Association of University Professors of Ophthalmology SCOR

Surgical Curriculum for Ophthalmology Residents (SCOR)*

Advanced Cataract and Anterior Segment Skills

*expected release, Fall 2021



www.aupo.org

Program Overview

AUPO has been actively working on a standardized surgical curriculum for ophthalmology residents since 2018. The objective is to help programs achieve their goal of training residents who are expected to be competent in a broad range of basic and advanced surgical skills. These efforts were spurred by discussions with the American Board of Ophthalmology (ABO), ophthalmology Chairs and Residency Program Directors, along with encouragement from industry.

The mission of AUPO's Surgical Curriculum for Ophthalmology Residents (SCOR) is to provide a standardized system of surgical training and assessment of competency for ophthalmology residents.

Root Problems Being Addressed

- The lack of a definition of surgical 'competence' creates variability in proficiency among board certified ophthalmologists.
- The lack of accessible educational resources to support surgical competency creates variability in skill sets among board certified ophthalmologists.
- Variability of surgical competency among ophthalmology residents can lead to adverse patient outcomes.

SCOR Program Goals

To provide:

- equal opportunity for all ophthalmology residents to access outstanding, standardized, surgical training and assessment
- access to multiple surgical platforms and training in basic and advanced surgical techniques
- equitable representation of equipment and supplies
- standardization of objective in-program and in-person assessment
- data-driven curriculum
- blended learning (online and in-person) and learner-centric design (built for residents)



Learning Objectives

- Develop advanced phacoemulsification skills such as stop and chop and phaco chop.
- Manage critical challenges with cataract patients including mature cataracts, and capsular weakness.
- Recognize and manage complications of cataract surgery including use of vitrectomy techniques.
- Explain how various platforms are used with phacoemulsification technology, instrumentation, and lenses.
- Demonstrate advanced microsurgical skills including minimally invasive glaucoma surgery procedures (MIGS), secondary IOL fixation and iris repair.

Curriculum

The SCOR curriculum is designed to include skills that are deemed the essential **requirements for competency** as well as skills that are deemed to be important, but not required, for all ophthalmologists. Instructional materials are designed to be responsive to the needs of residents, providing 'just in time' learning as well as guided paths of development.

For residents seeking careers focused in surgical disciplines, the Advanced Curriculum should be completed prior to independently performing the procedures.

Skills Transfer

AUPO's objective is for every PGY4 ophthalmology resident to have the opportunity to participate in a SCOR skills transfer workshop. The goal is for residents to receive 1:1 instruction and practice on designated skills in phaco technique, anterior segment procedures, and suturing, rotating through the skills at timed intervals. Assessment of phaco technique skills will be included. The skills transfer curriculum includes:

- Phacodynamics
 - Alcon Centurion
 - B + L Stellaris
 - J & J Whitestar
- Advanced Nuclear Disassembly

- Critical Challenges
 - Zonulopathy
 - Posterior Capsular Rupture
 - Vitreous Prolapse
- Contributing Challenges
 - Small pupil
 - Iridodialysis
 - IOL exchange
- Elective Skills
 - MIGS
 - Advanced Suturing and Intraocular Knot Tying
 - Iris repair

Distance Learning

All PGY4 residents at AUPO member programs will have access to the online curriculum on the AUPO distance learning platform. Once a program is on-boarded, the residents and program directors will have access to the modules and assessment tools. The online curriculum modules complement the required knowledge and the skills transfer workshop experience, and provide a ready reference throughout the final year of residency.

Assessments

Formative assessments will be included during the skills transfer workshop. Assessments are a required part of the program and will not be used to "fail" a resident. Their purpose is to provide the r<mark>esident standardize</mark>d feedback in real time.

Created by a team of ophthalmologists and based loosely on the International Council of Ophthalmology (ICO) Ophthalmology Surgical Competency Assessment Rubric (ICO-OSCAR), assessments will occur at each station in the resident's skills transfer workshop rotation. The assessment is a shared responsibility between trainers and residents. Trainers will use a touchscreen tablet, with the assessment tools loaded for each resident and each procedure. The student will go through an evaluation with the faculty prior to rotating off the station.

The long-term goal for the assessment is to share standardized formative feedback provided in summary to the resident and the program at session-end.



Eligibility, Selection, Cost

Each skills transfer workshop has limited attendance based on space and equipment, and to ensure 1:1 trainer guidance when possible. The workshops are planned for PGY4 ophthalmology residents who meet the stated eligibility requirements.

Resident Eligibility Requirements

- PGY4 ophthalmology resident.
- Meets minimum requirement of ≥ 50 cataract surgeries as primary surgeon and ≥ 5 MIGS procedures as assistant surgeon prior to date of skills transfer workshop.
- Attestation from Program Director and/or Chair, that minimum requirements can be met by time of workshop.
- Commitment to complete all online curriculum modules and meet post-skills transfer assessment milestones.

Resident Selection

A maximum of one resident per program, who meets the eligibility requirements, will be selected on a first come, first serve basis up to the maximum attendance. (Additional positions per program will be considered if one resident per program goal is not met.) Programs with eligible residents are required to complete a <u>registration form</u>.

November 12, 2021	New Orleans, LA	Max 72 residents
February 25, 2022	Kissimmee, FL	Max 117 residents

Cost and What's Included

No charge to AUPO member programs. AUPO provides:

- access to the online curriculum modules for all PGY4 residents in program
- skills transfer workshop (limited to 1 resident per program on first come, first serve basis until limit reached)
 - roundtrip economy airfare, 1 night hotel room and meals for residents attending skills transfer workshop

Non-AUPO programs pay \$2,000 per resident. AUPO provides:

- access to the online curriculum modules for PGY4 residents accepted for skills transfer workshop
- skills transfer workshop (limited to 1 resident per program on first come, first serve basis until limit reached)
 - meals during workshop (program responsible for resident's airfare and hotel)

Application

To apply, complete the registration form by August 6 that was sent by email on July 29.

We will reach out to all programs that express interest in registering a resident by August 16.

Questions?

Contact the AUPO office at aupo@aao.org or (415) 561-8548.

Feedback from Pilot Programs

(offered in May and June 2021):

Michigan Resident: "The lab was fantastic. I think this is a terrific undertaking and the future potential seems incredible. I loved the one-onone time with an attending."

New York Resident: "Nicely modular so can be adapted to level of trainees attending."

Michigan Faculty: "I was pleased that the industry representatives participating in the lab focused entirely on familiarizing participants with device handling and insertion technique, rather than any "selling" or discussion of comparative effectiveness."

New York Faculty: "Fantastic. The best wet lab for trainees I've ever attended or participated in."

Support

The AUPO Surgical Curriculum for Ophthalmology Residents (SCOR) program is supported by educational grants from: Alcon, Bausch+Lomb, and Johnson & Johnson with additional support from Zeiss.

SCOR Team Leaders

Shahzad Mian, MD, Director Grace Sun, MD, Skills Transfer Team Stacy Pineles, MD, Assessment Team Jeff Pettey, MD, MBA, Distance Learning Team Steven Feldon, MD, MBA, AUPO Executive Vice President

There have been many contributors to the development of this program. Our deepest gratitude to all of the volunteers who have helped make the AUPO SCOR program a reality.

