ACE 2023
The Premier Event in Eyecare Education

San Francisco
IJCAHPO's 51st Annual Continuing Education Program
November 3–5
Ophthalmic Technicians are **IN-DEMAND**

**CERTIFY** Your Eye Care Team...

- Clinic & Individual CE Subscriptions
- New Hire Orientation Training
- Skill-Based/Simulation Training
- In-Person & Virtual CE
- Technician Scholarships & Grants
- Online Job Board

...and more available at [www.jcahpo.org](http://www.jcahpo.org)

**Partner with IJCAHPO**

Certified Technicians stay with their current employer and in the ophthalmic field longer.*

*2020 IJCAHPO Salary & Benefits Study*
Join us Friday, November 3, Through Sunday, November 5, for the PREMIER EVENT IN EYE CARE EDUCATION!

You are invited to join us for the International Joint Commission on Allied Health Personnel in Ophthalmology’s (IJCAHPO) 51st Annual Continuing Education Program. We are celebrating IJCAHPO’s 51st ACE program back in the Bay City! You can join us on-site, virtually or at both programs.

You asked for an expanded program and we heard you! ACE 2023 offers over 120 on-site and 58 on-demand courses, featuring a wide range of ophthalmic topics presented by leading ophthalmology experts who are driving innovation and the future of the profession. The program showcases the Capstone Lecture Series: Innovations in Ophthalmology, didactic sessions in more than 20 ophthalmic categories, thought-provoking Sub-Specialty Sessions, Learning Labs, and networking opportunities for beginner, intermediate, advanced and masters level ophthalmic professionals.

Join us for the Premier Event in Eye Care Education, at this three-day event to reinvigorate your career with colleagues, and learn about the latest in diseases, treatments and technologies!

Program Highlights:

- Harold A. Stein, MD Lecture featuring Dr. Philip J. Rosenfeld, MD, PhD, on A New Era in the Treatment of Dry Age-Related Macular Degeneration.
- New Courses—Over 40 new courses on-site and over 15 new on-demand courses.
- Sub-Specialty Sessions—Immerse yourself in the ophthalmic topics of Cornea, Pathology and Oncology, Practice Management, Retina, or Oculoplastics Sub-Specialty Sessions. Register for the virtual Biometry or Interpretive Ultrasound Sub-Specialty Sessions.
- On-Site Learning Labs—Learn new skills and perfect your technique in hands-on Learning Labs: Eye Anatomy and Dissection, Contact B-Scan Ultrasonography, Retinoscopy and more!
- Certification Exam Prep Sessions—Take the next step in your career and prepare for your certification exam with the COA, COT, COMT or the CDOS and ROUB Exam Prep Sessions.
- Exhibitors—Connect with industry exhibitors who will be showcasing their latest products and services.
- NEW! Open Mic Session—Join your peers in Tech Talks—Open Mic Session.

Thank you to all of our faculty, volunteers and sponsors who make our programs a success and are committed to providing you with the best education and experience.

We look forward to seeing you in San Francisco!

HILTON SAN FRANCISCO UNION SQUARE—333 O’Farrell Street, San Francisco, CA 94102
INVEST IN IJCAHPO CERTIFICATION—IT PAYS OFF!

Certification of my eye care team:
• Increased my ophthalmologists’ productivity
• Enabled us to see more patients per hour
• Improved the efficiency of our patient flow processes
• Built the eye care team’s ability to troubleshoot, detect errors, and handle difficult triage cases
• Assured a high-quality and competent staff

Natalie Loyacano
COMT, ROUB, OCSR, OSA
Practice Administrator
The VitreoRetinal Eye Center

Invest in your employees’ futures by supporting their certification and education.
• Certified Ophthalmic Assistant (COA)
• Certified Ophthalmic Technician (COT)
• Certified Ophthalmic Medical Technologist (COMT)
• Ophthalmic Surgical Assisting (OSA)
• Certified Diagnostic Ophthalmic Sonographer (CDOS)
• Registered Ophthalmic Ultrasound Biometrist (ROUB)

4 OUT OF 5 practices say that certified Allied Ophthalmic Personnel (AOP) make them more productive than non-certified AOP

LEARN MORE
651-731-2944
800-284-3937
jcahpo.org/certification
IJCAHPO’S 51ST ACE PROGRAM
PLANNING COMMITTEE

William Mieler, MD
Chair
2023–2024

- Richard Allen, MD, PhD, FACS
- Brian Forbes, MD, PhD
- Barbara Harris, PA, MBA, COT, OSC
- Christine McDonald, COA, COE, ROUB, OSC
- Michael Stewart, MD

2023 ACE FACULTY AWARDS
IJCAHPO would like to congratulate and thank the following instructors for their dedication and participation.

20 Years
- Debra Benton Clarke, COT, OSC • Michelle Willis, COMT, OSC
- William Ehlers, MD

15 Years
- Richard Allen, MD, PhD, FACS • William Mieler, MD

10 Years
- Dirk-Uwe Bartsch, PhD • Hans Bruhn, MHS
- Christine McDonald, COA, COE, ROUB, OSC

5 Years
- Sarah Whitecross, MMedSci, OC(C), CO
- Adrienne Campos, COA
- Matthew Dyson Gearinger, MD
- Cristos Ifantides, MD, MBA
- Karen McHugh, CRA

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## ON-SITE PROGRAM (NOV 3–5)

### Registration Options

**3-Day** (Includes the Military and Veterans Package)—This package includes 3-day access to on-site lectures. Additional on-demand courses are available to purchase for $10 per credit hour.

**1-Day**—This package includes access to on-site lectures for the day of your choice. Additional on-demand courses are available to purchase for $10 per credit hour.

### Registration Changes

All changes to your initial registration must be made on or before October 9, or on-site in San Francisco, November 3–5.

- You may add or delete on-site course selections of equal value by logging into your account at jcahpo.org/ACE.
- Changes involving financial transactions must be received in writing. Requests can be sent by email to registrations@jcahpo.org or by fax to 651-731-0410.

### Cancellations and Refunds

- Cancellations by attendees must be received in writing. If your registration is cancelled on or before October 9, the amount will be refunded less a cancellation fee of $100.
- If you become certified prior to the program and initially paid the non-certified registration fee, you may request an appropriate refund on or before October 9.
- No refunds will be offered after October 9.
- The cancellation of on-site ACE 2023 by IJCAHPO for any reason will result in the conversion of on-site registrations to virtual registrations with no change in fees and no refunds given.

### Registration Transfers

- Transfers of on-site registrations are permissible on or before October 9, for a transfer fee of $75. However, individual courses will not be transferred. New registrants will be required to select their own courses. All transfer requests must be received in writing to registrations@jcahpo.org.
- No refunds resulting from a transfer will be issued. This includes transfers from non-certified to certified/military/veteran and certified to military/veteran.
- If applicable, additional fees will be due at the time of transfer.

### On-Site Attendee Release and Waiver

- By attending IJCAHPO’s Annual Continuing Education Program, attendees agree to allow their names, likenesses and images (photographic) to be used by IJCAHPO for educational and promotional purposes.

## VIRTUAL PROGRAM (OCT 11–NOV 22)

### Registration

**On-Demand**—This package includes your choice of over 50 courses to take on-demand (with NO QUIZZES) for a base price plus $10 per credit hour.

### Registration Changes

Changes to Virtual Program registrations must be received in writing at the IJCAHPO office on or before November 16 at 12:00 p.m. (CT). Email change requests to registrations@jcahpo.org or fax to 651-731-0410.

### Cancellations and Refunds

- If you become certified prior to the program and initially paid the non-certified registration fee, you may request an appropriate refund on or before October 9.
- No refunds will be issued for Virtual Program cancellations.

### Registration Transfers

- Transfers of virtual registrations are not allowed.
Registration Deadlines
The registration form and payment must be received (not postmarked) on or before the deadline.

October 9
• Cancellations/Refunds Deadline
• On-Site Program Changes Deadline

November 16 (12:00 p.m. CT)
• Virtual Program Registration/Changes Deadline

Register Online, by Fax, or Mail
To reduce the risk of not getting your first choice of courses, be sure to register as soon as possible. Registrations received without payment will not be processed.

Preferred Registration Method: Online Registration
Visit jcahpo.org/ACE and click on REGISTER.

Fax* your registration form, course selections and payment to 651-731-0410.

Mail* your registration form, course selections and payment to:
IJCAHPO/ACE Registration
2025 Woodlane Drive
St. Paul, MN 55125-2998

*Faxed or mailed registrations will be assessed a $75 processing fee.

Registration Confirmations
Registrants will receive an email confirmation at their preferred email address on file within 10 days of registering. If you have not received a confirmation within this time frame, call IJCAHPO at 800-284-3937 or email registrations@jcahpo.org.

Military and Veterans Registration
A special discounted registration fee for the 3-Day On-Site Package is offered for military personnel and veterans from the US and Canada. On-demand courses are an additional fee; no discounts are offered. All other IJCAHPO policies apply.
Registrants must show proof of military status when registering by mail, fax, or on-site. The $75 processing fee will be waived. Online registrations cannot be processed.

NOTE: Falsification or misrepresentation of credentials, employment, personal information and/or military service may result in the loss of CE credits or certification status.

ACE Program Website: jcahpo.org/ACE
The IJCAHPO website offers up-to-date information related to the ACE program, including sold out courses.
Capstone Lectures: Innovations in Ophthalmology

The Capstone Lectures are a collection of short leading-edge topics that will launch the ACE Program on Friday, November 3, from 10:00 a.m.–12:10 p.m. This event will be held on-site in San Francisco. See page 15 for details.

Sub-Specialty Sessions

Sub-Specialty Sessions feature in-depth learning with a panel of experts in a variety of specialties.

Sub-Specialty Sessions Offered On-Site:

- Retina (06SA23)
- Oculoplastics (06SU67)
- Cornea (06SA45)
- Pathology/Oncology (06SA67)

Practice Management (05FR56, Friday, 1:00–3:00 p.m.)

NEW! Practice Management Round Table Discussion (05FR7, Friday, 3:15–3:45 p.m.) *Limited Seats Available

See On-Site Course Descriptions on pages 27–28 for details.

Sub-Specialty Sessions Offered Virtually:

- Biometry (On-Demand, VD223011)
- Interpretive Ultrasound (On-Demand, VD223012)

See On-Demand Course Descriptions on page 43 for details.

On-Site Learning Labs

Learning Labs provide skill-based hands-on training. Gain exposure to equipment and processes while developing problem-solving and critical thinking skills.

The Learning Labs below require online prerequisite courses. These courses will be offered in advance of the on-site program at no extra cost. Courses will be available beginning October 11–November 22. Upon completion of each course and evaluation, you will earn one CE credit. Completing the course requires an 80% or higher passing grade on a short quiz and completion of the course evaluation.

When you register for one of the following Learning Labs, you will be enrolled in the prerequisite course for no additional fee.

<table>
<thead>
<tr>
<th>Learning Labs Offered On-Site</th>
<th>Required Online Prerequisite Courses</th>
</tr>
</thead>
<tbody>
<tr>
<td>Basic Retinoscopy</td>
<td>Refraction: Optics and Instrumentation</td>
</tr>
<tr>
<td>Ultrasound Biometry (A-Scan)</td>
<td>Introduction to Ultrasound Biometry</td>
</tr>
<tr>
<td>Contact B-Scan Ultrasonography</td>
<td>Introduction to Contact B-Scan Ultrasonography</td>
</tr>
</tbody>
</table>

Special Events

- Harold A. Stein, MD Lecture
  Presented by Philip J. Rosenfeld, MD, PhD
  Saturday, November 4
  7:30–8:30 a.m.
  See more information on page 14.

- Ophthalmic Jeopardy (02SA7)
  Saturday, November 4
  3:00–4:00 p.m.
  See more information on page 21.

NEW! Tech Talks: Open Mic Session (05SA2)
Saturday, November 4
8:45–9:45 a.m.
See more information on page 21.

- Practice Management Round Table Discussion (05FR7)
  Friday, November 3
  3:15–4:00 p.m.
  See more information on page 27.

- The Ophthalmic Master Trainer’s Toolkit (06SU5)
  Sunday, November 5
  12:30–1:30 p.m.
  See more information on page 20.
Registration Form

Register online and SAVE the $75 processing fee: jcahpo.org/ACE

Registrations/Cancellations MUST be received on or before the following dates:
- On-Site Program Changes/Cancellations/Refunds: October 9, 2023
- On-Demand Registration/Changes Deadline: November 16, 2023, 12 p.m. CT

In case of emergency, please notify:
Name: .................................................. Telephone Number: ______________________________

Payer’s Name (Please PRINT)

EMPLOYER INFORMATION

Name of Practice

Number of years worked in ophthalmology ________ Number of years with current employer ________

Which category best describes your professional activities? (Check all that apply)
- Administration/Management
- Clinical Research
- Clinical/Diagnostic Testing
- Coding Specialist
- Other ________________________

What race or ethnicity do you identify most with?
- American Indian or Alaska Native
- Asian or Asian American
- Black or African American
- Hispanic or Latino
- Other ________________________

METHOD OF PAYMENT

Registrations received without payment will NOT be processed.

If paying by check or money order, please make payable to IJCAHPO. Checks must be in U.S. dollars (USD).
A $75 NSF fee will be assessed for declined checks and declined credit cards.

Check Preferred Address  □ Home □ Work

Special accommodations: IJCAHPO provides reasonable and appropriate accommodations on-site at the program venue to individuals with documented disabilities who demonstrate a need for special accommodations. Specific special accommodations should be related to functional limitations. Please include additional supporting documentation from the medical professional who diagnosed the condition. It is essential that the documentation of the disability provides a clear explanation of the current functional limitation(s) and a rationale for the requested accommodation. For more information contact IJCAHPO at 800-284-3937.

Please indicate registration selections on reverse side.
- Register online at jcahpo.org/ACE and click on REGISTER
- Send registration form with payment to: IJCAHPO, 2025 Woodlane Drive, St. Paul, MN 55125-2998
- Fax: 651-731-0410

Questions? 800-284-3937. To avoid duplication, do not mail and fax registrations.

IJCAHPO reserves the right to adjust registration charges originally paid with a credit card via fax, mail, or internet if the amount originally paid was deficient or excessive. The credit card account will be charged or credited with a credit card via fax, mail, or internet if the amount originally paid was deficient or excessive. The credit card account will be charged or credited.

Prospect(s) (Check all that apply)
- Cataract/IOL
- Comprehensive Ophthalmology
- Contact Lens
- Cornea/External Disease
- Low Vision
- Neuro-Ophthalmology
- Oculoplastics/Reconstructive Surgery
- Other ________________________

Other Pacific Islander
- Prefer Not to Answer
- Multiracial/Multi-ethnic

Grief or Loss
- Other _________________

IJCAHPO’s 51st Annual Continuing Education Program

November 3–5, 2023   •   Hilton San Francisco Union Square
## ACE 2023 REGISTRATION PACKAGES

### 3-Day On-Site Package
Includes 3-day access to on-site courses (Nov 3–5). Purchase additional on-demand courses for $10 per credit hour. *List courses in the table below.*

<table>
<thead>
<tr>
<th>Certified (COA, COT, COMT, CDOS, ROUB, OSC, CCOA)</th>
<th>Non-Certified</th>
</tr>
</thead>
<tbody>
<tr>
<td>On or Before Nov 2</td>
<td>On-Site</td>
</tr>
<tr>
<td>$275</td>
<td>$400</td>
</tr>
</tbody>
</table>

### Military & Veterans 3-Day On-Site Package
Register by mail or fax only! Includes 3-day access to on-site courses (Nov 3–5). Purchase additional on-demand courses for $10 per credit hour. *List courses in the table below.*

<table>
<thead>
<tr>
<th>Amount</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>$175</td>
<td>$300</td>
</tr>
</tbody>
</table>

### 1-Day On-Site Package
Check one: ☑️ Friday, Nov 3 ☐ Saturday, Nov 4 ☐ Sunday, Nov 5
Purchase additional on-demand courses for $10 per credit hour. *List courses in the table below.*

<table>
<thead>
<tr>
<th>Amount</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>$125</td>
<td>$225</td>
</tr>
</tbody>
</table>

### Additional On-Demand Courses
Additional on-demand courses are $10 per credit hour when purchased with any of the on-site packages above. *List courses in the table below.*

<table>
<thead>
<tr>
<th>Amount</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>$50 base + ___ Credit Hours x $10</td>
<td>$100 base + ___ Credit Hours x $10</td>
</tr>
</tbody>
</table>

### Virtual On-Demand Package
(Oct 11–Nov 22) Over 50 online courses to choose from for a base price plus $10 per credit hour. *List courses in the table below.*

<table>
<thead>
<tr>
<th>Amount</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>$50 base + ___ Credit Hours x $10</td>
<td>$100 base + ___ Credit Hours x $10</td>
</tr>
</tbody>
</table>

*Courses must be selected at the time of registration.

## ADDITIONAL OPTIONS

### On-Site Certification Exam Prep Sessions
ACE registration not required for purchase. *List courses below.*

| $55 COA / $75 COT / $95 COMT |
|---|---|
| $95 CDOS & ROUB | $ |

### On-Site Harold A. Stein, MD Lecture
(ACE Registration Required)

| ☐ Yes! Sign me up. | FREE |

### On-Site Learning Labs
*List courses below.*

| Credit Hours x $40 | $ |
| Credit Hours x $55 | $ |

### AAO Exhibit Hall Pass

| $200 |

### Foundation Donation

| ☐ $1 | ☐ $5 | ☐ Other _________ | $ |

### Processing Fee

| $75 | $75 |

By completing this registration and attending ACE 2023 meetings and events, attendees agree to:
- Allow their names, likenesses and images (photographic) to be used by IJCAHPO for educational and promotional purposes.
- Voluntarily assume all health and safety risks related to exposure to COVID-19 and follow all IJCAHPO and hotel protocols.

*Courses must be selected at time of registration.*
On-Site Program Details

On-Site Registration Options

3-Day (Includes the Military and Veterans Package)—This package includes 3-day access to on-site lectures. Additional on-demand courses are available to purchase for $10 per credit hour.

1-Day—This package includes access to on-site lectures for the day of your choice. Additional on-demand courses are available to purchase for $10 per credit hour.

Program Site

Courses for Allied Ophthalmic Personnel (AOP) will be held at the:

Hilton San Francisco Union Square
333 O’Farrell Street
San Francisco, CA 94102
Phone: 415-771-1400

On-Site Registration Hours

Continental 1+2 (Ballroom Level)

<table>
<thead>
<tr>
<th>Day</th>
<th>November 3</th>
<th>November 4</th>
<th>November 5</th>
</tr>
</thead>
<tbody>
<tr>
<td>Friday</td>
<td>6:30 a.m.–4:00 p.m.</td>
<td>6:30 a.m.–4:00 p.m.</td>
<td>6:30 a.m.–3:30 p.m.</td>
</tr>
<tr>
<td>Saturday</td>
<td>6:30 a.m.–4:00 p.m.</td>
<td>6:30 a.m.–4:00 p.m.</td>
<td>6:30 a.m.–3:30 p.m.</td>
</tr>
<tr>
<td>Sunday</td>
<td>6:30 a.m.–3:30 p.m.</td>
<td>6:30 a.m.–3:30 p.m.</td>
<td>6:30 a.m.–3:30 p.m.</td>
</tr>
</tbody>
</table>

Handouts Online

IJCAHPO does not provide handouts on-site. An email with a link and instructions for downloading and printing handouts will be sent in October. You may view handouts for courses purchased on-site on your device using the IJCAHPO mobile app. Handouts can be printed in the hotel business center; however, be advised that hotels may charge a fee for internet access and printing. Handouts will also be available for one month following the ACE program.

IJCAHPO Bookstore

Continental 3 (Ballroom Level)—IJCAHPO has the most popular products available for order on-site and limited stock available to take home. Visit the Bookstore on-site to view samples of products and place your order. On-site orders (continental US only) will receive FREE shipping. International orders will be charged for shipping. All orders will be shipped following the program. Check your email in October for on-site bookstore specials!

Bookstore Hours

<table>
<thead>
<tr>
<th>Day</th>
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<td>6:30 a.m.–3:30 p.m.</td>
</tr>
<tr>
<td>Sunday</td>
<td>6:30 a.m.–3:30 p.m.</td>
<td>6:30 a.m.–3:30 p.m.</td>
<td>6:30 a.m.–3:30 p.m.</td>
</tr>
</tbody>
</table>

IJCAHPO Certification Booth

East Lounge (Ballroom Level)—The IJCAHPO Certification Booth will be open during Bookstore hours.

IJCAHPO Exhibitors at the Hilton Union Square

IJCAHPO hosts a variety of exhibitors during the ACE Program. Visit the exhibits on Friday and Saturday from 7:30 a.m.–4:00 p.m. in the East Lounge.

AAO Exhibition Hours—Moscone Center

Attendees may purchase an AAO exhibit hall pass at a reduced fee of $200 through IJCAHPO, which allows show floor access November 4–6. Open 9:00 a.m.–5:00 p.m. and 9:00 a.m.–3:30 p.m. on the last day.

Continuing Education (CE) Credit*

CE credits awarded are listed in the On-Site Course Descriptions section starting on page 20. Along with CE credits awarded by IJCAHPO, each course lists CE credits awarded by the California Board of Registered Nursing (CA CABRN), if applicable.

Provider approved by the California Board of Registered Nursing, Provider Number 13516, for 66 contact hours on-site. The On-Site Program has been accredited for 129 IJCAHPO CE credits.

Courses are monitored and attendees arriving late or leaving early from a course are documented. If you miss more than 15 minutes of a course hour, CE credit will be denied for that hour. For half-hour courses, credit will be denied if you miss more than 8 minutes.

* DISCLAIMER: In granting continuing education credit to a course or materials, IJCAHPO does not warrant or express an opinion regarding the content of the continuing education courses or materials, the accuracy of information presented or the skills and qualifications of the course presenters, sponsors or authors.

Cell Phone and Smoking Policies

Set cell phones to “silent” during courses. Phone calls in the classroom are strictly prohibited; you will be asked to leave the room. Smoking is prohibited in the hotel.
On-Site Program Details

The City of San Francisco
Visit www.sftravel.com for local information, restaurants, events, and things to do.

Accommodations
Hotel reservations must be made through the AAO Housing Bureau. Visit www.aao.org/annual-meeting/hotel-reservation for more information.

Parking—The current parking rates at the Hilton Union Square San Francisco are $65+ per night for self-parking and $79+ per night for valet parking.

Transportation
Always check with your hotel regarding complimentary transportation to and from the airport.

Airport Transportation
www.airportshuttles.com/sanfrancisco.php

Ride Share, Lyft, and Uber
www.rideshareconnection.com/passengers-guide-uber-lyft-pickups-drop-offs-sfo

Bay Area Rapid Transport (BART)
BART Provides three to four trains per hour departing from the SFO International Terminal. It is approximately 30 minutes from downtown San Francisco.
For more information visit: www.bart.gov

AAO Shuttle Service
Shuttle bus service is provided for meeting attendees during meeting hours on Saturday, November 4, and Sunday, November 5. All shuttles stop at the Moscone Center where attendees can transfer to the Hilton Union Square route. If you plan to use the AAO shuttle service, allow plenty of time for travel—the shuttle buses stop at several hotels in addition to the transfer at the Moscone Center, located one mile from the Hilton Union Square. Attendees staying downtown might consider walking, taxis or ride-share services to save time. There is very limited service on Friday, November 3.

IJCAHPO Board
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Lynn Anderson, PhD ................................................... CEO

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Susan Busch, BA, COMT .......................................... Director
Neil Choplin, MD .................................................. Director
Welcome to the 51st Annual Continuing Education On-Site Program

NOVEMBER 3–5, 2023

Program Highlights:

Philip J. Rosenfeld, MD, PhD, is the featured keynote speaker to deliver the 21st Annual Harold A. Stein, MD Lecture on *A New Era in the Treatment of Dry Age-Related Macular Degeneration.*

The Capstone Lectures highlight the newest innovations in ophthalmology during this two-hour event.

5 Sub-Specialty Sessions featuring in-depth learning with a panel of experts in a variety of specialties.

Over 120 courses featuring:
- 41 new courses
- 7 masters level courses
- 11 advanced level courses
- 73 intermediate level courses
- 28 basic level courses
- 27 Learning Labs

Certification Exam Prep Sessions
- COA, COT and COMT
- CDOS and ROUB

Additional On-Site Features
Exhibits, Bookstore, and Certification Booth
A NEW ERA IN THE TREATMENT OF DRY AGE-RELATED MACULAR DEGENERATION

The Harold A. Stein, MD Lecture presented by Philip J. Rosenfeld, MD, PhD.

Philip Rosenfeld, MD, PhD, Professor of Ophthalmology, is a leading vitreoretinal specialist and researcher in age-related macular degeneration (AMD) from the Bascom Palmer Eye Institute of the University of Miami Miller School of Medicine. He will present the current thinking regarding complement inhibition for the treatment of geographic atrophy (GA), the late stage of dry AMD and will propose that OCT imaging will be the preferred imaging strategy for the detection and management of wet AMD.

He will emphasize the need to recognize those AMD patients most likely to benefit from new complement inhibitor treatments and how clinics will need to accommodate the significant increase in the number of patients requiring injections every 4–8 weeks. Dr. Rosenfeld will compare drugs in development and already approved for the treatment of nonexudative (dry) age-related macular degeneration (AMD), with an emphasis on how these therapies will impact patients and clinical practices worldwide. These drugs are pegcetacoplan, a novel inhibitor of complement factor 3 (C3), which was approved by the FDA in February 2023, and avacincaptad pegol, an inhibitor of complement factor 5 (C5), which completed its phase 3 trials and is nearing FDA approval.

Dr. Rosenfeld will also discuss the best imaging strategies for following these patients, since both drugs increase the risk of conversion from nonexudative (dry) to exudative (wet) AMD, and he will present the latest OCT angiography imaging studies, with a special emphasis on the characteristic features of dry AMD that indicate the likely progression from drusen to GA, and the progression from dry AMD to wet AMD.

While fundus autofluorescence imaging has usually been used to diagnose GA in both clinical trials and clinical practice, recent retinal expert consensus panels have concluded that OCT is the preferred imaging strategy to detect and monitor GA in AMD. OCT can acquire macular images rapidly without the need to dilate the pupil, which facilitates rapid screening for new wet AMD since patients with dry AMD will receive injections every 4–8 weeks. Therefore, the imaging strategy of choice for diagnosing, following, and managing our patients with dry as well as wet AMD will be OCT imaging.

Important Technician Takeaways: Since these new therapies for dry AMD will not improve vision but will only slow and then hopefully stop disease progression, clinicians and their practices will need to educate patients and manage their expectations while they undergo injections every 4–8 weeks. Dr. Rosenfeld will review the predictive OCT features in eyes with dry AMD that will help identify those at highest risk of disease progression.

With the development of home OCT monitoring, clinicians will have the opportunity to remotely detect new exudation even between visits. However, the greatest advantage of OCT imaging is the availability of OCT angiography, which can identify those patients with wet AMD without the need for fluorescein angiography.

Dr. Rosenfeld has made major contributions to the clinical development of anti-VEGF therapies, the use of optical coherence tomography (OCT) guided treatment using anti-VEGF therapy, the clinical development of OCT instruments, and the development of novel OCT algorithms for the diagnosis and management of macular diseases and for its use as clinical trial endpoints.
Capstone Lectures: Innovations in Ophthalmology

Join us for IJCAHPO’s Capstone Lectures. These fast-paced courses will highlight key ophthalmic issues and new technologies.

The Capstone Lectures will be held Friday, November 3, from 10:00 a.m.–12:10 p.m. in Continental 5.

Course Code: 02FR34 Credits: 2.00 IJCAHPO

Moderator: Michael Stewart, MD

**Advances in the Assessment & Treatment of Optic Neuritis**

Karl Golnik, MD, MEd
Barrow Neuroscience Institute, Phoenix, AZ
10:00–10:20 a.m.

Description: The management of optic neuritis has changed significantly in just the past few years. The lecture will highlight the new testing available and discuss the treatment of various types of optic neuritis including neuromyelitis optica (NMO) and myelin oligodendrocyte glycoprotein (MOG) disease.

**Reshaping Keratoconus: Topography-Guided Ablation Following Collagen Crosslinking**

Alanna Nattis, DO
SightMD, Babylon, NY
Eric Rosenberg, DO, MSE
SightMD, Plainview, NY
10:40–11:10 a.m.

Description: Corneal crosslinking (CXL) has become the standard of care to help stabilize the eyes of those patients with progressive keratoconus. Though this treatment is relatively well tolerated and can provide modest visual improvement in a small percentage of eyes, there is still a need for visual improvement strategies post-CXL. Noninvasive measures to improve vision include prescribing glasses or contact lenses; more invasive means include intracorneal ring segments and photorefractive keratectomy (PRK). PRK post-CXL seems to be most effective when it is topography-guided, as it not only treats refractive error but corneal irregularities as well. Topography-guided PRK can thus smooth the corneal surface, and in essence ‘reshape’ the vision in keratoconus patients post-CXL.

**3D Printing in Eye Care: One Step Closer to Precision Medicine**

Cristos Ifantides, MD, MBA
UC School of Medicine, Denver, CO
10:20–10:40 a.m.

This course will review different technologies that are currently available or up and coming that could provide solutions to some of eye care’s most pressing issues.

**Biosimilars are Here: What This Means for Ophthalmology**

Michael Stewart, MD
Mayo Clinic, Jacksonville, FL
11:10–11:30 a.m.

Description: Biosimilars are “generic” versions of biological medications such as bevacizumab, ranibizumab, and aflibercept that have now entered our armamentarium for the treatment of chorioretinal vascular diseases. This course will discuss the nature of biosimilars, their place in the present intravitreal injection treatment environment, and what we can expect in the future.

**The Future Today—of Eye Surgical Robotics**

Sean Ianchulev, MD, MPH
NYEE of Mount Sinai, New York, NY
11:30–11:50 a.m.

Description: This presentation will feature a review of the state of surgical robotics in ophthalmology—from retina to glaucoma micro-intervention and high precision robotic automation.

**Glaucoma News & Views for the Eye Care Team**

Andrew Iwach, MD
UCSF Health, San Francisco, CA
11:50 a.m.–12:10 p.m.

Description: This presentation will highlight the latest developments in glaucoma management, including medication, laser, and surgical approaches. Utilization trends from recent Medicare data will be reviewed.
### On-Site Day-at-a-Glance

#### Friday, November 3

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### Saturday, November 4

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1 Hour = 1 IJCAHPO CE Credit
## November 3–5, 2023

**On-Site Program**

### Course Levels:
- B=Basic
- I=Intermediate
- A=Advanced
- M=Masters
- p=page number

### New Courses:
- NEW!
- CONT.

### Learning Labs:
- NEW!
- CONT.

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<tr>
<td>01FR4</td>
<td>Visual Field; Mohamed</td>
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<tr>
<td>02FR34</td>
<td>Capstone Lectures; Stewart (cont.)</td>
<td>A—p 15</td>
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<tr>
<td>03FR4</td>
<td>NEW! Pink Eye: What is it?; Legault</td>
<td>I—p 22</td>
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<td>04FR24</td>
<td>COA Certification Exam Prep Session; Bell (cont.)</td>
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<td>05FR5</td>
<td>Corneal Procedures for Today and Tomorrow; Del Monte</td>
<td>I—p 22</td>
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<tr>
<td>06FR5</td>
<td>Modern Approaches to Cataract Surgery Complications; Dang</td>
<td>I—p 25</td>
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<tr>
<td>08FR4W</td>
<td>NEW! Clinical Skills 2 Learning Lab; Blackburn</td>
<td>I—p 29</td>
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<td>09FR5W</td>
<td>Surgical Assisting Learning Lab; Loyocono</td>
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<td>09FR6W</td>
<td>Eye Exam in Spanish: Evaluation of the Non-Bilingual Patient; DeCain</td>
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<td>01SA4</td>
<td>Grand Rounds: Ophthalmic Ultrasound; Lorek</td>
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<td>01SA5</td>
<td>Interesting Cases in Ocular Oncology; Desai</td>
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<td>02SA4</td>
<td>NEW! Electroretinography (ERG) and It’s Role in Inherited Retinal Diseases; Grover</td>
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<td>02SA5</td>
<td>Neuro-Ophthalmic Emergencies Not to Miss; Subramanian</td>
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<td>03SA4</td>
<td>Modifiers Made Easy; Baugh</td>
<td>B—p 20</td>
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<td>03SA5</td>
<td>Premium IOLs: What’s New in 2023; Panday</td>
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<td>04SA7</td>
<td>COMT Certification Exam Prep Session; Simms</td>
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<td>04SA57</td>
<td>CDOS and ROUB Certification Exam Prep Session; Simms</td>
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<td>06SA45</td>
<td>Cornea Sub-Specialty Session; Del Monte</td>
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<td>07SA45W</td>
<td>Cirrus HD-OCT Learning Lab; TBA</td>
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<td>06SA6</td>
<td>NEW! Minimizing Errors in Visual Field Testing to Provide Maximum Results; Choplin</td>
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<td>07SA6</td>
<td>Ophthalmic Jeopardy; Moehlre</td>
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<td>08SA4W</td>
<td>Ultrasound Biometry (A-Scan) Learning Lab; Steffes</td>
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<td>09SA6W</td>
<td>Basic Retinoscopy Learning Lab; Norath</td>
<td>B—p 28</td>
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## On-Site Program

**IJCAHPO's 51st Annual Continuing Education Program**

**Sunday, November 5**

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<th>Room</th>
<th>7:30–8:00 a.m.</th>
<th>8:05–8:35 a.m.</th>
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**Don't Miss**

IJCAHPO's On-Site Bookstore

**LOCATED IN CONTINENTAL 3**

- **COA Quick Study Cards**
- **COMT Study Guide**
- **COT Quick Study Cards**
- **Pocket Guide: The Ophthalmic Assistant**
- **Clinical Reference Manual**

Also available online at [store.jcahpo.org](http://store.jcahpo.org)
### Conference Schedule

#### November 5, 2023

**Course Levels:** □ B=Basic, ■ I=Intermediate, ▤ A=Advanced, □ M=Masters, p=page number

**New Courses:** □

**Learning Labs:** □ here is an additional fee for Learning Labs.

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<th>11:15–11:45 a.m.</th>
<th>11:50 a.m.–12:20 p.m.</th>
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<th>3:00–3:30 p.m.</th>
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<tr>
<td><strong>02SU4A</strong> □ ▤ B—p 23 NEW! <strong>Cornea Case Challenges; Shen</strong></td>
<td><strong>02SU4B</strong> □ ▤ B—p 21 NEW! <strong>Ocular Telehealth Technology; Ma</strong></td>
<td><strong>02SU5</strong> □ ▤ I—p 25 <strong>Echographic Imaging of Malignant Tumors in Pediatric &amp; Adult Patients; Babic</strong></td>
<td><strong>02SU6A</strong> □ ▤ I—p 23 NEW! <strong>Gene Therapy for Inherited Retinal Degenerations; Duncan</strong></td>
<td><strong>02SU6B</strong> □ ▤ I—p 21 NEW! <strong>Obtaining and Verifying Informed Consent; Bruhn</strong></td>
<td><strong>02SU7A</strong> □ ▤ I—p 20 NEW! <strong>Let Me Know, Let Me Grow. The Power of Cross-Training; Brock</strong></td>
<td><strong>02SU7B</strong> □ ▤ ▤ A—p 25 <strong>Ultrasound for the Diabetic Patient; Simms</strong></td>
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<td><strong>03SU4A</strong> □ ▤ ▤ B—p 20 NEW! <strong>To Scribe or Not to Scribe, That is the Question; Willis</strong></td>
<td><strong>03SU4B</strong> □ ▤ ▤ B—p 21 NEW! <strong>Scribing Your Way to Leadership: Get It Done, Get It Right, Get Along; Esau</strong></td>
<td><strong>03SU5A</strong> □ ▤ I—p 22 NEW! <strong>Surgical Preparation of the Eye; Dean</strong></td>
<td><strong>03SU5B</strong> □ ▤ I—p 23 NEW! <strong>Obesity and Oculoplastic Surgery: A Dangerous Combination; Allen</strong></td>
<td><strong>03SU6A</strong> □ ▤ B—p 26 NEW! <strong>ANTERION: Imaging Optimized for the Anterior Segment; McHugh</strong></td>
<td><strong>03SU6B</strong> □ ▤ B—p 21 NEW! <strong>Health Disparities; Rodriguez</strong></td>
<td><strong>03SU7</strong> □ ▤ ▤ NEW! <strong>It’s All Fun and Games; McDonald</strong></td>
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<td><strong>01SU4</strong> □ ▤ I—p 22 <strong>Compliance in the Ophthalmic ASC in 2023; Dean</strong></td>
<td><strong>01SU5</strong> □ ▤ I—p 24 <strong>Biometry and IOL Power Calculations; Whinery</strong></td>
<td><strong>01SU6</strong> □ ▤ I—p 20 <strong>Research Ready? Preparing Your Site for Clinical Trial Participation; Whinery</strong></td>
<td><strong>01SU7</strong> □ ▤ I—p 20 NEW! <strong>2024 Coding Update and the Impact on the Ophthalmic Technician; Woodke</strong></td>
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<td><strong>04SU4</strong> □ ▤ ▤ I—p 20 NEW! <strong>Optimizing Clinical Trials; Saro)</strong></td>
<td><strong>06SU4</strong> □ ▤ I—p 24 <strong>VINDICATES: A Neuro-Ophthalmology Update on Vision Loss; Chen</strong></td>
<td><strong>06SU5</strong> □ ▤ I—p 20 The Ophthalmic Master Trainer’s Toolkit; McDonald**</td>
<td><strong>06SU67</strong> □ ▤ I—p 27 Oculoplastics Sub-Specialty Session; Allen**</td>
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<td><strong>07SU34W</strong> □ ▤ I—p 29 <strong>Fundus Photography Learning Lab; TBA (cont.)</strong></td>
<td><strong>08SU34W</strong> □ ▤ I—p 30 <strong>Multimodal Imaging Made Easy; McHugh (cont.)</strong></td>
<td><strong>09SU34W</strong> □ ▤ ▤ B—p 29 <strong>Ophthalmic Math Learning Lab; Simms (cont.)</strong></td>
<td><strong>09SU5W</strong> □ ▤ B—p 28 <strong>NEW! History Taking Learning Lab; Bell</strong></td>
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The cancellation of on-site ACE 2023 by IJCAHPO for any reason will result in the conversion of on-site registrations to virtual registrations with no change in fees and no refunds given.

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**Certified Technicians—**

**Improving Vision, Improving Lives!**
NEW! Tips and Tricks for Finding Efficiencies in Your Clinic (06SU2)
Carol Olvera, MHA, COT, Thornton, CO
Amanda Fols, COA, Lakewood, CO
Jacqueline Johnson, COA, Denver, CO
Sunday, 8:45–9:45 a.m.
Credits: 1.00 IJCAHPO
Description: This course will review ways both leaders and front-line staff can create efficiencies in clinical workflow. Clinical managers from a retina specialty practice will explain the benefits their clinic has reaped from empowering staff to improve clinical efficiency.

NEW! Optimizing Clinical Trials (04SU4)
Namrata Saroj, OD, New York, NY
Kegley, Eric, COT, CRA, Bellaire, TX
Miller, Bryce, MPA, Austin, TX
Sunday, 11:15 a.m.–12:15 p.m.
Credits: 1.00 IJCAHPO
Description: This course will feature short presentations and panel discussion with clinical trial experts to provide and discuss best practices to run clinical trials effectively. Panelists will include a diverse group of individuals involved in different aspects of the trial execution. Financial interest disclosed.

Research Ready? Preparing Your Site for Clinical Trial Participation (01SU6)
Jacqueline Whinery, OCS, Bakersfield, CA
Keely Puls, COA, Sioux Falls, SD
Sunday, 1:45–2:45 p.m.
Credits: 1.00 IJCAHPO, CEP: CABRN-1
Description: This course will discuss key aspects of clinical research participation in an ophthalmology practice setting. It will provide an overview of regulatory compliance, good clinical practice and the responsibilities of the principal investigator and other study personnel.

NEW! 2024 Coding Update and the Impact on the Ophthalmic Technician (01SU7)
Joy Woodke, COE, OCS, OCR, Eugene, OR
Sunday, 3:00–4:00 p.m.
Credits: 1.00 IJCAHPO
Description: Crucial coding updates will be presented focusing on the ophthalmic technician role. Using relevant case studies, this course will outline the changes and prepare clinicians for the new year, including a review of E/M and eye visit codes. Useful resources and quick reference guides will be explored for appropriate coding guidelines in the clinic.

On-Site Course Descriptions
NEW! Obtaining and Verifying Informed Consent (02SU6B)
Hans Bruhn, MHS, San Francisco, CA
Sunday, 2:20–2:50 p.m.
Credits: 0.50 IJCAHPO
Description: The informed consent process is the documentation of discussions with a patient about proposed care and treatment. It is much more than the consent form being signed by the patient. This course will go over the importance of obtaining and verifying informed consent with patients, and strategies to mitigate liability. Financial interest disclosed.

NEW! Scribing Your Way To Leadership: Get It Done, Get It Right, Get Along (03SU4B)
Sara Esau, COA, CPSS, Bakersfield, CA
Sunday, 11:50 a.m.–12:20 p.m.
Credits: 0.50 IJCAHPO
Description: In this lecture, the presenter will outline the scribe’s role in three parts coinciding with the “Get it done, get it right, get along” ideology. The most efficient scribes function in three roles that often blend together: the patient advocate, the team leader, and the doctor’s “right hand.” This course will outline maintaining balance while ensuring the doctor is as efficient and accurate as possible.

NEW! Triage: What Are the Most Important Questions? (03SU3B)
Michelle Willis, COMT, (F)ATPO, OSC, Columbia, TN
Sunday, 10:35–11:05 a.m.
Credits: 0.50 IJCAHPO
Description: This course will provide an overview of the most important questions to ascertain how emergent, urgent or really just routine the eye issue is and how to schedule the patient in an appropriate manner.

4. General Ophthalmic Knowledge

BASIC

Equipment Repair and Maintenance: How to Save Time and Money (03FR1)
Jeffery Hunter, COT, Kent, OH
Friday, 7:30–8:30 a.m.
Credits: 1.00 IJCAHPO
Description: This course will describe how to take care of and maintain basic ophthalmic equipment.

MEDICAL ETHICS

BASIC

Medical Ethics (01FR3)
Hon-Vu Duong, MD, SFHEA, Henderson, NV
Friday, 10:00–11:00 a.m.
Credits: 1.00 IJCAHPO, CEP: CBRN-1
Description: This course will discuss the definition of medical ethics, scope of ethics in the medical practice, theories and principles of ethics and the professional duties associated with ethics.

NEW! So You Want to Be a Tech: Here’s What You Need to Know (02SU2B)
Sarah Saile, COT, Lutz, FL
Sunday, 9:20–9:50 a.m.
Credits: 0.50 IJCAHPO
Description: This course will provide an overview of the essential knowledge and skills needed to provide the beginning technician with a successful start.

INTERMEDIATE

NEW! It’s All Fun and Games (03SU7)
Christine McDonald, COA, COE, ROUB, OSC, Fenton, MO
Saturday, 3:00–4:00 p.m.
Credits: 1.00 IJCAHPO, CEP: CBRN-1
Description: Learning doesn’t always have to be a challenge or boring. Games help stimulate our minds, boost creativity and help us see things in a new way. In this course, you can test your ophthalmic knowledge by playing a game.

NEW! Health Disparities (03SU6B)
Sean Rodriguez, MD, Coralville, IA
Sunday, 2:20–2:50 p.m.
Credits: 0.50 IJCAHPO
Description: This course will highlight ophthalmic health disparities present in many of our communities. We will discuss common risk factors present in under served populations, common unmet ophthalmic needs and ways for you to get involved and make a positive impact if interested.

NEW! Ocular Telehealth Technology (02SU4B)
April Maa, MD, Decatur, GA
Sunday, 11:50 a.m.–12:20 p.m.
Credits: 0.50 IJCAHPO
Description: This course will cover different types of technology, available and in development, that can be used for telehealth purposes. Examples include in-home monitoring devices and smart phone applications. Research about the accuracy of these apps will also be discussed.

Ophthalmic Jeopardy (02SA7)
Kelly Moehrle, COMT, OSC, Rochester, PA
Crystal Martinez, COMT, OCS, OSC, Albuquerque, NM
Saturday, 3:00–4:00 p.m.
Credits: 1.00 IJCAHPO, CEP: CBRN-1
Description: Attendees will be broken into teams and will compete in a quiz-based game show. Questions will be focused on Certified Ophthalmic Assistant (COA) and Certified Ophthalmic Technician (COT) examination content areas.

NEW! Tech Talks—Open Mic Session (05SA2)
Natalie Loyacano, COMT, OSA, ROUB, OCSR, (F)ATPO, Biloxi, MS
Carla Blackburn, BSc COMT, CDOS, ROUB, Nepean, ON, Canada
Christine McDonald, COA, COE, ROUB, OSC, Fenton, MO
Craig Simms, BSc, COMT, ROUB, CDOS, Kingston, ON, Canada
Michelle Willis, COMT, (F)ATPO, OSC, Columbia, TN
Saturday, 8:45–9:45 a.m.
Credits: 1.00 IJCAHPO
Description: This session will feature a panel discussion with an open mic for audience participation on a wide variety of ophthalmic topics.

NEW! Compassionomics: The Science and Practice of Caring (02SU2A)
Mark Johnson, MD, Ann Arbor, MI
Sunday, 8:45–9:15 a.m.
Credits: 0.50 IJCAHPO
Description: This course will present robust scientific evidence that compassion in healthcare measurably improves patient outcomes, increases the quality and safety of care, reduces costs and prevents provider burnout. It will also discuss ways we can grow our compassion and communicate it to our patients.
NEW! Diving and the Eye (03SU2A)
Michael Stewart, MD, Jacksonville, FL
Sunday, 8:45–9:15 a.m.
Credits: 0.50 IJCAHPO
Description: Artificial environments, such as occurs with skin and scuba diving, subject the eyes and adnexa to unique forces and cause optical alterations. This course will discuss the challenges and risks to visual clarity and ocular health faced by those who dive.

NEW! Evaluation and Management of Tearing Patients (03SA2)
John Nguyen, MD, Morgantown, WV
Bradley Thuro, MD, Morgantown, WV
Saturday, 8:45–9:45 a.m.
Credits: 1.00 UCAHPO, CEP: CABRN-1
Description: This course will review the relevant anatomy and pathogenesis of nasolacrimal duct obstruction. It will also review the evaluation and management of epiphora.

NEW! Pink Eye: What is It? (03FR4)
Gary Legault, MD, San Antonio, TX
Friday, 11:15 a.m.–12:15 p.m.
Credits: 1.00 UCAHPO, CEP: CABRN-1
Description: This course will highlight the common causes of conjunctivitis, key differences to determine the diagnosis, and management for each etiology. Not every “pink eye” is a bacterial infection, but many treat every case with antibiotics. By the end of the course, you will be able to recognize differences in conjunctivitis and educate patients about proper treatment. Financial interest disclosed.

NEW! Presbyopia: Everything Old is New Again! (03SU1B)
William Ehlers, MD, Farmington, CT
Sunday, 8:05–8:35 a.m.
Credits: 0.50 IJCAHPO
Description: For most of us, unless we actually find the fountain of youth, presbyopia is unavoidable. Fortunately, there are many alternatives for dealing with this inevitability. This course will discuss some of the standard methods of correction and some of the newer approaches to achieving clear vision at all distances. This course is intended for beginners and intermediate learners.

NEW! Work Up Pearls for Trainees and Trainers (03SU3A)
Crystal Martinez, COMT, OCS, OSC, Albuquerque, NM
Sunday, 10:00–10:30 a.m.
Credits: 0.50 IJCAHPO
Description: This course will provide tips and recommendations for technicians to improve work ups, both for accuracy and efficiency. It will also offer tips to trainers on how to assist new hires in learning these skills.

You Saw What? A Curious Compendium of Ocular Oddities (01SA7)
William Ehlers, MD, Farmington, CT
Saturday, 3:00–4:00 p.m.
Credits: 1.00 UCAHPO, CEP: CABRN-1
Description: This course will discuss a collection of cases that demonstrate some rare and fascinating ocular maladies. It will feature a mix of history, case presentations and epidemiology that covers unusual diagnoses from around the world, running the gamut from Acanthamoeba Keratitis through Zelwegger Syndrome.

6. General Surgery

INTERMEDIATE

Compliance in the Ophthalmic ASC in 2023 (01SU4)
Elethia Dean, PhD, MBA, RN, BSN, Columbus, OH
Saturday, 11:15 a.m.–12:15 p.m.
Credits: 1.00 IJCAHPO, CEP: CABRN-1
Description: This course will cover content from surveys focused on how to achieve compliance in 2023, including but not limited to instrument sterilization in the ophthalmic ASC, medication administration, infection control and more.

NEW! Reducing Drugs Waste During Surgery (02SA2)
Francis Mah, MD, La Jolla, CA
Saturday, 8:45–9:45 a.m.
Credits: 1.00 IJCAHPO
Description: This course will present the amount of waste of drugs and the concerns of over the carbon footprint of modern eye surgeries in developed countries.

NEW! Surgical Preparation of the Eye (03SU5A)
Elethia Dean, PhD, MBA, RN, BSN, Columbus, OH
Sunday, 12:30–1:00 p.m.
Credits: 0.50 IJCAHPO
Description: In the field of ophthalmology, many things must go right to get optimal outcomes for patients. Frequently the focus is placed on surgeon technique and instrument sterilization, however another very important aspect of surgical technique is missed—the surgical preparation of the eye. This course will cover best practice methods of cleaning and preparing the eye for ophthalmic surgery—reducing bacterial growth and minimizing opportunities for surgical site infections.

7. Cornea

INTERMEDIATE

Corneal Procedures for Today and Tomorrow (01FR5)
Derek DelMonte, MD, Greensboro, NC
Friday, 12:30–1:30 p.m.
Credits: 1.00 UCAHPO, CEP: CABRN-1
Description: This course will update attendees on the latest corneal surgical procedures being performed today. We will discuss transplant techniques including Descemet’s stripping endothelial keratoplasty (DSEK), Descemet’s membrane endothelial keratoplasty (DMEK) and lamellar grafting. We will also discuss new therapies for corneal ectasia including corneal ring segments and collagen cross-linking. Indications for these new procedures, as well as decision-making about who are good candidates and the timing of intervention, will be touched upon. Financial interest disclosed.

NEW! Indication for OSD Testing (01FR1)
Francis Mah, MD, La Jolla, CA
Friday, 7:30–8:30 a.m.
Credits: 1.00 UCAHPO, CEP: CABRN-1
Description: This course will discuss the indication for ocular surface disease (OSD) testing.

Neurotrophic Keratopathy (01SA3)
Joann Kang, MD, Bronx, NY
Saturday, 10:00–11:00 a.m.
Credits: 1.00 IJCAHPO, CEP: CABRN-1
Description: This course will discuss the basic pathophysiology, causes and management of neurotrophic keratopathy. In addition, current challenges, novel treatments and future directions will be discussed.
Ocular Surface Disease: Benefits of New Diagnostic Imaging Techniques (06SU3)
Charles Bouchard, MD, Maywood, IL
Sunday, 10:00–11:00 a.m.
Credits: 1.00 IJCAHPO, CEP: CABRN-1
Description: This course will review the role of current diagnostic imaging techniques in the management of ocular surface disease.

NEW! Cornea Case Challenges (02SU4A)
Joanne Shen, MD, Scottsdale, AZ
Sunday, 11:15–11:45 a.m.
Credits: 0.50 IJCAHPO
Description: This course will review challenging cases in cornea clinic and strategies for management.

8. Glaucoma

INTERMEDIATE
NEW! Minimally Invasive Glaucoma Surgery (MIGS): Pearls for Techs (02SU3A)
Julia Rosdahl, MD, PhD, Durham, NC
Sunday, 10:00–10:30 a.m.
Credits: 0.50 IJCAHPO
Description: This course will cover information that is important for ophthalmic technicians to know about MiGS, including an overview of the procedures, indications and post-op information.

Neovascular Glaucoma (02SA3)
Carla Bourne, MD, Land O Lakes, FL
Saturday, 10:00–11:00 a.m.
Credits: 1.00 IJCAHPO, CEP: CABRN-1
Description: Neovascular glaucoma is a common but challenging condition which causes significant ocular morbidity. It is important to be able to efficiently triage and treat these patients since successful management is time sensitive and requires a multi-discipline approach. Discussions will include underlying etiologies, diagnosis and treatment strategies.

NEW! New Innovative Directions in Glaucoma Detection and Management (01SA2)
James C. Tsai, MD, MBA, FACS, New York, NY
Saturday, 8:45–9:45 a.m.
Credits: 1.00 IJCAHPO, CEP: CABRN-1
Description: This lecture provides a summary of new innovative advances in the detection and management of glaucoma. The participant will gain a greater understanding of potential new technologies to assess visual function, provide sustained release of drugs and control intraocular pressure via less invasive surgical methods.

9. Oculoplastics

INTERMEDIATE
NEW! Obesity and Oculoplastic Surgery: A Dangerous Combination (03SU5B)
Richard Allen, MD, PhD, FACS, Austin, TX
Sunday, 1:05–1:35 p.m.
Credits: 0.50 IJCAHPO
Description: The obesity epidemic in Western countries has countless effects on the delivery of healthcare. The effects are felt not just in general medicine but in ophthalmology and oculoplastic surgery. This course will discuss the different ways in which obesity affects the care of patients with oculoplastic surgery related issues.

ADVANCED
Embracing Change in Oculoplastic Surgery (03SA6)
Richard Allen, MD, PhD, FACS, Austin, TX
Saturday, 1:45–2:45 p.m.
Credits: 1.00 IJCAHPO, CEP: CABRN-1
Description: Numerous advances have occurred over the last fifteen years in oculoplastic surgery. The purpose of this course is to review the surgical and medical advances that have changed the way an oculoplastic surgeon practices medicine. In addition, potential practice changing advances will be reviewed.

10. Retina

INTERMEDIATE
NEW! Gene Therapy for Inherited Retinal Degenerations (02SU6A)
Jacque Duncan, MD, San Francisco, CA
Sunday, 1:45–2:15 p.m.
Credits: 0.50 IJCAHPO
Description: This lecture will provide an introduction to inherited retinal degenerations and an overview of gene therapy to treat them.

NEW! Electoretinography (ERG) and Its Role in Inherited Retinal Diseases (02SA4)
Sandeep Grover, MD, Jacksonville, FL
Saturday, 11:15 a.m.–12:15 p.m.
Credits: 1.00 IJCAHPO
Description: This course will cover a primer on electoretinography (ERG), its technique and interpretation and its role in the diagnosis of inherited retinal diseases.

Intravitreal Injection for the Treatment of Retinal Disease (03SA7)
Adam Wenick, MD, PhD, Baltimore, MD
Saturday, 3:00–4:00 p.m.
Credits: 1.00 IJCAHPO, CEP: CABRN-1
Description: This course will describe the anti-VEGF agents and steroids delivered by intravitreal route that are commonly used to treat retinal disease. The course will give an overview of indications for treatment, commonly used treatment regimens, preparation of the patient prior to treatment intravitreal injection technique, potential complications of treatment and post-procedure care. Financial interest disclosed.

NEW! Pathogenesis and Surgical Management of the Schisis-Like Macular Edemas (02SU1B)
Mark Johnson, MD, Ann Arbor, MI
Sunday, 8:05–8:35 a.m.
Credits: 0.50 IJCAHPO
Description: This lecture will discuss the pathogenesis and surgical management of the major causes of schisis-like macular thickening, including myopic traction maculopathy, optic pit maculopathy and vitreomacular traction.

ADVANCED
Retinal Complications of Cataract Surgery (06SU1)
Michael Stewart, MD, Jacksonville, FL
Sunday, 7:30–8:30 a.m.
Credits: 1.00 IJCAHPO, CEP: CABRN-1
Description: Some of the most vision-threatening complications of cataract surgery involve the retina. Problems such as retinal detachments and endophthalmitis must be addressed urgently, whereas retained lens fragments and cystoid macular edema create chronic visual problems. This course will discuss a variety of problems seen in cataract surgery practices. Financial interest disclosed.
### 11. Refractive and Cataract Surgery

**Biometry and IOL Power Calculations (01SU5)**  
Jacqueline Whinery, OCS, Bakersfield, CA  
Sunday, 12:30–1:30 p.m.  
Credits: 1.00 IJCAHPO, CEP: CABRN-1  
**Description:** This course will discuss the role of biometry in IOL power calculations. Methods of evaluating quality and repeatability of measurements will be covered. Special cases of IOL power calculations, including post-refractive surgery calculations, will be addressed.

**Modern Approaches to Cataract Surgery Complications (02FR5)**  
Sabin Dang, MD, Saint Louis, MO  
Friday, 12:30–1:30 p.m.  
Credits: 1.00 IJCAHPO, CEP: CABRN-1  
**Description:** This course will review what complications can occur with cataract surgery as well as the most updated techniques to manage them. Financial interest disclosed.

**Premium IOLs: What's New in 2023 (03SA5)**  
Vasudha Panday, MD, San Antonio, TX  
Saturday, 12:30–1:30 p.m.  
Credits: 1.00 IJCAHPO, CEP: CABRN-1  
**Description:** This course will update learners on advances in premium intraocular lens (IOL) technology and briefly review IOL calculations for these lenses. The focus will be on the US market and what is new and different in the available technology.

**NEW! Working with Cataract Surgery Patients: What Your Surgeon Wants You to Know (03SA3)**  
Linda Tsai, MD, FACS, Saint Louis, MO  
Saturday, 10:00–11:00 a.m.  
Credits: 1.00 IJCAHPO, CEP: CABRN-1  
**Description:** This course will use clinical scenarios of patients undergoing various cataract surgery procedures (e.g. complex, femtosecond assisted, MIGS, toric IOL, accommodating IOL, multifocal IOL) to review patient workups that will be helpful to the surgeon you are working with.

### 12. Neuro-Ophthalmology

**VINDICATES: A Neuro-Ophthalmology Update on Vision Loss (06SU4)**  
John Chen, MD, PhD, Rochester, MN  
Sunday, 11:15 a.m.–12:15 p.m.  
Credits: 1.00 IJCAHPO, CEP: CABRN-1  
**Description:** The course will use the mnemonic VINDICATES to discuss the differential diagnosis of vision loss.

**NEW! Visual Effects of Headaches (01SU1)**  
Aljoeson Walker, MD, Charleston, SC  
Sunday, 7:30–8:30 a.m.  
Credits: 1.00 IJCAHPO, CEP: CABRN-1  
**Description:** This course will discuss the presentation of daily headache, migraine, migraine with aura, cluster headaches and trigeminal autonomic cephalalgias. Treatment considerations will also be discussed.

### 13. Pediatrics

**NEW! Pediatric Ocular Tumors (02FR2)**  
Carol Shields, MD, Philadelphia, PA  
Friday, 8:45–9:45 a.m.  
Credits: 1.00 IJCAHPO, CEP: CABRN-1  
**Description:** This course will cover the important ocular tumors affecting children. An organized presentation will be given on the recognition and management of tumors of the eyelid, conjunctiva, intraocular structures, and orbit. Retinoblastoma management will be summarized.

**Eye Care for Kids: Managing Children in the Clinic (04SA3)**  
Alexander Christoff, COT, CO, Towson, MD  
Saturday, 10:00–11:00 a.m.  
Credits: 1.00 IJCAHPO, CEP: CABRN-1  
**Description:** In this course, the instructor will share his experience and knowledge obtained in 21 years as a certified orthoptist for effectively managing and interacting with children of all ages during a pediatric eye exam.

**Challenging Cases in Pediatrics (03SU2B)**  
Matthew Gearinger, MD, Rochester, NY  
Sunday, 9:20–9:50 a.m.  
Credits: 0.50 IJCAHPO  
**Description:** This course will be a case-based lecture of challenging cases in pediatric ophthalmology.

### 14. Ocular/Systemic Diseases

**NEW! Infectious Uveitis Syndromes: Resurging and Emerging Infections Not to Miss (03FR6)**  
Steven Yeh, MD, Omaha, NE  
Jessica Shantha, MD, San Francisco, CA  
Friday, 1:45–2:45 p.m.  
Credits: 1.00 IJCAHPO, CEP: CABRN-1  
**Description:** This course will focus on infectious uveitis syndromes and ocular diseases of public health impact. It will include resurging diseases (eg. syphilis, tuberculosis) and emerging infections that can lead to sight-threatening eye disease. Ophthalmic manifestations, lab testing and management approaches will be discussed with didactic and interactive formats.
On-Site Course Descriptions

15. Diagnostic Testing/Imaging

**NEW! The Basics of Visual Electrophysiology (01FR6)**
Leobardo Cortez, COA, CRA, OCT-C, Downey, CA
Friday, 1:45–2:45 p.m.
Credits: 1.00 IJCAHPO, CEP: CABRN-1
Description: This course will discuss what electrophysiology is and how it is performed. The course will provide the opportunity to interpret different results.

**NEW! Echographic Imaging of Malignant Tumors in Pediatric and Adult Patients (02SU5)**
Kelly Babic, COA, CDOS, La Jolla, CA
Sunday, 12:30–1:30 p.m.
Credits: 1.00 IJCAHPO, CEP: CABRN-1
Description: This course will review the basics of scanning laser ophthalmoscopy and optical coherence tomography (OCT). In addition, the course will cover the recent advances in OCT Angiography, high-speed OCT and other developments in retinal imaging. The course will teach users how to identify artifacts and image acquisition problems.

**NEW! Recent Advances in Retinal Imaging (03FR5)**
Dirk-Uwe Bartsch, PhD, Del Mar, CA
Friday, 12:30–1:30 p.m.
Credits: 1.00 IJCAHPO
Description: This course will review the basics of scanning laser ophthalmoscopy and optical coherence tomography (OCT). In addition, the course will cover the recent advances in OCT Angiography, high-speed OCT and other developments in retinal imaging. The course will teach users how to identify artifacts and image acquisition problems.

**NEW! Pearls and Pitfalls of OCT Angiography (02SU1A)**
Srinivas Sadda, MD, FARVO, Los Angeles, CA
Sunday, 7:30–8:00 a.m.
Credits: 1.00 IJCAHPO
Description: This course will discuss the fundamentals of optical coherence tomography (OCT) angiography including the underlying principles, differences in technologies, challenges in acquiring good images, challenges in interpretation and common clinical applications.

**NEW! Ultrasound Evaluation of Extraocular Muscles (03FR2)**
Maria Brezina, CDOS, Katy, TX
Friday, 8:45–9:45 a.m.
Credits: 1.00 IJCAHPO
Description: This course will explore ultrasonic techniques specific to ultrasonic findings in a diabetic patient. A review of examination techniques will be covered, as well as techniques specific to diabetic retinopathy. Specific techniques will include examination of vitreous hemorrhage examination, retinal tear and posterior hyphema.

**NEW! Ultrasound for the Diabetic Patient (02SU7B)**
Craig Simms, BSc, COMT, ROUB, CDOS, Kingston, ON, Canada
Sunday, 3:35–4:05 p.m.
Credits: 0.50 IJCAHPO
Description: This course will explore ultrasonic techniques specific to ultrasonic findings in a diabetic patient. A review of examination techniques will be covered, as well as techniques specific to diabetic retinopathy. Specific techniques will include examination of vitreous hemorrhage examination, retinal tear and posterior hyphema.

**NEW! Understanding Strabismus and Tools to Measure Them (03FR7)**
Xiaosong Zhu, COMT, Wynnewood, PA
Friday, 3:00–4:00 p.m.
Credits: 1.00 IJCAHPO, CEP: CABRN-1
Description: This course will review the anatomy and function of six extraocular muscles, meaning of the binocular functions and types of different deviations. Different tools for measuring strabismus will be presented and discussed. Principles of optics and retinoscopy will also be discussed.

16. Visual Fields

**NEW! Minimizing Errors in Visual Field Testing to Provide Clinically Useful Results (01SA6)**
Neil Choplin, MD, Jamul, CA
Saturday, 1:45–2:45 p.m.
Credits: 1.00 IJCAHPO, CEP: CABRN-1
Description: This course will address the basics of performing and interpreting visual field tests. Examples of common errors will be shown along with a discussion of methods for preventing them. Measures of unreliability will also be discussed with how to recognize they are occurring and how to minimize them.

**Visual Field (01FR4)**
Srinivas Sadda, MD, FARVO, Los Angeles, CA
Friday, 11:15 a.m.–12:15 p.m.
Credits: 1.00 IJCAHPO
Description: This course will explore ultrasonic techniques specific to ultrasonic findings in a diabetic patient. A review of examination techniques will be covered, as well as techniques specific to diabetic retinopathy. Specific techniques will include examination of vitreous hemorrhage examination, retinal tear and posterior hyphema.

The cancellation of on-site ACE 2023 by IJCAHPO for any reason will result in the conversion of on-site registrations to virtual registrations with no change in fees and no refunds given.
17. Instruments and Specialized Tests

**NEW! ANTERION: Imaging Optimized for the Anterior Segment (03SU6A)**
Karen McHugh, CRA, Orlando, FL
Cindy Armstrong, COMT, Rialto, CA
Sunday, 1:45–2:15 p.m.
Credits: 0.50 IJCAHPO
**Description:** This course presented by Heidelberg Engineering, will review the ANTERION and how it utilizes the power of high-resolution swept-source optical coherence tomography (OCT) images to provide the most important anterior segment examination. **Financial interest disclosed.**

**Introduction to Contact B-Scan Ultrasonography (VD171023)**
Credits: 1.00 IJCAHPO
**Prerequisite:** This online prerequisite course is being offered in advance of the on-site program. It will not be offered on-site and is only available to attendees who register for the Contact B-Scan Ultrasonography Learning Labs.
**Description:** This course will introduce the participants to the field of B-scan ultrasound. The course will start with the basics of how and why ultrasound is used in ophthalmology, then shift to the specific techniques used during a B-scan exam. These techniques will include applying the probe to the eye, probe positions and examination techniques.

**Introduction to Ultrasound Biometry (VD171022)**
Credits: 1.00 IJCAHPO
**Prerequisite:** This online prerequisite course is being offered in advance of the on-site program. It will not be offered on-site and is only available to attendees who register for the Ultrasound Biometry (A-Scan) Learning Labs.
**Description:** This course will review A-scan biometry used for IOL calculations. Contact biometry will be discussed, but the emphasis will be on the immersion biometry exam. Examination techniques will be reviewed and illustrated.

**Minus Cylinder Refraction (VD171019)**
Credits: 1.00 IJCAHPO
**Prerequisite:** This online prerequisite course is being offered in advance of the on-site program. It will not be offered on-site and is only available to attendees who register for the Basic Retinoscopy Learning Labs.
**Description:** This course will discuss the theory behind the minus cylinder refraction technique. Techniques to neutralize refractive errors using the minus cylinder technique and identifying with and against motion will be discussed.

**Plus Cylinder Refraction (VD171017)**
Credits: 1.00 IJCAHPO
**Prerequisite:** This online prerequisite course is being offered in advance of the on-site program. It will not be offered on-site and is only available to attendees who register for the Basic Retinoscopy Learning Labs.
**Description:** This course will discuss the theory behind the plus cylinder refraction technique. Techniques to neutralize refractive errors using the plus cylinder technique and identifying with and against motion will be discussed.

**Refraction: Optics and Instrumentation (VD171018)**
Credits: 1.00 IJCAHPO
**Prerequisite:** This online prerequisite course is being offered in advance of the on-site program. It will not be offered on-site and is only available to attendees who register for the Basic Retinoscopy Learning Labs.
**Description:** This course will define different states of refractive errors, describe the optics of refractive errors and explain how they are corrected. Instrumentation for refraction will be discussed including the retinoscope, loose lenses, skiaoscopy racks and the phoropter.

**18. Contact Lenses/Spectacles/Optical Dispensing**

**NEW! Contact Lens Related Complications (03SU1A)**
William Ehlers, MD, Farmington, CT
Sunday, 8:45–9:45 a.m.
Credits: 0.50 IJCAHPO
**Description:** Contact lenses, often worn by teens and young adults, are among the safest medical devices ever created. However, when complications occur, they can be painful and sight-threatening. A few simple guidelines can minimize the risks of contact lens wear. This course is intended for beginners and intermediate learners.

**INTERMEDIATE**

**NEW! What Once Was: Using Manual Instruments in This Day and Age (03FR3)**
Adrienne Campos, COA, Bronx, NY
Friday, 10:00–11:00 a.m.
Credits: 1.00 IJCAHPO, CEP: CABRN-1
**Description:** This course will help attendees build skills with using manual instruments. These skills are important in becoming a well-rounded technician to better assist in the examination process.

**19. Visual Assessment and Therapy**

**BASIC**

**Pertinent Pupillary Problems (01SU2)**
Karl Golnik, MD, MEd, Phoenix, AZ
Sunday, 8:45–9:45 a.m.
Credits: 1.00 IJCAHPO, CEP: CABRN-1
**Description:** This course includes the description of pupil function, reaction to light, causes of small and large pupils, and the definition and demonstration of afferent pupillary defect. The course will define constriction, dilation, hippus, blown pupil and correctopia.

**INTERMEDIATE**

**NEW! When Medical Procedures Are Over, But Patients Still Struggle: How Hadley Helps (02SU3B)**
Kirby Lindgren, Crystal Lake, IL
Sunday, 10:35–11:05 a.m.
Credits: 0.50 IJCAHPO
**Description:** Not that long ago, diseases like macular degeneration, glaucoma or diabetic retinopathy resulted in a patient’s total blindness. Today, with early diagnosis and proper medical care, these conditions are treatable. However, most patients face permanent vision changes that make everyday life challenging. Learn what struggles remain for your patients and how available resources and Hadley’s whole-person approach to rehab will transform their health and happiness. **Financial interest disclosed.**

**“Be one of the first to register and receive a FREE Amazon Echo Dot.”**
On-Site Course Descriptions

21. Masters Courses

NEW! Acute Vision Loss (01FR2)
Hon-Vu Duong, MD, SFHEA, Henderson, NV
Friday, 8:45–9:45 a.m.
Credits: 1.00 IJCAHPO, CEP: CABRN-1
Description: This course will provide attendees with a detailed approach to patient care with acute vision loss.

Clinical Trials Update 2023 (02FR7)
William Mieler, MD, Winnetka, IL
Friday, 3:00–4:00 p.m.
Credits: 1.00 IJCAHPO, CEP: CABRN-1
Description: This course will present the results of new clinical trials in the treatment of age-related macular degeneration (AMD), diabetic macular edema (DME), retinal vein occlusion (RVO) disease and diseases affecting the vitreomacular interface. Complications of treatment will be thoroughly reviewed. The results will be compared to pre-existing treatment modalities and a discussion will ensue regarding how the results of the new trials fit into our current treatment patterns. Financial interest disclosed.

Grand Rounds Case Presentation: Neuro-Ophthalmology (01SU3)
Karl Golnik, MD, Med, Phoenix, AZ
Sunday, 10:00–11:00 a.m.
Credits: 1.00 IJCAHPO, CEP: CABRN-1
Description: This case-based course will discuss a variety of neuro-ophthalmic conditions. The cases will be presented as unknowns and the audience will be encouraged to participate in the ultimate diagnosis.

Grand Rounds: Ophthalmic Ultrasound (01SA4)
Brandy Lorek, BS, CDOS, ROUB, Painesville, OH
Saturday, 11:15 a.m.–12:15 p.m.
Credits: 1.00 IJCAHPO, CEP: CABRN-1
Description: Interactive case studies focusing on ophthalmic ultrasound will be presented in a grand rounds format. Standardized echography and ultrasound biomicroscopy (UBM) will be shown as integral studies to aid in the diagnosis of complex ophthalmic diseases. Clinical findings, as well as other imaging studies including fundus photography, angiography, and optical coherence tomography (OCT) will be correlated with ultrasound findings. Audience participation is highly encouraged.

Interesting Cases in Ocular Oncology (01SA5)
Komal Desai, MD, Leawood, KS
Saturday, 12:30–1:30 p.m.
Credits: 1.00 IJCAHPO, CEP: CABRN-1
Description: This course will discuss interesting cases in ocular oncology, including fluorescein angiography (FA) and B-scan/ultrasound biomicroscopy (UBM) findings. It will include an in-depth discussion of what the technician should be evaluating prior to the patient seeing the ophthalmologist and when to refer the patient. Anterior segment lesions in the iris, ciliary body and posterior segment lesions in the choroid will be addressed. Iris melanomas, vascular malformations, choroidal metastasis, primary uveal melanomas and interesting congenital hypertrophy of the retinal pigment epithelium (CHRPE)-like lesions will be some of the cases discussed.

Mystery Retina 2023: Interactive Discussion of Challenging Cases (02FR6)
William Mieler, MD, Winnetka, IL
Friday, 1:45–2:45 p.m.
Credits: 1.00 IJCAHPO, CEP: CABRN-1
Prerequisite: Knowledge of ophthalmic anatomy and physiology.
Description: This course will discuss a number of diagnostically challenging “mystery retina” cases. The majority of the presentations will include interpretation of fluorescein angiography (FA) and optical coherence tomography (OCT) test results. When indicated, other studies will be shown including indocyanine green (ICG) angiography, echography, autofluorescence, electrophysiologic studies, computed tomography (CT) and/or magnetic resonance imaging (MRI) and occasionally, cytology and histopathology. The cases will be presented as unknowns followed by discussion. Financial interest disclosed.

NEW! Ptosis: Red Flag, Red Herring, or Red Alert (02FR1)
Andrew Lee, MD, Houston, TX
Amina Malik, MD, Houston, TX
Friday, 7:30–8:30 a.m.
Credits: 1.00 IJCAHPO, CEP: CABRN-1
Description: Ptosis can be myogenic, neurogenic or neuromuscular junction in origin. Although some causes of ptosis (e.g. levator dehiscence) are benign, other causes are a red flag for underlying potentially life threatening disease (red flag) and may be emergent (red alert).

22. Sub-Specialty Sessions

Cornea Sub-Specialty Session (06SA45)
Derek DelMonte, MD, Greensboro, NC
Charles Bouchard, MD, Maywood, IL
Joann Kang, MD, Bronx, NY
Matthew Ward, MD, Provo, UT
Michael Wildes, MD, Littletown, CO
Saturday, 11:15 a.m.–1:30 p.m.
Credits: 2.00 IJCAHPO, CEP: CABRN-1
Description: This session will provide updates on a variety of cornea topics. Discussion will include corneal ulcers, corneal imaging, corneal transplants, ocular surface neoplasia and the microbiome in ocular surface disease.

Oculoplastics Sub-Specialty Session (06SU67)
Richard Allen, MD, PhD, FACS, Austin, TX
Wendy Lee, MD, Miami, FL
Pete Setabutr, MD, Chicago, IL
Charles Slonim, MD, Tampa, FL
Sunday, 1:45–4:00 p.m.
Credits: 2.00 IJCAHPO, CEP: CABRN-1
Description: This session will discuss a variety of oculoplastics topics including reconstructive surgery, ptosis, chalazions and hordeoliums.

Pathology and Oncology Sub-Specialty Session (06SA67)
Lauren Dalvin, MD, Rochester, MN
Elaine Binkley, Iowa City, IA
Miguel Materin, MD, Morrisville, NC
Aparna Ramasubramanian, MD, Phoenix, AZ
Saturday, 1:45–4:00 p.m.
Credits: 2.00 IJCAHPO, CEP: CABRN-1
Description: This session will focus on a variety of topics relating to pathology and ocular oncology. Faculty will discuss the management of retinoblastoma, vitreoretinal lymphoma, uveal melanoma and the diagnosis and management of uveal metastases.
NEW! Practice Management Round Table Discussion (05FR7)
Christine McDonald, COA, COE, ROUB, OSC, Fenton, MO
Patti Barkey, Jacksonville, FL
Carrie Jacobs, Burnsville, MN
Heather Modjesky, COE, Lancaster, PA
Carol Olvera, MHA, COT, Thornton, CO
Friday, 3:15–4:00 p.m.
Credits: 0.75 IJCAHPO
Description: This session will allow attendees to discuss a variety of practice management topics within small groups with their peers and members of our panel of practice management experts.

Practice Management Sub-Specialty Session (05FR56)
Christine McDonald, COA, COE, ROUB, OSC, Fenton, MO
Patti Barkey, Jacksonville, FL
Carrie Jacobs, COE, OCS, Burnsville, MN
Heather Modjesky, COE, Lancaster, PA
Carol Olvera, MHA, COT, Thornton, CO
Friday, 1:00–3:00 p.m.
Credits: 2.00 IJCAHPO
Prerequisite: A minimum of two years’ experience in the ophthalmic practice.
Description: The technician’s understanding and leadership are critical in increasing practice productivity and profitability. This session will focus on practice management trends for a high-functioning practice. Topics discussed will include: how to help your technicians succeed, diversity and equity in ophthalmology, essential practices for providing outstanding patient care, and staying safe in the ophthalmology clinic.

Retina Sub-Specialty Session (06SA23)
William Mieler, MD, Winnetka, IL
R.V. Paul Chan, MD, MBA, MSc, Chicago, IL
Srinivas Sadda, MD, FARVO, Los Angeles, CA
Michael Stewart, MD, Jacksonville, FL
Basil Williams, MD, Miami, FL
Charles Wykoff, MD, PhD, Bellaire, TX
Saturday, 8:45–11:00 a.m.
Credits: 2.00 IJCAHPO, CEP: CABRN-1
Prerequisite: A minimum of one-year experience in a retina practice.
Description: This two-hour retina course will provide an update on current concepts and technologies, including new and emerging imaging modalities, clinical trials primarily in the setting of AMD and DME, macular diseases, uveitis, systemic disease processes impacting the retina, pediatric retinal conditions and ocular Oncology.

NEW! Basic Ocular Motility (09SU1W)
Sarah Whiteman, MMedSci, OC(C), CO, Boston, MA
Sunday, 7:30–8:30 a.m.
Credits: 1.00 IJCAHPO, CEP: CABRN-1
Description: This course will focus on the basic principles of oculomotor strabismus. Demonstrations will be followed by hands-on practice with ongoing reviews and feedback. The following principles will be presented:
1. Basic extraocular muscle anatomy & action
2. Basic horizontal (esotropia and exotropia) and vertical (hypertropia and hypotropia) strabismus
3. The difference between a phoria and tropia and how to detect them using appropriate tests (cover-uncover, alternate cover test etc)
4. Using the corneal light reflex to estimate the deviation (Hirschberg) or measure the deviation with prism (Krimsky)
5. How to grade basic oculomotor motility
6. How to properly notate strabismus measurements and motility

Basic Retinoscopy
David Norath, COT, Saint Louis, MO
Refer to Categories-at-a-Glance for course codes and times, p. 33
Credits: 2.00 IJCAHPO
Prerequisite: The online prerequisite, "Refraction: Optics and Instrumentation," is required and is offered in advance of the program. Participants should also complete their choice of "Plus Cylinder Refraction" or "Minus Cylinder Refraction," as a second prerequisite course. Upon registering for this learning lab, you will be registered for the prerequisite courses.
Description: This hands-on session will demonstrate and teach the technique of estimating the refractive error of the human eye using the streak retinoscope, loose lenses, and schematic eyes. Instruction on recording results will be included.

NEW! Clinical Skills Learning Lab 1 (08FR2W)
Carla Blackburn, BSc, COMT, CDOS, ROUB, Nepean, ON, Canada
Friday, 8:45–9:45 a.m.
Credits: 1.00 IJCAHPO, CEP: CABRN-1
Description: This learning lab will provide attendees with an opportunity to practice pupill assessment, color vision testing and Amsler grid testing skills.

Eye Exam in Spanish: Evaluation of the Non-Bilingual Patient (09FR67W)
Maria Gema DeCain, MD, COA, Washington, DC
Friday, 1:45–4:00 p.m.
Credits: 2.00 IJCAHPO, CEP: CABRN-1
Description: This lab will provide an overview of the evaluation of a Spanish-speaking patient. Attendees will learn how to welcome patients, take their history and provide patient instructions for a basic eye exam in Spanish.

NEW! History Taking (09SU5W)
Marlene Bell, COMT, RN, CRNO, OSC, OSA, Cuyahoga Falls, OH
Monday, 12:30–1:30 p.m.
Credits: 1.00 IJCAHPO, CEP: CABRN-1
Description: History taking is a skill that tests both your communication abilities and your knowledge about what to ask. This interactive lab will provide the new technician with the proper steps and questions to ask to obtain a good patient history in assisting the ophthalmologist with making the correct diagnosis. Mastering the skill of taking a detailed history provides essential techniques to put patients at ease and to be the technician that ophthalmologists need for an efficient patient exam.

NEW! Anatomy and Dissection of the Eye
Kathryn Lewis, MD, San Antonio, TX
Taylor Lind, MD, San Antonio, TX
Refer to Categories-at-a-Glance for course codes and times, p. 33
Credits: 1.00 IJCAHPO, CEP: CABRN-1
Description: The instructor will perform a dissection of a pig eyelid and will discuss the anatomy and physiology of the external anatomy, cornea, iris, ciliary body, zonular apparatus, crystalline lens, vitreous body, retina, choroid and sclera. Following the demonstration, participants will have an opportunity to dissect a pig eyelid.

23. Learning Labs

BASIC

Anatomy and Dissection of the Eye
Kathryn Lewis, MD, San Antonio, TX
Taylor Lind, MD, San Antonio, TX
Refer to Categories-at-a-Glance for course codes and times, p. 33
Credits: 1.00 IJCAHPO, CEP: CABRN-1
Description: The instructor will perform a dissection of a pig eyelid and will discuss the anatomy and physiology of the external anatomy, cornea, iris, ciliary body, zonular apparatus, crystalline lens, vitreous body, retina, choroid and sclera. Following the demonstration, participants will have an opportunity to dissect a pig eyelid.
On-Site Course Descriptions

Ophthalmic Math (09SU34W)
Craig Simms, BSc, COMT, ROUB, CDOS, Kingston, ON, Canada
Sunday, 10:00 a.m.–12:15 p.m.
Credits: 2.00 IJCAHPO, CEP: CABRN-1
Description: This lab will focus on learning how to perform basic calculations concerned with optics in ophthalmology. Participants will perform basic math including adding and subtracting positive and negative numbers, adding and subtracting in quarters and dealing with fractions before moving on to perform calculations concerned with the following: diopters and focal lengths, prisms and the conversion of prism diopters to degrees, spherical equivalents, transposition and Prentice’s rule. Worksheets will be provided to practice the calculations, and time within the lab will be set aside for attendees to complete the worksheets with help from the instructor. The lab will finish with the practical application of math in a clinical setting. Such application would include applying spherical equivalent to contact lens fitting or visual field testing, converting radius of curvature to diopters or converting a spectacle prescription to account for vertex distance.

NEW! Scribing (07FR7W)
Marianne Bell, COMT, RN, CRNO, OSC, OSA, Cuyahoga Falls, OH
Friday, 3:00–4:00 p.m.
Credits: 1.00 IJCAHPO
Description: This lab will be an interactive scribing session that will give the attendees the opportunity to practice recording information and improve their critical thinking. The lab will include guidelines for proper documentation, an exercise to identify training needs and suggestions on how to improve performance in the clinic.

Surgical Assisting (08FR56W)
Natalie Loyacano, COMT, OSA, ROUB, OCSR, (F)ATPO, Biloxi, MS
Friday, 12:30–2:45 p.m.
Credits: 2.00 IJCAHPO, CEP: CABRN-1
Description: This lab will include beginning knowledge and hands-on instruction for technicians preparing to enter the ophthalmic surgery operating suite or for those who are thinking about entering the operating room in the coming year. This lab will cover general ophthalmology topics. Topics covered will include basic anatomy, types of ophthalmic surgery, surgery steps and the reason for each step and basic principles of grooming, gloving and sterile technique.

Assisting in Intravitreal Injections (09FR5W)
David Plumley, COA, Mentor, OH
Friday, 12:30–1:30 p.m.
Credits: 1.00 IJCAHPO, CEP: CABRN-1
Description: This lab will introduce the participants to a practical approach to assisting in intravitreal eye injections and demonstrate strategies to reduce the potential of endophthalmitis. Aseptic techniques, lid prep, room preparation, instrument setup and control strategies will be exhibited while keeping the patient safe and comfortable during the procedures. Participants will take part in and be observed in the practice, processes and properties (knowledge, skills and attributes) to enhance the patient experience.

Cirrus HD-OCT
TBA
Refer to Categories-at-a-Glance for course codes and times, p. 33
Credits: 2.00 IJCAHPO, CEP: CABRN-1
Description: This course will discuss clinical applications of Cirrus OCT, review proper operation of the instrument and how to read the most common analysis options. The course will focus on basic and advanced operator techniques and overcoming difficult obstacles. It will also cover troubleshooting techniques, including critiquing of current operator technique. Disclaimer: This is proprietary information presented to allow students to master a specific task or process. Alternatives to this technology may exist and a well-informed technician should have knowledge of those alternatives as well. Financial interest disclosed.

NEW! Clinical Skills Learning Lab 2 (08FR4W)
Carla Blackburn, BSc, COMT, CDOS, ROUB, Nepean, ON, Canada
Friday, 11:15 a.m.–12:15 p.m.
Credits: 1.00 IJCAHPO, CEP: CABRN-1
Description: This lab will provide attendees with an opportunity to practice confrontational visual fields, direct ophthalmoscopy and exophthalmometry.

Contact B-Scan Ultrasonography
Kelly Babic, COA, CDOS, La Jolla, CA
Carla Blackburn, BSc, COMT, CDOS, ROUB, Nepean, ON, Canada
Refer to Categories-at-a-Glance for course codes and times, p. 33
Credits: 2.00 IJCAHPO, CEP: CABRN-1
Description: This lab will provide comprehensive hands-on training in the fundamental skills needed to perform a basic diagnostic B-scan examination of the eye. Terminology and basic principles of examination will be demonstrated at the instrument. Students will have an opportunity to perform diagnostic B-scan evaluations on each other and to learn proper techniques of examination to provide the physician with a detailed echographic picture of the globe.

Fundus Photography
TBA
Refer to Categories-at-a-Glance for course codes and times, p. 33
Credits: 2.00 IJCAHPO, CEP: CABRN-1
Description: A brief lecture, followed by a hands-on lab, will discuss clinical applications of fundus photography. The lab will provide an opportunity for hands-on practice with a Zeiss CLARUS 500 retinal camera, including instruction on proper operation and troubleshooting techniques.
Disclaimer: This is proprietary information presented to allow students to master a specific task or process. Alternatives to this technology may exist and a well-informed technician should have knowledge of those alternatives as well. Financial interest disclosed.

NEW! Intermediate Ocular Motility Learning Lab (09SU2W)
Sarah Whitecross, MMEdSci, OC(C), CO, Boston, MA
Sunday, 8:45–9:45 a.m.
Credits: 1.00 IJCAHPO, CEP: CABRN-1
Prerequisite: Knowledge of basic anatomy of extraocular muscles (EOM); basic knowledge of EOM actions; knowledge of basic strabismus; knowledge of basic strabismus measurements; and/or completion of Basic Ocular Motility Lab
Description: This course will build on skills and knowledge acquired in the Basic course including binocular function, basic sensory testing and more complex ocular motor testing. Demonstrations will be followed by hands-on practice with ongoing reviews and feedback. The following principles will be presented:
1. Basic binocular function (Hering’s and Sherrington’s Laws, Panum’s fusional area and retinal correspondence)
2. Basic sensory testing including Worth 4 Dot and stereopsis
3. Control of strabismus and effect on fusion and stereopsis
4. Grading ocular motility and differentiating ductions, versions and vergence movements
5. How to properly note paralytic sensory and motility tests

November 3–5, 2023 • Hilton San Francisco Union Square 29
On-Site Course Descriptions

Multimodal Imaging Made Easy
Karen McHugh, CRA, Orlando, FL
Refer to Categories-at-a-Glance for course codes and times, p. 33
Credits: 2.00 IJCAHPO, CEP: CABRN-1
Description: This course, presented by Heidelberg Engineering, will review the many imaging modalities on Heidelberg devices. The modalities include optical coherence tomography (OCT), optical coherence tomography angiography (OCTA), autofluorescence, multicolor, fluorescein and indocyanine green (ICG) angiography. The course will round out with wide field and ultra-wide field imaging, high magnification, anterior segment and cornea imaging. Cases will be presented showing the different imaging modalities.
Disclaimer: This is proprietary information presented to allow students to master a specific task or process. Alternatives to this technology may exist and a well-informed technician should have knowledge of those alternatives as well. Financial interest disclosed.

NEW! Navigating Difficult Patient Interactions (07FR2W)
Sarah Saile, COT, Lutz, FL
Friday, 8:45 a.m.—9:45 a.m.
Credits: 1.00 IJCAHPO, CEP: CABRN-1
Description: This lab is aimed to provide tools and techniques to help technicians navigate difficult patient interactions, improve communication with patients and help provide an excellent customer service experience.

Visual Acuity Testing for Preverbal Children (07FR5W)
Xiaosong Zhu, COMT, Wynnewood, PA
Friday, 12:30–1:30 p.m.
Credits: 1.00 IJCAHPO, CEP: CABRN-1
Description: The vision exam can be very challenging in pediatric ophthalmology. We will discuss different tools and equipment used for vision testing in very young children. This lab will include practice with Teller Acuity Cards, HOTV match card and opto-kinetic drum. Tips will be shared to help attendees feel confident testing preverbal children.

NEW! Topical Pharmaceutical Drug Delivery Innovations: The Potential Role for the New Ophthalmic Spray
TBA, EyeNovia
Refer to Categories-at-a-Glance for course codes and times, p. 33
Credits: 1.00 IJCAHPO
Description: A comprehensive overview of pharmaceutical options to induce mydriasis including the recently approved tropicamide+phenylephrine fixed dose combination ophthalmic spray. This lab will discuss issues that exist with the current process of pharmaceutical mydriasis and explore potential improvements in both patient experience and practice flow. Included will be an interactive discussion as well as hands on demonstration of the new spray technology that may be used both in the clinic and surgical center.
Disclaimer: This is proprietary information presented to allow students to master a specific task or process. Alternatives to this technology may exist and a well-informed technician should have knowledge of those alternatives as well. Financial interest disclosed.

Ultrasound Biometry (A-Scan)
Kelly Moehrle, COMT, OSC, Rochester, PA
Rebecca Steffes, COMT, OSC, Fond Du Lac, WI
Refer to Categories-at-a-Glance for course codes and times, p. 33
Credits: 1.00 IJCAHPO
Description: This lab will provide comprehensive hands-on training in the fundamental skills needed to perform an A-scan examination of the eye. A-scan echo pattern recognition and interpretation will be discussed. Participants will understand the concepts of gain, gates and velocities and how they affect axial length measurements. Students will have an opportunity to perform A-scan evaluations on each other and learn how the A-scan instrument ‘thinks’ to better interpret the numbers and echo patterns.
24. Certification Exam Prep Sessions

**BASIC**

Certified Ophthalmic Assistant (COA) Certification Exam Prep Session (04FR24)

Marianne Bell, COMT, RN, CRNO, OSC, OSA, Cuyahoga Falls, OH
Friday, 8:45 a.m.–12:15 p.m.

**Credits:** 0.00 IJCAHPO

**Prerequisite:** Participants should have a basic knowledge of eye anatomy, physiology and comprehension of the COA examination content areas. A minimum of six months work experience in ophthalmology is helpful.

**Description:** This course is designed to prepare the attendee for the IJCAHPO COA multiple-choice certification exam. This prep course will provide a general review of all content areas covered in the COA certification examination.

**Disclaimer:** Course material is based on the instructor’s interpretation of the content areas outlined in the IJCAHPO Criteria for Certification and Recertification Handbook. The instructors of this review course have no direct knowledge of the specific certification exam questions.

**INTERMEDIATE**

Certified Ophthalmic Technician (COT) Certification Exam Prep Session (04SU13)

Marianne Bell, COMT, RN, CRNO, OSC, OSA, Cuyahoga Falls, OH
Sunday, 7:30–11:00 a.m.

**Credits:** 3.00 IJCAHPO

**Prerequisite:** COA certification or proof of enrollment in an accredited COT program and verification from the program director will be required.

**Description:** This course is designed to prepare the attendee by providing a general review of the content areas for the IJCAHPO COT multiple-choice certification exam and the following clinical skills: retinoscopy, refinement, ocular motility, cover and alternate cover testing, keratometry, lensometry, tonometry and visual fields. An introduction to the simulation component will be provided.

**Disclaimer:** Course material is based on the instructor’s interpretation of the content areas outlined in the IJCAHPO Criteria for Certification and Recertification Handbook. The instructors of this review course have no direct knowledge of the specific certification exam questions.

**ADVANCED**

Certified Ophthalmic Medical Technologist (COMT) Certification Exam Prep Session (04SA57)

Craig Simms, BSc, COMT, ROUB, CDOS, Kingston, ON, Canada
Saturday, 12:30–4:00 p.m.

**Credits:** 3.00 IJCAHPO

**Prerequisite:** COT certification or proof of enrollment in an accredited COMT program and verification from the program director will be required.

**Description:** This course is designed to prepare the attendee by providing a general review of the content areas for the IJCAHPO COMT multiple-choice certification exam and the following clinical skills: versions and ductions, pupil evaluation, fundus photography and fluorescein phases, ocular motility and manual lensometry. An introduction to the simulation component will be provided.

**Disclaimer:** Course material is based on the instructor’s interpretation of the content areas outlined in the IJCAHPO Criteria for Certification and Recertification Handbook. The instructors of this review course have no direct knowledge of the specific certification exam questions.

CDOS and ROUB Certification Exam Prep Session (04FR57)

Craig Simms, BSc, COMT, ROUB, CDOS, Kingston, ON, Canada
Friday, 12:30–4:00 p.m.

**Credits:** 3.00 IJCAHPO

**Description:** This session is designed to prepare the attendee by providing a general overview of the content areas for both the IJCAHPO CDOS and ROUB multiple-choice certification exams. It will review content pertinent to both examinations including ultrasound physics followed by discussion of topics specific to each examination.

**Disclaimer:** Course material is based on the instructor’s interpretation of the content areas outlined in the IJCAHPO Criteria for Certification and Recertification Handbook. The instructors of this review course have no direct knowledge of the specific certification exam questions.

Certified Technicians—Helping the world see better, One patient at a time!
## On-Site Categories-at-a-Glance

### 1. Administrative/Practice Management

<table>
<thead>
<tr>
<th>DAY &amp; TIME</th>
<th>CODE</th>
<th>TITLE</th>
<th>PG</th>
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<tbody>
<tr>
<td>BASIC</td>
<td>Sun, 8:45–9:45 a.m.</td>
<td>NEW! Tips and Tricks for Finding Efficiencies in Your Clinic</td>
<td>20</td>
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<tr>
<td>INTERMEDIATE</td>
<td>Sun, 11:15 a.m.–12:15 p.m.</td>
<td>NEW! Optimizing Clinical Trials</td>
<td>20</td>
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<tr>
<td></td>
<td>Sun, 12:30–1:30 p.m.</td>
<td>The Ophthalmic Master Trainer’s Toolkit</td>
<td>20</td>
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<tr>
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<td>Sun, 1:45–2:45 p.m.</td>
<td>Research Ready? Preparing Your Site for Clinical Trial Participation</td>
<td>20</td>
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<tr>
<td></td>
<td>Sun, 3:00–3:30 p.m.</td>
<td>NEW! Let Me Know, Let Me Grow. The Power of Cross-Training</td>
<td>20</td>
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### 2. Chart Documentation/Coding/Scribing/Triage

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<tbody>
<tr>
<td>BASIC</td>
<td>Sat, 11:15 a.m.–12:15 p.m.</td>
<td>NEW! To Scribe or Not to Scribe, That is the Question</td>
<td>20</td>
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<tr>
<td>INTERMEDIATE</td>
<td>Sun, 10:35–11:05 a.m.</td>
<td>NEW! Triage: What Are the Most Important Questions?</td>
<td>21</td>
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<tr>
<td></td>
<td>Sun, 11:50 a.m.–12:20 p.m.</td>
<td>NEW! Scrubbing Your Way To Leadership: Get It Done, Get It Right, Get Along</td>
<td>21</td>
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<td>Sun, 2:20–2:50 p.m.</td>
<td>NEW! Obtaining and Verifying Informed Consent</td>
<td>21</td>
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<tr>
<td></td>
<td>Sun, 3:00–4:00 p.m.</td>
<td>NEW! 2024 Coding Update and the Impact on the Ophthalmic Technician</td>
<td>20</td>
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### 3. New Course: Ocular Jeopardy

- **Sun, 3:00–4:00 p.m.**: NEW! Ocular Jeopardy

### 4. General Ophthalmic Knowledge

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<tr>
<td>BASIC</td>
<td>Fri, 7:30–8:30 a.m.</td>
<td>Equipment Repair and Maintenance: How to Save Time and Money</td>
<td>21</td>
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<td></td>
<td>Fri, 10:00–11:00 a.m.</td>
<td>Medical Ethics</td>
<td>21</td>
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<td>Sat, 9:20–9:50 a.m.</td>
<td>NEW! So You Want to Be a Tech: Here’s What You Need to Know</td>
<td>21</td>
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<tr>
<td>INTERMEDIATE</td>
<td>Sun, 3:00–4:00 p.m.</td>
<td>NEW! It’s All Fun and Games</td>
<td>21</td>
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### 5. Comprehensive Clinical Ophthalmology

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<tr>
<td>BASIC</td>
<td>Sat, 7:30–8:30 a.m.</td>
<td>Harold A. Stein, MD Lecture</td>
<td>14</td>
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<td>Sat, 3:00–4:00 p.m.</td>
<td>O2SA7 Ophthalmic Jeopardy</td>
<td>21</td>
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<td>Sun, 11:50 a.m.–12:20 p.m.</td>
<td>O2SA4B NEW! Ocular Telehealth Technology</td>
<td>21</td>
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<td>Sun, 2:20–2:50 p.m.</td>
<td>O2SA6B NEW! Health Disparities</td>
<td>21</td>
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<td>INTERMEDIATE</td>
<td>Fri, 11:15 a.m.–12:15 p.m.</td>
<td>O3FR4 NEW! Pink Eye: What is it?</td>
<td>22</td>
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<td>Sat, 8:45–9:45 a.m.</td>
<td>O3SA2 NEW! Evaluation and Management of Tearing Patients</td>
<td>22</td>
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<td>Sat, 8:45–9:45 a.m.</td>
<td>O3SA2 NEW! Tech Talks—Open Mic Session</td>
<td>21</td>
</tr>
<tr>
<td></td>
<td>Sat, 3:00–4:00 p.m.</td>
<td>O3SA7 NEW! You Saw What? A Curious Compendium of Ocular Oddities</td>
<td>22</td>
</tr>
<tr>
<td></td>
<td>Sun, 8:05–8:35 a.m.</td>
<td>O3SU1B NEW! Presbyopia: Everything Old is New Again!</td>
<td>22</td>
</tr>
<tr>
<td></td>
<td>Sun, 8:45–9:15 a.m.</td>
<td>O2SA2A NEW! Compassionomics: The Science and Practice of Caring</td>
<td>21</td>
</tr>
<tr>
<td></td>
<td>Sun, 8:45–9:15 a.m.</td>
<td>O2SA2A NEW! Diving and the Eye</td>
<td>22</td>
</tr>
<tr>
<td></td>
<td>Sun, 10:00–10:30 a.m.</td>
<td>O3SU3A NEW! Work Up Pearls for Trainees and Trainers</td>
<td>22</td>
</tr>
<tr>
<td>ADVANCED</td>
<td>Fri, 10:00 a.m.–12:15 p.m.</td>
<td>O2FR34 Capstone Lectures</td>
<td>15</td>
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### 6. General Surgery

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<tr>
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<tbody>
<tr>
<td>INTERMEDIATE</td>
<td>Sat, 8:45–9:45 a.m.</td>
<td>NEW! Reducing Drugs Waste During Surgery</td>
<td>22</td>
</tr>
<tr>
<td></td>
<td>Sun, 11:15 a.m.–12:15 p.m.</td>
<td>Compliance in the Ophthalmic ASC in 2023</td>
<td>22</td>
</tr>
<tr>
<td></td>
<td>Sun, 12:30–1:00 p.m.</td>
<td>O3SU5A NEW! Surgical Preparation of the Eye</td>
<td>22</td>
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### 7. Cornea

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<tr>
<th>DAY &amp; TIME</th>
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<tbody>
<tr>
<td>INTERMEDIATE</td>
<td>Fri, 7:30–8:30 a.m.</td>
<td>NEW! Indication for OVD Testing</td>
<td>22</td>
</tr>
<tr>
<td></td>
<td>Fri, 12:30–1:30 p.m.</td>
<td>O1FR5 Corneal Procedures for Today and Tomorrow</td>
<td>22</td>
</tr>
<tr>
<td></td>
<td>Sat, 10:00–11:00 a.m.</td>
<td>O1SA3 Neurotrophic Keratopathy</td>
<td>22</td>
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<tr>
<td></td>
<td>Sun, 10:00–11:00 a.m.</td>
<td>O6SU3 Ocular Surface Disease: Benefits of New Diagnostic Imaging Techniques</td>
<td>23</td>
</tr>
<tr>
<td>ADVANCED</td>
<td>Sun, 11:15–11:45 a.m.</td>
<td>O2SU4A NEW! Cornea Case Challenges</td>
<td>23</td>
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### 8. Glaucoma

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<thead>
<tr>
<th>DAY &amp; TIME</th>
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<tbody>
<tr>
<td>INTERMEDIATE</td>
<td>Sat, 8:45–9:45 a.m.</td>
<td>NEW! New Innovative Directions in Glaucoma Detection and Management</td>
<td>23</td>
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<tr>
<td></td>
<td>Sun, 10:00–11:00 a.m.</td>
<td>O2SA3 Neovascular Glaucoma</td>
<td>23</td>
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<tr>
<td></td>
<td>Sun, 10:00–10:30 a.m.</td>
<td>O2SU3A NEW! Minimally Invasive Glaucoma Surgery (MIGS): Pearls for Techs</td>
<td>23</td>
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### 9. Oculoplastics

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<th>DAY &amp; TIME</th>
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<tbody>
<tr>
<td>INTERMEDIATE</td>
<td>Sun, 1:05–1:35 p.m.</td>
<td>NEW! Obesity and Oculoplastic Surgery: A Dangerous Combination</td>
<td>23</td>
</tr>
<tr>
<td>ADVANCED</td>
<td>Sat, 1:45–2:45 p.m.</td>
<td>O3SA6 Embracing Change in Oculoplastic Surgery</td>
<td>23</td>
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### 10. Retina

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<tr>
<th>DAY &amp; TIME</th>
<th>CODE</th>
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<tbody>
<tr>
<td>INTERMEDIATE</td>
<td>Sat, 3:00–4:00 p.m.</td>
<td>O3SA7 Intravitreal Injection for the Treatment of Retinal Disease</td>
<td>23</td>
</tr>
<tr>
<td></td>
<td>Sun, 8:05–8:35 a.m.</td>
<td>O2SU1B NEW! Pathogenesis and Surgical Management of the Schisis-Like Macular Edemas</td>
<td>23</td>
</tr>
<tr>
<td></td>
<td>Sun, 1:45–2:15 p.m.</td>
<td>O2SU6A NEW! Gene Therapy for Inherited Retinal Degenerations</td>
<td>23</td>
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<tr>
<td>ADVANCED</td>
<td>Sun, 7:30–8:30 a.m.</td>
<td>O6SU1 Retinal Complications of Cataract Surgery</td>
<td>23</td>
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### 11. Refractive and Cataract Surgery

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<th>DAY &amp; TIME</th>
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<tr>
<td>INTERMEDIATE</td>
<td>Fri, 12:30–1:30 p.m.</td>
<td>O2FR5 Modern Approaches to Cataract Surgery Complications</td>
<td>24</td>
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<tr>
<td></td>
<td>Sat, 10:00–11:00 a.m.</td>
<td>O3SA3 NEW! Working with Cataract Surgery Patients: What Your Surgeon Wants You to Know</td>
<td>24</td>
</tr>
<tr>
<td></td>
<td>Sat, 12:30–1:30 p.m.</td>
<td>O3SA5 Premium IOLs: What’s New in 2023</td>
<td>24</td>
</tr>
<tr>
<td></td>
<td>Sun, 12:30–1:30 p.m.</td>
<td>O1SU5 Biometry and IOL Power Calculations</td>
<td>24</td>
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### 12. Neuro-Ophthalmology

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<th>DAY &amp; TIME</th>
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<tr>
<td>INTERMEDIATE</td>
<td>Sun, 7:30–8:30 a.m.</td>
<td>O1SU1 NEW! Visual Effects of Headaches</td>
<td>24</td>
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<tr>
<td></td>
<td>Sun, 11:15 a.m.–12:15 p.m.</td>
<td>O6SU4 VINDICATES: A Neuro-Ophthalmology Update on Vision Loss</td>
<td>24</td>
</tr>
<tr>
<td>ADVANCED</td>
<td>Sat, 12:30–1:30 p.m.</td>
<td>O2SA5 Neuro-Ophthalmic Emergencies Not to Miss!</td>
<td>24</td>
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### 13. Pediatrics

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<th>DAY &amp; TIME</th>
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<tbody>
<tr>
<td>BASIC</td>
<td>Fri, 8:45–9:45 a.m.</td>
<td>O2FR2 NEW! Pediatric Ocular Tumors</td>
<td>24</td>
</tr>
<tr>
<td>INTERMEDIATE</td>
<td>Sat, 10:00–11:00 a.m.</td>
<td>O4SA3 NEW! Eye Care for Kids: Managing Children in the Clinic</td>
<td>24</td>
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<tr>
<td>ADVANCED</td>
<td>Sun, 9:20–9:50 a.m.</td>
<td>O3SU2B Challenging Cases in Pediatrics</td>
<td>24</td>
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### 14. Ocular/Systemic Diseases

<table>
<thead>
<tr>
<th>DAY &amp; TIME</th>
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<tbody>
<tr>
<td>INTERMEDIATE</td>
<td>Fri, 1:45–2:45 p.m.</td>
<td>O3FR6 NEW! Infectious Uveitis Syndromes: Resurging and Emerging Infections Not to Miss</td>
<td>24</td>
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<tr>
<td>DAY &amp; TIME</td>
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<tr>
<td>15. Diagnostic Testing/Imaging</td>
<td>BASIC</td>
<td>Fri, 1:45–2:45 p.m. 01FR6 NEW! The Basics of Visual Electrophysiology</td>
<td>25</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Fri, 3:00–4:00 p.m. 01FR7 Ultra Wide Field Photography</td>
<td>25</td>
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<tr>
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<td>INTERMEDIATE</td>
<td>Fri, 12:30–1:30 p.m. 03FR5 NEW! Recent Advances in Retinal Imaging</td>
<td>25</td>
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<tr>
<td></td>
<td></td>
<td>Fri, 3:00–4:00 p.m. 03FR7 NEW! Understand Strabismus and Tools to Measure Them</td>
<td>25</td>
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<td>Sat, 1:45–2:45 p.m. 02SA6 R-E-F-R- &amp; C-T Oh What Fun It Can Be</td>
<td>25</td>
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<td>Sun, 12:30–1:30 p.m. 02SU5 Ophthalmic Imaging of Malignant Tumors in Pediatric and Adult Patients</td>
<td>25</td>
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<td>ADVANCED</td>
<td>Fri, 8:45–9:45 a.m. 03SU6 NEW! Ultrasound Evaluation of Extraocular Muscles</td>
<td>25</td>
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<td></td>
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<td>Sun, 7:30–8:00 a.m. 02SU1A NEW! Pearls and Pitfalls of OCT Angiography</td>
<td>25</td>
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<td></td>
<td>Sun, 3:35–4:05 p.m. 02SU7B Ultrasound for the Diabetic Patient</td>
<td>25</td>
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<tr>
<td>16. Visual Fields</td>
<td>INTERMEDIATE</td>
<td>Fri, 11:5 a.m.–12:15 p.m. 01SA3 Visual Field</td>
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<tr>
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<td>Sat, 14:30–1:30 p.m. 01SA6 NEW! Minimizing Errors in Visual Field Testing to Provide Clinically Useful Results</td>
<td>25</td>
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<tr>
<td>17. Instruments and Specialized Tests</td>
<td>BASIC</td>
<td>Sun, 1:45–2:15 p.m. 03SU6A NEW! ANTERION: Imaging Optimized for the Anterior Segment</td>
<td>26</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Oct. 11–Nov. 22 On-Demand Prerequisite courses for on-site Learning Labs are offered online only to those who register for specific Learning Labs. See pages 8 and 26 for more details.</td>
<td>26</td>
</tr>
<tr>
<td></td>
<td>INTERMEDIATE</td>
<td>Fri, 10:00–11:00 a.m. 03FR3 NEW! What Once Was: Using Manual Instruments in This Day and Age</td>
<td>26</td>
</tr>
<tr>
<td>18. Contact Lenses/Spectacles/Optical Dispensing</td>
<td>INTERMEDIATE</td>
<td>Sun, 7:30–8:00 a.m. 03SU1A NEW! Contact Lens Related Complications</td>
<td>26</td>
</tr>
<tr>
<td>19. Visual Assessment and Therapy</td>
<td>BASIC</td>
<td>Sun, 8:45–9:45 a.m. 01SU2 Pertinent Pupillary Problems</td>
<td>26</td>
</tr>
<tr>
<td>20. Low Vision/Treatment</td>
<td>INTERMEDIATE</td>
<td>Sun, 10:35–11:05 a.m. 02SU3B NEW! When Medical Procedures Are Over, But Patients Still Struggle: How Hadley Helps</td>
<td>26</td>
</tr>
<tr>
<td>21. Masters Courses</td>
<td>MASTERS</td>
<td>Fri, 7:30–8:30 a.m. 02FR1 NEW! Photic Red Flag, Red Herring, or Red Alert</td>
<td>27</td>
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<td>Fri, 8:45–9:45 a.m. 01FR2 NEW! Acute Vision Loss</td>
<td>27</td>
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<td>Fri, 1:45–2:45 p.m. 02FR6 Mystery Retina 2023: Interactive Discussion of Challenging Cases</td>
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<td>Fri, 3:00–4:00 p.m. 02FR7 Clinical Trials Update 2023</td>
<td>27</td>
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<td>Sat, 11:45 a.m.–12:15 p.m. 01SA4 Grand Rounds: Ophthalmic Ultrasound</td>
<td>27</td>
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<tr>
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<td>Sat, 12:30–1:30 p.m. 01SA5 Interesting Cases in Ocular Oncology</td>
<td>27</td>
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<tr>
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<td>Sun, 10:00–11:00 a.m. 01SU3 Grand Rounds Case Presentation: Neuro-Ophthalmology</td>
<td>27</td>
</tr>
<tr>
<td>22. Sub-Specialty Sessions</td>
<td>INTERMEDIATE</td>
<td>Fri, 1:00–3:00 p.m. 05FR6 Practice Management Sub-Specialty Session</td>
<td>28</td>
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<tr>
<td></td>
<td></td>
<td>Fri, 3:15–4:00 p.m. 05FR7 Practice Management Round Table Discussion</td>
<td>28</td>
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<td>Sat, 8:45–11:00 a.m. 06SA23 Retina Sub-Specialty Session</td>
<td>28</td>
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<td>Sat, 11:45 a.m.–1:30 p.m. 06SA45 Cornea Sub-Specialty Session</td>
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<td>Sat, 1:45–4:00 p.m. 06SA67 Pathology and Oncology Sub-Specialty Session</td>
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<td></td>
<td>Sun, 1:45–4:00 p.m. 06SU67 Oculoplastics Sub-Specialty Session</td>
<td>27</td>
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<tr>
<td>23. Learning Labs</td>
<td>BASIC</td>
<td>Fri, 7:30–8:30 a.m. 09FR1W Anatomy and Dissection of the Eye Learning Lab</td>
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<td>Fri, 8:45–9:45 a.m. 08FR2W NEW! Clinical Skills Learning Lab 1</td>
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<td>Fri, 8:45–9:45 a.m. 09FR2W Anatomy and Dissection of the Eye Learning Lab</td>
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<td>Fri, 10:00–11:00 a.m. 09FR3W Anatomy and Dissection of the Eye Learning Lab</td>
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<td>Fri, 12:30–2:45 p.m. 08FR56W Surgical Assisting Learning Lab</td>
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<td>Fri, 1:45–4:00 p.m. 09FR67W Eye Examination in Spanish: Evaluation of the Non-Bilingual Patient</td>
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<td>Sat, 3:00–4:00 p.m. 07FR7W Scribing Learning Lab</td>
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<td>Sat, 8:45–11:00 a.m. 09SA23W Basic Retinoscopy Learning Lab</td>
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<td>Sat, 12:30–2:45 p.m. 09SA56W Basic Retinoscopy Learning Lab</td>
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<td>Sun, 7:30–8:30 a.m. 09SU1UW Basic Ocular Motility</td>
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<td>Sun, 10:00 a.m.–12:15 p.m. 09SU34W Ophthalmic Math Learning Lab</td>
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<td>Sun, 12:30–1:30 p.m. 09SU5W NEW! History Taking Learning Lab</td>
<td>28</td>
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<td>INTERMEDIATE</td>
<td>Fri, 8:45–9:45 a.m. 07FR2W NEW! Navigating Difficult Patient Interactions</td>
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<td>Fri, 11:5 a.m.–12:15 p.m. 08FR4W NEW! Clinical Skills Learning Lab 2</td>
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<td>Fri, 12:30–1:30 p.m. 07FR5W Visual Acuity Testing for Preverbal Children</td>
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<td>Fri, 12:30–1:30 p.m. 09FR5W Assisting in Intravitreal Injections Learning Lab</td>
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<td>Sat, 8:45–11:00 a.m. 07SA23W Cirrus HD-OCT Learning Lab</td>
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<td>Sat, 8:45–9:45 a.m. 08SA2W Ultrasound Biometry (A-Scan) Learning Lab</td>
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<td>Sat, 10:00–11:00 a.m. 08SA3W Ultrasound Biometry (A-Scan) Learning Lab</td>
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<td>Sat, 11:15 a.m.–1:30 p.m. 07SA45W Cirrus HD-OCT Learning Lab</td>
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<td>Sat, 11:15 a.m.–12:15 p.m. 08SA4W Ultrasound Biometry (A-Scan) Learning Lab</td>
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<td>Sat, 12:30–1:30 p.m. 08SA55W Contact B-Scan Ultrasonography Learning Lab</td>
<td>29</td>
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<td>Sat, 1:45–2:45 p.m. 07SA6W NEW! Topical Pharmaceutical Drug Delivery Innovations: The Potential Role for the New Ophthalmic Spray</td>
<td>30</td>
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<tr>
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<td></td>
<td>Sat, 10:45–12:15 p.m. 08SA5W Contact B-Scan Ultrasonography Learning Lab</td>
<td>29</td>
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<tr>
<td>24. Certification Exam Prep Sessions</td>
<td>BASIC</td>
<td>Fri, 8:45 a.m.–12:15 p.m. 04FR24 Certified Ophthalmic Assistant (COA) Certification Exam Prep Session</td>
<td>31</td>
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<tr>
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<td>INTERMEDIATE</td>
<td>Sun, 7:30–11:00 a.m. 04SU13 Certified Ophthalmic Technician (COT) Certification Exam Prep Session</td>
<td>31</td>
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<tr>
<td></td>
<td>ADVANCED</td>
<td>Fri, 12:30–4:00 p.m. 04FR57 CDOS and ROUB Certification Exam Prep Session</td>
<td>31</td>
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<tr>
<td></td>
<td></td>
<td>Sat, 12:30–4:00 p.m. 04SU57 Certified Ophthalmic Medical Technologist (COMT) Certification Exam Prep Session</td>
<td>31</td>
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</table>
Certification promotes employment advancement, potential higher pay and recognition.

IJCAHPO certification is voluntary and demonstrates that the individual meets specific criteria for knowledge of allied ophthalmic care and possesses the mastery of a broad range of skills related to the needs of ophthalmic patients. The decision to become IJCAHPO certified exhibits pride in the profession, the desire to be recognized for proficiency of the certification content, and a commitment to ophthalmic patient care.

**OPHTHALMIC SURGICAL PROCESSOR (OSP) CERTIFICATE OF COMPLETION**

Validate your ophthalmic surgical assisting knowledge by completing the OSP Certificate of Completion. **Only $149!**

The OSP Certificate of Completion is an eligibility pathway for non-ophthalmology trained personnel and ophthalmic personnel who are not certified by IJCAHPO in the areas of surgical assisting and ophthalmic scrub/sterilization to apply for the Ophthalmic Surgical Assisting (OSA) sub-specialty certification.

*For more information, visit [EyeCareMarketplace.org](http://EyeCareMarketplace.org)*

Developed by the International Joint Commission on Allied Health Personnel in Ophthalmology (IJCAHPO) and the Outpatient Ophthalmic Surgery Society (OOSS)
Welcome to the 51st Annual Continuing Education Virtual Program

OCT 11–NOV 22

Program Highlights:

Register for must-see courses:
• Over 50 courses
• Low-cost CE for only $10 per credit hour

Skip test anxiety; no quizzes on any on-demand courses!

Learn at your own pace:
• Access courses anytime between October 11–November 22
• View your courses when it fits your schedule
• Earn CE credits from any location

Well-renowned faculty

2 Sub-Specialty Sessions featuring in-depth learning with a panel of experts in a variety of specialties

58 courses featuring:
• 15 new courses
• 1 masters level course
• 9 advanced level courses
• 39 intermediate level courses
• 9 basic level courses
Virtual Registration

On-Demand—This package includes your choice of over 50 courses to take on-demand (with NO QUIZZES) for a base price plus $10 per credit hour.

On-Demand Course Availability
On-demand courses will be available at 8:00 a.m. on Wednesday, October 11, through 11:59 p.m. CT on Wednesday, November 22.

No extensions will be granted.

Instructions for accessing courses will be sent via email to attendees prior to the program.

Handouts
Any on-demand course handouts that have been provided will be accessible from the course platform.

Continuing Education (CE) Credit*

CE credits awarded are listed in the Virtual Course Descriptions section starting on page 38. Along with CE credits awarded by IJCAHPO, each course lists CE credits awarded by the California Board of Registered Nursing (CABRN), if applicable.

Provider approved by the California Board of Registered Nursing, Provider Number 13516, for 42 contact hours virtually.

The Virtual Program has been accredited for 56.25 IJCAHPO CE credits.

Course attendance is monitored within the course platform and attendees who miss more than 15 minutes of a course hour will not receive CE credit for the entire hour.

Important Note: To earn CE credit, attendees must view the entire recording, pass attendance checks and complete the course evaluation.

*Disclaimer: In granting continuing education credit to a course or materials, IJCAHPO does not warrant or express an opinion regarding the content of the continuing education courses or materials, the accuracy of information presented, or the skills and qualifications of the course presenters, sponsors, or authors.

The Benefits of On-Demand Continuing Education

Continuing education is essential for professionals in any field. It helps you stay up-to-date on the latest trends and best practices, and it can also help you advance your career.

In recent years, online continuing education has become increasingly popular. This is because it offers a number of benefits over traditional classroom-based learning.

- **Flexibility**: Online courses can be accessed from anywhere, at any time. This is ideal for professionals with busy schedules or who live in rural areas.
- **Convenience**: Online courses can be completed at your own pace. This means you can learn at a pace that suits you, and you don't have to worry about missing a class.
- **Cost-effectiveness**: Online courses are often more cost-effective than traditional classroom-based learning.
- **Variety of topics**: A wide variety of online continuing education courses are available, so you can find one that meets your specific needs.

If you are attending ACE 2023 on-site, we encourage you to also take advantage of the on-demand courses included with your registration. These courses offer several benefits that increase the value of the on-site program. With the virtual program, you can:

- **Learn at your own pace**: You can watch the on-demand courses whenever you want and pause and rewind as needed.
- **Review the content as often as you need**: The on-demand courses are available to you for as long as you need them, so you can review the content as often as needed.
- **Access the courses from anywhere**: You can access the on-demand courses from any device with an internet connection to learn from anywhere in the world.

We hope you will take advantage of the on-demand courses included with your registration. They are a great way to supplement your on-site learning and continue your professional development long after the program ends.

Certified Technicians—Changing perspectives Through healthy vision!
Are you having trouble finding the time to search for your dream job?

Make sure you don’t miss that perfect opportunity. Set up job alerts!

How it works:

• Receive notifications when new jobs matching your specified criteria are posted.
• Set how often you would like to receive these alerts.
• Focus your time elsewhere and let your next job come to you!

careers.jcahpo.org/job/alerts
On-Demand Course Descriptions

INTERMEDIATE

NEW! Neurotrophic Keratopathy (VD072008)
Joann Kang, MD, Bronx, NY
Credits: 1.00 IJCAHPO, CEP: CABRN-1

INTERMEDIATE

Assessing Ophthalmic Clinical Skills (VD012018)
Craig Simms, BSc, COMT, CDOS, ROUB, Kingston, ON, Canada
Credits: 1.00 IJCAHPO, CEP: CABRN-1
Description: Whether you are responsible for evaluating ophthalmic technicians or you are looking for ways to assess your own skills, this course will discuss principles and practical tools for clinical skill assessment.

Transitioning Into Eye Care Management (VD012019)
Bansari Mehta, MHA, Jeffersonville, IN
Credits: 1.00 IJCAHPO
Description: This course will discuss techniques to maximize your training skills. The focus will be on skills you can use to train new employees and cross-train experienced technicians on new skills. This course will include how to give feedback, demonstrate skills to learners, assess learner skill development, supervise and improve clinic efficiency allowing for more time to train.

INTERMEDIATE

Documentation: Strategies to Mitigate Risk (VD022009)
Hans Bruhn, MHS, San Francisco, CA
Credits: 1.00 IJCAHPO, CEP: CABRN-1
Description: The importance of documentation is underscored in this Ophthalmic Mutual Insurance Company (OMIC) risk management course. Using actual OMIC closed medical malpractice claims, we hope to illustrate where the lack of documentation, or incomplete documentation, negatively impacted the defense of the claim. Recommendations on documentation are also provided to mitigate future liability risk. Financial Interest Disclosed.

NEW! Mitigating the Risks of Endophthalmitis Claims (VD022010)
Hans Bruhn, MHS, San Francisco, CA
Credits: 0.75 IJCAHPO
Description: Case studies will illustrate how failure to diagnose and treat endophthalmitis promptly can have a devastating impact on vision, as well as lead to malpractice claims. Practices can support patient safety and prevent the chance of a malpractice claim by implementing the risk management strategies presented in this course. Financial Interest Disclosed.

INTERMEDIATE

Grand Rounds: History Taking (VD032003)
Kelly Moehrle, COMT, OSC, Rochester, PA
Credits: 1.00 IJCAHPO, CEP: CABRN-1
Description: This course will present various cases that illustrate the importance of taking an accurate and concise history. Attendee participation will be encouraged to explore how the history could have been documented differently and how it would have changed the outcome of the exam.

INTERMEDIATE

Optics for the Rest of Us (VD042009)
Craig Simms, BSc, COMT, CDOS, ROUB, Kingston, ON, Canada
Credits: 1.00 IJCAHPO, CEP: CABRN-1
Description: This lecture will cover practical everyday optics from optical crosses to transposition to spherical equivalent that AOP will have a chance to use on a day-to-day basis.

ADVANCED

Understanding and Identifying Prism (VD043008)
Lisa Lenig, COMT, OSC, Williamsport, PA
Credits: 1.00 IJCAHPO, CEP: CABRN-1
Description: This course will feature an in-depth exploration of the optics of prism within glasses, strabismic deviations, refraction with prism and the process of identifying prism in a lensometer.
On-Demand Course Descriptions

5. Comprehensive Clinical Ophthalmology

Telemedicine 101 for AOP (VD051013)
Janet Hunter, BS, COMT, Brooklyn, NY
Credits: 1.00 IJCAHPO, CEP: CABRN-1
Description: This course will provide an introduction to telemedicine. It will identify types of telehealth and the exam elements conducted via telemedicine.

NEW! Emergencies in the Eye Center (VD052015)
Misha Faustina, MD, FACS, Worcester, MA
Credits: 1.00 IJCAHPO, CEP: CABRN-1
Description: This case-based intermediate level course will review patient interactions for screening and triage of ophthalmic emergencies in the office setting including handling chemical burns, initial assessment of ocular trauma and assisting patients in distress.

Ophthalmic Trauma in the Military (VD052011)
Gary Legault, MD, San Antonio, TX
Credits: 0.75 IJCAHPO
Description: This course will discuss the recognition, management and prevention of ocular trauma within military populations. Topics will include open globe injury, orbital compartment syndrome, orbital fracture, eyelid laceration, hyphema, the ocular trauma score and other findings associated with blunt trauma. The importance of eye protection and proper use of fox shields will be discussed.

Strategies for Allergic Eyelid Dermatitis (VD052012)
Joanne Shen, MD, Scottsdale, AZ
Credits: 0.75 IJCAHPO
Description: Patients can present to the ophthalmologist with allergic eyelid dermatitis. This course will review the questions to ask your patient that can help find the underlying cause and will discuss strategies for treatment.

The Virtual Patient: A Case Series from Teleophthalmology (VD052014)
Xiaoqin Alexa Lu, MD, Atlanta, GA
Credits: 0.75 IJCAHPO
Description: This course will feature a series of interesting cases from Technology-based Eye Care Services (TECS), the largest ocular telehealth program at the VA Healthcare System.

NEW! Advanced Ophthalmic Pharmacology (VD053005)
Vasudha Panday, MD, San Antonio, TX
Credits: 1.00 IJCAHPO, CEP: CABRN-1
Prerequisite: Attendees should have a familiarity with practical experience and an understanding of ophthalmic pharmacology.
Description: This course will take the experienced ophthalmic technician through an up-to-date review of ophthalmic medication classes, uses and potential side effects. Commonly used medications of each class will be described and used to illustrate important properties of groups of medications, which should help the technician in day-to-day clinical practice.

NEW! Ophthalmology Grand Rounds: A Potpourri of Interesting Cases (VD053016)
Eydie Miller-Ellis, MD, Philadelphia, PA
Angela Gupta, MD, PhD, Philadelphia, PA
Taylor Linaburg, MD, Philadelphia, PA
Tejas Pradeep, MD, Philadelphia, PA
Sabytha Sabharwal, MD, Philadelphia, PA
Credits: 1.00 IJCAHPO, CEP: CABRN-1
Description: This course will include the presentation and discussion of four interesting cases from grand rounds at the Scheie Eye Institute, University of Pennsylvania.

6. General Surgery

Scrub-a-Dub-Dub Aseptic Techniques for the Ophthalmic Tech (VD061007)
Jennifer Boush, COT, OSA, Pulaski, WI
Credits: 1.00 IJCAHPO, CEP: CABRN-1
Description: This course will introduce Allied Ophthalmic Personnel (AOP) to aseptic technique, patient surgical prep, ophthalmic instrumentation and supplies for in-office and the operating room.

Infection Investigation (VD062008)
Elethia Dean, PhD, MBA, RN, BSN, Columbus, OH
Credits: 1.00 IJCAHPO, CEP: CABRN-1
Description: Patient outcome is paramount in the field of ophthalmology. No matter how diligent, there are times infection will rear its ugly head. This course will cover root cause analysis and actions necessary in the prevention of infections, especially in the ophthalmic ambulatory surgery center (ASC).

NEW! Quality Improvement in the Ophthalmic ASC (VD063009)
Elethia Dean, PhD, MBA, RN, BSN, Columbus, OH
Credits: 1.00 IJCAHPO, CEP: CABRN-1
Description: A common statement from multiple ophthalmic surgery centers— it is difficult to find a topic or issue to conduct a quality improvement study. This course will conduct a live quality improvement study to improve the quality of care in the ophthalmic ASC.

7. Cornea

Anterior Segment Infections (VD072009)
Bennie Jeng, MD, Philadelphia, PA
Credits: 1.00 IJCAHPO, CEP: CABRN-1
Description: This course will review the range of anterior segment infections from conjunctivitis and keratitis, to infectious iritis. Financial interest disclosed.

What’s New in Dry Eye? (VD072011)
Francis Mah, MD, La Jolla, CA
Credits: 1.00 IJCAHPO, CEP: CABRN-1
Description: This course will encompass management of ocular surface disease (OSD). Topics will include: 1) why OSD matters; 2) developing an OSD algorithm and exam; 3) new and old treatments of dry eye and blepharitis; and 4) new tests to help diagnose and manage dry eye and blepharitis. Financial Interest Disclosed.
## On-Demand Course Descriptions

### ADVANCED

**NEW! Keratoconus: Diagnosis and Management (VD073012)**  
Kevin Tozer, MD, Scottsdale, AZ  
Credits: 1.00 IJCAHPO, CEP: CABRN-1  
Description: This course will cover several aspects of keratoconus. Epidemiology, pathophysiology, diagnosis, medical and surgical treatments will be discussed.

### BASIC

**Current Concepts in Age-Related Macular Degeneration and Diabetic Retinopathy (VD101011)**  
Sunir Garg, MD, FACS, Philadelphia, PA  
Credits: 1.00 IJCAHPO, CEP: CABRN-1  
Description: This course will review the current management of age-related macular degeneration and diabetic eye disease. *Financial interest disclosed.*

**NEW! Approach to the Patient with Double Vision (VD122010)**  
Karl Golnik, MD, MEd, Phoenix, AZ  
Credits: 1.00 IJCAHPO, CEP: CABRN-1  
Description: This course will discuss important historical and physical exam findings in patients with double vision. *Financial interest disclosed.*

### INTERMEDIATE

**Diagnostic and Therapeutic Approaches to Managing Angle-Closure Glaucoma (VD082004)**  
Sarwat Salim, MD, FACS, Brookline, MA  
Credits: 0.75 IJCAHPO  
Description: This course will present several glaucoma cases with an emphasis on risk factors, diagnosis and management. Clinical signs, diagnostic tests and differential diagnosis will be reviewed to arrive at appropriate therapeutic intervention.

**Intumescent and Mature Cataracts (VD112008)**  
Cristos Ifantides, MD, MBA, Denver, CO  
Credits: 1.00 IJCAHPO, CEP: CABRN-1  
Description: This course will explain the principles of A-scan and optical biometry. A correlation between keratometry, refractometry and axial length will be explained as well as tips on accuracy. It will delve into treatment of astigmatism and use of advanced IOL formulas for better outcomes. *Financial interest disclosed.*

**Vitreomacular Interface Problems: Macular Pucker and Beyond (VD103012)**  
Michael Stewart, MD, Jacksonville, FL  
Credits: 1.00 IJCAHPO, CEP: CABRN-1  
Description: This course discusses the vitreomacular interface and its propensity for disease. Conditions such as macular hole, macular pucker and vitreomacular traction will be discussed in detail as well as other conditions, such as diabetic retinopathy, for which the interface may play a role. Numerous case presentations will be included. *Financial interest disclosed.*

### BASIC

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Sunir Garg, MD, FACS, Philadelphia, PA  
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Description: This course will review the current management of age-related macular degeneration and diabetic eye disease. *Financial interest disclosed.*

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### BASIC

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Sunir Garg, MD, FACS, Philadelphia, PA  
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Karl Golnik, MD, MEd, Phoenix, AZ  
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Karl Golnik, MD, MEd, Phoenix, AZ  
Credits: 1.00 IJCAHPO, CEP: CABRN-1  
Description: This course will discuss important historical and physical exam findings in patients with double vision. *Financial interest disclosed.*
13. Pediatrics

**INTERMEDIATE**

**NEW! Children’s Eye Health and Safety: Keeping an Eye on the Patient (VD132012)**
Brian Forbes, MD, PhD, Philadelphia, PA  
Credits: 1.00 IJCAHPO, CEP: CABRN-1  
Description: Vision plays a critical role in a child’s development: physical, cognitive and social. Uncorrected refractive error impairs development, interferes with learning and even lead to permanent vision loss. Early detection and treatment are critical. This course will address important factors that cause vision loss from genetic conditions to trauma.

**NEW! Hot Topics in Pediatrics: Ahmed Valves and IOL Implants in Children (VD132013)**
William Astle, MD, FRCSC, Dipl. ABO, Calgary, AB, Canada  
Credits: 1.00 IJCAHPO, CEP: CABRN-1  
Description: This course includes two presentations on innovative topics in pediatric ophthalmology: Primary Ahmed Valve Implantation: A Surgical Option for Pediatric Glaucoma and IOL Implants for Children Under 1 Year of Age—A Safety Problem? It will explore the best surgical options for children with glaucoma and discuss how intraocular lenses help avoid secondary glaucoma and aid in the visual rehabilitation of children under 1 year of age with cataracts.

14. Ocular/Systemic Diseases

**INTERMEDIATE**

**Current Concepts in Thyroid Eye Disease (VD142010)**
Richard Allen, MD, PhD, FACS, Austin, TX  
Credits: 0.75 IJCAHPO  
Description: Thyroid eye disease is an inflammation of the orbit usually associated with a history of an underlying thyroid abnormality. The course of the disease may be mild, moderate or severe. Ocular complications of the disease include exposure keratopathy, proptosis, strabismus and compressive optic neuropathy. This course will review the work-up of a patient with thyroid eye disease and the current medical and surgical treatments available.

**Patients with Genetic Ocular Disease: Tips for Techs (VD142011)**
Alex Levin, MD, MHSC, Rochester, NY  
Credits: 1.00 IJCAHPO, CEP: CABRN-1  
Description: This course introduces learners to ocular diseases linked to genetics including basic pattern recognition and common procedures for patient work up and history taking. Financial interest disclosed.

**NEW! Understanding Ophthalmic Effects of Chronic Disease (VD142012)**
Michael Stewart, MD, Jacksonville, FL  
Credits: 1.00 IJCAHPO, CEP: CABRN-1  
Description: This course will discuss the relationship between the eye and important chronic diseases. Eyes have often been called the “window” to the rest of the body, a tribute to the many systemic diseases whose ocular findings can lead to accurate diagnoses. This course will review the ocular findings and their frequent association with chronic diseases.

**NEW! Ocular Oncology: Saving Lives and Saving Eyes (VD142013)**
Aparna Ramasubramanian, MD, Phoenix, AZ  
Credits: 1.00 IJCAHPO, CEP: CABRN-1  
Description: This course will discuss common benign and malignant intraocular tumors in children and adults including diagnostic features and treatment options.

15. Diagnostic Testing/Imaging

**BASIC**

**All You Need to Know: Biometry and Ultrasound Physics (VD151018)**
Yu You Jiang, MHCI, COMT, ROUB, Haverford, PA  
Credits: 1.00 IJCAHPO, CEP: CABRN-1  
Description: This course will discuss the basics of ultrasound physics and biometry. Note: The content of this course overlaps with a presentation in the Biometry Sub-Specialty Session.

**Beginner’s B-Scan: A Guide to Basic Screening (VD151020)**
Carmelina Trimboli, COA, CDOS, Etobicoke, ON, Canada  
Credits: 1.00 IJCAHPO, CEP: CABRN-1  
Description: This course will introduce beginners to the basic principles of ultrasound, probe positioning, performing a basic screen and some basic interpretation.

**Color Vision Testing (VD152027)**
Craig Simms, BSc, COMT, CDOS, ROUB, Kingston, ON, Canada  
Credits: 1.00 IJCAHPO, CEP: CABRN-1  
Description: This course will cover color vision and color vision defects before moving on to the different ways to test color vision. A review of pseudoisochromatic plates, the D-15 and the 100 Hue will be covered. A case study of a family with color vision defects will be presented. The different testing methods will be shown in an attempt to determine the type of color vision defect present.

**Electrophysiology for Technicians: What is ERG, VEP and EOG? (VD152026)**
Xiaosong Zhu, COMT, Wynnewood, PA  
Credits: 1.00 IJCAHPO, CEP: CABRN-1  
Description: This course will review the layers of the retina and visual pathway, including an overview of basic electroretinography (ERG), visual evoked potential (VEP) and electrooculogram (EOG) procedures. The course will outline these tests, why they are needed and how they are performed. Practical applications of electrophysiology will be reviewed through several case studies.

**NEW! Exo Eso Express (VD152025)**
Sherry Malone, COT, OSC, Plymouth, MA  
Credits: 1.00 IJCAHPO, CEP: CABRN-1  
Description: This course will describe how to identify eye deviations, prism powers and base directions to correct those deviations utilizing the Hirschberg test and the Krimsky test. It’s easier than you think!

**Fundus Photography: Tips and Pearls (VD152024)**
Sherry Malone, COT, OSC, Plymouth, MA  
Credits: 1.00 IJCAHPO, CEP: CABRN-1  
Description: This course will provide an overview of fundus photography, the equipment used and the steps many people miss, keeping them from experiencing success behind the camera. Topics covered will include directing your patient for successful imaging, focus, exposure and the different parameters doctors expect to be followed for each type of imagery recorded.
On-Demand Course Descriptions

Introduction to Ophthalmic Ultrasound (VD152028)
Craig Simms, BSc, COMT, CDOS, ROUB, Kingston, ON, Canada
Credits: 1.00 UCAHPO, CEP: CABRN-1
Description: This course will cover ophthalmic ultrasound including a brief review of ultrasound physics, ultrasound biometry, B-scan, standardized A-scan and ultrasound biomicroscopy (UBM).

NEW! IOL Calculation (VD152029)
Shymaa Mohamed, COT, CDOS, ROUB, OSC, Grosse Pointe Woods, MI
Credits: 1.00 UCAHPO
Description: This course will review different ways to calculate IOL power, how to avoid calculation errors and how to obtain optimum calculations even with challenging patients.

Refraction for AOP (VD152022)
Craig Simms, BSc, COMT, CDOS, ROUB, Kingston, ON, Canada
Credits: 1.00 UCAHPO
Description: This course will cover plus cylinder retinoscopy and refinement. The optics behind the principles of plus cylinder retinoscopy will be covered followed by graphical examples of the procedures. The course will then move to the refinement part of the process showing methods utilizing the Jackson cross cylinder. The course will conclude with completing the refraction procedure with reading add, balancing techniques and the duo chrome test.

Ultrasound Biomicroscopy (UBM) Imaging in Angle-Closure Glaucoma (VD152019)
M. Bernadete Ayres, MD, CDOS, ROUB, Ann Arbor, MI
Credits: 0.75 UCAHPO
Description: This course will provide a comprehensive review of anterior segment imaging with UBM instruments and practical clinical uses to evaluate patients with angle-closure glaucoma. The course will be based on a practical approach using well-documented cases to help attendees perform and interpret UBM exams. During the course, attendees will review echographic anatomy, UBM examination techniques and the interpretation of features to accurately diagnose the mechanism of angle-closure.

16. Visual Fields

Visual Fields for AOP (VD162003)
Craig Simms, BSc, COMT, CDOS, ROUB, Kingston, ON, Canada
Credits: 1.00 UCAHPO, CEP: CABRN-1
Description: This course will cover how visual fields relate to the visual pathways before moving into the essence of visual field testing including manual Goldmann and automated perimetry. The course will finish with the interpretation of automated visual fields including the Humphrey Field Analyzer and Octopus Visual Field system.

Visual Field Testing in Glaucoma (VD162004)
Neil Choplin, MD, Jamul, CA
Credits: 1.00 UCAHPO, CEP: CABRN-1
Description: This course will discuss principles of visual field testing as applied to glaucoma. The anatomic basis of visual field defects in glaucoma will be illustrated, as well as testing strategies and follow-up for progression.

17. Instruments and Specialized Tests

NEW! Understanding the Slit Lamp (VD172021)
Marianne Bell, COMT, RN, CRNO, OSC, OSA, Cuyahoga Falls, OH
Credits: 0.75 IJCAHPO
Description: This course will provide an overview of the use and operation of the slit lamp biomicroscope. It will include discussion of the various types of illumination.

19. Visual Assessment and Therapy

NEW! Pupils, Fields and Potpourri (VD192002)
Joanne Shen, MD, Scottsdale, AZ
Credits: 0.50 IJCAHPO
Description: In this lecture, examination of pupils and the significance of afferent pupillary defect will be discussed. In addition, automated visual fields will be reviewed with an emphasis on neurologic visual field loss. Lastly, a potpourri of clinical cases will be discussed with diagnosis and management.

20. Low Vision/Treatment

NEW! Low Vision Rehabilitation Overview (VD201003)
Mark Wilkinson, OD, Iowa City, IA
Credits: 0.50 UCAHPO
Description: Low vision rehabilitation involves a continuum of care, which begins with medical and surgical intervention and proceeds through the prescription of low vision devices and vision rehabilitation services. Vision rehabilitation is a treatment modality intended to maximize the use of residual vision and provide the individual with vision loss practical adaptations for their activities of daily living (ADLS) and other visual needs. This course will review who needs low vision rehabilitation services and how these services can help.

21. Masters Courses

NEW! Difficult Ocular Motility Cases (VD214027)
Brian Forbes, MD, PhD, Philadelphia, PA
Credits: 1.00 IJCAHPO, CEP: CABRN-1
Description: Multiple difficult cases of strabismus and other ocular motility disturbances will be presented as unknowns with strategies for management.
On-Demand Course Descriptions

22. Sub-Specialty Sessions

ADVANCED

Biometry Sub-Specialty Session (VD223011)
Carla Blackburn, BSc, COMT, CDOS, ROUB, Nepean, ON, Canada
Yu You Jiang, COMT, MHCI, ROUB, Haverford, PA
Rhonda Waldron, COMT, ROUB, CDOS, CRA, MMSc, Decatur, GA

Credits: 2.00 IJCAHPO, CEP: CABRN-1
Prerequisite: Three years experience performing biometry.
Description: This course will provide attendees with a quick refresher of biometry then immediately move into more advanced topics. This course will cover specialized techniques used by experienced biometrists to improve their outcomes and ultimately improve the care they can give their patients.

Interpretive Ultrasound (VD223012)
Ashley Alexander, COMT, ROUB, CDOS, Kingston, ON, Canada
M. Bernadete Ayres, MD, CDOS, ROUB, Ann Arbor, MI
Kelly Babic, COA, CDOS, La Jolla, CA
Carmelina Trimboli, COA, CDOS, Etobicoke, ON, Canada

Credits: 2.00 IJCAHPO, CEP: CABRN-1
Prerequisite: Three years experience performing ophthalmic ultrasound.
Description: This course will provide the attendees with approaches to advanced ultrasound examinations focusing on techniques to describe ultrasound findings of various conditions using B-scan, ultrasound biomicroscopy (UBM) and standardized A-scan examination techniques.

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THANK YOU!

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Session info on page 31.

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4. Insurance: Dental (55%)
5. Insurance: Life (49%)

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With Coding Sessions at AAO 2023
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Fundamentals of Ophthalmic Coding (23CODE1)
Friday, November 3, 9:00 a.m.–12:00 p.m.
Moscone Center, San Francisco, CA
Room: 207–208, South, Level 2
Level: Beginner–Intermediate
Panelists: Matthew Baugh, MHA, COT, OSC, OCS, OCSR; Heather Dunn, COA, OCS, OCSR; Alex de Castro Abeger, MD

Learn the fundamental building blocks of coding through review of ophthalmic case scenarios. This interactive three-hour course is developed for staff new to ophthalmology, those who have never received formal training, young ophthalmologists, and those who need a refresher on the ever-changing rules of ophthalmic coding. The audience will actively participate in this fun and educational course which will feature:
- Master the Top Rules of Ophthalmic Coding
- Establishing a Foundation: Build and Strengthen Your Ophthalmic Coding Knowledge Base
- Code This Not That: Utilize Trusted Resources to Ensure Proper Coding and Reimbursement
- Routine Maintenance: Protect Your Practice Through Constant Compliance

Digital workbooks only. This course is in-person only.

Pricing Per Coding Session
$250 (by Aug. 16, early registration deadline),
$270 (Aug. 17 to Oct. 4), $300 (starting Oct. 5)

Coding Camp (23CODE2)
Friday, November 3, 1:30–4:30 p.m.
Moscone Center, San Francisco, CA
Room: 207–208, South, Level 2
Level: Intermediate–Advanced*
Moderator: Joy Woodke, COE, OCS, OCSR, Academy Director, Coding & Reimbursement
Panelists: Matthew Baugh, MHA, COT, OSC, OCS, OCSR; Heather Dunn, COA, OCS, OCSR; Ankoor Shah, MD

With a special presentation on the updates for 2024 by Michael X. Repka, MD, MBA, Academy Medical Director, Health Policy
Equip your entire ophthalmic team with the most current coding and reimbursement guidance at Coding Camp 2023, the trusted source for accurate and up-to-date knowledge for more than 20 years. This interactive, three-hour intermediate coding session will provide you with the latest coding updates and empower your practice to navigate variable payer requirements that securely maximize reimbursement. Early registration is recommended as seats sell out quickly. This year’s course will cover:
- Myth-busters 2.0: We will debunk the top coding and reimbursement myths from this past year and provide you with correct guidance.
- Compliance matters: Learn about the current hot topics and how compliance is essential in preparing for audits and avoiding investigations.
- Name that modifier: Review challenging examples to develop proficiency and confidence in applying modifiers.
- Code this Op report: Apply your knowledge of surgical coding to real-world cases and level-up your skills in coding complex surgical procedures.
- Coding competency challenge: Get answers to the most frequently asked coding questions

Digital workbooks only. This course is in-person only.

Visit AAO.ORG/CODINGCAMP to purchase tickets. Note: Registration for AAO 2023 is not required for these courses.

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The American Academy of Ophthalmology designates this live activity for a maximum of 3 AMA PRA Category 1 Credits*. Physicians should claim only the credit commensurate with the extent of their participation in this activity.

AAPC will honor 1 CEUs for any live event offering CME credit or AMA PRA Category Credit. AAPC members get instructions to download a certificate of completion from the workbook, course slides, and mobile meeting guide. Attendees are advised to have their badges scanned at the course in case of an audit.

3.0 IJCAHPO CE credits have been approved for both courses. Attendees must have their badge scanned to get credit.

*Due to limited capacities, coding sessions may sell out. Any remaining tickets will be sold on-site on a first-come basis.
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