A pre-meeting American College of Surgeons (ACS) exported Thyroid and Parathyroid Ultrasound Course will take place on Wednesday July 10, 2013 with well-known and experienced leaders in thyroid and parathyroid ultrasound techniques and applications. The objective of the course is to introduce the practicing physician to the basics of office-based ultrasound examination of the thyroid and parathyroid glands and related pathology. The course covers the principles and physics of ultrasound, the anatomy of the neck, ultrasound evaluation of thyroid and parathyroid disease, and an introduction to the examination of cervical lymph node basins. In addition, didactic and hands-on skills stations will allow participants to learn ultrasound-guided FNA techniques using phantom models. Patient volunteers with thyroid and parathyroid pathology will allow supervised hands-on experience with ultrasound methods to complement the didactic learning. Although completion of this course provides ACS-approved verification of skills, physicians of all specialties are welcome and eligible to attend, particularly if they are at a beginning stage of using ultrasound. Space is limited so book early.

**PROGRAM FOR ACS THYROID/PARATHYROID ULTRASOUND CERTIFICATION COURSE**

07:00 - 07:30  Registration and Continental Breakfast

07:30 - 07:40  Welcome and Introduction
   Robert Sofferman, MD and Lisa Orloff, MD

07:40 - 08:10  Physics and Principles of Ultrasound
   Lawrence Kim, MD

08:10 - 08:30  Ultrasound Anatomy
   Jamie Mitchell, MD

08:30 - 09:00  Imaging Basics of Diffuse Thyroid Disease, Thyroiditis and Thyroid Nodules
   Mark Lupo, MD

09:00 - 09:20  Imaging Basics of Parathyroid Disease
   Carmen Solorzano, MD

09:20 - 09:35  Coffee Break

09:35 - 10:20  Interventional Ultrasound: US-guided FNA
   Lisa Orloff, MD

10:20 - 11:00  Ultrasound Demonstration and Ultrasound Pearls
   Anil Ahuja, MD

11:00 - 11:40  Clinical Decision-Making Based on Cytology and Molecular Testing: Case Scenarios
   Sareh Parangi, MD

11:40 – 12:00  Interpretation of General Head and Neck Ultrasound
   David Steward, MD

12:00 – 13:00  Lunch (Boxed lunch in conjunction with following presentations)
   Interpretation of Ultrasound: Review of Cases
Robert Sofferman, MD
13:15 - 17:00 **Lab Practicum and Hands-on Skills Session**
Karen Devon, MD; Lawrence Kim, MD; Jamie Mitchell, MD; Barbra Miller, MD; Phillip Pelliteri MD; Maisie Shindo, MD; Carmen Solorzano, MD; David Steward, MD; David Terris, MD; Ian Witterick, MD

**FACULTY**

**Course Chair:** Mira Milas MD

**Course Faculty for ACS Thyroid/Parathyroid Ultrasound Certification Course:** Anil Ahuja MD, Karen Devon MD, Mark Lupo MD, Lawrence Kim MD, Barbra Miller MD, Jamie Mitchell MD, Lisa Orloff MD, Sareh Parangi MD, Phillip Pelliterri MD, Maisie Shindo MD, Bob Sofferman MD, David Steward MD, David Terris MD, Ian Witterick MD

**Course Faculty for ADVANCED Thyroid Ultrasound Course:** John Abele MD, Anil Ahuja MD, Jennifer Brainard MD, Zubair Baloch MD, Dan Duick MD, Guido Fadda MD, Jeremy Freeman MD, Bryan Haugen MD, Jill Langer MD, Susan Mandel MD, Mira Milas MD, Edmund Priibitkin MD, Greg Randolph MD, David Steward MD, Cord Sturgeon MD, Roberto Valcavi MD, Moshe Yehuda MD

**Course Fees:** $1500.00 CAN per person. Space is limited for this hands-on course, to reserve a position, please send your contact information to registration@thyroidworldcongress.com. Further information will be provided in the near future.

**COURSE OBJECTIVES**

**Physics and Principles of Head/Neck Ultrasound**
After completion of this block, the physician should be able to:
- Select appropriate equipment for head/neck ultrasound
- Summarize general physics and principles of head/neck ultrasound
- Adjust ultrasound settings for head/neck ultrasound

**Scanning Techniques and Normal Head/Neck Ultrasound Anatomy**
After completion of this block, the physician should be able to:
- Describe the indications and goals for diagnostic head/neck ultrasound
- Describe the various positions of the patient, the examiner, and the ultrasound equipment for optimal performance of a diagnostic head/neck ultrasound
- Demonstrate the technique for performance of a diagnostic head/neck ultrasound
- Recognize the normal sonographic anatomy of the head/neck

**Head/Neck Ultrasound Interpretation**
After completion of this block, the physician should be able to:
- List and define the characteristics used to classify sonographically detected head/neck lesions as pathologic and/or benign versus malignant
- Identify ultrasonographically detectable pathologies of the head/neck
- Categorize head/neck masses according to their sonographically detected characteristics
Interventional Head/Neck Ultrasound
After completion of this block, the physician should be able to:

- Describe the equipment required for performing interventional head/neck ultrasound procedures
- Describe the various positions of the patient used to perform interventional head/neck ultrasound procedures
- Describe the indications for ultrasound-guided FNA biopsy of head/neck lesions
- Describe the risks of interventional head/neck ultrasound procedures and measures to help avoid those risks
- Demonstrate satisfactory performance of an ultrasound-guided FNA biopsy using a phantom model
- Describe the procedure so that a patient can be fully informed about the risks and alternatives

ACCREDITATION
The American College of Surgeons is accredited by the Accreditation Council for Continuing Medical Education (ACCME) to provide continuing medical education for physicians.

AMA CREDIT DESIGNATION (Pending)
Note: Participation in the ACS ultrasound course requires completion of a CD-rom basic ultrasound module. This is obtained via the ACS and is completed prior to the Toronto course. The basic module covers US physics and other essentials of clinician-performed ultrasound and provides 4 CME credits. Completion of the Toronto ACS course provides an additional 7 CME credit hours. Credit earned in both courses is recognized towards certification provided by the ACS. For non-surgeons taking the ACS course, these CME credits also can be applied towards the total of 15 hours of CME required for ECNU certification. Please note that the 7 hours of CME credit in the Toronto course includes a mandatory written exam and skills station exam to obtain the credit.

Who should take the ACS Thyroid and Parathyroid Course?
- Clinicians of any specialty who are just starting to perform their own thyroid and parathyroid ultrasound
- Clinicians who wish to have familiarity with neck ultrasound even if they do not perform examinations themselves
- Surgeons who wish to obtain thyroid/parathyroid ultrasound certification (Verification Level III of skills and knowledge) by the American College of Surgeons