

The background of the slide features a large, faint watermark of the University of Virginia seal. The seal is circular and contains the text "UNIVERSITY OF VIRGINIA" around the perimeter. In the center, there is a shield with a book and a torch, and the year "1819" is visible below the shield.

Teaching Sonographic Skills to Medical and Nursing Students at a Remote Area Medical Clinic

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An Introduction to
Sonography Skills Elective

Physician and Nurse use of Sonography

▶ Continued interest in Point of Care Sonography

- ◆ Intensive care units
- ◆ Emergency Medicine
- ◆ Internal Medicine,
- ◆ Obstetrics/Gynecology
- ◆ Gastrointestinal Medicine
- ◆ Surgery
- ◆ Pediatrics
- ◆ Urology



Remote Area Medicine - RAM



Our Study Subjects



- ▶ Study subjects were 15 medical and 14 nursing students from UVA who volunteered at the event.
- ▶ The goal of this project is to assess the feasibility and value of a focused sonography experience among medical and nursing students together in a free clinic setting while doing good for others.

Location of the Event: Wise, Virginia



Our Staff

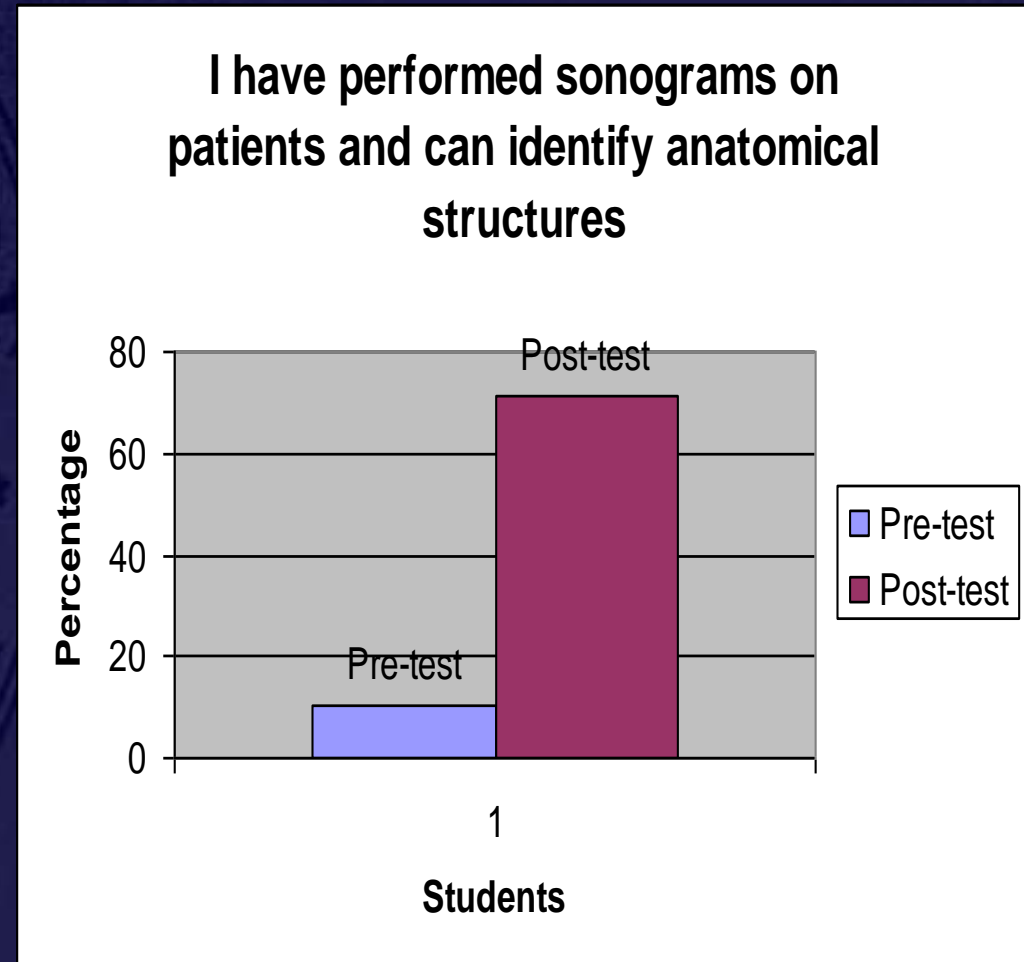


Common Health Concerns



Pre and Post Survey - Six Sonographic Skills

- ▶ Recognizing and Identifying
 - ◆ Aorta
 - ◆ Gallbladder
 - ◆ Kidneys and Bladder
 - ◆ Uterus with and with out IUP
 - Transabdominal
 - Transvaginal
 - ◆ Artery and Vein
 - Color Doppler
 - ◆ Fluid in the Abdomen



No student reported prior competence in all six skills.

Our Class Room



AO DIS

PC27A5A
C 48
P Med
HGen
CE
50%
254Hz
WF 110Hz
Med

RS
2D
48%
C 58
P Low
HRes

Trans Bladder

g+CRL 4.78 cm 11w4d

22.5
-22.5

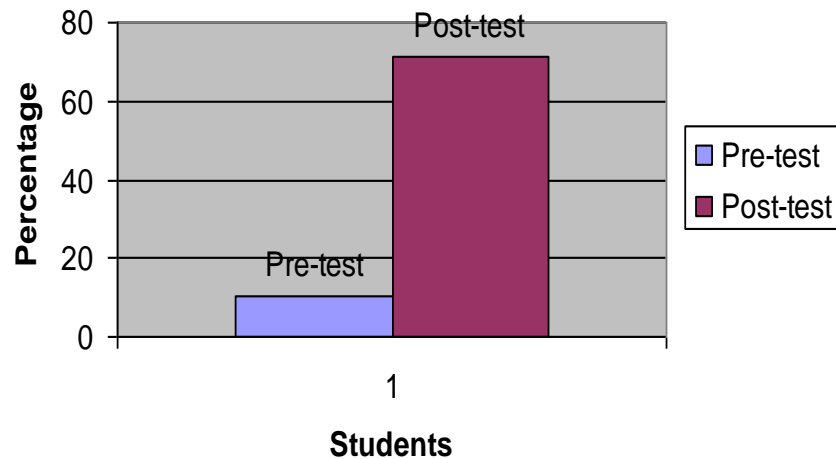
14:00
14:00
2D
48%
C 58
P Low
HRes

RL Length 10.3 cm
X Length 4.48 cm

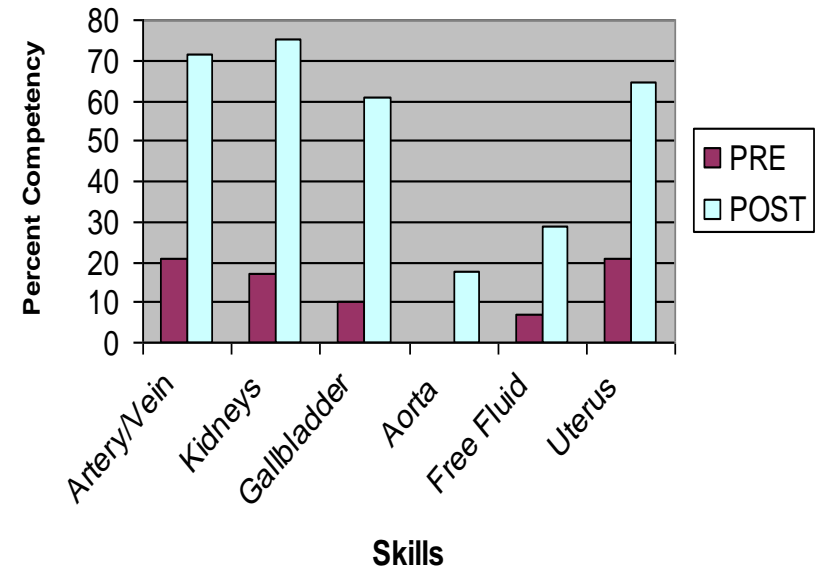
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Our Results

I have performed sonograms on patients and can identify anatomical structures



Ultrasound Skills Pre- and Post-test



► On average, students developed competence in 3 of 6 skill areas.

* Competance : Self assessed ability to recognize and perform the 6 skills

Conclusion and Commments

- ▶ Students can improve their understanding of directed sonographic techniques under the instruction of experienced Diagnostic Medical Sonographers
- ▶ Students desire and see the need for more sonography skills taught during their medical education and furture practice
 - Point of Care use
 - Unstanding Diagnostic Reports

Discussion “Stethoscope of the Future”



- ▶ Sonography is a Specialty
 - ◆ require extensive training and experience
 - ◆ This brief course can not reproduce or substitute for formal education
- ▶ Formal exposure
 - ◆ better direct patient care
 - Bedside US
 - Diagnostic US
 - ◆ techniques used as an extension of a physical examination

New and Current Course offerings at UVA

- ▶ Remote Area Medicine 2nd and 4th Year Medical/Nursing Elective
- ▶ MS third year Emergency Medicine
- ▶ MS 4th year Emergency Ultrasound elective
- ▶ Resident Education
- ▶ EM Sonography Fellowship



Thank You!

