

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

AIUM



- *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!



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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

– Moore CL, Copel J. *Point-of-Care Ultrasonography*, NEJM, 2011;364:749-57.

AIUM Ultrasound Practice Accreditation

Assesses:

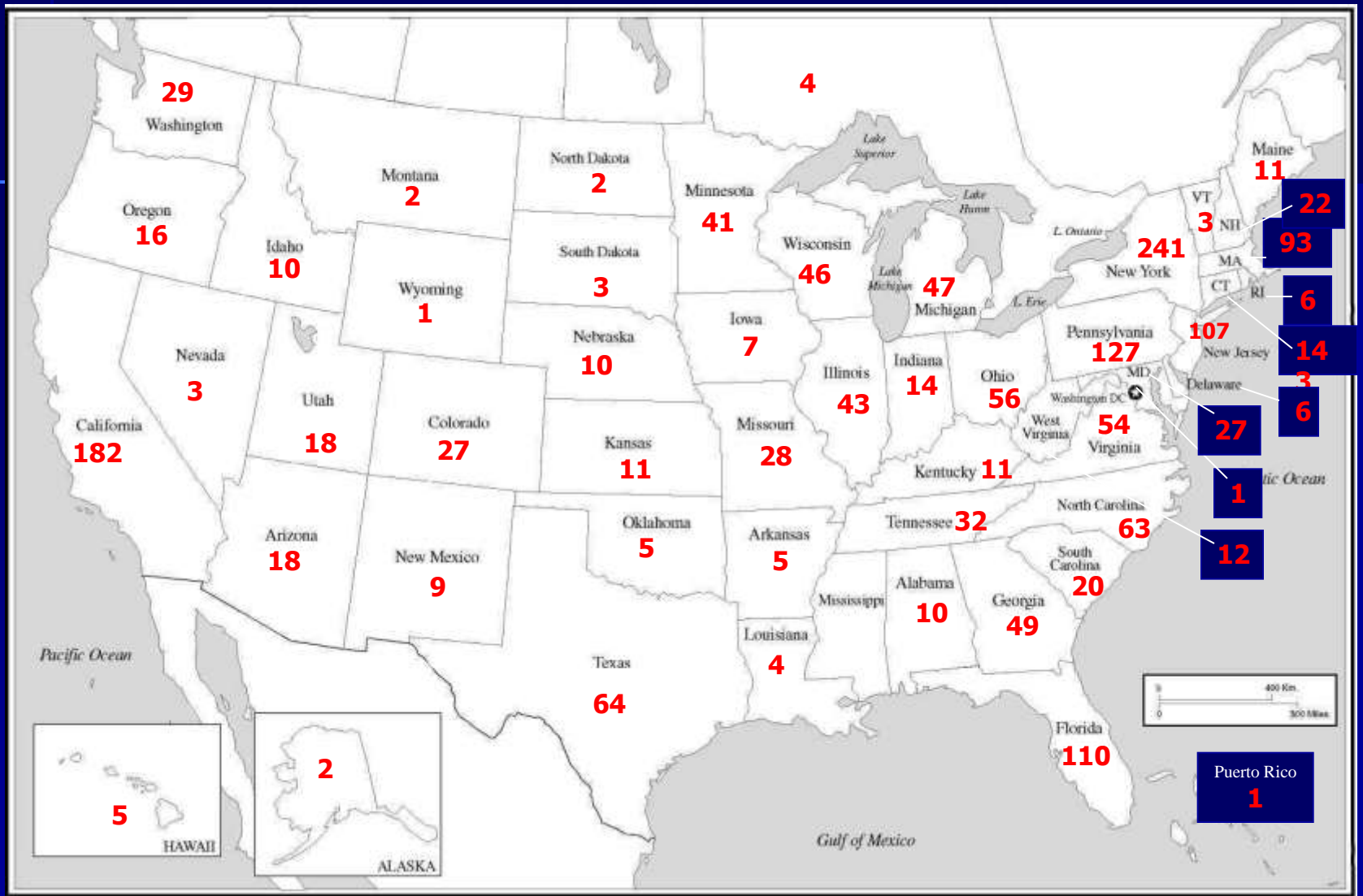
- Personnel qualifications and continuing medical education
- Examination Protocols
- Reporting and Record Retention Policies
- Patient Safety and Quality Assurance Policies
- Equipment Maintenance

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



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We are ultrasound...

You are the future.

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See you in

Phoenix



aium
PHOENIX 2012

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

