

# FoCUS Survey

Dear Colleague,

You are being asked to participate in this survey because you are a member of the Society of Cardiovascular Anesthesiologists. The aims of this study are to assess FoCUS usage in clinical practice; to identify variations in its application; to outline limits to its use; and understand the level of training that physicians using this technology have received.

This study is being conducted by Drs. Frederick Conlin and Neil Roy Connelly (Frederick.Conlin@baystatehealth.org; Neil.Roy.Connelly@baystatehealth.org) of Baystate Medical Center, Tufts University School of Medicine and is being sent to members of the Society of Cardiovascular Anesthesiologists. It should take less than 5 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 your time.

Do you wish to continue the survey?

☐ Yes ☐ No

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## Demographics

Please state your level of training.

- ☐ Resident
- ☐ Fellow
- ☐ Attending 0 to < 5 years of experience
- ☐ Attending 5-10 years experience
- ☐ Attending >10 years experience

How would you classify your type of practice?

- ☐ Academic
- ☐ Private practice
- ☐ Government/Military/VA

Where do you practice?

- ☐ North America
- ☐ Other

Practice location, if "other":

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**Training and Practice**

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Have you completed a cardiothoracic anesthesia fellowship?

☐ Yes ☐ No

Are you familiar with focused cardiac ultrasound (FoCUS), or focused bedside surface echocardiography?

☐ Yes ☐ No

Do you use bedside FoCUS in your clinical practice?

☐ Yes ☐ No

If so, about how often?

☐ daily  
☐ weekly  
☐ monthly  
☐ yearly

If you use FoCUS in your practice, is there a formal credentialing process required by your hospital and or anesthesia department?

☐ Yes ☐ No

If there is a formal credentialing process required by your hospital and/or anesthesia department, check all conditions that apply.

☐ Oversight by anesthesiology department is required  
☐ Oversight by cardiology is required  
☐ Oversight by radiology is required  
☐ Other

Credentialing process, if "other"

In what setting do you utilize FoCUS? (check all that apply)

☐ Preoperative screening  
☐ Estimation of fluid responsiveness/ volume resuscitation  
☐ During Rescue/ Code scenarios  
☐ Intraoperative Assessment  
☐ PACU  
☐ ICU

When you perform a FoCUS exam which do you do? (check all that apply)

☐ No documentation  
☐ Save images into medical record or institutional image archiving system  
☐ Generate a report in the medical record  
☐ Document the use of FoCUS in the anesthesia record

Do you have formal echocardiographic training?

☐ Yes ☐ No

Which types of formal echocardiographic training have you received?

☐ Course on FoCUS  
☐ Formal transthoracic training during residency  
☐ Formal transthoracic training during fellowship  
☐ Formal transesophageal training during residency  
☐ Formal transesophageal training during fellowship  
☐ Other

Formal echocardiographic training, if "other":

Please indicate which NBE competency exams you have passed:

☐ BasicPTeXAM  
☐ PTeXAM  
☐ ASCeXAM  
☐ None of these

Do you think there should be a path to certification in FoCUS, similar to that which is available for Basic TEE?

☐ Yes ☐ No

Are you comfortable teaching FoCUS?

☐ Yes ☐ No

Should FoCUS be incorporated into the anesthesia residency curriculum?

☐ Yes ☐ No

If so, which forms of training should be incorporated?

- ☐ Lectures
- ☐ Simulation
- ☐ Clinical exams under supervision
- ☐ Online resources (image banks, tutorials, remote training modules, apps, etc.)
- ☐ Review of exams with anesthesiology/cardiology faculty
- ☐ Other

Forms of resident training, if "other":

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Have you been involved in a case where the use of FoCUS produced a significant improvement in the care of a perioperative patient?

☐ Yes   ☐ No

Optional, describe the case.

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What do you think are the limitations to the widespread use of FoCUS by anesthesiologists? (check all that apply)

- ☐ Lack of training
- ☐ Lack of resources
- ☐ No path to certification
- ☐ Fear of missing diagnosis or making incorrect diagnosis
- ☐ Objection from the hospital or other departments
- ☐ No limitations