



Royal College
of Surgeons

ADVANCING SURGICAL CARE

Clinical Skills in Emergency Surgery

[date]

Programme

Course Director

[name]
[position]
[hospital]

Acknowledgements

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Faculty List

| Course Director | |
|---------------------------------|--|
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| Faculty | |
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| Administrative / Technical Team | |
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Course Programme

Day One

| Time | Content | Faculty |
|-----------|---|---------|
| 0830-0900 | Faculty Meeting | |
| 0830-0900 | Registration and Refreshments | |
| 0900-0920 | Introduction to course by Directors and faculty <ul style="list-style-type: none"> • Overview of the format and aims of the course. • Introduction of faculty and participants. • Discussion and review of online tasks. • Assessment of skills. <u>Learning outcomes</u> <ul style="list-style-type: none"> ➤ <i>To discuss the level of experience and challenges for the trainees.</i> | |
| 0920-1100 | Revision Video & discussions followed by Skills practice. <ul style="list-style-type: none"> • Knots • Abdominal closure and principles of suturing <u>Learning outcomes</u> <ul style="list-style-type: none"> ➤ <i>To accurately carry out a range of sutures and utilise a variety of knots with regard to the difficulty of closure</i> | |
| 1100-1115 | Refreshments | |
| 1115-1300 | Difficult closure & Bowel anastomosis Interactive discussion – infection, difficult abdominal closure, followed by Skills practice – work in pairs. <ul style="list-style-type: none"> • Difficult closure (interactive discussion) • Small bowel anastomoses • End to end – interrupted <u>Learning outcomes</u> <ul style="list-style-type: none"> ➤ <i>To demonstrate sound practice in bowel anastomosis using a variety of techniques</i> | |
| 1300-1345 | Lunch | |
| 1345-1515 | Bowel anastomosis Demonstration of clamps (different types and their uses) followed by Skills practice. <ul style="list-style-type: none"> • Use of clamps • Size discrepancy (video then skills) • Perforated duodenal ulcer (video then skills) <u>Learning outcomes</u> <ul style="list-style-type: none"> ➤ <i>To discuss the different types of clamps and the benefits and uses of each.</i> ➤ <i>Describe the management of ulcer perforations.</i> | |
| 1515-1530 | Refreshments | |

| Time | Content | Faculty |
|-----------|--|---------|
| 1530-1730 | Bowel anastomosis moderately difficult access Introduction and demonstration followed by Skills practice. <ul style="list-style-type: none"> • End to side • Posterior/submucosal • Vertical mattress <u>Learning outcomes</u> <ul style="list-style-type: none"> ➤ To carry out a difficult access sutured anastomosis, to include posterior and submucosal. | |
| 1730-1745 | Feedback and review of day To have carried out three accurate anastomoses by end of day | |
| 1745-1800 | Faculty Meeting | |

Day Two

| Time | Content | Faculty |
|-----------|---|---------|
| 0845-0900 | Refreshments | |
| 0900-1015 | Stomas When are they needed, what types are there? Interactive discussion – when are they needed/how formed followed by Skills practice – end-to-end and colostomy. <ul style="list-style-type: none"> • Discussion – double barrelled & end • Skills exercise: end-to-end and colostomy <u>Learning outcomes</u> <ul style="list-style-type: none"> ➤ To be able to discuss the types of stomas and why each may be formed. ➤ To form a variety of viable stomas taking into consideration incision and possible complications. | |
| 1015-1100 | Refreshments & Demonstrations Demonstrations by stapler reps (Ethicon and Medtronic) – different devices and uses of each. Interactive demonstration followed by Skills practice . | |
| 1100-1200 | Stapled anastomosis Skills practice. <ul style="list-style-type: none"> • Side-to-side • Close holes (two different ways) <u>Learning outcomes</u> <ul style="list-style-type: none"> ➤ To discuss the merits and shortfalls of stapling anastomosis. ➤ To carry out side to side and transverse stapling anastomosis. | |
| 1200-1245 | Lunch | |

| Time | Content | Faculty |
|-----------|---|--------------------|
| 1245-1515 | <p>Vascular for emergency Introduction of Vascular Surgery for the Emergency Surgeon and vein patch video, followed by Skills practice and videos.</p> <p>Discussion of the range of vascular interventions that would be carried out in an emergency situation, to cover:</p> <ul style="list-style-type: none"> • Instruments • Mobilisation and control • Control of bleeds (permanent) and until help arrives <p>Skills practice:</p> <ul style="list-style-type: none"> • Arterial closure • Vein patching <p><u>Learning outcomes</u></p> <ul style="list-style-type: none"> ➤ <i>To be able to discuss the responsibilities and limitations of a general surgeon regarding vascular surgery in an emergency situation.</i> ➤ <i>Defining the limitations in a non-vascular hospital.</i> ➤ <i>To be able to name and know the uses of the vascular specific instruments.</i> ➤ <i>To be able to mobilise vessels to enable initial emergency control of a bleed.</i> ➤ <i>To be able to carry out emergency arterial closure and vein patching.</i> | |
| 1515-1530 | Refreshments | |
| 1530-1715 | <p>Assessment of skills</p> <ul style="list-style-type: none"> • End-to-side small bowel anastomosis • Difficult access • Hand sewn <p><u>Learning outcomes</u></p> <ul style="list-style-type: none"> ➤ <i>To accurately carry out a hand sewn end to side anastomosis.</i> | All faculty |
| 1715-1745 | Feedback of assessment by faculty | All faculty |
| 1745-1800 | Faculty meeting | All faculty |

Day Three

| Time | Content | Faculty |
|-----------|--|---------|
| 0845-0900 | Refreshments | |
| 0900-0930 | <p>Energy sources</p> <ul style="list-style-type: none"> • Discussion followed by interactive demonstration. • Review of different energy sources including diathermy <p><u>Learning outcomes</u></p> <ul style="list-style-type: none"> ➤ <i>To be able to discuss the use of energy sources and to demonstrate their safe use.</i> | |

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| 0930-1045 | <p>Laparoscopic appendicectomy Introduction - video review and discussion followed by Skills practice.</p> <ul style="list-style-type: none"> • Laparoscopic appendix <p><u>Learning outcomes</u></p> <ul style="list-style-type: none"> ➤ <i>To demonstrate the ability to effectively manipulate laparoscopic instruments.</i> ➤ <i>To discuss how to carry out a laparoscopic appendix with due regard to surrounding tissue.</i> | |
| 1045-1100 | Refreshments | |
| 1100-1200 | <p>Basic laparoscopic safety aspects, complicated access Interactive lecture and small group discussion.</p> <ul style="list-style-type: none"> • Diagnostic laparoscopy • Laparoscopic access techniques • Open techniques <p><u>Learning outcomes</u></p> <ul style="list-style-type: none"> ➤ <i>To review the process of a complicated diagnostic laparoscopy with regard to the anatomy of access.</i> | |
| 1200-1245 | <p>‘Walking the bowel’</p> <ul style="list-style-type: none"> • A guided tour of the anatomy of the bowel. • Skills practice <p><u>Learning outcomes</u></p> <ul style="list-style-type: none"> ➤ <i>To review and describe the anatomy of the bowel.</i> | |
| 1245-1345 | Lunch | |
| 1345-1530 | <p>Open Hernia Intro - video and discussion followed by Skills practice.</p> <ul style="list-style-type: none"> • Femoral (low approach) <p><u>Learning outcomes</u></p> <ul style="list-style-type: none"> ➤ <i>To discuss the techniques shown on video</i> ➤ <i>To practice the repair of a femoral hernia.</i> | |
| 1530-1600 | <p>Feedback and Close Round up of the course, discussion and feedback to participants.</p> <p><u>Learning outcomes</u></p> <ul style="list-style-type: none"> ➤ <i>To review outcomes of the three days and feedback areas of development.</i> | |
| 1600-1615 | Faculty meeting | All faculty |