

POCUS Use, Perspectives, and Perceived Barriers

CLINICAL RESEARCH STUDY
INFORMATION SHEET
IRB # Pro00014998

TITLE OF STUDY: Attending Physician Current Use, Perspectives, and Perceived Barriers Towards Adoption of POCUS in Pediatric Medicine and Pediatric Training

PRINCIPAL INVESTIGATOR: Alyssa Abo, MD - Emergency Medicine

INTRODUCTION: Point-of-care ultrasound (POCUS) is being used more widely for diagnostic and procedural guidance across in-patient and out-patient settings. While POCUS education is becoming more common in medical schools and various pediatric fellowships, there is no consensus on POCUS training during residency. There is also no data on current use of POCUS by pediatric attendings across different specialties. There are many barriers and different perspectives towards adoption of POCUS in pediatric medicine, which has yet to be studied.

PROJECT: This survey is aimed at assessing Pediatric Attendings' perspective on the use of point-of-care ultrasound, prior exposure to ultrasound education, and the current state of point-of-care ultrasound use in practice. Additionally, this survey will assess attending physician perspectives on POCUS training in pediatric residency programs. This project will help us better understand the need and areas for improvement in the point-of-care ultrasound education.

RISKS/CONFIDENTIALITY: There is minimal risk associated with this voluntary and anonymous survey questionnaire. You have the option to provide contact information for a follow-up interview study. The contact information will be recorded in a separate database that is not linked to this survey. There is no monetary compensation for participating. Your input will help inform the POCUS curriculum development for pediatric residencies.

VOLUNTARY PARTICIPATION: Your participation in this study is voluntary. By completing this survey, you are consenting to participate in the study.

QUESTIONS: If you have any questions, please email the Principal Investigator, Alyssa Abo at aabo@childrensnational.org.

Demographic Data

How many years have you been an attending?

☐ 1-5 years
☐ 6-10 years
☐ 11-15 years
☐ 16-20 years
☐ >20 years

What is your career specialty?

- ☐ Adolescent Medicine
- ☐ Allergy and Immunology
- ☐ Anesthesia and Pain Medicine
- ☐ Anesthesia, Cardiac
- ☐ Bone Marrow and Transplantation
- ☐ Cardiology
- ☐ Child Abuse, Child and Adolescent Protection
- ☐ Dentistry
- ☐ Dermatology
- ☐ Developmental-Behavioral
- ☐ Gastroenterology
- ☐ Genetic Medicine
- ☐ General Pediatrics
- ☐ Gynecology
- ☐ Emergency Medicine
- ☐ Endocrinology
- ☐ Ethics
- ☐ Hematology
- ☐ Hospice and Palliative Care
- ☐ Hospitalist Medicine
- ☐ Infectious Disease
- ☐ Intensive Care, Pediatric
- ☐ Medical Toxicology
- ☐ Neonatal-Perinatal
- ☐ Nephrology
- ☐ Neurology
- ☐ Oncology
- ☐ Ophthalmology
- ☐ Otolaryngology
- ☐ Pathology
- ☐ Physical Medicine and Rehabilitation
- ☐ Psychiatry
- ☐ Pulmonology
- ☐ Radiology
- ☐ Rheumatology
- ☐ Sleep Medicine
- ☐ Sports Medicine
- ☐ Surgery (all types)
- ☐ Transfusion Medicine
- ☐ Transplant Medicine
- ☐ Urology
- ☐ Other

What type of surgery?

- ☐ Cardiothoracic Surgery
- ☐ Colorectal Surgery
- ☐ General Surgery
- ☐ Hand Surgery
- ☐ Head/Neck Surgery
- ☐ Neurosurgery
- ☐ Orthopedic Surgery
- ☐ Plastic Surgery
- ☐ Trauma Surgery
- ☐ Vascular Surgery
- ☐ Other

Other career specialty:

Other surgical specialty:

What hospital do you work at?

☐ Children's National Hospital
☐ Cohen's Children's Hospital
☐ Children's Hospital of Philadelphia
☐ Lucile Packard Children's Hospital Stanford
☐ Other

Other Hospital: _____

POCUS Definition and Disclaimer

Please choose YES if you agree.

☐ Yes
☐ No

Point-of-Care Ultrasound (POCUS) is an imaging modality performed by the clinician, at the bedside. It is performed by the provider and is used to guide clinical decision making or procedural guidance.

This does NOT include echocardiograms performed by cardiology or comprehensive ultrasounds performed by radiology.

POCUS Current Use

Do you currently use POCUS in your practice?

☐ Yes
☐ No

What do you currently use POCUS for? (Check all that apply)

☐ clinical applications
☐ research
☐ education

Are you currently billing for POCUS in clinical applications?

☐ Yes
☐ No

POCUS Training

Have you ever received POCUS education?

☐ Yes
☐ No

At what point in your career did you receive POCUS education? (Check all that apply)

☐ Medical School
☐ Residency
☐ Fellowship
☐ Attending

Would you be interested in POCUS education?

☐ Yes
☐ No

Perspectives on POCUS Education in Pediatric Residency Programs

Do you support POCUS education in Pediatric Residency Programs?

- ☐ Yes
☐ No

What are some potential barriers to POCUS education in Pediatric Residency Programs?
(Check all that apply)

- ☐ Availability of equipment
☐ Availability of faculty to help train and supervise trainees
☐ Lack of evidence for use of POCUS
☐ Lack of IT infrastructure to perform image review
☐ Lack of trained POCUS-trained Pediatric House Staff
☐ Lack of proper guidelines for use
☐ Money to support program initiatives and equipment
☐ Time needed to obtain images
☐ Time needed to obtain skills
☐ Other

If other, please explain

Which ONE barrier do you think is most influential?

- ☐ Availability of equipment
☐ Availability of faculty to help train and supervise trainees
☐ Lack of evidence for use of POCUS
☐ Lack of IT infrastructure to perform image review
☐ Lack of trained POCUS-trained Pediatric House Staff
☐ Lack of proper guidelines for use
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☐ Time needed to obtain images
☐ Time needed to obtain skills
☐ Other

POCUS Perspectives

	Not at all Important	Slightly Important	Important	Somewhat Important	Very Important	No opinion
How important is the utilization of POCUS in the education of our trainees?	☐	☐	☐	☐	☐	☐
How important is POCUS as a skill in pediatrics?	☐	☐	☐	☐	☐	☐
How important is it for POCUS to be a procedural requirement for pediatric residents?	☐	☐	☐	☐	☐	☐
In the last month, how important would POCUS have been in the care of your patients?	☐	☐	☐	☐	☐	☐
How important is POCUS in improving patient care?	☐	☐	☐	☐	☐	☐