

# **Definitive Surgical Trauma Skills (DSTS)**

**19 & 20 April 2021**

**The Royal College of Surgeons of Edinburgh**

## **Course Programme**

**Course Directors**

Professor Mansoor Ali Khan & Mr Morgan P. McMonagle

## Course Programme

| Day One            |                                                                                                                                                                                        |
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| 0800 – 0815        | Faculty meeting                                                                                                                                                                        |
| <b>0800 – 0815</b> | <b>Registration and refreshments</b>                                                                                                                                                   |
| 0815 – 0830        | <b>Introduction and themes</b>                                                                                                                                                         |
| 0830 – 0910        | <b>Damage Control Philosophy</b>                                                                                                                                                       |
| 0910 – 0945        | <b>Review of thoracic trauma</b>                                                                                                                                                       |
| 0945 – 1100        | <b>Practical: Thoracic trauma 1</b><br>Penetrating chest injury<br>Finger thoracostomies<br>Left anterolateral thoracotomy<br>Clamshell thoracotomy<br>Repair of cardiac injuries      |
| <b>1100 – 1115</b> | <b>Refreshments</b>                                                                                                                                                                    |
| 1115 – 1230        | <b>Practical: Thoracic trauma 2</b><br>Hilar injuries<br>Pulmonary injuries<br>Superior mediastinum<br>Closure and drains                                                              |
| <b>1230 – 1300</b> | <b>Lunch</b>                                                                                                                                                                           |
| 1300 – 1330        | <b>Principles of vascular trauma</b><br>Vascular trauma<br>Vascular control and dissection<br>Vascular damage control<br>Junctional zone injuries<br>Endovascular techniques and REBOA |
| 1330 – 1500        | <b>Practical: Penetrating neck injuries</b><br>Trauma airway<br>Management of penetrating neck injuries<br>Median sternotomy and control of arch vessels                               |
| <b>1500 – 1515</b> | <b>Refreshments</b>                                                                                                                                                                    |
| 1515 – 1700        | <b>Practical: Thoracic outlet and upper limb injuries</b><br>Subclavian artery injuries<br>Axillary artery injuries<br>Brachial artery injuries<br>Forearm fasciotomy                  |
| 1700 – 1715        | <b>Discussion and feedback</b>                                                                                                                                                         |
| 1715 – 1730        | <b>Finish / faculty meeting</b>                                                                                                                                                        |

| Day Two            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
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| 0815 - 0830        | <b>Registration and refreshments</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 0830 – 0945        | <b>Ballistics</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| 0945 – 1100        | <b>Practical: Lower limb trauma</b><br>Ileo-femoral injuries<br>Popliteal injuries<br>Principles of tourniquet use<br>Shunting techniques<br>Lower limb fasciotomy<br>External pelvic binding<br>Extraperitoneal pelvic packing 1                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>1100 – 1115</b> | <b>Refreshments</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| 1115 – 1230        | <b>Practical: Lower limb trauma continued</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>1230 – 1300</b> | <b>Lunch</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| 1300 – 1330        | <b>Trauma Laparotomy</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| 1330 – 1615        | <b>Practical: Abdominal – pelvic trauma</b><br>Trauma laparotomy and damage control<br>Supraceliac control of the aorta<br>Extraperitoneal pelvic packing 2<br>Approach to abdominal organ injuries: <ul style="list-style-type: none"> <li>• Spleen</li> <li>• Liver</li> <li>• Renal</li> <li>• Small and large bowel</li> </ul> Retroperitoneal injuries: <ul style="list-style-type: none"> <li>• Right medial visceral rotation and IVC injuries</li> <li>• Retrohepatic IVC injury</li> <li>• Left medial visceral rotation and aortic injuries</li> <li>• Visceral aortic injuries</li> </ul> Temporary abdominal closure<br>Stage II damage control surgery |
| <b>1615 – 1630</b> | <b>Refreshments</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| 1630 – 1730        | <b>Discussion and summary scenarios</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>1730</b>        | <b>Finish / faculty meeting</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |