Focused Transthoracic Cardiac Ultrasound: A Survey of Training Practices

You are being asked to participate in this survey because you are an anesthesiology program director or an anesthesia resident. The aims of this study are to assess current training practices related to focused cardiac ultrasound, or transthoracic echocardiogram (TTE), to identify factors related to practice variation and factors that might help target future educational initiatives.

This study is being conducted by Drs. Frederick Conlin and Neil Roy Connelly (Frederick.Conlin@baystatehealth.org and Neil.Roy.Connelly@baystatehealth.org) of Baystate Medical Center, Tufts University School of Medicine, and is being sent electronically to Program Directors of American residency programs, and residents in American Anesthesiology training programs. It should take approximately 2 minutes to complete. Your participation is completely voluntary and you may quit at any time. You may also skip any question, but continue to complete the rest of the survey.

No "identifiable" data is being collected by the survey. Since we do not know who will actually take the survey, your responses are anonymous. When results are reported, responses will be aggregated and described in summary.

If you would like to discuss your rights as a research participant, or wish to speak with someone not directly involved in the study, please contact the Baystate Medical Center Institutional Review Board at (413) 794-4356. In the event that you experience technical difficulties with this survey, please contact Jennifer Friderici, MS at (413) 794-7763 or Jennifer.Friderici@baystatehealth.org.
Thank you for participating in this effort. With your participation, we hope to improve our knowledge of current perioperative practice in the area of focused transthoracic cardiac ultrasound.

I would like to:  

- Proceed
- Exit Now

...
## Demographics

1. Please describe your role:
   - Program director
   - Resident
   - Fellow

2. What best describes your primary practice setting?
   - University or teaching hospital
   - Public or military hospital

3. What state is your hospital located in?
   - Alabama
   - Alaska
   - Arizona
   - Arkansas
   - California
   - Colorado
   - Connecticut
   - Delaware
   - Florida
   - Georgia
   - Hawaii
   - Idaho
   - Illinois
   - Indiana
   - Iowa
   - Kansas
   - Kentucky
   - Louisiana
   - Maine
   - Maryland
   - Massachusetts
   - Michigan
   - Minnesota
   - Mississippi
   - Missouri
   - Montana
   - Nebraska
   - Nevada
   - New Hampshire
   - New Jersey
   - New Mexico
   - New York
   - North Carolina
   - North Dakota
   - Ohio
   - Oklahoma
   - Oregon
   - Pennsylvania
   - Rhode Island
   - South Carolina
   - South Dakota
   - Tennessee
   - Texas
   - Utah
   - Vermont
   - Virginia
   - Washington
   - West Virginia
   - Wisconsin
   - Wyoming

4. If you are a director, years of practice since completion of training:  

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Confidential
PGY (if Resident or Fellow):

[Radio buttons for PGY-1, PGY-2, PGY-3, PGY-4, PGY-5]

Gender

[Radio buttons for Male, Female]

Location of Medical School

[Radio buttons for US, Other]

Location of Medical School, if outside of U.S.:

__________________________________
1. How many full-time anesthesiologists are employed at the hospital where you work?

2. What percent of the attending anesthesiologists at your institution use focused transthoracic cardiac ultrasound?

3. How many residents are currently in your anesthesia residency program?

4. In your opinion, should focused transthoracic cardiac ultrasound become standard in the training of anesthesiology residents?

5. Does your residency program provide trainees instruction in focused transthoracic cardiac ultrasound?

6. Which protocol(s) does your department use for examining patients and/or training residents for focused transthoracic cardiac ultrasound? (Check all that apply.)

7. How are residents trained in focused transthoracic cardiac ultrasound, if "other"?

8. How proficient in focused transthoracic cardiac ultrasound do you expect to be upon completion of your residency training?

9. How are residents trained in basic focused transthoracic cardiac ultrasound at your institution? (Check all that apply.)

<table>
<thead>
<tr>
<th>Percent Option</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>0%</td>
<td>0%</td>
</tr>
<tr>
<td>1-3%</td>
<td>1-3%</td>
</tr>
<tr>
<td>4-10%</td>
<td>4-10%</td>
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<tr>
<td>11-25%</td>
<td>11-25%</td>
</tr>
<tr>
<td>26-50%</td>
<td>26-50%</td>
</tr>
<tr>
<td>&gt; 51%</td>
<td>&gt; 51%</td>
</tr>
<tr>
<td>I don't know</td>
<td>I don't know</td>
</tr>
</tbody>
</table>

10. Protocol(s) your department uses for examining patients and/or training residents for focused transthoracic cardiac ultrasound, if "other":

11. If there is a dedicated focused transthoracic cardiac ultrasound program or simulator in place, how many hours is this training?

<table>
<thead>
<tr>
<th>Hours Option</th>
<th>Hours</th>
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<tbody>
<tr>
<td>&lt; 1 hour</td>
<td>&lt; 1 hour</td>
</tr>
<tr>
<td>1-3 hours</td>
<td>1-3 hours</td>
</tr>
<tr>
<td>4-6 hours</td>
<td>4-6 hours</td>
</tr>
<tr>
<td>&gt; 6 hours</td>
<td>&gt; 6 hours</td>
</tr>
</tbody>
</table>

12. Who trains residents in basic focused transthoracic cardiac ultrasound at your institution? (Check all that apply.)

<table>
<thead>
<tr>
<th>Role</th>
<th>Role</th>
</tr>
</thead>
<tbody>
<tr>
<td>Anesthesiologists</td>
<td>Anesthesiologists</td>
</tr>
<tr>
<td>Cardiologists</td>
<td>Cardiologists</td>
</tr>
<tr>
<td>Emergency Physicians</td>
<td>Emergency Physicians</td>
</tr>
<tr>
<td>Sonographers</td>
<td>Sonographers</td>
</tr>
<tr>
<td>Others</td>
<td>Others</td>
</tr>
<tr>
<td>I don't know</td>
<td>I don't know</td>
</tr>
</tbody>
</table>

13. Who trains residents in basic focused transthoracic cardiac ultrasound, if "Other"?

14. How proficient in focused transthoracic cardiac ultrasound do you expect to be upon completion of your residency training?

<table>
<thead>
<tr>
<th>Proficiency Level</th>
<th>Proficiency Level</th>
</tr>
</thead>
<tbody>
<tr>
<td>Not at all proficient</td>
<td>Not at all proficient</td>
</tr>
<tr>
<td>Somewhat proficient</td>
<td>Somewhat proficient</td>
</tr>
<tr>
<td>Moderately proficient</td>
<td>Moderately proficient</td>
</tr>
<tr>
<td>Very proficient</td>
<td>Very proficient</td>
</tr>
</tbody>
</table>

15. Please share any other comments regarding training in focused transthoracic cardiac ultrasound.