

UKZN Department of Anaesthesia

Part I FCA Course 2014

| Date | Topic | Presenter |
|--------|--|-----------------------------|
| 15 Jan | <i>Course introduction</i> Anaesthetic Machine Gas manufacture/storage/supply Oxygen, carbon dioxide, nitrous oxide Monitoring of O ₂ , Co ₂ & Agent | <i>Bechan</i> Brouckaert |
| 22 Jan | Volatiles Gas Laws, Vapour pressure, Gas flow, Vaporizers | Allopi K Govender |
| 29 Jan | Cell Physiology Intermediary metabolism Mitochondrial function | Pillay L |
| 05 Feb | Membrane Function Membrane Potential Excitable tissue | Mudely |
| 12 Feb | Receptors and 2 nd Messengers Pharmacodynamics | Mudely K Govender |
| 19 Feb | Pharmacokinetics | Allopi |
| 26 Feb | TIVA Induction Agents | Allopi V Ramson |
| 05 Mar | Pain Physiology Analgesics | Bechan |
| | | |

| | | |
|--------|---|--------------------------|
| 12 Mar | Neuromuscular Junction Neuromuscular blockers NMJ Monitoring | Brouckert Stoltenkamp |
| 19 Mar | Basic Electricity Electrical Supply Electrical safety/Shock Diathermy Defibrillator | Reddy Govender K |
| 26 Mar | Written – Examination without orals 24-28 MAR | |
| 02 Apr | Vascular Physiology Endothelium Hypertension and Antihypertensive | Alphonsus |
| 09 Apr | Query Clinical Course | |
| 16 Apr | Introduction to CVS system Cardiac Pump function Pressure/Volume loops Cardiac Failure | Biccard |
| 23 Apr | Coronary Circulation Ischaemic Heart Disease Myocardial preconditioning Statins | Naidoo R Ramsamy T |
| 07 May | FCA(SA) Part II - 5-8 May | |
| 14 May | Shock, Inotropes Vasopressors | K De Vasconcellos |
| 21 May | Electrophysiology and ECG Dysrhythmias and anti arrhythmics Pacemakers | T Ramsamy Reddy |
| 28 May | Respiratory mechanics Control of Respiration Ventilators Measurement Pressure, Flow | Kisten |

| | | |
|---------|--|---------------------------|
| 04 June | Pulmonary function testing Gas exchange and Gas transport Altitude, Oximetry Blood gas analysis | L Pillay T Ramsamy |
| 11 June | Part I Refresher Course | |
| 18 June | Cardiopulmonary function, Interventricular dependence VQ relationships, Shunt | Mudaly Alphonsus |
| 25 June | Extracorporeal circulation CPB ECMO | Drummond |
| 02 July | Ultrasound Doppler Echocardiography | Drummond Reddy |
| 09 July | Neurophysiology Neuro monitoring | Padayachee Stoltenkamp |
| 16 July | Consciousness, Sedation, Sleep Depth of anaesthesia monitoring | Hodgson |
| 23 July | Chronic Pain Neuropharmacology | Bechan |
| 31 July | Autonomic nervous system | Sommerville |
| 06 Aug | Diabetes, HPA | Stoltenkamp |
| 13 Aug | Renal physiology Diuretics, Renal Replacement therapy | Bechan |
| 20 Aug | Written - Examination with orals 18-22 AUG | |
| 27 Aug | Written - Examination without orals 25-29 AUG | |
| 03 Sept | Endocrine | V Ramson Hodgson |
| 10 Sept | Acid Base pH | Kalafatis |
| 17 Sept | Clinical Course week | |
| 24 Sept | Public Holiday - Heritage Day | |
| | | |

| | | |
|--------|---|-------------------------------|
| 01 Oct | Electrolytes | L Pillay T Ramsamy |
| 8 Oct | Immunity, Anaphylaxis, Inflammation, Immunosuppressives | Naidu S |
| 15 Oct | HIV and ARV | Naidoo R |
| 22 Oct | Transfusion medicine Haemoglobinopathies Porphyria | Alphonsus |
| 29 Oct | Coagulation and haemostasis Pro and anti coagulant drugs Monitoring coagulation | K de Vasconcellos |
| 5 Nov | Antibiotics Pharmacogenetics | Kalafatis |
| 12 Nov | Physiology of pregnancy Transitional physiology Oxytocic agents | Ramcharan |
| 19 Nov | GIT PONV | Sommerville |
| 26 Nov | Statistics | Biccard |
| 3 Dec | Statistics | Biccard |