



AMERICAN ACADEMY
OF OPHTHALMOLOGY

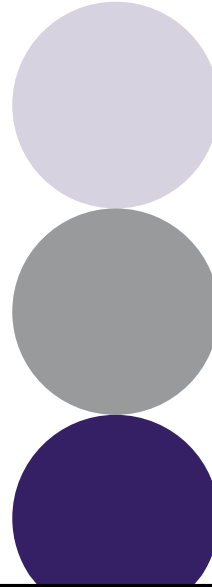
Protecting Sight. Empowering Lives.™

ONE® Network

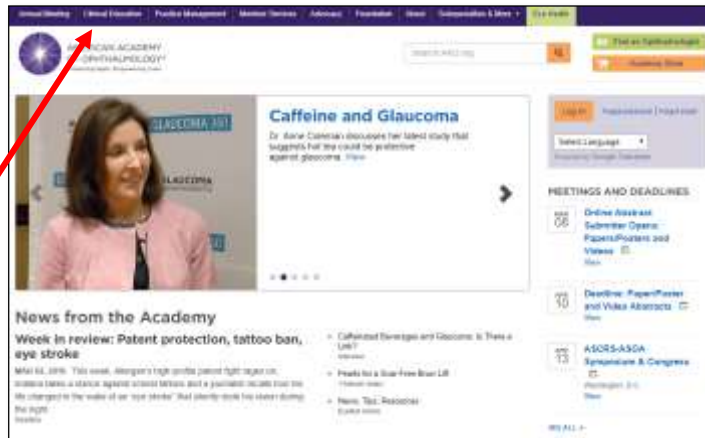
Ophthalmologists' Global Platform for
Education

Jane Aguirre

AAO, VP, Membership & Alliances



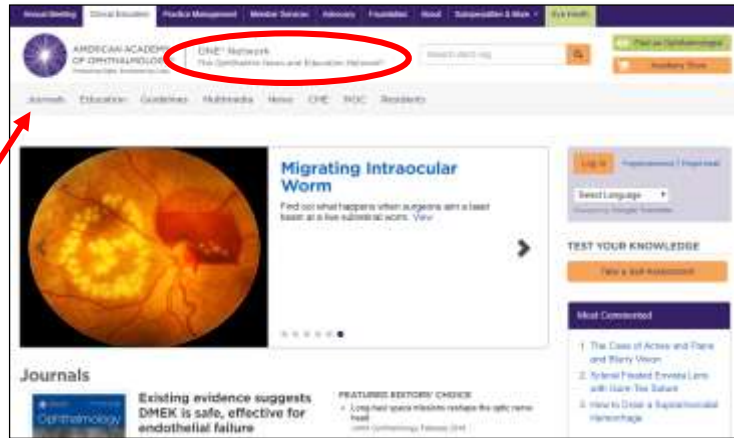
Visit AAO.org



AMERICAN ACADEMY
OF OPHTHALMOLOGY

Protecting Sight. Empowering Lives.™

Ophthalmic News and Education (ONE) Network



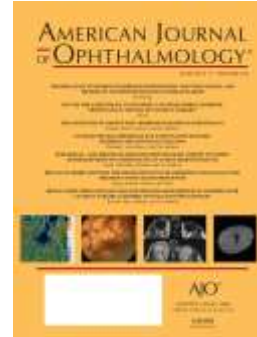
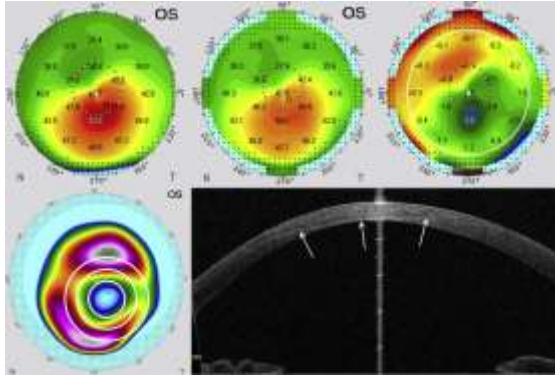
Protecting Sight. Empowering Lives.™

ONE Network – Journals



Protecting Sight. Empowering Lives.™

Customized Crosslinking



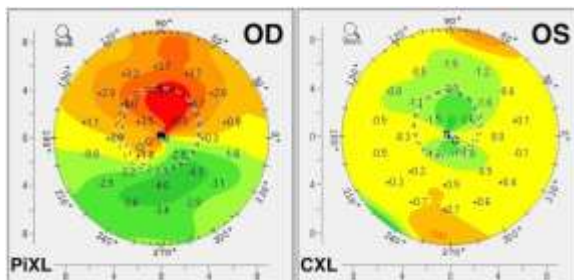
Seiler TG, Fischinger I, Koller T, Zapp D, Frueh BE, Seiler T. **Customized Corneal Cross-linking: One-Year Results**, *American Journal of Ophthalmology*. 2016



Protecting Sight. Empowering Lives.™

5

Customized Crosslinking



Nordström M, Schiller M, Fredriksson A, Behndig A. **Refractive improvements and safety with topography-guided corneal crosslinking for keratoconus: 1-year results**, *British Journal of Ophthalmology*. 2017



Protecting Sight. Empowering Lives.™

6

ONE Network – News



Protecting Sight. Empowering Lives.™

ONE Network – News



Protecting Sight. Empowering Lives.™

Corneal Crosslinking

APR 20, 2015

Corneal Crosslinking

Corneal Disease

Written By: Giuseppe M. Miura MD



↓ Add to My Topic List Comments 0 Views: 1946

Introduction

Since Dr. Theo Seiler and colleagues introduced corneal cross-linking (CXL) in 2003¹, the procedure has gained significant expansion in the treatment of corneal diseases, particularly corneal ectasia. Using a combination of ultraviolet light (UVA) and riboflavin eye drops, corneal cross-linking has taken a relatively simple combination and created an emerging treatment paradigm for not only corneal ectatic diseases such as keratoconus, but possibly other indications such as infectious keratitis.² Seiler and colleagues made popular the "Dresden Protocol" specifying the parameters of CXL, which has now blossomed into a multitude of variants and modifications aimed at reducing complications, side effects and length of the procedure. We will describe the evolution of corneal cross-linking, and examine its future in the treatment of corneal disease.

The Dresden Protocol



Protecting Sight. Empowering Lives.™

ONE Network – Multimedia



AMERICAN ACADEMY OF OPHTHALMOLOGY™ ONE Network™ The Ophthalmology Education Network™

Home | Education | Guidelines | Abstracts | News | ONE | FAQ | Resources

Migrating Intraocular Worm

Find out what happens when surgeons see a least likely at a live substrate worm. View

TEST YOUR KNOWLEDGE

Take a Self Assessment

Most Commented

1. The Case of Active and Passive and Fluffy Worm
2. Special Pseudo-Enucleation Lens with Issue the Future
3. How to Deal a Suprachoroidal Hemorrhage

Journals

Existing evidence suggests DMEK is safe, effective for endothelial failure

FEATURED EDITORIAL CHOICE

Long-term optical outcomes enhance the optic nerve head

Journal of Ophthalmology, February 2016



Protecting Sight. Empowering Lives.™

ONE Network – Multimedia



AMERICAN ACADEMY™
OF OPHTHALMOLOGY

Protecting Sight. Empowering Lives.™

11

Cataract Surgery in Irregular Corneas

VIDEO PRESENTATION: Optimizing Cataract Surgery Outcomes in Keratoconus, By Dr. Douglas Koch



AMERICAN ACADEMY™
OF OPHTHALMOLOGY

Protecting Sight. Empowering Lives.™

12

ONE Network – Multimedia

Narrow Your Results

SELECT A SUBSPECIALTY

Cataract/Refractive Surgery

No Results Available

SELECT TYPES

- Audio
- Image
- Video
- 1-800-Video
- Basic Skills Video
- Clinical Video
- Interview
- Master Class Video
- Presentations and Lectures Video
- Resident Lectures

Apply Filters Clear Filters

YOUR SELECTIONS: Image 0 | Cataract/Refractive Surgery 0

300/47

44 Connections

4/4 of 27 results

1 2 3 4 5 Next

Insert injector and gonioscopic view image

Insertion of the Intraocular Microflap image

Microscope fit-and-lead relation image

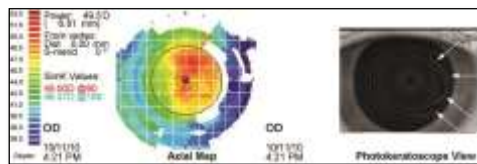
CyPass Micro-Stent (Alcon) image

AMERICAN ACADEMY™ OF OPHTHALMOLOGY

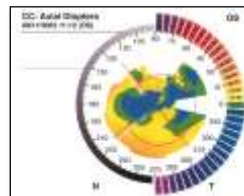
Protecting Sight. Empowering Lives.™

13

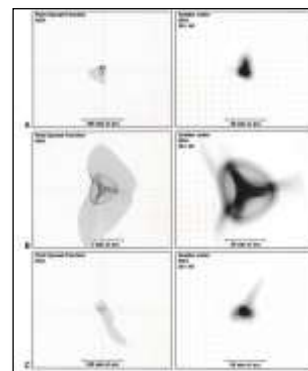
Irregular Astigmatism



Irregular topography



Causes of irregular astigmatism



Spherical aberration and irregular astigmatism

ONE Network – News



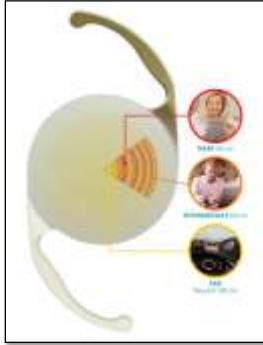
Protecting Sight. Empowering Lives.™

ONE Network – News



Protecting Sight. Empowering Lives.™

Trifocal IOLs



APR 30, 2017

Trifocal toric IOL launched in Europe

Alcon
Cataract/Refractive Surgery

[Add to My To-Do List](#) [Comments](#) [Views: 128](#)

The new [AcrySof IQ PanOptix toric IOL](#) (Alcon) corrects nearsightedness and astigmatism, offering patients a full range of vision.

"Without innovations like this, many of my patients undergoing cataract surgery will need to rely on glasses or contact lenses to correct near vision issues or astigmatism post-surgery," said Dr. Thomas Köhner, professor and chairman of the Department of Ophthalmology, Goethe University Frankfurt. "The availability of vision correction options like the AcrySof IQ PanOptix Toric IOL helps them get back to driving, reading books and using electronic devices without contacts or eyeglasses with tolerable side effects in comparison with previous technologies."

The new trifocal IOL was granted CE mark approval in November 2016, and is now available in Spain, Portugal and Chile.

The lens combines the trifocal optic as the AcrySof IQ PanOptix IOL, on the front surface and toric astigmatic correction on the back, providing an intermediate focal point at 60 cm.



Protecting Sight. Empowering Lives.™

ONE Network – Multimedia



Protecting Sight. Empowering Lives.™

ONE Network – Multimedia

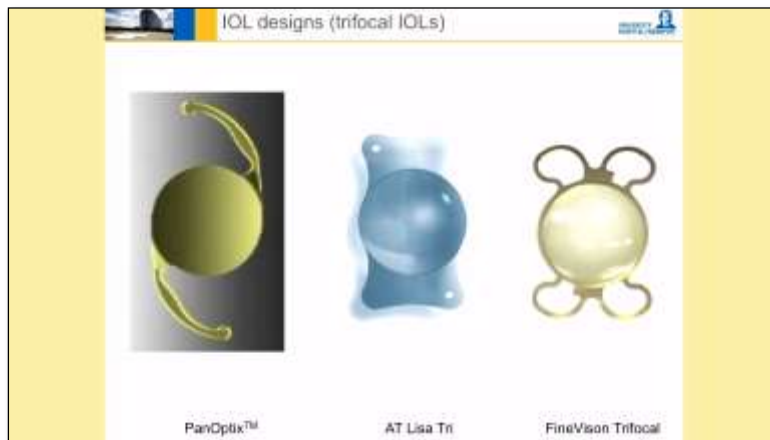
The screenshot displays a search results page for the ONE Network. On the left, a sidebar titled "Narrow Your Results" is highlighted with a red box. It includes a "SELECT A SUBSPECIALTY" dropdown menu set to "Cataract/Anterior Segment", a "SELECT TYPES" section with checkboxes for Audio, Image, Video, and various video categories like "1 Minute Video", "Basic Skills Video", "Clinical Video", "Interviews", "Master Class Video", "Presentations and Lectures Video", and "Resident Lectures". Below the filters are "Apply Filters" and "Clear Filters" buttons. The main content area shows "FOUR SELECTIONS" with a grid of four video thumbnails. Each thumbnail has a title, a date, and a view count. The titles are: "Cataract Spotlight 2017 - Case 7 (Time IOL)", "Cataract Spotlight 2017 - Case 5 (Ultrasonically-Cataract)", "Cataract Spotlight 2017 - Case 9 (Small Pupil and Shallow Anterior Chamber)", and "Cataract Spotlight 2017 - Case 2 (Posterior Capsular Defect)".



AMERICAN ACADEMY™ OF OPHTHALMOLOGY

Protecting Sight. Empowering Lives.™

Trifocal IOLs



VIDEO PRESENTATION: Trifocal IOLs, By Dr. Thomas Kohnen



AMERICAN ACADEMY™ OF OPHTHALMOLOGY

Protecting Sight. Empowering Lives.™

ONE Network – Search

The screenshot shows a search results page for 'Trifocal IOLs'. The search bar at the top contains the text 'Trifocal IOLs'. Below the search bar, there are navigation options: 'First', 'Previous', '1', '2', '3', '4', '5', 'Next', and 'Last'. The results are displayed in a list format. The first result is titled 'Trifocal IOLs' and includes a small image of an eye. The second result is titled 'The Lowdown on High-Tech IOLs' and is highlighted with a red arrow. The third result is titled 'Visual Outcomes Following Bilateral Implantation of Two Diffractive Trifocal Intraocular Lenses in 10,084 Eyes: Are Big Data Always Better?'.



AMERICAN ACADEMY
OF OPHTHALMOLOGY

Protecting Sight. Empowering Lives.™

21

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



AMERICAN ACADEMY
OF OPHTHALMOLOGY

Protecting Sight. Empowering Lives.™

22

ONE Network – Multimedia

AMERICAN ACADEMY OF OPHTHALMOLOGY™
The Ophthalmology Educational Network™

Home ONE IOLC Residents

Migrating Intraocular Worm

Find out what happens when surgeons aim a laser beam at a live subretinal worm. View

TEST YOUR KNOWLEDGE
Take a Self-Assessment

Most Commented

1. The Case of Active and Passive and Sherry Vozes
2. Systemic Fungal Infections (and why I love the Subject)
3. How to Create a Supplemental Handout

Journals
Existing evidence suggests DMEK is safe, effective for endothelial failure

FEATURED EDITORIAL CHOICE
Long-term optical coherence tomography of the optic nerve head



Protecting Sight. Empowering Lives.™

23

IOL Implantation



"An excellent technique."

"Surgeon's hand is indeed adroit."

VIDEO: Retropupillary Artisan IOL Implantation After Subluxated IOL,
By Dr. Tobias H. Neuhann



Protecting Sight. Empowering Lives.™

24

IOL Implantation



VIDEO: Presbyopia Solutions: Trifocal IOLs, By Dr. Erik Mertens



AMERICAN ACADEMY™ OF OPHTHALMOLOGY

Protecting Sight. Empowering Lives.™

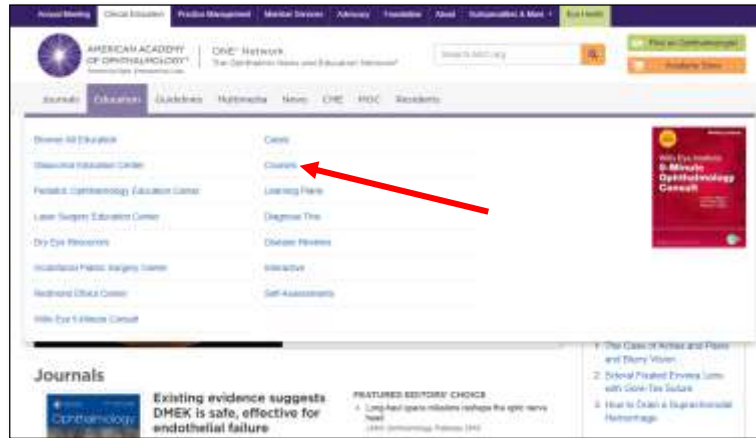
ONE Network – Education



AMERICAN ACADEMY™ OF OPHTHALMOLOGY

Protecting Sight. Empowering Lives.™

ONE Network – Education



Protecting Sight. Empowering Lives.™

Phakic IOLs



CME Course: Phakic IOLs



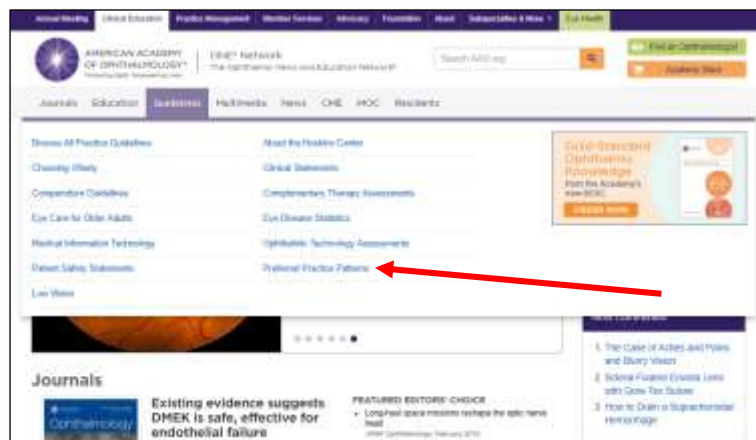
Protecting Sight. Empowering Lives.™

ONE Network – Guidelines



Protecting Sight. Empowering Lives.™

ONE Network – Guidelines



Protecting Sight. Empowering Lives.™

Refractive Management

مستخلص الممارسات الرئيسية لتدليل نموذج الممارسة المعتدل*

مقدمة: هذا الوثيقة توضح الممارسات الرئيسية لتدليل نموذج الممارسة المعتدل. المستخلص هو التلخيص المختصر لهذا الوثيقة. المستخلص هو التلخيص المختصر لهذا الوثيقة. المستخلص هو التلخيص المختصر لهذا الوثيقة.

محتوى:

- بعد أن يكون قد أصبح أكثر المصداقية العلمية، التبريد، كما يجب أن يكون بعدة من الطرق، التوسيع، المعلومات، بعد.
- بعد اعتماد في تربية جديدة من عدة طرق، التوسيع، المعلومات، بعد.
- بعد اعتماد في تربية جديدة من عدة طرق، التوسيع، المعلومات، بعد.

تدليل نماذج الممارسة المعتدلة مرتبطة:

الأساليب الممارسة، والتدليل، تدليل الممارسة:

الأساليب الممارسة، والتدليل، تدليل الممارسة:

الأساليب الممارسة، والتدليل، تدليل الممارسة:

SUMMARY BENCHMARKS: Arabic



Protecting Sight. Empowering Lives.™

ONE Network – Guidelines

The screenshot shows the ONE Network website interface. At the top, there are navigation tabs for 'Annual Meeting', 'Clinical Education', 'Practice Management', 'Medical Services', 'Advocacy', 'Foundation', 'Meet', 'Subspecialty & More', and 'Get Health'. Below the navigation is a search bar and a 'Log In' button. The main content area is divided into several sections:

- Diagnose All Practice Guidelines:** Includes links for 'Chemistry Utility', 'Compensatory Guidelines', 'Eye Care for Older Adults', 'Medical Information Technology', 'Patient Safety Statements', and 'Low Vision'.
- Meet the Institute Center:** Includes links for 'Clinical Statements', 'Complementary Therapy Assessments', 'Eye Disease Statistics', 'Optometric Technology Assessment' (highlighted with a red arrow), and 'Optometric Practice Patterns'.
- Guidelines:** A section with a 'Guidelines' button.
- Journals:** A section featuring a journal article titled 'Existing evidence suggests DMEK is safe, effective for endothelial failure'.
- Featured Editors' Choice:** A section with a featured article.
- Top Cases of Interest:** A section with a list of cases.



Protecting Sight. Empowering Lives.™

Femtosecond-LASIK

MAJ 2013
Femtosecond Lasers for LASIK Flap Creation OTA
 AND DTAC Refractive Management/Intervention Panel: Hostory Center for Quality Eye Care

[Add to My Tools List](#) [Comments](#) [View All](#)

Abstract:
 A Report by the American Academy of Ophthalmology, Ophthalmology, Optometric Technology Assessment Committee Refractive Management/Intervention Panel: Ajay A. Faria, MD, Ash Singh, MD, MSF, Steven C. Schallhorn, MD, Peng A. Haganstad, MD, David J. Tanzer, MD, William B. Tamber, MD, Jota S. Casari, MD, Alexander E. Doranides, MD, MSF, George D. Hyman, MD, PhD

Ophthalmology, March 2013, Vol 130, 465-469 © 2013 by the American Academy of Ophthalmology. [Click here to see access to the OTA.](#)

Objective: To review the published literature to assess the safety, efficacy, and predictability of femtosecond lasers for the creation of corneal flaps for LASIK, to assess the reported outcomes of LASIK when femtosecond lasers are used to create corneal flaps, and to compare the differences in outcomes between femtosecond lasers and mechanical microkeratomes.

Methods: Literature searches of the PubMed and Cochrane Library databases were last conducted on October 12, 2011, without language or date limitations. The searches retrieved a total of 558 references. Of these, panel members selected 20 papers that they considered to be of high or medium clinical relevance and the panel methodologist rated each article according to the strength of evidence. Four studies were rated as level I evidence; 14 studies were rated as level II evidence; and the remaining studies were rated as level III evidence.



AMERICAN ACADEMY™
OF OPHTHALMOLOGY

Protecting Sight. Empowering Lives.™

ONE Network – News

The screenshot shows the ONE Network website interface. At the top, there are navigation tabs for Home, Education, Guidelines, Abstracts, News, ONE, and DDC. Below the navigation is a search bar and a 'Log In' button. The main content area features a large image of a human eye with a red arrow pointing to the article title 'Migrating Intraocular Worm'. The article text reads: 'Find out what happens when a parasite gets a free ride on your eye. View'. To the right of the article is a 'TEST YOUR KNOWLEDGE' section with a 'Take a Self-Assessment' button and a 'Most Commented' section listing three articles.



AMERICAN ACADEMY™
OF OPHTHALMOLOGY

Protecting Sight. Empowering Lives.™

Femtosecond-LASIK

May 26, 2017

Wavefront-guided LASIK may yield better contrast sensitivity and fewer HOAs than FLEX

Written By: Robert T. Farnell MD
Fellow, Retina and Vitreous

[Share This To Your List](#)
[Comments](#)
[View All](#)

This prospective study showed that 3-month visual and safety outcomes were similar between femtosecond LASIK (FS-LASIK), wave front-guided femtosecond LASIK (WF-LASIK) and femtosecond lamellar excimer (FLEX) for patients undergoing correction of myopia and myopic astigmatism. However, WF-LASIK produced better mesopic contrast sensitivity (CS) and a lower induction rate of higher order aberrations (HOAs) compared with the other two procedures.

Study design and outcomes
In this randomized study, 332 right eyes of 332 patients that were treated showed excellent visual acuity, with 56.1% of the FS-LASIK group, 68.9% of the WF-LASIK group and 60.4% of the FLEX group at 25/20 or better.

Significant increases in HOAs were seen in all 3 groups, but WF-LASIK eyes had significantly better HOA induction rates than FS-LASIK and FLEX (P<0.01). Additionally, a better mesopic CS with and without glare was observed in the WF-LASIK group.

Clinical significance
While FS-LASIK, WF-LASIK and FLEX share some similarities, few studies have compared visual outcomes, decenteration, CS and HOAs between the 3 procedures.



Protecting Sight. Empowering Lives.™

ONE Network – Journals

The screenshot shows the ONE Network interface with a red arrow pointing to a text box that reads: "ONE Network users receive online access to the Journals listed below." Below this text are five journal covers: Ophthalmology, Ophthalmic Science, Ophthalmic Surgery, Retina, and Ophthalmology (Specialty).



Protecting Sight. Empowering Lives.™

Femtosecond-LASIK

Ophthalmology AMERICAN ACADEMY™ OF OPHTHALMOLOGY

Volume 131, Number 3, March 2012, Pages 442-448

Femtosecond Lasers for LASIK Flap Creation

A Report by the American Academy of Ophthalmology

David A. Fane, MD, Ivan Durr, MD, MS, Stephen G. Schwartz, MD, David A. Johnson, MD, David J. Tappin, MD, William E. Trattler, MD, John S. Green, MD, Samuel P. Jacobson, MD, MS, James E. Tompkins, MD, PhD

Published online November 12, 2011
DOI: 10.1097/OPT.0b013e3182318303

Article Outline

- Equipment and Operation of Femtosecond Lasers
- Current Clinical Practice
- Advances in Laser-Assisted In Situ Keratomileusis

Related Articles

Efficacy and Safety of Femtosecond Laser-Assisted Cataract Surgery Compared with Manual Cataract Surgery: A Meta-Analysis of 14 567 Eyes
Ophthalmology, Vol. 121, Issue 7

Comparison of Manual, Femtosecond Laser, and Precision Pulse Capsulotomy Edge Tear Strength in Paired Human Cadaver Eyes
Ophthalmology, Vol. 121, Issue 7

Evaluation of Femtosecond Laser Intrastromal Incision Location Using Optical Coherence Tomography
Ophthalmology, Vol. 121, Issue 7

Dr. Popovic et al.: Efficacy and safety of femtosecond laser-assisted cataract surgery compared with manual cataract surgery: a meta-analysis of 14 567 eyes



AMERICAN ACADEMY™ OF OPHTHALMOLOGY

Protecting Sight. Empowering Lives.™

ONE Network – Multimedia

AMERICAN ACADEMY™ OF OPHTHALMOLOGY ONE Network™ The Ophthalmology Education Network™

Home | Education | Guidelines | Abstracts | News | ONE | FAQ | Resources

Migrating Intraocular Worm

Find out what happens when surgeons aim a laser beam at a live substrate worm. [View](#)

Journals

Existing evidence suggests DMEK is safe, effective for endothelial failure

FEATURED EDITORIAL CHOICE

Long-term optical outcomes following the optic nerve head

TEST YOUR KNOWLEDGE

Take a self-assessment

Most Commented

- The Case of Acute and Flare and Flurry Worm
- Specialty-Related Events: Learn with Us for the Future
- How to Deal a Suprachoroidal Hemorrhage



AMERICAN ACADEMY™ OF OPHTHALMOLOGY

Protecting Sight. Empowering Lives.™

Small-Incision Lenticule Extraction (SMILE)



VIDEO: Tips for Getting Started with SMILE, By Dr. Luke Rebenitsch

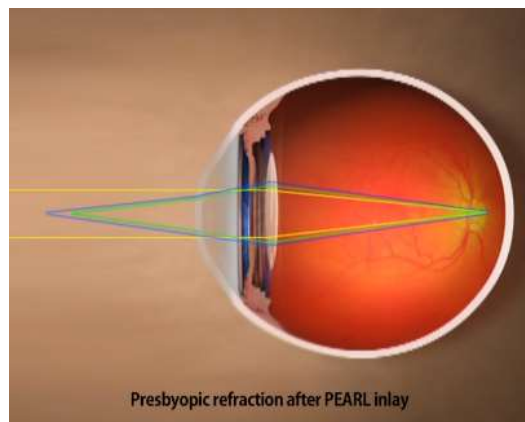


AMERICAN ACADEMY™
OF OPHTHALMOLOGY

Protecting Sight. Empowering Lives.™

39

Small-Incision Lenticule Extraction (SMILE)



VIDEO: Presbyopic Allogenic Refractive Lenticule, By Dr. Soosan Jacob



AMERICAN ACADEMY™
OF OPHTHALMOLOGY

Protecting Sight. Empowering Lives.™

40

ONE Network – Your Connection to Global Experts



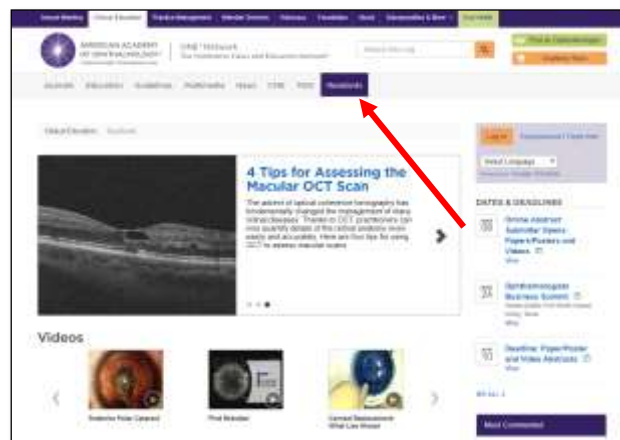
Dr. Antonio Marinho – Phakic IOLs: Where Are We Heading?

Dr. Alaa Eldanasoury – Featured Expert, CXL: The Road Ahead



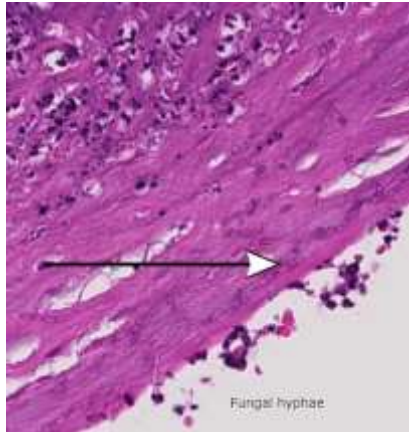
Protecting Sight. Empowering Lives.™

ONE Network – Residents



Protecting Sight. Empowering Lives.™

Available to All Residents



- **Pathology Atlas** offers annotated virtual microscopy images from the field, contributed by ophthalmic pathologists



AMERICAN ACADEMY™
OF OPHTHALMOLOGY

Protecting Sight. Empowering Lives.™

Pathology Atlas

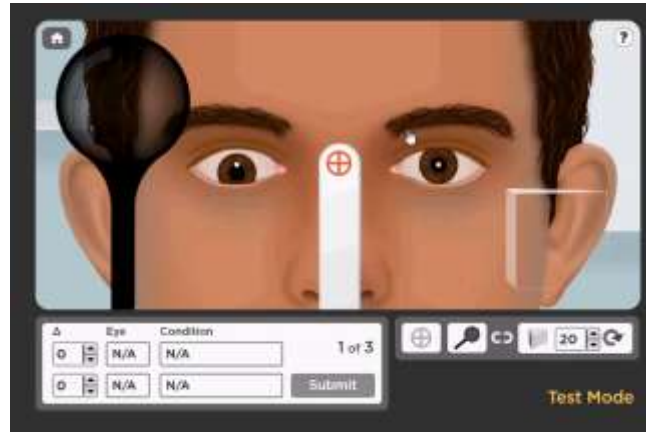


AMERICAN ACADEMY™
OF OPHTHALMOLOGY

Protecting Sight. Empowering Lives.™

44

Interactive – Strabismus Simulator



AMERICAN ACADEMY
OF OPHTHALMOLOGY

Protecting Sight. Empowering Lives.™

45

Google Translate ONE Network — Used 14,000 Times in One Year



AMERICAN ACADEMY
OF OPHTHALMOLOGY

Protecting Sight. Empowering Lives.™

Egypt and the ONE Network

- Ophthalmologists in Egypt have had access since 2009.
- Licenses assigned to 800 ophthalmologists.
- 208 have activated their account.

| | Popular Pages | Popular Videos |
|-------|--|--|
| Egypt | <ul style="list-style-type: none"> • Journals • Laser Surgery Education Center • Guidelines • Pediatric Ophthalmology Education Center | <ul style="list-style-type: none"> • Bag-in-the-Lens Cataract Surgery • Sutureless Scleral IOL Fixation • Pterygium Surgery: The PERFECT Approach |



AMERICAN ACADEMY
OF OPHTHALMOLOGY

Protecting Sight. Empowering Lives.™

47

Activate Your Account

Enhance Your Clinical Education

As a member of the Egyptian Ophthalmological Society, you have free access to the Academy's ophthalmic laser & education (ONE) network, the world's largest collection of ophthalmic knowledge.

- Stay up-to-date with access to 14 leading journals.
- Watch reports on demand with thousands of video lectures and surgery clips.
- Enhance your PDECC® training with virtual cases and courses.

How to gain access to the ONE Network

1. Copy your access key: 2009WVWU37779928A.
2. Go to the entry page.
3. Paste your access key into the blank field.
4. Click Submit.
5. Click "Create an account".
6. Enter your information into the form.
7. Click the "Create Account" button.
8. **IMPORTANT:** Click the ONE Network icon to complete the process and access the ONE Network.

Email assist@aao.org with questions.

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

Questions? Email amay@aao.org



AMERICAN ACADEMY
OF OPHTHALMOLOGY

Protecting Sight. Empowering Lives.™

48



AMERICAN ACADEMY™
OF OPHTHALMOLOGY
Protecting Sight. Empowering Lives.