Ultrasound: Toward Standards of Practice
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- No disclosures
Vision ~ Innovation ~ Leadership

Special thanks to

Richard Hoppmann, MD
Dean, University of South Carolina School of Medicine
A I U M

- The association for medical ultrasound
- Multidisciplinary/modality driven
- 8900 members
- Diverse membership:
  - physicians
  - sonographers
  - other clinicians
  - scientists
- Established in 1955
Demographics

- Physicians - 58%
- Sonographers - 26%
- Basic Scientists - 2%
- Students & Others - 14%
Leadership

- Executive Committee
  - 7 members
  - Physicians, Sonographers, Basic Scientists

- 20 Board of Governors Members
  - Maintain liaison with other societies:
    - American College of Obstetricians and Gynecologists
    - American College of Radiology
    - National Electrical Manufacturers Association
    - Society of Diagnostic Medical Sonography
    - Society for Maternal-Fetal Medicine
    - Society of Radiologists in Ultrasound
    - Society for Vascular Ultrasound
Management Services

- AIUM manages two international organizations

World Federation for Ultrasound in Medicine and Biology

International Society for Therapeutic Ultrasound
**Mission**

AIUM - The American Institute of Ultrasound in Medicine is a multidisciplinary association dedicated to **advancing the safe and effective use of ultrasound** in medicine through professional and public education, research, development of guidelines, and accreditation.

SUSME - The mission of the Society of Ultrasound in Medical Education (SUSME) is to **promote the use of ultrasound** in medical education through development of educational experiences, research on outcomes, and distribution of results.
Purpose

SUSME:
- Provide a forum for the exchange of information about the use of ultrasound in medical education

AIUM:
- Long history of facilitating collaboration via examination guidelines and forums.
  - Ultrasound Practice Forums
    - 2004: Compact Ultrasound
    - 2006: Training/Exam Guidelines and Scope of Practice
    - 2007: Patient Safety and Quality: The Role of Ultrasound
    - 2008: Training/Exam Guidelines and Scope of Practice
    - 2010: Point-of-Care Use of Ultrasound
Purpose

SUSME:
- Facilitate communication and collaboration between educators who are using ultrasound in medical education

AIUM:
- Develop collaborative guidelines and statements on the performance of ultrasound examinations
- Facilitate communication and collaboration between specialties utilizing diagnostic medical ultrasound
Purpose

SUSME:

- Develop a database of information about the use of ultrasound in medical school curricula

AIUM:

- In 2010, developed and distributed *Ultrasound Lecture Series: Obstetrics and Gynecology*, an ultrasound curricula for use in medical schools
Purpose

SUSME:
- Provide links to resources, events, and associations related to ultrasound in medicine

AIUM:
- Provide links to resources, events, and associations related to ultrasound in medicine
Purpose

Collaboration is key!

The association for medical ultrasound
+ Society of Ultrasound in Medical Education
Ultrasound is

- Safe
- Economical
- Accessible & Portable
- Quality-Controlled
- An IMAGE GENTLY Alternative
Where is Ultrasound going?

- Ultrasonography will continue to diffuse across medical specialties.
  - Decreased medical errors
  - More efficient real-time diagnosis
  - Supplement/replace more advanced imaging
  - More widespread, less-expensive screening for defined indications

AIUM Ultrasound Practice Accreditation

Assesses:

- Personnel qualifications and continuing medical education
- Examination Protocols
- Reporting and Record Retention Policies
- Patient Safety and Quality Assurance Policies
- Equipment Maintenance

Requires the submission of case studies to determine whether ultrasound examinations meet AIUM guidelines
AIUM Ultrasound Practice Accreditation

Accreditation Specialties:

- Abdominal/General Ultrasound
- Breast Ultrasound (diagnostic and/or interventional)
- Gynecologic Ultrasound
- Obstetric Ultrasound (complete or trimester-specific)
- Fetal Echocardiography
- Thyroid/Parathyroid Ultrasound
- Musculoskeletal Ultrasound
Number of AIUM-Accredited Sites by State
Setting Standards

- Practice Guidelines for the Performance of Ultrasound Examinations
- Official Statements
- Contributing to Safe and Effective Patient Care around the World
Setting Standards
AIUM Official Statements

- AIUM's Role in the Legislative Arena
- Prudent Use
- 3rd Party Accreditation Reporting Packages
- Providing Images to Patients
- Improving Delivery and Quality of Ultrasound Services
- Statement Regarding Naturally Occurring Gas Bodies
- Conclusions Regarding Tissue Models and Equipment Survey
- Reimbursable Obstetrical Ultrasound
- Statement on Mammalian In Vivo Ultrasonic Biological Effects
- In Vitro Biological Effects
- Clinical Safety
- Safety in Training and Research
- Statement on Data Needed to Characterize Ultrasound System Output
- Training Guidelines for Physicians Who Evaluate and Interpret Diagnostic Ultrasound Examinations
- Interpretation of Ultrasound Examinations
- Conclusions Regarding Epidemiology for Obstetric Ultrasound
- Statement on Heat
- Nonoperative Spinal/Paraspinal Ultrasound in Adults
- Limited Obstetrical Ultrasound
- Recommendations for Inclusion on Written Reports
Setting Standards
AIUM Official Statements

- Definition of a Final Report
- Recommendations for Cleaning Transabdominal Transducers
- 3D Technology
- Definition of Physician Supervision for Ultrasound Practice Accreditation Standards
- Bioeffects of Diagnostic Ultrasound with Gas Body Contrast Agents
- Standards and Guidelines for the Accreditation of Ultrasound Practices
- Guidelines for Cleaning and Preparing Endocavitary Ultrasound Transducers Between Patients
- Carotid Screening in the Asymptomatic Patient
- Guidelines for Hands-on Scanning in Pregnant Subjects During AIUM-Sponsored Educational Activities
- Keepsake Fetal Imaging
- Employment of Credentialed Sonographers
- Prudent Use in Obstetrics
- Prudent Use and Clinical Safety
- Statement Regarding Tissue Models
- Safety in Training and Research
- In Vitro Biological Effects
- Policy Regarding Endorsements, Recognition, and Collaboration
- As Low As Reasonably Achievable (ALARA) Principle
- Training Guidelines for the Performance of Musculoskeletal Ultrasound Examinations
- Statement on the Safe Use of Doppler Ultrasound During 11-14 week scans (or earlier in pregnancy)
Setting Standards
AIUM Clinical Practice Guidelines

- 25 Practice Examination Guidelines
- Available for download at www.aium.org
- Collaborative effort with many organizations
- Updated every 5 years
American Institute of Ultrasound in Medicine

We are ultrasound...
You are the future.

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See you in Phoenix

2012 AIUM Annual Convention & Preconvention Program

March 29-April 1, 2012 • JW Marriott Desert Ridge Resort and Spa • Phoenix, AZ
Harvey L. Nisenbaum, MD

- Immediate Past President, AIUM