



Royal College
of Surgeons

ADVANCING SURGICAL CARE

Surgical Training for Austere Environments

Programme

Course Director:

Mr David Nott

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Acknowledgements

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Course Programme

Day One: Airway, Breathing and Circulation			
<i>Time</i>	<i>Content</i>	<i>Faculty</i>	<i>Room</i>
0745-0800	Registration and Refreshments		RECP
0800-0810	Introduction and Course Themes	David Nott	LT
0810-0830	Damage Control	David Nott	LT
0830 - 0900	Anaesthetics in the Austere Environment		LT
0900	Changing and moving to lab		
0900-0930	Management of the Airway Cricothyroidotomy Tracheostomy	Moderator David Nott Faculty TBC	MSSSC
0930 - 1100	THORACOTOMY FOR CHEST INJURIES Left Anterolateral Thoracotomy Clamshell Thoracotomy Repair of Atrial and Ventricular Injuries The Hilum Pulmonary Injuries Closure and Drains	Moderator David Nott Faculty TBC	MSSSC
1100 - 1115	Coffee		4FRA
1115 - 1130	Vascular Didactic	Moderator David Nott	MSSSC
1130 - 1230	Neck Injuries Carotid Patching Techniques	Moderator David Nott Faculty TBC	MSSSC
1230 - 1300	Lunch		

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1300-1400	Exposure of Subclavian artery Exposure of Axillary artery Brachial Vessels Patch Repair Brachial Artery Arm Fasciotomy	Moderator David Nott Faculty TBC	MSSSC
1400 - 1445	Exposure of Groin Vessels Shunting of Groin Vessels	Moderator David Nott Faculty TBC	MSSSC
1445 - 1500	Refreshments		
1500 - 1700	Thigh and Leg Fasciotomy End to End Anastomosis Vein Patch Reversed Vein Bypass Vascular Shunts	Moderator David Nott Faculty TBC	MSSSC
1700-1715	Refreshments		4FRA
1715 - 1900	Paediatric Surgery and anaesthesia		LT
1900	Finish		

Day Two: General Surgery and Facial Trauma			
Time	Content	Faculty	Room
0750	Signing in & Refreshments		MSSSC
0800- 0830	Ballistics	Harald Veen	LT
0830 - 1530	Appendicectomy Hernia Repair Trauma Laparotomy: Supracoeliac compression Pelvic Trauma: Internal iliac ligation Stomach Injuries, Splenectomy Management of Liver Injuries Duodenal Injury Pancreatic Injury	Moderator David Nott Faculty TBC	MSSSC
1100-1115	Refreshments		MSSSC
	R to L Visceral Medial Rotation/IVC Repair Renal Repair and Nephrectomy Small Bowel Resection and Anastomosis		MSSSC
1230 - 1330	Lunch		MSSSC
1330 - 1430	Right Hemicolectomy and anastomosis Left hemicolectomy and Hartmanns procedure Rectal Injuries Stomas, Ileostomy and Colostomy Demo: component separation		MSSSC
1430 - 1545	Neurosurgery	David Nott	
1545 - 1600	Refreshments		MSSSC
1600-1800	Maxillo –facial Injuries Teeth wiring Maxillary wiring Eye Injuries	Moderator TBC Faculty TBC	MSSSC
1800	Finish		

Day Three: Plastic Surgery			
<i>Time</i>	<i>Content</i>	<i>Faculty</i>	<i>Room</i>
0745-0800	Signing in & Refreshments		MSSSC
0800-0805	Programme overview		MSSSC
0805-0900	Burns	TBC	MSSSC
0900 - 0930	Flaps lecture - key points Defects you need to be able to fill	TBC	MSSSC
0930 - 1030	SKIN GRAFT : split skin Full thickness Pinch Grafts	Moderator TBC Faculty TBC	MSSSC
1030 - 1100	LOWER LIMB 1: Defect upper third leg medial gastroc flap	Moderator TBC	MSSSC
1100-1115	Refreshments		MSSSC
1115 - 1200	LOWER LIMB 2: Defect middle third leg fasciocutaneous perforator flap soleal flap	Moderator	MSSSC
1200- 1300	LOWER LIMB 3: Defect Lower Third Saphenous flap Cross leg flap Sural Flap	Moderator	MSSSC
1300-1330	Lunch		MSSSC

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1330 - 1415	HAND: groin flap	Moderator	MSSSC
1415 - 1500	Upper limb: Defect arm/forearm adhoc perforator flap	Moderator	
1500 - 1515	Refreshments		4FRA
1515-1600	Upper limb/shoulder/chest defect lat dorsi flap Deltopectoral flap	Moderator TBC	WSSC
1600 - 1615	Lecture: Random pattern flaps for face / small defects	TBC	
1630 - 1730	Rhomboid/Bilobe/ Z plasty	TBC	LT
1730 - 1800	Tendon repair Large nerve repair	Moderator	MSSSC
1800	Finish		

Day Four: Orthopaedic Trauma			
Time	Content	Faculty	Room
0745-0800	Signing in & Refreshments		MSSSC
0800 - 1000	Orthopaedic lecture Management of upper limb and lower limb injuries When to use plastering and skin traction Examples How to do it...	Moderators Faculty	MSSSC
1000 - 1230	Fracture management When to do traction, when to do external fixation Examples How to do it....	Moderators Faculty	MSSSC
1230 - 1330	Lunch		MSSSC
1330 - 1415	Damage Control Pelvic Trauma and ex fix	Moderators Faculty	MSSSC
1415 - 1500	Internal Fixation – sign nail Management of fracture using K wires Examples... How to do it	TBC	
1500 - 1530	Management of Osteomyelitis and Chronic Wounds Advanced Wound Debridement		
1530 - 1545	Refreshments		MSSSC

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1545 - 1730	Amputations Digit BKA AKA Forequarter Hindquarter	Moderators Faculty	MSSSC
1730	Course conclusion: What happens next?	David Nott	MSSSC

Day Five: Obstetrics and Gynaecology

0900-0920	Registration and refreshments	
0920-0930	Welcome and introduction	
0930-1000	Managing the difficult Caesarean Section	
1000-1020	Ruptured Uterus	
1020-1040	Caesarean Hysterectomy	
1040-1100	Break	

Order of training rotations

You will be split into 3 groups (A, B and C). Your group will be identified by the colour of your badge.

The station names will be up on the wall outside each room.

Group A – Red

Group B – Green

Group C – Blue

Stations			
	Normal Delivery	Fully Dilated Section	Post Partum Haemorrhage
1100-1135	A	B	C
1135- 1210	C	A	B
1210-1245	B	C	A
1245 – 1330	Lunch		

Stations			
	Difficult Delivery C-section floating head and Breech	Perineal Trauma	Destructive Craniotomy
1330-1400	A	B	C
1400-1430	C	A	B
1430-1500	B	C	A
15.00 – 15.20 Break			

Stations			
	Gynaecology	Neonatal Resuscitation	10 cases
1520-1550	A	B	C
1550-1620	C	A	B
1620-1650	B	C	A
1650-1700	Feedback and Close		
1710-1730	Faculty Meeting		

Key to Rooms	
MSSSC	Manchester Surgical Skills and Simulation Centre, 3 rd Floor
RECP	Ground floor reception, Stopford Building
LT	