

## Regional

It is expected that this unit will often be completed in conjunction with the higher unit in orthopaedic surgery.

### **Learning outcomes:**

- Captures the maturation process and continues to develop understanding and skills gained at the intermediate level
- Demonstrate proficiency in managing the regional techniques learnt during that time under distant supervision
- Increase the range of block techniques practiced
- Increased understanding of, and skill in, the use of ultrasound in regional anaesthesia
- Take appropriate opportunities to use regional anaesthesia as part of the anaesthetic technique when clinically indicated
- Become skilled in performing some more complex blocks with distant supervision
- Has appropriately integrated regional anaesthetic practice into the range of clinical alternatives within their practice

### **Core clinical learning outcomes:**

- Demonstrates ability to perform both lower and upper limb plexus/regional blocks with distant supervision
- Always considers the option of regional anaesthesia in appropriate clinical contexts

| <b>Knowledge</b>  |  |                           |            |
|-------------------|--|---------------------------|------------|
| <i>Competence</i> | <i>Description</i>   | <i>Assessment Methods</i> | <i>GMP</i> |
| RA_HK_01          | Discusses the principles, practice and complications of continuous catheter techniques for peripheral nerve blocks   | A,C                       | 1,2        |
| RA_HK_02          | Discusses the principles, practice and complications of the use of continuous spinal anaesthetic blockade  | A,C                       | 1,         |
| RA_HK_03          | Discusses the principles of the use of ultra sound for guiding nerve/plexus blocks and the insertion of catheters including, but not exclusively:<br>Explaining the mechanisms by which hyperechoic, hypoechoic and anechoic images are obtained<br>Explaining the difference and uses of 'B' mode [bright] and 'M' mode [Motion] ultrasound | A,C                       | 1,         |

| <b>Skills</b>     |  |                          |            |
|-------------------|--|--------------------------|------------|
| <i>Competence</i> | <i>Description</i>   | <i>Assessment method</i> | <i>GMP</i> |
| RA_HS_01          | <p>Demonstrates the ability to develop a peri-operative management plan and perform safely and effectively a number of the following blocks under distant supervision using either/or peripheral nerve stimulation or ultrasound guidance [those marked with an asterisk are considered essential, the remainder are optional]:</p> <ul style="list-style-type: none"> <li>• Peripheral nerve blocks [e.g. femoral nerve]*</li> <li>• Brachial plexus*</li> <li>• Deep cervical plexus blocks</li> <li>• Supra and infra clavicular blocks</li> <li>• Intercostal nerve blocks</li> <li>• Thoracic epidural anaesthesia*</li> <li>• Lumbar plexus blocks</li> <li>• Sciatic blocks</li> <li>•</li> </ul> | A,D                      | 1,2,3,     |
| RA_HS_02          | Demonstrates clinically relevant sonoanatomy of the brachial & lumbosacral plexus [upper and lower limb] with reference to performing recommended regional anaesthetic techniques  | A,D                      | 1,2        |
| RA_HS_03          | Can demonstrate local anaesthetic injection and circumferential spread around the intended nerve / plexus  | A,D                      | 1          |
| RA_HS_04          | Demonstrates correct needling technique using either an in or out of plane approach with ultrasound [Cross ref vascular and intensive care]  | A,D                      | 1          |
| RA_HS_05          | Demonstrates good communication skills when managing patients who requires regional blockade and the staff responsible for surgical and nursing care   | A,D,M                    | 1,2,3,4,   |
| RA_HS_06          | Demonstrates ability to lead discussions on appropriateness of a regional technique for surgery and post-operative analgesia   | A,D                      | 1,2,3,4,   |
| RA_HS_07          | Demonstrates the ability to co-ordinate and manage a list with suitable patients for regional blockade including liaising with surgeons, theatre nursing and anaesthetic staff   | A,D,M                    | 1,2,3,4,   |
| RA_HS_08          | Demonstrates the ability to supervise and teach regional anaesthetic techniques to less experienced trainees, whilst recognising the limitations of their expertise  | A,D,M                    | 1,2,3,4    |