



Dear Medical Education Dean:

We are writing to ask you to take ten minutes to complete this brief survey about the status of ultrasound education in your medical school. We will also be surveying the individual you recognize as your institution's primary champion for ultrasound education. The purpose of this study is to describe the state of ultrasound education in U.S. medical schools, how it is taught, what skills and knowledge are conveyed, and who teaches the ultrasound curriculum. The information gathered in this study will contribute to understanding current needs, practices, and trends in ultrasound education.

We are tracking surveys as they come in so that we do not have to trouble you further once you respond. However, individual responses will be kept strictly confidential and will only be known to the data analyst. Results will only be reported in aggregate form, protecting the identity of individual respondents and their institution.

We greatly appreciate your contribution to this project. Please complete the Ultrasound Education Survey in one of two ways:

- 1) Complete and return this paper survey. For your convenience, simply return the survey using the enclosed postage prepaid, preaddressed envelope.

OR

- 2) You may have already completed the electronic version of this survey through SurveyMonkey. If so, thank you! If not, check your email or email spam filter for an invitation message and complete the survey electronically.

**Please return your completed survey by
November 18, 2011**

If you have further questions about the nature or results of this study, please feel free to contact us at 614-292-2997.

With gratitude,

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The Ohio State University

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This study has been determined exempt from IRB review by the Office of Responsible Research Practices at OSU and GWU. Your participation is voluntary and confidential. You may choose which questions you answer and can discontinue your participation at any time. There is no penalty or loss of benefits for non-participation in this project. No individual institutions and no individuals will be identified. Responses will be tracked through the use of the unique identifier that you see on the return envelope. Once the response is catalogued by a research consultant, the envelope and the unique identifier will be discarded, rendering your responses anonymous. For questions about your rights as a participant in this study or to discuss other study-related concerns or complaints, you may contact Ms. Sandra Meadows in the Office of Responsible Research Practices at 1-800-678-6251.

This survey does not pose a risk any greater than participation in day-to-day experiences and activities. By completion and return of this survey, you are consenting to the use of your confidential responses in aggregate form for the purposes of publication and dissemination.

Status of Ultrasound Education in U.S. Medical Schools

1. Please indicate your role at your medical school. Check the title that best fits you.

☐ Academic Program Leader

☐ Associate or Assistant Dean for Medical Education

☐ Associate or Assistant Dean for Curriculum

☐ Vice Dean for Medical Education

☐ Dean of the Medical School

☐ Other Dean Title Related to Undergraduate Medical Education

☐ Faculty Champion of Ultrasound in Medical Education

Other (Please specify): _____

2. Which of the following best describes how your preclinical undergraduate medical curriculum is organized?

☐ Medical Disciplines Model (i.e. content organized around traditional departmental disciplines)

☐ Organ Systems & Integrated Medical Sciences Model (i.e. content organized around organs or body systems)

☐ Problem or Case-Based Model (i.e. content organized around problems stemming from patient cases)

☐ Hybrid Model (i.e. combination of more than one from above)

Other (Please specify): _____

3. Which of the following best describes how your clinical undergraduate medical curriculum is organized?

☐ Disciplinary Block Rotations (i.e. departmentally sponsored clerkships)

☐ Longitudinal Integrated Rotations

☐ Mixed Model Rotations

Other (Please specify): _____

4. Does your medical school teach ultrasound in your undergraduate medical school curriculum?

Yes ☐ → Please continue on page 3

No ☐ → Please skip to page 4

Not Sure ☐ → Please continue on page 3

5. *Directions:* Please answer the 4 questions below for each Med Level of your curriculum.
- Is ultrasound taught at each level? Please answer by *circling* YES or NO in Column A.
 - Is ultrasound required, optional or both? Please answer by circling the number that fits your curriculum in Column B.
 - Is ultrasound a formal part of the curriculum, co-curricular or both? Please answer by circling the number that fits your curriculum in Column C.
 - What is the primary purpose for ultrasound being taught? Please answer by circling the number that fits your curriculum. *Select only one for each Med Level. Use the codes below:*

1= Tool used to teach science or medicine topics
 2= Teach students how to obtain scans
 3= Teach students how to interpret scans
 4= Teach students to use ultrasound to guide procedures
 5= Other purpose (please specify)
 6= Not sure

<u>Med Level</u>	(Column A) <u>Is US taught?</u>	(Column B) <u>Is US Required?</u> Required = 1 Optional = 2 Both = 3	(Column C) <u>Is US Formal Curriculum?</u> Formal = 1 Co-curricular = 2 Both = 3	(Column D) <u>What is primary purpose of US Teaching?</u>
M1 (Med 1)	YES NO	1 2 3	1 2 3	1 2 3 4 5 6
M2 (Med 2)	YES NO	1 2 3	1 2 3	1 2 3 4 5 6
M3 (Med 3)	YES NO	1 2 3	1 2 3	1 2 3 4 5 6
M4 (Med 4)	YES NO	1 2 3	1 2 3	1 2 3 4 5 6
Other purpose for teaching ultrasound:				↓

6. Who, in your institution, would best be qualified to answer more detailed questions about ultrasound education in the undergraduate medical school curriculum? Please provide their information so that we may follow up with them.

Name:

Department or Division:

Postal Address Line 1:

Postal Address Line 2:

Email Address:

Phone Number:

() - _____

7. Ultrasound in Undergraduate Medical Education

Directions: For each the following statements please circle the option that most closely reflects your opinion. Use the following key:

SD=Strongly Disagree; D=Disagree; D/A= Disagree/Agree Equally; A=Agree; SA=Strongly Agree

	<u>SD</u>	<u>D</u>	<u>DA=</u>	<u>A</u>	<u>SA</u>
Ultrasound should be a part of the undergraduate medical education curriculum	SD	D	D/A=	A	SA
Ultrasound facilitates a medical student's ability to diagnose medical problems	SD	D	D/A=	A	SA
Ultrasound guided procedures can improve patient safety	SD	D	D/A=	A	SA
Due to the amount of material in our undergraduate medical curriculum, ultrasound cannot be accommodated	SD	D	D/A=	A	SA
Ultrasound is more appropriate for graduate medical education	SD	D	D/A=	A	SA
The best place for ultrasound in the undergraduate curriculum is in an anatomy course	SD	D	D/A=	A	SA
The best place for ultrasound in the undergraduate curriculum is in the clinical clerkships	SD	D	D/A=	A	SA
Ultrasound education is a priority at my medical school	SD	D	D/A=	A	SA

8. Barriers to integrating ultrasound in the Undergraduate Medical Education

Directions: Please rank the following challenges to integrating ultrasound into the medical school curriculum. Make "1" the most significant barrier and "5" the least significant barrier.

<i>Please use each rank only once!</i>	<u>Most</u>				<u>Least</u>
Lack of trained faculty	1	2	3	4	5
Lack of ultrasound equipment	1	2	3	4	5
Lack of student interest	1	2	3	4	5
Lack of financial support	1	2	3	4	5
Lack of space in the current curriculum	1	2	3	4	5

Thank you for your contribution to this project!