

# CT1 & 2 Teaching Course

**29 September 2009 to 22 June 2010** (alternate Tuesdays)  
**0930 (prompt) to 1630**

All will take place in the Anaesthetic Seminar Room, 2nd Floor, Alex Wing at the Royal London,  
unless otherwise stated.

## Physical & Clinical Measurement

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|------------------|--|---------------------|
| <b>29-Sep-09</b> | <ul style="list-style-type: none"><li>• Maths (graphs, logs, exponential decays etc)</li><li>• SI Units (fundamental and derived)</li><li>• Basic principles of measurement (linearity, drift, zeroing, sig2noise etc)</li><li>• Pressure, gas laws etc, flow</li><li>• Clinical measurement (temperature, BP, CO, temp etc)</li></ul> | <b>Lionel Davis</b> |
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| <b>13-Oct-09</b> | <ul style="list-style-type: none"><li>• Electricity basic and applied (defibs, filters)</li><li>• Electrical safety</li><li>• Anaesthetic machine and attachments</li><li>• Vapourisers</li><li>• Ventilators</li><li>• Humidity &amp; humidification</li><li>• MRI</li></ul> | <b>Simon Stacey</b> |
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## Obstetrics

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| <b>27-Oct-09</b> | <ul style="list-style-type: none"><li>• Physiology &amp; anatomy of pregnancy</li><li>• Placental physiology &amp; PIH</li><li>• Physiology of labour</li><li>• Analgesia for labour</li><li>• LSCS, pre &amp; post partum anaesthesia</li></ul> | <b>Mira Razzaque</b> |
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## Endocrine

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| <b>10-Nov-09</b> | <ul style="list-style-type: none"><li>• Pituitary physiology and pathophysiology</li><li>• Diabetes mellitus</li><li>• Thyroid physiology &amp; disease</li><li>• Adrenal physiology</li><li>• Stress response</li><li>• Obesity</li><li>• Liver disease</li><li>• Malignant hyperthermia</li><li>• Latex anaphylaxis</li></ul> | <b>Chris Wright</b> |
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## Intensive Care Medicine

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| <b>24-Nov-09</b> | <ul style="list-style-type: none"><li>• Trauma</li><li>• Adult Resuscitation</li><li>• SIRS</li><li>• ARDS</li><li>• Circulatory support</li><li>• Respiratory support, ventilators</li><li>• Enteral &amp; parenteral feeding</li></ul> | <b>Dan Kennedy</b> |
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<b>08-Dec-09</b>	<b>VIVA &amp; OSCE</b>	<b>Min Liu Kong</b>
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## Pharmacology - General & Anaesthetic

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| <b>22-Dec-09</b> | <ul style="list-style-type: none"><li>• Pharmacodynamics</li><li>• Pharmacokinetics</li><li>• Mechanism of drug action</li><li>• Induction agents (including critical incidents)</li><li>• Inhalational agents</li><li>• Antiemetics</li><li>• Opioids</li><li>• NSAIDs</li><li>• Muscle Relaxants</li><li>• Awareness</li><li>• Statistics</li><li>• Clinical Trials</li></ul> | <b>Paul Yate</b>       |
| <b>05-Jan-10</b> |   | <b>Steve Hallworth</b> |

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## Haematology

- |                  |  |                                       |
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| <b>19-Jan-10</b> | <ul style="list-style-type: none"><li>• Red cell physiology &amp; pathophysiology (eg. HbSS, porphyria, Hb-opathies)</li><li>• Anaemia</li><li>• White cell physiology</li><li>• Haemostasis</li><li>• DVT prophylaxis</li><li>• Blood &amp; blood products</li><li>• Administration of blood (including critical incidents)</li></ul> | <b>Kate Wark &amp; Virginia Brown</b> |
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## Cardiovascular

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| <b>02-Feb-09</b> | <ul style="list-style-type: none"><li>• Cardiac anatomy (inc. embryology &amp; foetal circulation)</li><li>• Physiology (electrical / cardiac cycle)</li><li>• Pharmacology</li><li>• Regulation of circulation</li></ul> | <b>Serene Chang</b> |
| <b>16-Feb-10</b> | <ul style="list-style-type: none"><li>• Cardiac pathophysiology (heart failure, IHD, valve disease)</li><li>• Vascular anaesthesia</li><li>• Cardiac patient for non-cardiac surgery</li></ul>                            | <b>Serene Chang</b> |

## Respiratory

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| <b>02-Mar-10</b> | <ul style="list-style-type: none"><li>• Pulmonary anatomy</li><li>• Pulmonary pharmacology</li><li>• Respiratory failure</li><li>• Pulmonary Diseases</li><li>• Oxygen transport and therapy. Carbon dioxide. Shunts.</li><li>• Control of respiration</li><li>• Mechanisms of ventilation, volumes, flows, dead space.</li><li>• IPPV</li></ul> | <b>Chris Sadler</b> |
| <b>16-Mar-10</b> | <ul style="list-style-type: none"><li>• Tests of respiratory function</li><li>• Anaesthesia for patient with respiratory disease &amp; critical incidents. One lung anaesthesia.</li></ul>   | <b>Chris Sadler</b> |

## 30-Mar-10 VIVA & OSCE

## Neurological

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| <b>13-Apr-10</b> | <ul style="list-style-type: none"><li>• Excitable cells, membranes, action potentials, muscles, nerves, neuromuscular transmission</li><li>• Divisions of the nervous system, CNS, ANS</li><li>• Pharmacology of the ANS</li><li>• Spinal cord anatomy. Pain pathways</li><li>• Cerebral blood flow, CSF, IC pressure</li><li>• Head injury, brain stem testing</li><li>• Anaesthesia &amp; neurological diseases</li></ul> | <b>Sanjay Wijayatilake</b> |
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## Regional Anaesthesia

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| <b>27-Apr-10</b> | <ul style="list-style-type: none"><li>• Pharmacology of local anaesthetics (including critical incidents)</li><li>• Spinal anatomy, SA block, epidurals</li><li>• Limb blocks</li><li>• Eye blocks</li><li>• Trunk blocks</li></ul> | <b>Deane Halfpenny</b> |
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## Pain

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| <b>11-May-10</b> |  | <b>Vivek Mehta</b> |
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## Renal

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| <b>25-May-10</b> | <ul style="list-style-type: none"><li>• Anatomy, blood flow, glomerular and tubular function</li><li>• Assessment of renal function</li><li>• Diuretics</li><li>• Salt &amp; water balance</li><li>• Acid / base balance</li><li>• Acute &amp; chronic renal failure, calcium</li><li>• Renal replacement therapy</li><li>• Anaesthesia for the renal patient</li></ul> | <b>Kanthe Raveendran</b> |
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## Airway

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| <b>08-Jun-10</b> | <ul style="list-style-type: none"><li>• Anatomy</li><li>• Assessment of the airway</li><li>• Local anaesthetics for airway</li><li>• Airway management including intubation techniques and RSI</li><li>• Airway critical incidents</li><li>• Anaesthesia for head/neck surgery &amp; ENT</li><li>• Tracheostomies/airway surgery/LASERS</li></ul> | <b>Helen Drewery</b> |
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## Miscellaneous

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| <b>22-Jun-10</b> | <ul style="list-style-type: none"><li>• Paediatric anaesthesia &amp; resuscitation</li><li>• Microbiology &amp; infection control (including antibiotics)</li><li>• MRI Scanning</li><li>• Emergency anaesthesia</li><li>• Burns</li><li>• Fluid administration</li></ul> | <b>Adam Wantman</b> |
|------------------|---|---------------------|

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