MINIMALLY INVASIVE CARDIAC SURGERY

Hosted by

The Essex Cardiothoracic Centre
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THE ROYAL COLLEGE OF SURGEONS OF EDINBURGH
1. SCOPE

Two day interactive course with wet lab practice on Cadavers and Animal Tissue for Level 1 training in minimally invasive cardiac surgery for 15-20 delegates.

2. WHAT YOU WILL GAIN

In this two day interactive session we will cover the major aspects surrounding the Minimally Invasive Cardiac Surgery (MICS) including hands on demonstration and practice.

3. AIMED AT

- Consultant Cardiac Surgeons who want to learn and hone in the skills of Minimally invasive Cardiac Surgery.
- Junior Consultants or Senior Trainees in Cardiac surgery who are around completion of their training and are interested in Minimally Invasive Cardiac Surgery.
4. AIMS & OBJECTIVES

After attending this course the delegates will be able to know, understand and demonstrate:

1. The current evidence and need for Minimally invasive Cardiac Surgery
2. Setting up a Minimally invasive cardiac surgery program
3. The instruments and Paraphernalia
4. The access and incisions
5. The imaging and pre-operative workup for minimally invasive surgery
6. Cardiopulmonary Bypass and TOE support
7. Hands on Practice for MiDCAB, Mini AVR, Mini MVR and AFib Ablation
8. Demonstrate at Level 1 surgical skills in Minimally invasive Cardiac Surgery

5. COURSE ENGAGEMENT

Total duration 2 days.

6. CERTIFICATION

CPD Points

7. WHO YOU’LL LEARN FROM

1. Mr Inderpaul Birdi
2. Mr Arvind Singh
8. COURSE OUTLINE

DAY 1

Will start with a 3 hour session with talks on the General aspects of MICS including the evidence base, setting up a MICS Program, access & incisions, instrumentation, CPB issues, TOE support to give the delegates good baseline knowledge of MICS. The second session will be in the wet lab which will be 2 hour long on MiDCAB followed by another 2 hour wet lab session on Mini Aortic Valve Replacement (AVR).

DAY 2

Will consist of two sessions each 3 hour long with Minimally invasive Mitral Valve Repair/Replacement followed by another session on the Minimally Invasive AFib Ablation. Both these sessions will be preceded by a Lecture on the various aspects of Minimally invasive Mitral Surgery.

The course will end up by a Key note lecture with a Panel Discussion and end at around 17:00 hrs.

WET LAB SETUP

There will be a master station with the Lead instructor guiding the delegates on how to proceed in a stepwise manner so, that everyone proceeds in the same way. The supporting instructors will also demonstrate the different skill sets to the delegates individually and answer their questions and queries as the wet lab proceeds.
9. CONFLICT OF INTEREST

All speakers will declare any conflicts of interests.

10. HEALTH AND SAFETY ISSUES

The Lead instructor at every wet lab station will give the delegates the reminder for precautions & universal protection measures with aprons, gloves, gowns, goggles and sharp disposal. The delegates will be responsible for their own safety from the sharps.

11. DATA PROTECTION AND PRIVACY ISSUES

The delegates will sign a non-disclaimer for photography (including videos) during the course and if any delegate doesn’t wish to be photographed then that will be strictly taken into consideration.
<table>
<thead>
<tr>
<th>Time</th>
<th>Session Activity</th>
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</thead>
<tbody>
<tr>
<td>08:00 - 09:00</td>
<td>Registration and Coffee</td>
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<tr>
<td>09:00 - 09:10</td>
<td>Welcome and Introduction</td>
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<tr>
<td>09:10 - 09:30</td>
<td>Why Bother?  <em>With Minimally Invasive Cardiac Surgery</em></td>
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<td>09:30 - 09:50</td>
<td>How to set up a Minimally Invasive Program</td>
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<tr>
<td>09:50 - 10:10</td>
<td>Pre-operative Workup and Imaging</td>
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<tr>
<td>10:10 - 10:30</td>
<td><em>Coffee Break</em></td>
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<tr>
<td>10:30 - 10:50</td>
<td>The instruments and Paraphernalia</td>
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<tr>
<td>10:50 - 11:10</td>
<td>Incisions and Access</td>
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<tr>
<td>11:10 - 11:30</td>
<td>Cardiopulmonary bypass in MICS</td>
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<tr>
<td>11:30 - 11:50</td>
<td>Transoesophageal Echo  in MICS</td>
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<tr>
<td>12:00 - 13:00</td>
<td><em>Lunch</em></td>
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Day 1  

**Session 2, MIDCAB**

13:30 - 16:00  
Set up

Incision

LIMA Harvest

Coronary anastomosis

Talk: Pit falls and what not to do!

16:30 - 16:50  
*Coffee Break*

Day 1  

**Session 3, Mini AVR**

17:00 - 19:00  
Set up

Incision. Cannula Positioning & CPB Issues

Aortotomy

Valve Replacement

Talk: Pit falls and what not to do!

*Dinner*
**MINIMALLY INVASIVE CARDIAC SURGERY**

**Day 2**

**Session 1, Mini MVR**

08:30 - 12:00
Minimally Invasive Mitral Valve Repair/Replacement (Talk)
Set up
Incision
CPB issue
Mitral Valve Repair
Mitral Valve Replacement
Talk: Pit falls and what not to do!

12:30 - 13:30
*Lunch*

**Day 2**

**Session 2, AFib Ablation**

13:30 – 16:00
Minimally Invasive Atrial Fibrillation Ablation (Talk)
Set up
Incision
Peri Op issues
Talk: Pit falls and what not to do!

16:00 – 16:15
*Coffee Break*

16:15 – 17:00
*Key Note Lecture*

17:00 – 18:00
*Panel Discussion & Comments*