### On-Demand Course Descriptions

#### UNDERSTANDING COURSE LISTINGS

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<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Faculty</th>
<th>Credits</th>
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<tr>
<td>VD072008</td>
<td>NEW! Neurotrophic Keratopathy</td>
<td>Joann Kang, MD, Bronx, NY</td>
<td>1.00 IJCAHPO, CEP: CABRN-1</td>
<td>INTERMEDIATE</td>
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<tr>
<td>VD012018</td>
<td>Assessing Ophthalmic Clinical Skills</td>
<td>Craig Simms, BSc, COMT, CDOS, ROUB, Kingston, ON, Canada</td>
<td>1.00 IJCAHPO, CEP: CABRN-1</td>
<td>INTERMEDIATE</td>
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<tr>
<td>VD012019</td>
<td>Transitioning Into Eye Care Management</td>
<td>Bansari Mehta, MHA, Jeffersonville, IN</td>
<td>1.00 IJCAHPO</td>
<td>INTERMEDIATE</td>
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<tr>
<td>VD022009</td>
<td>Documentation: Strategies to Mitigate Risk</td>
<td>Hans Bruhn, MHS, San Francisco, CA</td>
<td>1.00 IJCAHPO, CEP: CABRN-1</td>
<td>INTERMEDIATE</td>
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<tr>
<td>VD022010</td>
<td>NEW! Mitigating the Risks of Endophthalmitis Claims</td>
<td>Hans Bruhn, MHS, San Francisco, CA</td>
<td>0.75 IJCAHPO</td>
<td>INTERMEDIATE</td>
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<tr>
<td>VD032003</td>
<td>Grand Rounds: History Taking</td>
<td>Kelly Moehrle, COMT, OSC, Rochester, PA</td>
<td>1.00 IJCAHPO, CEP: CABRN-1</td>
<td>INTERMEDIATE</td>
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<tr>
<td>VD041007</td>
<td>Medical Ethics</td>
<td>Hon-Vu Duong, MD, SFHEA, Henderson, NV</td>
<td>1.00 IJCAHPO, CEP: CABRN-1</td>
<td>BASIC</td>
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<tr>
<td>VD041010</td>
<td>NEW! Healthy Vision: Equipping and Empowering Technicians</td>
<td>Mark Wilkinson, OD, Iowa City, IA</td>
<td>1.00 IJCAHPO, CEP: CABRN-1</td>
<td>INTERMEDIATE</td>
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<tr>
<td>VD042009</td>
<td>Optics for the Rest of Us</td>
<td>Craig Simms, BSc, COMT, CDOS, ROUB, Kingston, ON, Canada</td>
<td>1.00 IJCAHPO, CEP: CABRN-1</td>
<td>INTERMEDIATE</td>
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<tr>
<td>VD043008</td>
<td>Understanding and Identifying Prism</td>
<td>Lisa Lenig, COMT, OSC, Williamsport, PA</td>
<td>1.00 IJCAHPO, CEP: CABRN-1</td>
<td>ADVANCED</td>
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</table>

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#### FINANCIAL INTEREST:
An instructor’s financial interest is disclosed at the beginning of their presentation.

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**NEW! Neurotrophic Keratopathy (VD072008)**

Joann Kang, MD, Bronx, NY

**Assessing Ophthalmic Clinical Skills (VD012018)**

Craig Simms, BSc, COMT, CDOS, ROUB, Kingston, ON, Canada

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Lisa Lenig, COMT, OSC, Williamsport, PA
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 traumas 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: 1.00 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)
Xiaqin 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.

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
Tejus Pradeep, MD, Philadelphia, PA
Sabyhta 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, Pulaaski, 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

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.

My Eye! Ocular Trauma From an Anterior Segment Perspective (VD073010)
Aaleya Koreishi, MD, Fort Worth, TX
Credits: 0.75 IJCAHPO
Description: This course will discuss the epidemiology and etiology of ocular trauma. With this general background, we will delve into the focused history, presentation and initial management when suspecting ocular injury from trauma. Ocular trauma can involve every aspect of the eye and orbit but we will focus on the anterior segment. Presentation and management strategies will be covered for the following anterior segment sites: conjunctiva, cornea, iris, anterior chamber and lens. Further discussion will address chemical and thermal injuries and their acute and chronic management strategies. Lastly, we will review the risks and prognosis of eyes sustaining ocular trauma.

8. Glaucoma
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.

9. Oculoplastics
Evaluation and Treatment of Eyelid Malignancies (VD092006)
Richard Allen, MD, PhD, FACS, Austin, TX
Credits: 0.75 IJCAHPO
Description: This course will review common eyelid malignancies, including their presentation, clinical characteristics and treatment. In addition, reconstructive strategies after resection of the eyelid malignancies will also be reviewed.

Eyelid and Orbital Trauma (VD092007)
Richard Allen, MD, PhD, FACS, Austin, TX
Credits: 0.75 IJCAHPO
Description: The evaluation of eyelid and orbital trauma is common in the comprehensive ophthalmologist’s and oculoplastic surgeon’s practice. It is imperative that an appropriate triage and intake is performed for these patients. This course will review the evaluation and treatment of patients with eyelid and orbital trauma.

10. Retina
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.

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.

11. Refractive and Cataract Surgery
Intumescent and Mature Cataracts (VD112008)
Cristos Ifantides, MD, MBA, Denver, CO
Credits: 1.00 IJCAHPO
Description: This course will teach critical preoperative skills for checking vision in non-traditional cataract evaluations. It will discuss potentially necessary preoperative studies, pertinent history to ask, surgical management and postoperative care.

NEW! All About Cataracts (VD112009)
Xiaoqin Alexa Lu, MD, Atlanta, GA
Credits: 1.00 IJCAHPO
Description: This course will provide a foundation of clinical knowledge of cataracts to help technicians learn about cataract surgery to assist in patient education. Cataract surgery around the world will also be discussed.

Refractive Cataract Surgery: Meet Patient Expectations with Advanced Biometry (VD112001)
Robin Vann, MD, Durham, NC
Credits: 1.00 IJCAHPO
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.

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.
### 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 errors impair 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, FRCS, 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 Trimbo, 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.

**What is That? Descriptive Interpretation of OCT and FA (VD151021)**
Holly Cheshier, COT, Prior Lake, MN  
Credits: 1.00 IJCAHPO, CEP: CABRN-1  
**Description:** This course is a retina-based lecture that will review optical coherence tomography (OCT) and fluorescein angiography (FA) patterns. Common pathologies that affect the retina will be discussed and case examples will be shown.

#### INTERMEDIATE

**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 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.

**Fundus Photography: Tips and Pearls (VD152024)**
Sherry Malone, COT, OSC, Plymouth, MA  
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.
On-Demand Course Descriptions

**Introduction to Ophthalmic Ultrasound (VD152028)**
Craig Simms, BSc, COMT, CDOS, ROUB, Kingston, ON, Canada
Credits: 1.00 ICAHPO, 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 ICAHPO
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 ICAHPO
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 ICAHPO
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 ICAHPO, 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 ICAHPO, 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 ICAHPO
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.

**NEW! Pupils, Fields and Potpourri (VD192002)**
Joanne Shen, MD, Scottsdale, AZ
Credits: 0.50 ICAHPO
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 ICAHPO
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 ICAHPO, CEP: CABRN-1
Description: Multiple difficult cases of strabismus and other ocular motility disturbances will be presented as unknowns with strategies for management.
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.