

Knowledge of essential regional ultrasound anatomy in an academic Department of Anaesthesiology and Critical Care

Supplement 1

Survey tool

Please choose the appropriate selection that is applicable to you in the questionnaire below. You will be required to answer all the questions; otherwise, your response will be discarded.

1. What is your role in the Department of Anaesthesia and Critical Care (DACC)?

- ☐ Consultant with less than five years of specialist experience
- ☐ Consultant with more than 5–10 years of specialist experience
- ☐ Consultant with more than 10 years of specialist experience
- ☐ Registrar with less than two years of formal registrar training
- ☐ Registrar with more than two years of formal registrar training
- ☐ Medical officer with less than two years of experience in anaesthesia
- ☐ Medical officer with more than two years of experience in anaesthesia

2. Please choose your highest qualification:

- ☐ None
- ☐ Diploma in anaesthesia
- ☐ FCA or equivalent
- ☐ Subspecialist/fellowship

3. What is the average number of peripheral nerve blocks that you perform per week?

- ☐ 0–5
- ☐ 6–10
- ☐ 11–15
- ☐ > 15

4. Regarding the technique used to perform peripheral nerve blocks, which do you use?

- ☐ Landmark technique only
- ☐ Landmark technique and a nerve stimulator
- ☐ Ultrasound guidance only
- ☐ Ultrasound guidance and a nerve stimulator

5. Which blocks do you perform most regularly? (Choose up to five.)

- ☐ Transversus abdominis plane (TAP) block
- ☐ Supraclavicular block
- ☐ Interscalene block
- ☐ Axillary nerve block
- ☐ Superior trunk block
- ☐ Subcostal TAP block
- ☐ Quadratus lumborum block
- ☐ Erector spinae block
- ☐ Rectus sheath block
- ☐ Femoral nerve block
- ☐ Obturator nerve block
- ☐ Fascia iliaca infrainguinal
- ☐ Fascia iliaca suprainguinal
- ☐ Popliteal sciatic block
- ☐ Adductor canal block
- ☐ Ankle block
- ☐ Wrist block
- ☐ Other (please specify) _____

6. Do you use any of the following online applications regularly?

- ☐ NYSORA
- ☐ ESRA
- ☐ YouTube
- ☐ AnSo
- ☐ Other

7. Rate your knowledge of regional ultrasound anatomy on a scale of 1 to 5, where 1 = novice and 5 = expert.

- ☐ 1
- ☐ 2
- ☐ 3
- ☐ 4
- ☐ 5

8. Are you aware of **all** the known risks/complications of each of the blocks you commonly perform?

- ☐ Yes
- ☐ No
- ☐ Not sure

9. Regarding informed consent for peripheral nerve blocks, choose the option most applicable to you.

- ☐ I do not take consent
- ☐ I always take verbal consent (quick)
- ☐ I always take verbal consent (detailed)
- ☐ I always take written consent with a detailed explanation

10. Regarding performing nerve blocks in adults (excluding interfascial plane blocks):

- ☐ I always do nerve blocks awake
- ☐ I always do nerve blocks asleep
- ☐ I do a combination of asleep and awake nerve blocks

11. Regarding performing the peripheral nerve block, if you cannot visualise the sonoanatomy clearly, do you continue with the block?

- ☐ Yes
- ☐ Sometimes
- ☐ Usually
- ☐ Never

12. Do you think the ultrasound-guided performance of a regional technique is an important skill for all anaesthetists?

- ☐ Yes
- ☐ No
- ☐ Useful but not essential

13. What do you feel are barriers to performing ultrasound-guided peripheral nerve blocks in your setting? (Select all that apply.)

- ☐ Lack of confidence and knowledge of anatomy
- ☐ Surgical factors (type of surgery)
- ☐ Lack of time
- ☐ Pressure from the surgeon
- ☐ Lack of own skills and knowledge of practical abilities
- ☐ Lack of appropriate equipment
- ☐ Patient refusal

14. If you do perform peripheral nerve blocks, how did you gain the knowledge and skill to perform them? (Select all that apply.)

- ☐ Self-trained
- ☐ Peer-to-peer training
- ☐ Use of online applications and videos
- ☐ Formal accredited teaching programme (workshops, formal online courses)

15. Do you feel that a formal teaching programme will be beneficial in improving your regional anaesthesia skills?

- ☐ Yes
- ☐ Maybe
- ☐ No

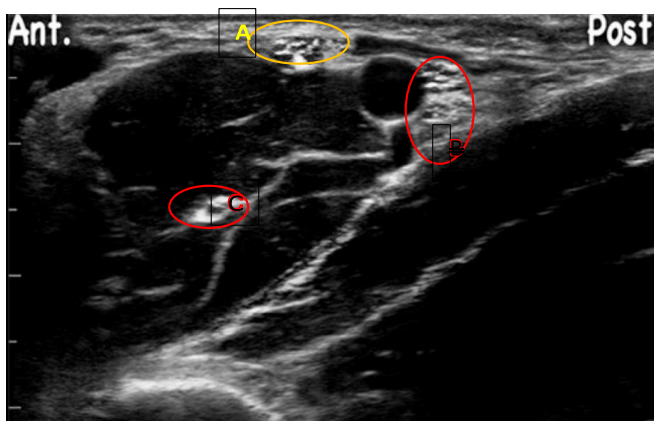
16. Which learning platform would you prefer to learn or improve your skill set and performance of peripheral nerve blocks?

- ☐ Online workshops/webinars
- ☐ Simulation-based training
- ☐ Hands-on workshops (cadavers, scanning live patients)
- ☐ All of the above
- ☐ None

For the next seven questions that follow, please note that you will have one minute per question. Any unanswered questions will be considered an incorrect response. Please do not answer using abbreviations. Remember, your response is anonymous. Please try to answer the questions as honestly as possible. Thank you for your time and response.

"Plan A blocks" are now internationally accepted as the essential blocks for a qualified anaesthetist to be able to perform. To be able to perform these essential blocks, knowledge of regional ultrasound anatomy is essential. In each question, an image of these essential blocks will be shown. Please identify the block demonstrated with ultrasound anatomy and label the structures.

Question 17



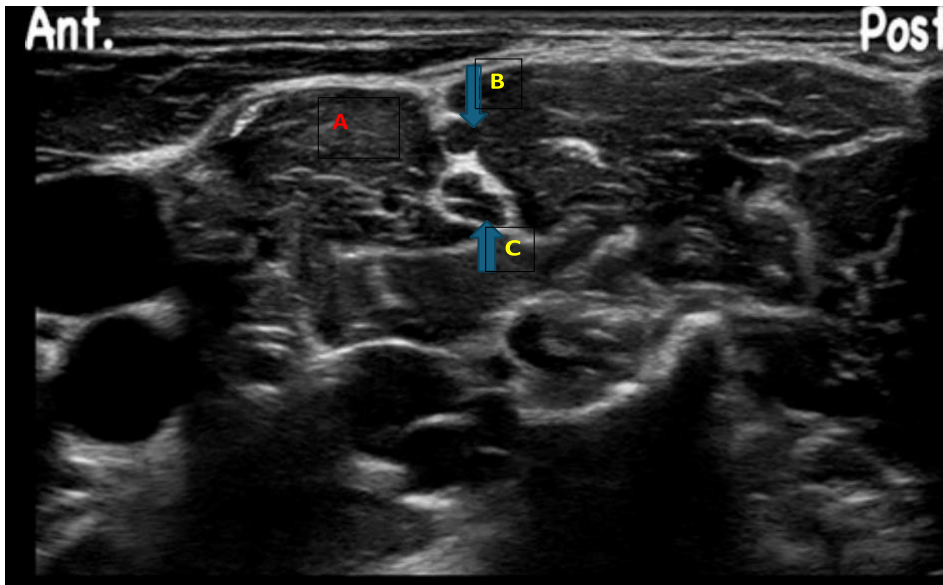
17.1 Name the block that would be performed here. _____

17.2 Label structure A. _____

17.3 Label structure B. _____

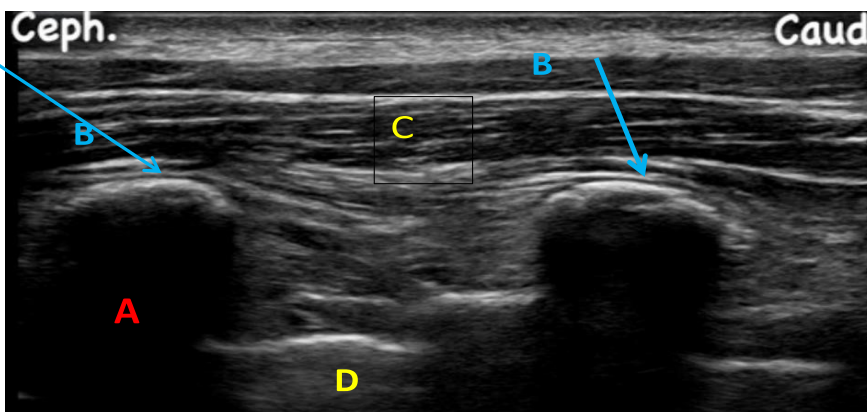
17.4 Label structure C. _____

Question 18



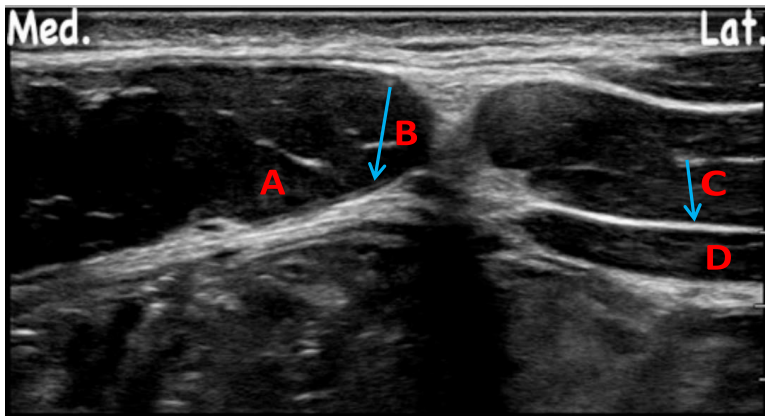
- 18.1 Name the block performed here. _____
- 18.2 Label structure A. _____
- 18.3 Label structure B. _____
- 18.4 Label structure C. _____
- 18.5 What is **the most** common complication experienced with this block?

Question 19



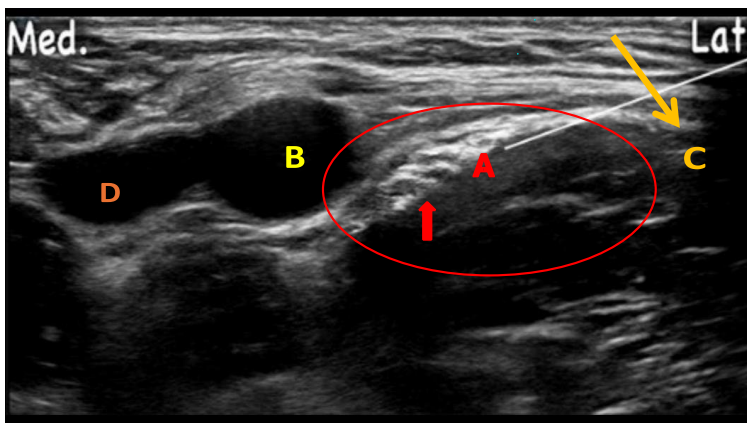
- 19.1 Name the block performed at B. (Hint: this block is done laterally to the spinous processes as demonstrated.) _____
- 19.2 Label structure A. _____
- 19.3 Label muscle C. _____
- 19.4 Label D. _____

Question 20



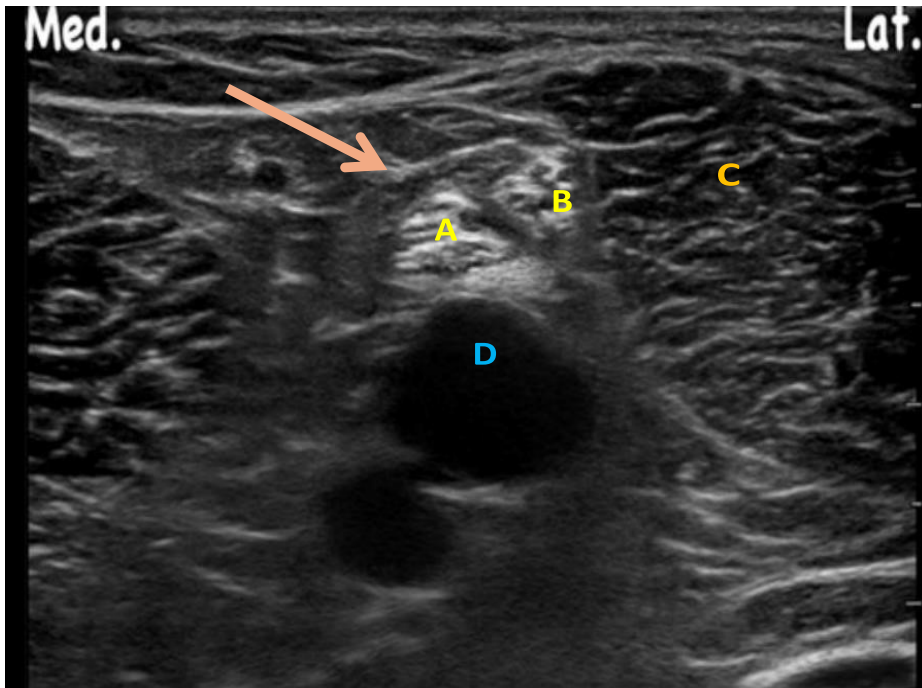
- 20.1 Name the block that is done at B. _____
- 20.2 Name the block that is done at C. _____
- 20.3 Label muscle A. _____
- 20.4 Label structure D. _____

Question 21



- 21.1 Which block is demonstrated here? _____
- 21.2 Label structure A. _____
- 21.3 Label structure B. _____
- 21.4 Label structure C. _____
- 21.5 Label structure D. _____

Question 22



22.1 Name the block performed indicated by the arrow.

22.2 Label structure A. _____

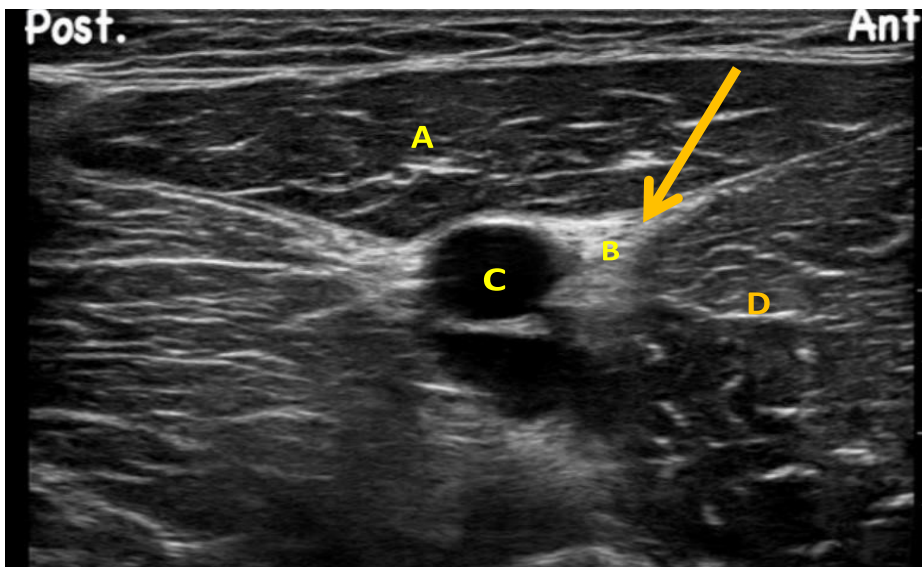
22.3 Label structure B. _____

22.4 Label structure C. _____

22.5 Label structure D. _____

22.6 Name a common complication of this block. _____

Question 23



23.1 Name the block performed at the indicated site (arrow).

23.2 Label structure A. _____

23.3 Label structure B. _____

23.4 Label structure C. _____

23.5 Label structure D. _____

23.6 Name a procedure that this block is commonly used for.