THE PATIENT-CENTERED ULTRASOUND-GUIDED FINE NEEDLE ASPIRATION BIOPSY PRACTICE

SEPTEMBER 13-16, 2017
Rationale

Pathologists are experiencing a transformative practice change from laboratory diagnosticians to clinical consultants at the center of patient care. This interactive course attempts to provide a real-world clinical training experience from first encounter with the patient to quality assessment of the final integrated report, and is intended as a training in-depth snapshot of why cytopathology is essential and integral to patient-centered care.

Learning Objectives

This course is intended to integrate the procedural aspects of FNAB with the equally important skills of communication and diagnosis, to prepare pathologists to respond competently to the escalating pressure to acquire diagnostic material for accurate diagnoses, predictive/prognostic information and targeted therapies. The immersive cytopathology experience is designed to:

- Cultivate recognition and FNAB targeting of sonographic lesions
- Teach safe FNAB procedures and procurement techniques through demonstrations and practicums
- Instruct triage procedures and specimen assignments to ancillary testing through rapid on site evaluations (ROSE)
- Enhance communication skills and empathy for interactions with patients and clinical colleagues through role modeling
- Utilize interactive microscopy to refine diagnostic skills
- Apply quality metrics to improve patient care and outcomes
- Incorporate self-assessment

Course Directors and Faculty

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COURSE SEQUENCE

The intent at the Powers-Sanchez Interactive Center/Linder Learning Center is to create an instructional interactive dynamic that prepares pathologists for interventional patient encounters and diagnostic excellence in a non-traditional learning environment. Instructional modules are designed to simulate clinical practice and improve competencies. Resources include the interactive microscopy laboratories, the television broadcast studio, conference theater, ultrasound equipment, and video-interplay. Role modeling by faculty for pathologist-patient interaction can be enhanced with video-recording and post-play critiques. This basic course runs Wednesday through Saturday.

ICE WEDNESDAY - SEPTEMBER 13, 2017

4:00 PM - 4:30 PM ICE UNWRAPPED
Learners are introduced to the Powers-Sanchez Interactive Center/Linder Learning Center, late afternoon. An informal presentation by Dr. Kaminsky addresses the panorama of ultrasound-guided fine needle aspiration biopsy in patient-centered care and outlines the interactive format of the course. Faculty is introduced, group assignments are made.

4:30 PM-5:30 PM – 1 CME / 1 SAM
THE PATIENT-CENTERED CYTOPATHOLOGY PRACTICE – DK

5:30 PM – 6:00 PM
TOUR OF USCAP’S INTERACTIVE LEARNING CENTER

6:00 PM – 6:45 PM
ANCIENT EGYPTIAN MEDICINE AND CONTROVERSIES IN PALEOPATHOLOGY – MAS

7:00 PM
BREAK THE ICE RECEPTION
INTRODUCTION TO ULTRASONOGRAPHY – MAS (#201)

The implementation of ultrasonography as a guidance tool for directing fine needle aspiration biopsies has enhanced the efficacy of the procedure. Placement of the needle in the designated target is visually assured and documented with avoidance of vital structures and reduction in complications. The context for guided FNAB is defined in this introduction.

FACULTY ROLE PLAY – (ALL FACULTY) (#201)

The patient is at the center of every FNA procedure as compassionate care should be the pathologist’s priority. How the pathologist interacts with and conveys information to the patient is important, if not more so than the technical procedure. Of equivalent importance is the interaction between pathologist and clinician. In this module there will be a short presentation on how to optimize interface interactions with empathy. The faculty will participate in taped role-playing scenarios. A review of the taped interactions will facilitate discussions designed to improve interactive, empathetic relationships.

DIAGNOSTICS 1 – INTERACTIVE LECTURE – (CNP) (#201)

Diagnostics 1 is an exercise in matching cytologic/surgical specimens to corresponding ultrasound images. The diagnostics module includes the elements of ROSE, basic triage, deciding on the number of passes and needle gauges, clinical scenarios, matching ultrasound images to diagnostic lesions.

LUNCH (provided)

INTERACTIVE TRAINING WITH THE 3D FNA BIOPSY MODULE

HANDS-ON LEARNING: THREE CONCURRENT ROTATING MODULES

SMEARING

US INTRO & BIOPSY

PHANTOM & BIOPSY

BML

AK

MT
MAKING THE SMEAR MODULE

There is an art, as well as science, involved in preparing excellent smears from aspirated material. This pre-analytic activity is critical to the quality of the diagnostic material and influences the precision of the final diagnosis. The ability to prepare high quality smears and allocate, in real time, material for cell blocks from each sample (when indicated) increases the accuracy of preliminary interpretations and final diagnoses and insures adequacy of material for ancillary studies. More and more molecular techniques are being validated for smear preparations in addition to FFPE cell blocks and needle core biopsies. This section of the course will provide a didactic introduction to the rationale and to smear techniques to improve competency with live demonstrations, and will be followed by a practicum. Learners will have the opportunity to fine-tune their skills with direct feedback. During this session there will be comparison of Diff-Quik vs. Papanicolaou Stain, air-dried vs. alcohol fixed smears, and the issues around spray fixatives.

THE ULTRASOUND UNIT/DIRECTING THE NEEDLE MODULE

Most cytopathologists are trained in palpation-guided FNA biopsy. Ultrasound, as a guidance tool, enhances our biopsy capabilities for targeting small and non-palpable lesions, performing selected sampling of complex lesions, and documenting the position of the needle in its target (medico-legal and quality advantages). The goal of this session is to enhance the competency of pathologists in their familiarity with the ultrasound unit, including what settings optimize pathologists’ abilities to visualize lesions, how Doppler interrogation establishes vascularity, and how various important lesions present in the medium of ultrasonography. Patients will be utilized for ultrasonography without biopsy to familiarize learners with the probe, how to locate and visualize normal anatomy, explore options for best probe position and planning of optimal needle placement approach, and the diverse appearances of lesions. Experienced pathologists, working with an ultrasound technician, will work individually and collectively with learners. Once this baseline has been established, there will be instruction regarding the different ways to approach needle placement. The location and characteristics of lesions often dictate the approach to sampling. Through the use of video clips demonstrating needle trajectories, the learners will be familiar with the penetration pathways of the needle probes.

THE PHANTOM MODULE AND DIRECTED BIOPSY

Learners will be taught and allowed to practice their needle localization skills using various phantoms that mimic lesions of the head and neck. This is done in collaboration with the ultrasound technician who operates the unit, but pathologists anticipating solo interventional procedures will have the opportunity to learn dexterity with the probe, needle and phantom. Visual teaching models are expected to be integrated into the instructional assets.

THE 3D-INTERACTIVE FNA BIOPSY MODULE

A 3D interactive module developed by USCAP and EON Reality Inc. provides learners with a mechanism for developing eye-hand coordination and procedural skills to refine ultrasound-guided fine needle aspiration biopsy as an interventional tool.
ICE FRIDAY - SEPTEMBER 15, 2017

8:00 AM-9:00 AM – 1 CME / 1 SAM
DIAGNOSTICS 2 – (CNP) (#201)
Diagnostics 2 is devoted to diagnostic dilemmas which reinforce the integration of US-images with cytomorphology with review of problems and pitfalls of the diagnostic process. The segment relies on audience interaction in the conference theater.

9:00 AM-1:00 PM  – 4 CME / 4 SAM
REPRISE HANDS-ON MODULES WITH ADVANCES (3 CONCURRENT STATIONS IN #201)
Learners reinforce hands-on techniques by rotation with up-regulated teaching of more advanced concepts.

1:00 PM-2:00 PM
LUNCH (on your own)

2:00 PM-5:00 PM – 3 CME / 3 SAM
HANDS-ON LEARNING (#201)

5:00 PM-6:00 PM – 1 CME / 0 SAM
ASK THE EXPERTS
An intimate conversational format facilitates audience-faculty interactivity to address practical issues and concerns about clinical practice, techniques, diagnoses and patient care.
ICE SATURDAY- SEPTEMBER 16, 2017

This concluding day is devoted to final time with techniques, a self-assessment session, and exploration of quality. In addition, our interactive microscopy sessions focused on challenges in head and neck pathology uniting cytologic with surgical cases and clinical features.

8:00 AM-9:00 AM – 1 CME / 1 SAM
QUALITY, SAFETY, COMMUNICATIONS – YH (#201)
This is a conference theater session on quality processes and metrics that can improve patient outcomes and ensure patient safety. Discussions continue on empathy, interface relationships, and communication handoffs. The integrated report with complete information is discussed as a quality measure. Error reduction and standardized reporting are emphasized.

9:00 AM-10:00 AM – 1 CME / 0 SAM
FACULTY-AUDIENCE DIALOGUE ON QUALITY, SAFETY, COMMUNICATIONS – YH (#201)

10:00 AM-10:30 AM
BREAK

10:30 AM-11:30 AM – 1 CME / 0 SAM
FINAL ROTATION THROUGH LEARNER-SELECTED MODULES (#201)
Learners select modules (stations) where they feel they need more time, or they may electively rotate through all a final time.

11:30 AM-12:30 PM  – 0 CME / 0 SAM
PRACTICAL SELF-ASSESSMENT EXAMS WITH SURVEY (#201)
All learners have module-rotated self assessment exams following brief written examinations.

12:30 PM -1:30 PM
LUNCH (on your own)

1:00 PM-5:00 PM – 4 CME / 4 SAM
INTERACTIVE MICROSCOPY (WF) (#301)
Diagnostic challenges in head and neck fine needle aspiration biopsy and surgical pathology are reviewed with an expert at the 18-head teaching microscope following study of selected cases in cytopathology and surgical pathology at personal viewing microscopes. Certain cases will illustrate the use of the Milan System for Reporting Salivary Gland Cytopathology as a practical tool that enhances communication with clinicians.

5:00 PM
ICE MELTS
ACCREDITATION STATEMENT

The United States and Canadian Academy of Pathology is accredited by the Accreditation Council for Continuing Medical Education (ACCME) to provide continuing medical education for physicians.

Physicians can earn a maximum of 25 AMA PRA Category 1 Credits™ by participating in the CME activities within the September 2017, ICE: Immersive Cytopathology Experience course.

The USCAP is approved by the American Board of Pathology (ABP) to offer Self-Assessment credits (SAMs) for the purpose of meeting the ABP requirements for Maintenance of Certification (MOC). Registrants must take and pass the post-test in order to claim SAMs credit.

Physicians can earn a maximum of 22 SAM credit hours.

SCHEDULED DATES

SEPTEMBER 13-16, 2017

COURSE LOCATION

500 South Palm Canyon Drive Suite 307 (Check In)
Palm Springs, CA 92264