

Pre-Hospital and Emergency Department Resuscitative Thoracotomy

Programme

Directors:

Mr Jim Connolly

Consultant A&E Surgeon

Accident and Emergency Department, Royal Victoria Infirmary

Dr Paul Wallman

Consultant in Emergency Medicine

Royal Sussex Hospital

Miss Anne Weaver

Consultant in Emergency Medicine

Royal London Hospital

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Day One

Time	Session
0840-0900	Registration and Refreshments
0900 - 0910	Introduction to the course
0910 - 0945	<p>Resuscitative Thoracotomy in context</p> <ul style="list-style-type: none"> • Background • Incidence • Damage Control principles • Evidence base • When • Where • Who • When not to • When to stop • Survival rates • Injury Patterns • Is needle pericardiocentesis of any use? • Bleeding control in subclavian (Foley catheter) • Non traumatic conditions that may benefit <p><i>At the end of this lecture participants should have a clearer understanding of the place of resuscitative thoracotomy, and a clearer(evidence based) decision making ability to decide who, when where, what incision, when not to undertake etc.</i></p>
0945 - 1020	<p>Integration into the trauma resuscitation</p> <p>Interactive session</p> <ul style="list-style-type: none"> • Developing a Trauma Arrest protocol via CBD or interactive moulage. • FAST pericardium • What happens pre thoracotomy (Intubation / thoracostomy / drains / pleural

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	<p>space physiology etc)</p> <ul style="list-style-type: none"> • How the team operates whilst resuscitative thoracotomy proceeds • Controlling the team • Priorities in the arrested / periarrest trauma patient • Damage Control • Approach to the chest • How to maintain CPR / appropriate arrest management <p><i>At the end of the session clarity of how a thoracotomy would fit into the arrest and management before and during thoracotomy</i></p>
1020 - 1045	<p>The Anatomy of Resuscitative Thoracotomy</p> <ul style="list-style-type: none"> • Overview of essential anatomy needed • Cardiac Anatomy • Anatomy of the Hilum • Anatomy of the chest wall
1045- 1105	Refreshments
1105 - 1150	<p>Case Based Discussions</p> <ul style="list-style-type: none"> • Interactive session based on PowerPoint presentation of real life cases presented by the faculty • Highlighting and reinforcing messages via problem solving scenarios <p><i>This will include some non trauma related cases</i></p> <p><i>Discussion with respect to governance / further training / updating skills etc</i></p>
1150 - 1210	<p>LAB SESSION</p> <p>Introduction to lab</p> <ul style="list-style-type: none"> • Safety Issues • PPE • Equipment familiarisation • Kit needed for a resuscitative thoracotomy
1210- 1250	Lunch
1250 - 1400	<p>LAB SESSION 1</p> <p>Injuries to the Heart</p>

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	<ul style="list-style-type: none"> • Basic Tissue Handling techniques • Positioning • Improving access • L Anterolateral Thoracotomy • Opening the pericardium • Internal Massage • Control of bleeding (Finger / Clamps / Foley) • Transfusing through a Foley • Anatomy of heart • Converting to a Clamshell • Signs of futility
1400 - 1440	<p>LAB SESSION 2</p> <p>Repairing a hole</p> <ul style="list-style-type: none"> • Suturing inside the chest • Pledgeted sutures • Skin staples • HEMCON • Pericardial patch technique • How to avoid the coronary arteries <p>(Extra hearts to be available for suturing)</p>
1440- 1500	Refreshments
1500 - 1550	<p>LAB SESSION 3</p> <p>Non cardiac Injury</p> <ul style="list-style-type: none"> • Mobilising a lung • Lung Twist • Control of air leak • Air embolus • Anatomy of thoracic cavity • Aortic Compression / Clamping • Foley catheter control of vascular injuries to upper thorax • Packing chest / manual / digital control of vessels
1550 - 1630	<p>LAB SESSION 4</p> <ul style="list-style-type: none"> • Closing Up / Managing Post operative patients

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	<ul style="list-style-type: none">• Internal Defibrillation• Internal Mammary artery• Drainage• Managing drain• Safe transfer• Closing the chest
1630-1715	Case based discussions <ul style="list-style-type: none">• Interactive session based on PowerPoint presentation of real life cases presented by the faculty• Discussion with respect to decision making and implementation in own hospital.
1715-1730	Closure Feedback
1730	Close Faculty Meeting

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