophthalmologists and ophthalmologists in residency or fellowship training.

LEARNING OBJECTIVES

Upon completion of this series of activities, participants should be able to:

- Treat glaucoma patients so as to most effectively reduce their risk of glaucomatous progression and visual loss
- Explain the basic pathophysiology of glaucoma, from IOP to newer mechanisms such as the role of ocular perfusion pressure and the role of nitric oxide, an important physiological signaling molecule that plays a key role in IOP regulation in healthy eyes
- Utilize results from peer-reviewed studies, including comparative studies of agents, in choosing therapies
- Choose appropriate therapies based on understanding of mechanism(s) of action, safety, efficacy, compliance, and duration of effect
- Among agents with maximum efficacy and safety, select those that minimize patient burden and maximize compliance
- Implement evidence-based strategies for determining/achieving target IOP
- Make evidence-based decisions about when to treat ocular hypertension
- Explain the mechanism of action, benefits, and risks of established and new therapies, from medications that suppress aqueous humor production, such as beta blockers; to medications that increase aqueous outflow, such as prostaglandin analogs; to newer agents such as nitric oxide donating prostaglandin receptor agonists

ACTIVITY DIRECTOR

James C. Tsai, MD, MBA, is the president of New York Eye and Ear Infirmary of Mount Sinai and chair of ophthalmology for the Mount Sinai Health System. He is a consultant for Aerie Pharmaceuticals and Inotek Pharmaceuticals.

ABOUT *Advances in Medical Glaucoma Management*

Advances in Medical Glaucoma Management is jointly sponsored by Candeo Clinical/Science Communications, LLC, and the University of Florida College of Medicine. This publication is administered by an independent editorial board and supported by an unrestricted educational grant from Bausch + Lomb, Inc.

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CME REVIEWER

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STATEMENT OF NEED

After more than a decade in which no new drug class has been approved for treatment of glaucoma, at least three new ocular antihypertensive drugs are poised for approval within the coming 1-2 years. In an environment where novel agents for the treatment of glaucoma are coming to market with unprecedented rapidity, ophthalmologists are challenged to provide the highest quality care, based on the best and most recent data.

But sifting through that data is a challenge: There are competing claims from manufacturers and a plethora of basic and clinical science papers in the peer-reviewed journals on new topics, including the relationship between ocular perfusion pressure and glaucomatous damage and the impact of nocturnal intraocular pressure fluctuations on glaucomatous disease progression.

The result is a significant need for the *clear, actionable* information that supports evidence-based clinical decision making that is readily accessible by comprehensive ophthalmologists. This is especially the case for ophthalmologists who treat glaucoma but do not consider it a subspecialty interest. This knowledge gap can have a substantial impact on patients—glaucoma is the second leading cause of blindness worldwide and affects a significant and growing portion of the US population.^{1,2}

Advances in Medical Glaucoma Management will present new medical glaucoma therapies and trial data in the context of what is needed to offer comprehensive ophthalmic care. Clear, evidence-based, actionable insights from subspecialists and researchers will help clinicians give their glaucoma patients the full benefit of treatment advances.

References

1. Resnikoff S, Pascolini D, Etya'ale D, et al. Global data on visual impairment in the year 2002. *Bull World Health Organ.* 2004 November;82(11):844-51.

2. Eye Diseases Prevalence Research Group. Prevalence of open-angle glaucoma among adults in the United States. *Arch Ophthalmol.* 2004;122:532-8.

OFF-LABEL USE STATEMENT

This work may discuss off-label uses of medications.

GENERAL INFORMATION

This CME activity is sponsored by the University of Florida College of Medicine and is supported by an unrestricted educational grant from Bausch + Lomb, Inc.

Directions: Select one answer to each question in the exam (questions 1–11). Please take the evaluation at the end of the quiz along with reading the supplemental study guide.

The University of Florida College of Medicine designates this Enduring Material for a maximum of 1.0 *AMA PRA Category 1 Credit*[™]. There is no fee to participate in this activity. In order to receive CME credit, participants should watch the video, read the supplemental study guide and then take the posttest. A score of 80% is required to qualify for CME credit. Estimated time to complete the activity is 60 minutes. Take the test online at <http://cme.ufl.edu/ed/self-study/videos-glaucoma-management/>.

System requirements for this activity are: *For PC users:* Windows® 2000, XP, 2003 Server, or Vista; Internet Explorer® 6.0 or newer, or Mozilla® Firefox® 2.0 or newer (JavaScript™ and Java™ enabled). *For Mac® users:* Mac OS® X 10.4 (Tiger®) or newer; Safari™ 3.0 or newer, Mozilla® Firefox® 2.0 or newer; (JavaScript™ and Java™ enabled).

Internet connection required: Cable modem, DSL, or better.

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ACCREDITATION STATEMENT

This activity has been planned and implemented in accordance with the accreditation requirements and policies of the Accreditation Council for Continuing Medical Education through the joint providership of the University of Florida College of Medicine and Candeo Clinical/Science Communications, LLC. The University of Florida College of Medicine is accredited by the ACCME to provide continuing medical education for physicians.

CREDIT DESIGNATION STATEMENT

The University of Florida College of Medicine designates this enduring material for a maximum of 1.0 *AMA PRA Category 1 Credit*[™]. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

FACULTY AND DISCLOSURE STATEMENTS

Activity Director: James Tsai, MD, MBA

James C. Tsai, MD, MBA, is the president of New York Eye and Ear Infirmary of Mount Sinai and chair of ophthalmology for the Mount Sinai Health System. Dr. Tsai states that in the last 12 months, he has been a consultant for Aerie Pharmaceuticals and Inotek Pharmaceuticals.

Video #2: New Drug Classes

Eydie Miller-Ellis, MD is a professor of clinical ophthalmology and director of the glaucoma service at Scheie Eye Institute at the University of Pennsylvania. Dr. Miller-Ellis states that in the last 12 months, she has received grant/research support from Aerie Pharmaceuticals and Allergan, and has also served as a consultant for Alcon and Ono.

Robert Noecker, MD, MBA, is an assistant clinical professor of ophthalmology at the Yale University School of Medicine and practices at Ophthalmic Consultants of Connecticut. Dr. Noecker states that in the last 12 months, he has received grant/research support from Glaukos, InnFocus, and Aquesys, Inc., and been a consultant for Alcon, Allergan, Ocular Therapeutix, Inc., IRIDEX, Inotek Pharmaceuticals, Santen Pharmaceutical, SOLX, Aerie Pharmaceuticals, Beaver-Visitec International, and Sun Ophthalmics. Dr. Noecker also states that he has been on the speakers bureau for Alcon, Allergan, IRIDEX, Glaukos, and Beaver-Visitec International, and is a stock shareholder for Ocular Therapeutix.

DISCLAIMER

Participants have an implied responsibility to use the newly acquired information to enhance patient outcomes and professional development. The information presented in this activity is not meant to serve as a guideline for patient care. Procedures, medications, and other courses of diagnosis and treatment discussed or suggested in this activity should not be used by clinicians without evaluation of their patients' conditions and possible contraindications or dangers in use, applicable manufacturer's product information, and comparison with recommendations of other authorities.

COMMERCIAL SUPPORTERS

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