


**Ophthalmic Pearls**  
**GLAUCOMA**

**Diagnosis and Management of Malignant Glaucoma**

BY PHIL BISHARA, MD, THEODORE W. AND GREGORY S. TAYLOR, MD  
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**Malignant glaucoma**, first described by von Graefe in 1861, is characterized by a closed angle with a shallow anterior chamber and usually non-traumatic, bilateral, painless, and progressive increase in intraocular pressure. Over time, malignant glaucoma has taken on other names, including aponeurotic glaucoma, closed-angle glaucoma, and black angle closure. Malignant glaucoma is one of the most complex and difficult to treat forms of glaucoma, and it can progress to permanent blindness without prompt intervention.

**Mechanism**  
The mechanism of this disorder remains unclear. It is proposed that the mechanism involves a posterior-to-anterior displacement of the lens and pupillary block, which in turn causes a secondary angle closure. The angle closure is thought to be caused by the anterior displacement of the lens and pupillary block, which in turn causes a secondary angle closure. The angle closure is thought to be caused by the anterior displacement of the lens and pupillary block, which in turn causes a secondary angle closure.

**Diagnosis and Management**  
Diagnosis and management of malignant glaucoma require a high index of suspicion. The diagnosis is often made by the presence of a shallow anterior chamber, a closed angle, and a progressive increase in intraocular pressure. Management involves medical therapy to lower intraocular pressure and surgical intervention to restore the normal anatomy of the anterior chamber.


**STATUS OPERATE IOLs for Presbyopia Move Ahead**

**Can refractive technology ever duplicate the functional elegance of the eye's natural lens? General IOL makers are attempting to do exactly that, with incremental success.**

**REFRACTIVE SURGERY**  
The latest generation of premium IOLs (Intraocular Lenses) is being marketed by several manufacturers, including Alcon, Johnson & Johnson, and Zeiss. These lenses are designed to provide better visual quality and reduce the risk of complications compared to standard IOLs.

**OPHTHALMIC PHOTOGRAPHY**  
The use of IOLs in refractive surgery has increased significantly in recent years. This is due to the availability of advanced IOLs that can correct not only nearsightedness and farsightedness, but also presbyopia and astigmatism.

**Blink**



**LAST MONTH'S BLINK**  
**Retinal Cavernous Hemangioma**  
A 27-year-old Caucasian male was referred for progressive bilateral vision loss of the left eye. He was otherwise healthy with no significant past medical history. He was referred to the retina clinic for further evaluation.

**OPHTHALMIC PHOTOGRAPHY**  
The patient was diagnosed with retinal cavernous hemangioma. This is a rare, benign vascular tumor of the retina. It is characterized by a cluster of dilated, cavernous blood vessels. The diagnosis was confirmed by fundus photography and fluorescein angiography.

**CATARACT**

- Rosa Braga-Mele, MD
- David F. Chang, MD
- Burkhard Dick, MD
- Bonnie A. Henderson, MD
- Robert H. Osher, MD
- Steven I. Rosenfeld, MD, FACS

**COMPREHENSIVE OPHTHALMOLOGY**

- Preston H. Blomquist, MD
- Ravi D. Goel, MD
- Susan M. MacDonald, MD
- John B. Kerrison, MD
- Thomas A. Oetting, MD
- Bhavna P. Sheth, MD

**CORNEA / EXTERNAL DISEASE**

- Abdulaziz I. AlRajhi, MD
- James Chodosh, MD, MPH
- Robert F. Haverly, MD
- Elizabeth M. Hofmeister, MD
- Thomas J. Liesegang, MD
- Christopher Rapuano, MD
- Donald Tan, MD
- Jayne S. Weiss, MD

**GLAUCOMA**

- Sanjay G. Asrani, MD
- Keith Barton, MD
- Jonathan G. Crowston, MBBS, PhD
- Ivan Goldberg, MBBS
- Leon W. Herndon, MD
- Dale K. Heuer, MD
- Jody R. Piltz-Seymour, MD
- Joel S. Schuman, MD
- Ravi Thomas, MBBS

**LOW VISION**

- Lylas G. Mogk, MD
- Rebecca K. Morgan, MD

**NEURO-OPHTHALMOLOGY**

- M. Tariq Bhatti, MD
- Kimberly Cockerham, MD
- Deborah I. Friedman, MD
- Robert L. Lesser, MD

**OPHTHALMIC ONCOLOGY**

- James J. Augsburger, MD
- Martine J. Jager, MD
- Stefan Seregard, MD
- Arun D. Singh, MD

**OPHTHALMIC PATHOLOGY**

- Sander Dubovy, MD
- Deepak Paul Edward, MD
- Debra J. Shetlar, MD

**OPHTHALMIC PHOTOGRAPHY**

- Michael P. Kelly, CPT

**PEDIATRIC OPHTHALMOLOGY**

- Jan-Tjeerd H. N. de Faber, MD
- K. David Epley, MD
- Dorothy Shu-Ping Fan, MD
- David G. Hunter, MD, PhD
- Christie L. Morse, MD
- Terri L. Young, MD

**PLASTIC AND RECONSTRUCTIVE SURGERY**

- Evan H. Black, MD
- Bitu Esmaeli, MD
- Tamara R. Fountain, MD
- Robert A. Mazzoli, MD
- Philip R. Rizzuto, MD

**REFRACTIVE SURGERY**

- Francesco Carones, MD
- Alaa El-Danasoury, MD
- Ronald R. Krueger, MD
- Dennis S. C. Lam, MD
- Yaron S. Rabinowitz, MD
- William B. Trattler, MD

**RETINA / VITREOUS**

- J. Fernando Arevalo, MD
- Susan B. Bressler, MD
- Donald J. D'Amico, MD
- Sharon Fekrat, MD
- Donald S. Fong, MD
- Anne E. Fung, MD
- Nancy M. Holekamp, MD
- Anselm Kampik, MD
- Kgaogelo E. Legodi, MBChB
- Masahito Ohji, MD
- Carl D. Regillo, MD
- Andrew P. Schachat, MD
- Adrienne Williams Scott, MD
- Ingrid U. Scott, MD, MPH
- Thomas A. Weingeist, PhD, MD

**UVEITIS**

- James P. Dunn Jr., MD
- Phuc Lehoang, MD, PhD
- Russell N. Van Gelder, MD, PhD