

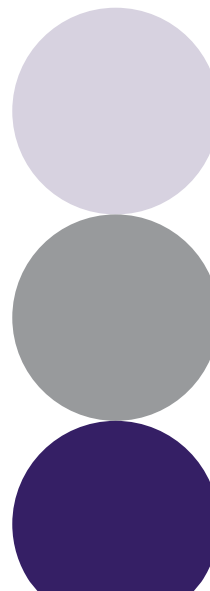


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AAO Session Topics

Selective Laser Capsulotomy (CAPSULaser)
Erik Mertens

Cataract Surgery in Irregular Astigmatism Sheraz Daya

Lens Based Presbyopia Correction Today
Omid Kermani

Trifocal IOLs, 6 Month Clinical Outcome
Alaa Eldanasoury

Trifocal Lenses Following Laser Ablative Refractive Surgery Sheraz Daya



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Corneal Biomechanics in Refractive Surgery: An Update Cynthia Roberts

And The Winner Is ... PRK, LASIK or SMILE? Omid Kermani

Use of an Anterior Segment OCT in Preoperative Planning and Postoperative Evaluation in ICL Surgery Erik Mertens

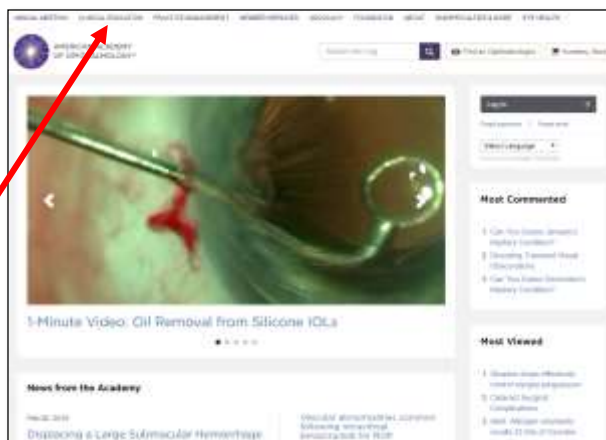
Common Misconceptions in Interpreting Corneal Topography Cynthia Roberts



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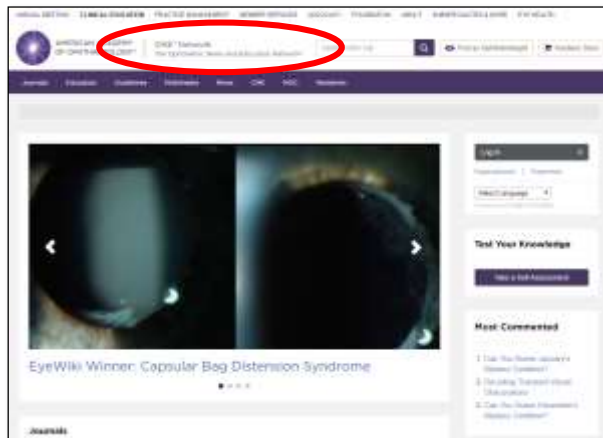


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Selective Laser Capsulotomy (CAPSULaser)

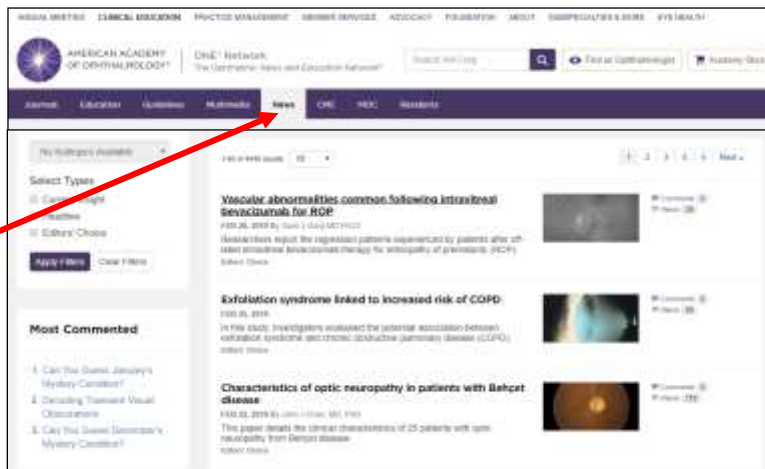


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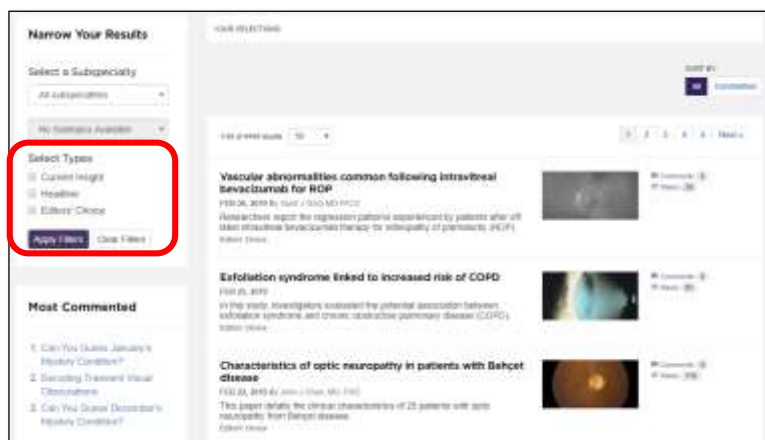
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Headlines: CAPSULaser

Cheaper alternative to the femtosecond laser shows promise

ESCRS 2016
Cataract/Refractive Segment



+ Add to My To-Do List Comments (2) Views (333)

One-year results for the CAPSULaser, a thermal laser that fits under a surgical microscope, show the device can make a perfectly round, precise capsulotomy in about 1 second.

Though still in development, the device is touted as the next generation in laser cataract technology, as it is expected to be less expensive and more convenient than a femtosecond laser. [This video, presented by Dr. Pavel Stodulka at ESCRS 2016, demonstrates the advantages of the CAPSULaser over femtosecond lasers, as well as promising early clinical data from 50 patients.](#)



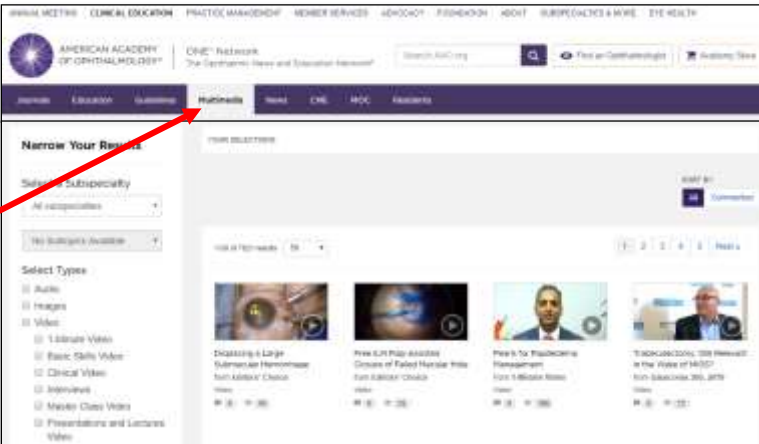
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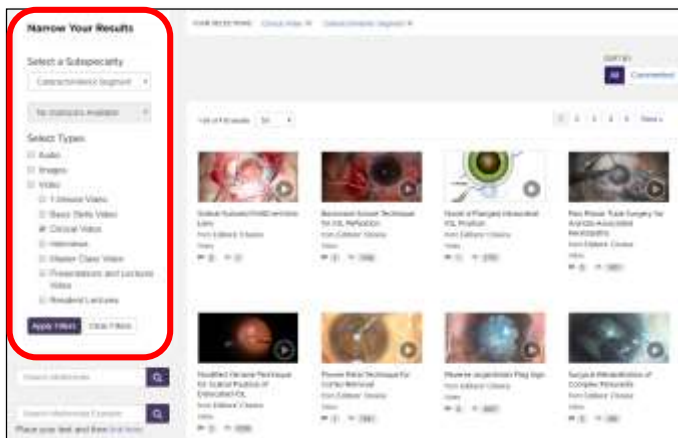
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Video: CAPSULaser System



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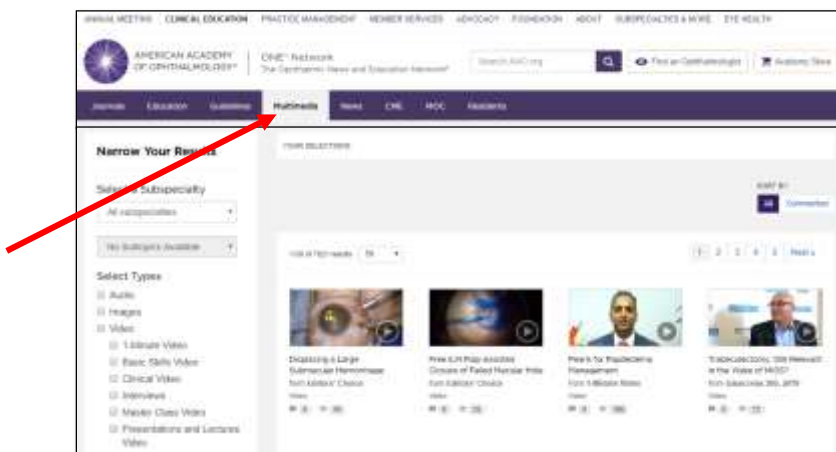
Cataract Surgery in Irregular Astigmatism



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Video: Special Cases of Irregular Astigmatism



Unusual Toric IOL Cases



By Armando Cerma, MD, Aileen Walsh, MD
Video Journal of Cataract and Refractive Surgery
07:28
Cataract/Intraocular Lenses, Refractive Myopia/Presbyopia



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Video: Intrastromal Femtosecond Laser Correction of Astigmatism



Intrastromal Femtosecond Laser Correction of Astigmatism



By Julian D. Stevens, DO
3rd Annual Global Video Contest
02:04
Corneal/External Disease



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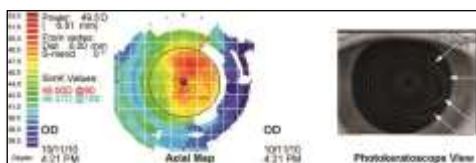


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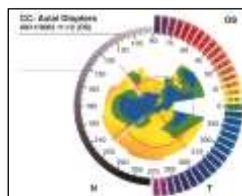
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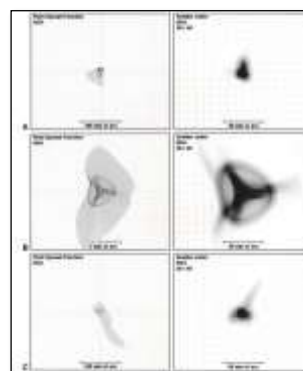
Irregular Astigmatism



Irregular topography



Causes of irregular astigmatism



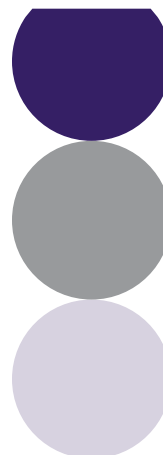
Spherical aberration and irregular astigmatism



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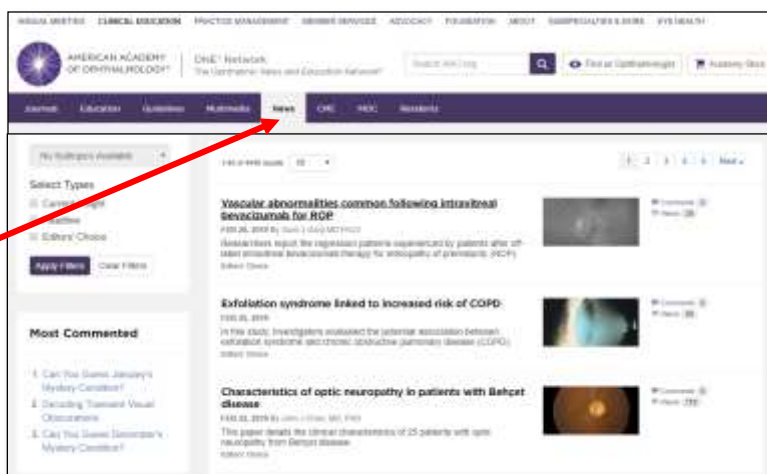
Lens Based Presbyopia Correction Today



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Headlines: Lens Based Presbyopia Correction



Presbyopia implant company purchased for \$1.5 million

Presbia PLC
 Contact: External Disclosure, Reflector Management

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Dublin-based [Presbia PLC](#) has acquired [Neoptics AG](#), developer of a micro lens for presbyopia correction.

Both companies focus on small lens corneal implants for presbyopia. Presbia expects its Flexivue Microlens, a 3 mm diameter inlay placed in the non-dominant eye, will be FDA-approved in 2017. The Microlens has already received a CE mark for use in the European Economic Area. Switzerland-based Neoptics' ICOLENS system is available outside the U.S.

"The acquisition of Neoptics' assets, including its patent portfolio, consolidates the principal intellectual property and 'know-how' underpinning the use of an optically powered micro-lens for the correction of presbyopia (near-vision loss), a condition affecting 1.8 billion people globally," said Todd Cooper, President and CEO of Presbia. "This consolidation of IP and know-how from Presbia and Neoptics has also created a patent protected platform to deploy our 'micro-lens' technology into solutions for vision problems beyond presbyopia, significantly expanding our addressable market into the future."



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EyeWiki – Eye Encyclopedia by Eye Physicians and Surgeons



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- Ophthalmic Pathology
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- Retina
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- Medical History
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EyeWiki – Article on Presbyopia-Correcting IOLs



Multifocal IOLs

Multifocal IOLs provide a variable refractive focus that allows patients to read, work, and drive without the need for glasses. The multifocal IOLs create multiple focal points that allow the eye to focus on objects at different distances. The multifocal IOLs are designed to provide a range of vision from near to far. The multifocal IOLs are designed to provide a range of vision from near to far. The multifocal IOLs are designed to provide a range of vision from near to far.

Bifocal IOLs

Bifocal IOLs provide a range of vision from near to far. The bifocal IOLs are designed to provide a range of vision from near to far. The bifocal IOLs are designed to provide a range of vision from near to far.

Accommodative IOLs

Accommodative IOLs provide a range of vision from near to far. The accommodative IOLs are designed to provide a range of vision from near to far. The accommodative IOLs are designed to provide a range of vision from near to far.

Outcomes

Outcomes of multifocal IOLs are generally good. Patients are able to read, work, and drive without the need for glasses. The multifocal IOLs are designed to provide a range of vision from near to far. The multifocal IOLs are designed to provide a range of vision from near to far.

Complications

Complications of multifocal IOLs are generally low. Patients may experience some glare or halos, but these symptoms usually improve over time. The multifocal IOLs are designed to provide a range of vision from near to far. The multifocal IOLs are designed to provide a range of vision from near to far.




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Trifocal IOLs, 6 Month Clinical Outcome

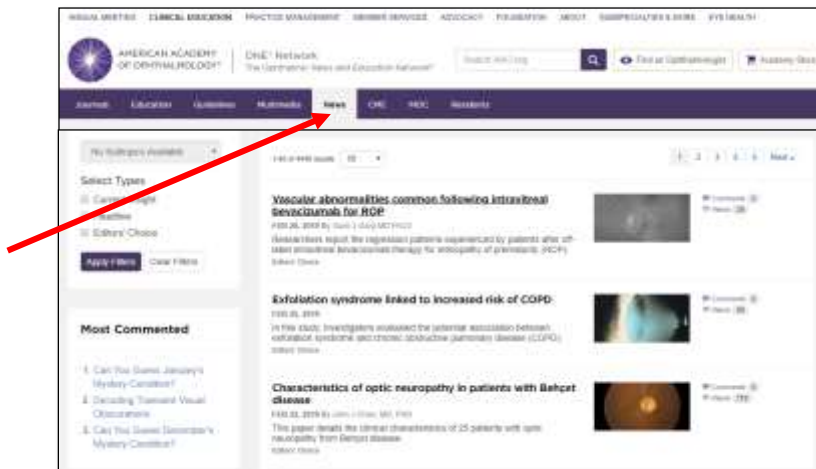
Trifocal Lenses Following Laser Ablative Refractive Surgery



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Editors' Choice: Trifocal vs. Extended Depth-of-Focus IOLs



APR 31, 2018

Trifocal vs. extended depth-of-focus IOLs: Which offers better vision outcomes?

Written By: Ronald Luke Reinhardt, MD
Retina and Vitreous Specialist



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This study compares the performance of 2 diffractive trifocal and 1 extended depth-of-focus (EDOF) IOLs.

Study design

This study assessed the visual outcomes of 50 patients who were equally randomized to receive the trifocal AcrySof IQ PanOptix, the trifocal FineVision Micro F or the EDOF Tecra Synergy IOL. All patients expressed a desire for decreased spectacle dependence, with an Ocular Scatter Index of greater than 2 and a cylinder of less than 0.75 D. The study excluded patients with amblyopia, ocular surface disease, macular or retinal abnormalities, glaucoma, diabetes mellitus, inflammatory disease or other systemic diseases.

At 6 months, the authors assessed and compared the groups' self-reported quality of vision, manifest refraction, and monocular and binocular near, intermediate and distance vision.

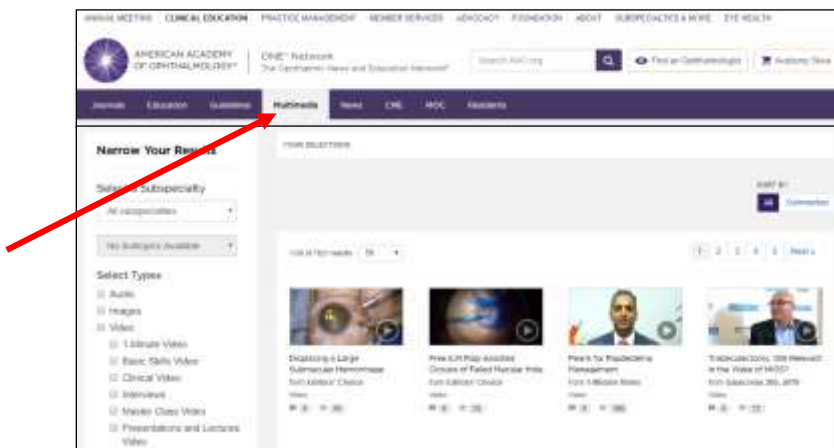


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Video: Presbyopia Solutions




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Presentation: Trifocal IOLs

Trifocal IOLs



By Thomas Kohner MD, PhD, FRCO
 AAO 2016
 11:26
 Cataract Refractive Segment, Comprehensive Ophthalmology, IOLs and Intraocular, Premium IOLs, Refractive Surgery/Intervention



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Showing results for **trifocal lenses**

Trifocal IOLs

MAY 26, 2017 by Thomas Kohner MD, PhD, FRCO
 11:26 presentation from AAO 2016, Thomas Kohner, MD, discusses 3 **TRIFOCAL IOLs**: the Zeiss **TRIFOCAL AT** (USA, the AcrySOL IQ F50CQ), and the PanOptix **TORIC**.
 Presentation | View



The Lowdown on High-Tech IOLs

MAY 26, 2017 by Mike Gaur, Contributing Writer
 Peek at several IOL technologies that your international colleagues are using.
 Article | Email | Print

Trifocal toric IOL launched in Europe

JAN 25, 2017
 The new AcrySOL IQ PanOptix toric IOL corrects presbyopia and astigmatism, offering patients a full range of vision.
 Headlines | Headlines

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Trifocal Lenses: The Promise of Spectacle Independence



- Innovation often reaches international markets before United States
- Lens design
- Benefits and best candidates
- Potential challenges
- October 2017 issue



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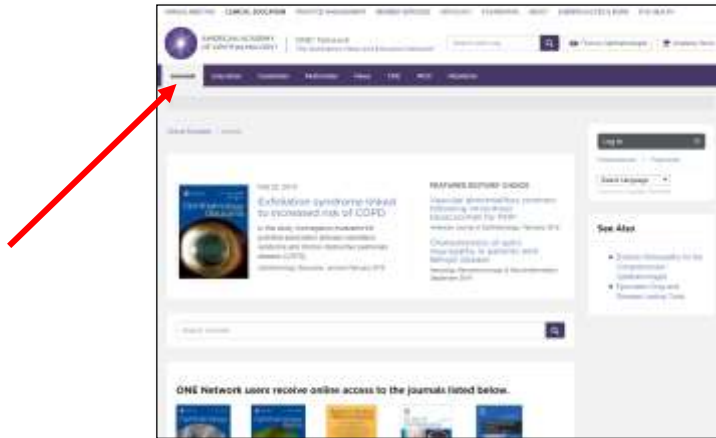
Corneal Biomechanics in Refractive Surgery: An Update



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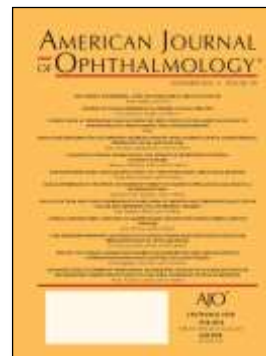
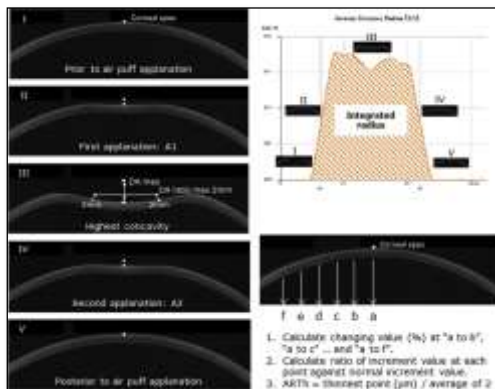
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Corneal Biomechanics



Changes in Corneal Biomechanics and Intraocular Pressure Following Cataract Surgery Hirasawa, Kazunori et al., *American Journal of Ophthalmology*, Volume 195, 26 - 35



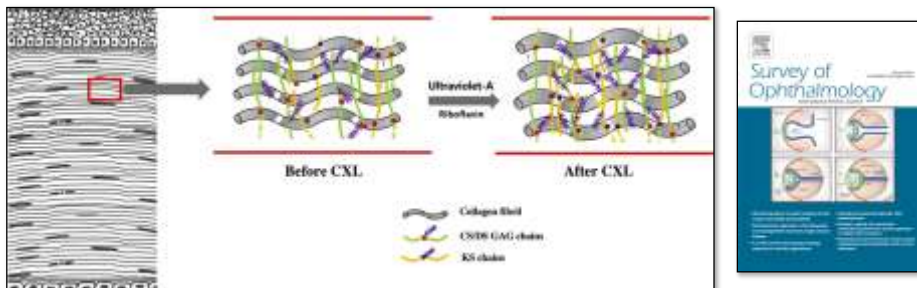
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Corneal Biomechanics



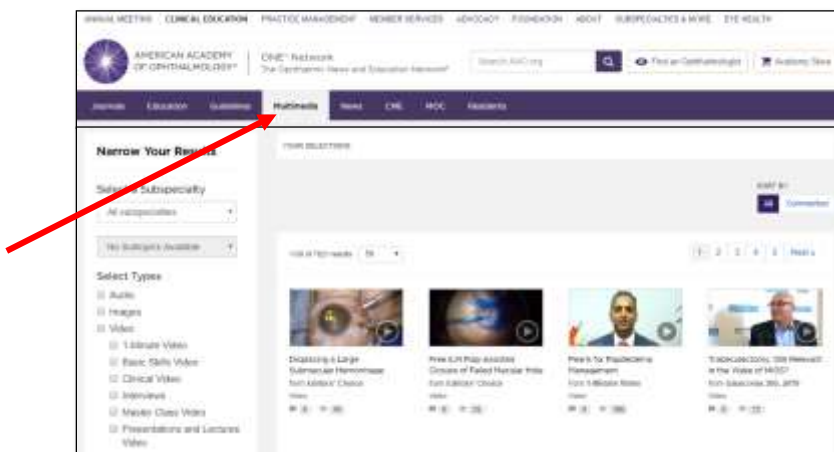
Biomechanics and structure of the cornea: implications and association with corneal disorders Ma, Jiaonan et al., *Survey of Ophthalmology*, Volume 63, Issue 6, 851 - 861



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Interview: Corneal Biomechanics



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And The Winner Is ... PRK, LASIK or SMILE?



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Editors' Choice: SMILE vs. LASIK

SMILE vs. LASIK: Which offers better early visual recovery?

Written By: Ronald Luke Repsbecht, MD
Retinal and Vitreous Surgeon

In this prospective study, researchers compared the early visual recovery of patients undergoing small incision lenticule extraction (SMILE) and laser in situ keratomileusis (LASIK).

Study design
Researchers consented 46 patients (age 18 to 50 D) scheduled to undergo bilateral SMILE (n=23) or LASIK (n=23). Contrast sensitivity, objective scatter index (OSI) and patient-reported quality of vision (QoV) were evaluated 1, 7 and 30 days after surgery.

Outcomes
Postoperative contrast sensitivity was better in the LASIK group compared with the SMILE group at day 1 and day 7 (P<0.014 and P=0.051, respectively), but the difference was no longer significant at 1 month. Eyes in the LASIK group had a better OSI at postoperative day 1 (P<0.030). There were no differences in uncorrected distance visual acuity, efficacy or safety at any timepoints.

Patients in the SMILE cohort reported worse quality of vision at day 7 (P<0.010) and had more visual symptoms, including double focusing, halos and fog during the first postoperative week. There were no differences in visual symptoms at 1 month.



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Editors' Choice Articles Include Limitations & Clinical Significance

JUNE 12, 2013
Wavefront-guided LASIK outperforms SMILE for low to moderate myopia

Limitations
 Preoperative visual acuity was better in the WFG LASIK group, which could have influenced the finding of better visual acuity outcomes in this group. Also of note, one of the authors has a financial relationship with the company that owns one of the studied technologies.

Clinical significance
 Despite the perceived conflict of interest, the study design is appropriate and the outcomes call into question the superiority of SMILE. Further evidence comparing its visual and biomechanical advantages against other refractive procedures is needed to support its adoption as the gold standard refractive treatment.

Clinical outcomes
 Compared with SMILE eyes, a higher proportion of WFG LASIK eyes achieved postoperative UCVA of 20/20 logMAR (91.2% vs 78.0%), spherical equivalent within 0.5 D (98% vs 81.9%) and cylinder of 0.5 D or less (100% vs 84.7%).

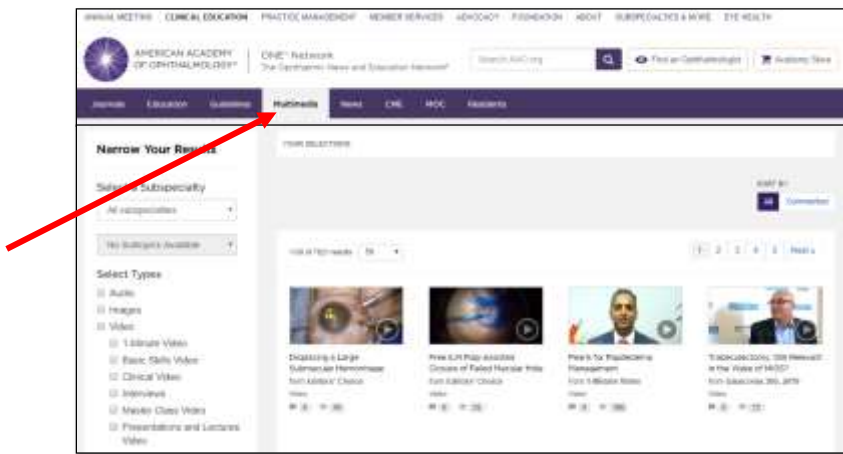
SMILE appeared to increase both higher order aberrations and root mean square (RMS) values, and decrease contrast sensitivity significantly more than WFG LASIK. Both patient groups had a significant correlation between attempted and achieved spherical equivalent correction; however, this correlation was stronger in WFG LASIK patients.

Loss of 1 line of DCVA occurred in 6.8% of WFG LASIK patients vs. 0% of SMILE patients.



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Video: Pros and Cons of SMILE



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Use of an Anterior Segment OCT in Preoperative Planning and Postoperative Evaluation in ICL Surgery



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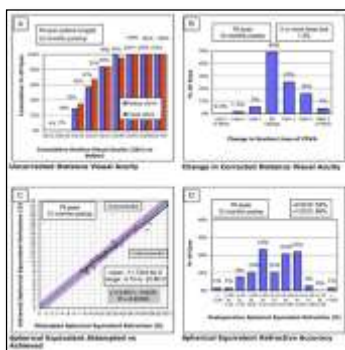
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Use of an Anterior Segment OCT



Anterior segment optical coherence tomography angle and vault analysis after toric and non-toric implantable collamer lens V4c implantation in patients with high myopia Garcia-De la Rosa G et al., *British Journal of Ophthalmology* 2018;102:544-548



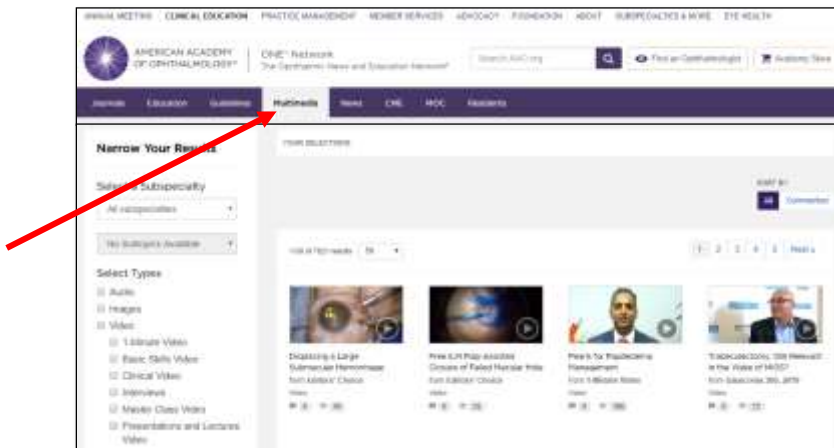
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Video: Anterior Segment OCT



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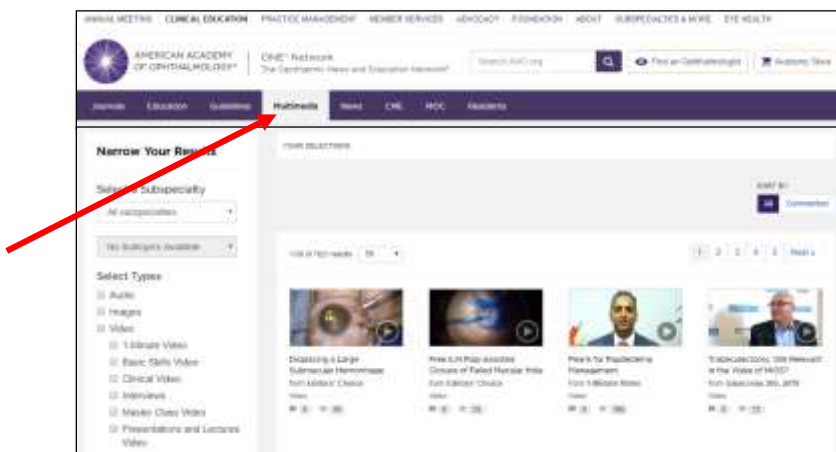
Common Misconceptions in Interpreting Corneal Topography



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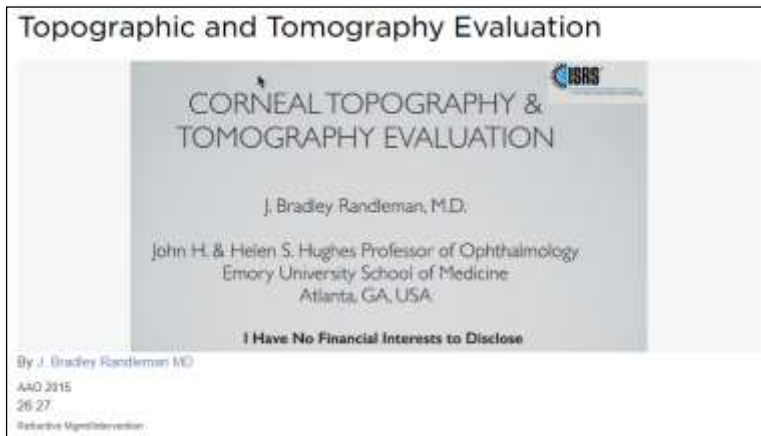
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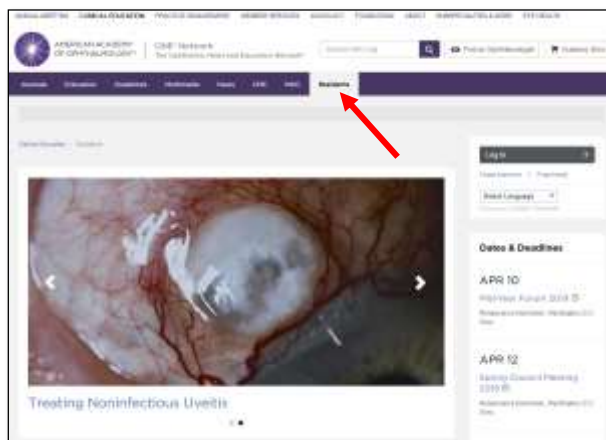
Lecture: Corneal Topography



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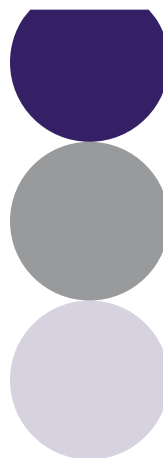
Residents Course: Refractive 101



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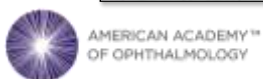
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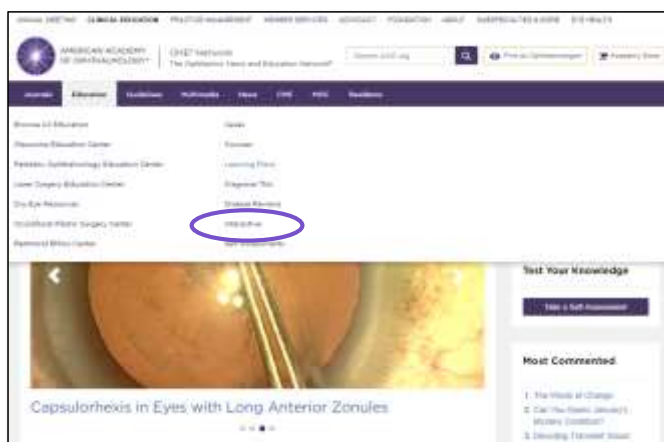
Google Translate ONE Network Used 24,000 Times in One Year



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New: Retinoscopy Simulator



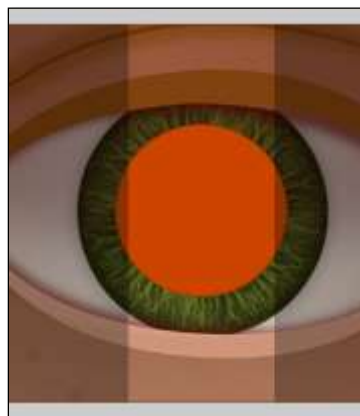
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New: Retinoscopy Simulator

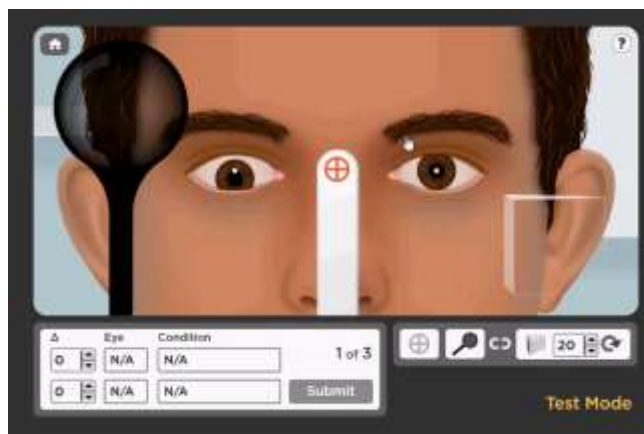
- Designed for students to learn and practice the principles of retinoscopy
- Visualize how light reflexes in an eye with various refractive errors, amounts of astigmatism
- Allows adjustment of spherical power, cylinder power and cylinder axis



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Interactive – Strabismus Simulator

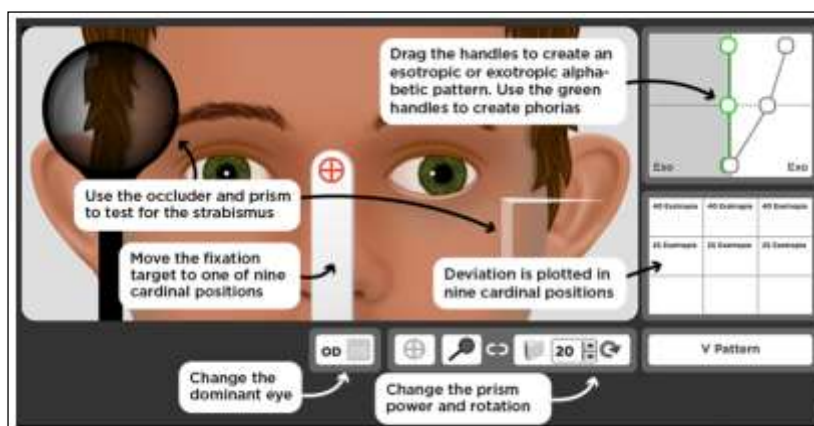


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New: Complex Strabismus Simulator



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New: Complex Strabismus Simulator

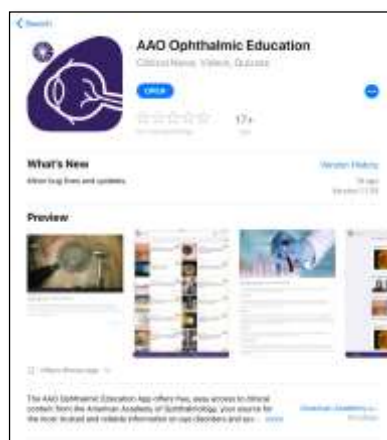
- Good for med students, residents
- Teach concepts before examining baby
- Allows exploration of more complex eye deviations such as the alphabet patterns, cranial nerve palsies and Brown syndrome



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New for Subscribers: AAO Ophthalmic Education App

- Quick access to:
 - News
 - 1-Minute-Videos
 - Quizzes
 - EyeWiki
- Receive alerts for customized content by your subspecialty

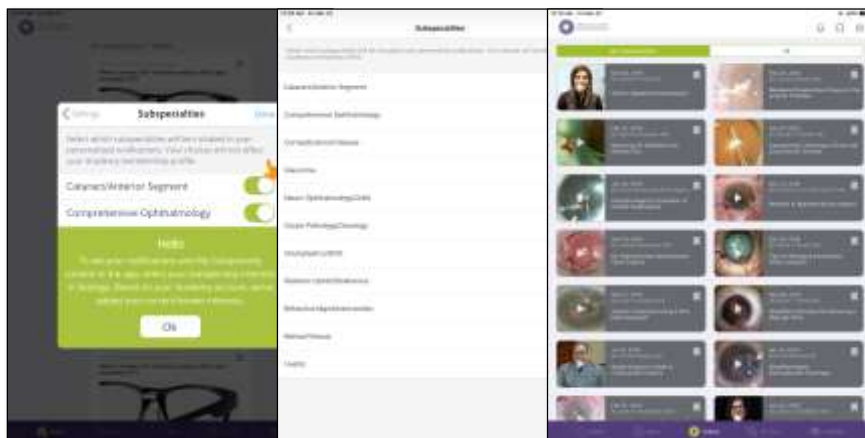


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AAO Ophthalmic Education App



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AAO Ophthalmic Education App



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New: Academy Hosting Four Free Webinars in 2019

- Cataract, Glaucoma, Retina, Cornea
- CME attached
- 90 minutes to 2 hours
- Free for ONE Network subscribers and Academy members



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Egypt and the ONE Network

- Ophthalmologists in Egypt have had access since 2009
- Since EOS 2018:
 - More than 150 EOS members activated their account
 - 23% increase in ONE Network visits from Egypt

	Popular Resources	Popular Videos
Egypt	<ul style="list-style-type: none"> • <i>EyeNet Magazine</i> • Editors' Choice Articles • Laser Surgery Education Center • Disease Reviews 	<ul style="list-style-type: none"> • Reverse Argentinian Flag Sign • LASIK Stria Removal Technique • Modified Yamane Technique for Scleral Fixation of Dislocated IOL



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Sign Up for ONE Network Access

- Visit me at the Academy booth
- Email me at jaguirre@aao.org



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Activate Your Account



- Access material behind the firewall.
- “ONE Network Update” sent from Academy end of month.
- Follow instructions to claim access key.

Questions? Email oneintl@aao.org



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