1. Do you consider yourself fully retired—that is, no longer regularly working for pay, either part-time or full-time, in any medical or non-medical occupation?

(Circle Only One)
Yes .................................... 1 Go to Question 9
No, I still work for pay ........ 5 Go to Question 2

1b. In what area(s) do you currently work?

<table>
<thead>
<tr>
<th>AREA</th>
<th>(Circle All That Apply)</th>
</tr>
</thead>
<tbody>
<tr>
<td>a.</td>
<td>Emergency Medicine (EM) ................................................................. 1</td>
</tr>
<tr>
<td></td>
<td>--includes EM clinical, administrative, academic, &amp; consulting</td>
</tr>
<tr>
<td>b.</td>
<td>EM subspecialty ............................................................................ 1</td>
</tr>
<tr>
<td></td>
<td>--includes Addiction Medicine, Anesthesiology Critical Care Medicine (ACCM), Brain Injury Medicine, Clinical Informatics, Emergency Medical Services (EMS), Hospice and Palliative Medicine (HPM), Internal Medicine–Critical Care Medicine (IM-CCM), Medical Toxicology (MedTox), Pain Medicine, Pediatric EM (PedEM), Sports Medicine (SPM), Surgical Critical Care (SCC), and Undersea and Hyperbaric Medicine (UHM)</td>
</tr>
<tr>
<td>c.</td>
<td>Urgent care .................................................................................. 1</td>
</tr>
<tr>
<td>d.</td>
<td>Internal medicine ......................................................................... 1</td>
</tr>
<tr>
<td>e.</td>
<td>Occupational medicine .................................................................. 1</td>
</tr>
<tr>
<td>f.</td>
<td>Physical &amp; rehabilitative medicine .............................................. 1</td>
</tr>
<tr>
<td>g.</td>
<td>Other medical (non-EM) (Please specify) ......................................... 1</td>
</tr>
<tr>
<td>h.</td>
<td>Other (non-medical) (Please specify) ............................................... 1</td>
</tr>
</tbody>
</table>

2. In which applications of ultrasound have you received training (during residency or otherwise)?

a. None ....1 Go to Question 4
(b) Biliary ultrasound (gallbladder) ........................................................................... 1
| c. Cardiac ultrasound/emergency echocardiography .............................................. 1 |
| d. Ultrasound-guided vascular access ..................................................................... 1 |
| e. Other procedural ultrasound (abscess or foreign body localization, paracentesis, thoracentesis, nerve blocks, etc.) ................................................................. 1 |
| f. Renal ultrasound ................................................................................................. 1 |
| g. Trauma ultrasound/FAST (Focused Assessment with Sonography for Trauma) .... 1 |
| h. Ultrasound in pregnancy ..................................................................................... 1 |
| i. Ultrasound of abdominal aorta ........................................................................... 1 |
Other (Please specify) ................................................................................................. 1

3. Please estimate how many hours of training you have received in ultrasound. _______ hours
4. What educational resource(s) have you used for training in the use of ultrasound?
   a. None....1  Go to Question 5
   
   (Circle All That Apply)
   b. Animal model .................................................................1
   c. Computer simulation .....................................................1
   d. DVD/CD program ..........................................................1
   e. Mannequin or manufactured model (“Blue Phantom” or similar) .................1
   f. Online educational resource ...........................................1
   g. Textbook ........................................................................1
   h. Training during residency ...............................................1
   i. Ultrasound course ..........................................................1
   Other (Please specify) ________________________________________1

5. Approximately what percentage of central venous catheters do you place using ultrasound guidance? ______ %

6. How comfortable are you using ultrasound guidance for central venous catheter insertion?
   (Circle Only One)
   Very comfortable .......... 1
   Comfortable .................. 2
   Uncomfortable .............. 3
   Very uncomfortable ........ 4

7. Please identify any reasons why you do not use ultrasound guidance to place central venous catheters (either in general, or in specific instances).
   a. I always use ultrasound guidance ...1  Go to Question 8
   
   (Circle All That Apply)
   b. Central lines for ED patients are placed by other services (e.g. surgery, critical care, interventional radiology) .................................................................1
   c. Don’t have the right equipment ........................................1
   d. No benefit over landmark (traditional) approach .....................1
   e. No specific training, or not enough training, in ultrasound-guided vascular access . 1
   f. Preferred anatomic site not amenable to ultrasound guidance ............1
   g. Ultrasound guidance requires too much time to perform ..................1
   h. Technique too difficult or awkward ......................................1
   Other (Please specify) ________________________________________1

8. Approximately how many ultrasound examinations do you perform per month? ______ ultrasounds

9. PLEASE MAKE ANY NEEDED CORRECTIONS TO THIS INFORMATION

COMMENTS: Please include any comments you have about this survey or issues related to Emergency Medicine and ABEM. Please print clearly so your comments can be noted.

___________________________________________________________________________________________________________________________________________

Please return your survey to ABEM at your earliest convenience. Thank you for your generous support. If ABEM can be of assistance, please call (517) 332-4800 or email us at research@abem.org.