

Draft for meeting September 2009

Science for Subspecialties

September 2009

Venue: RCOG, London

OVERVIEW

Basic science forms a core part of the curriculum for all subspecialty trainees. The aim of this course is to cover basic sciences in a structured and organised manner with specific reference to the principles and applications of basic scientific techniques and ideas. The format of the course includes core lectures relevant to all the subspecialties with break out groups to cover aspects of the curriculum specific to each subspecialty. It is not aimed as part of the revision for the MRCOG.

It is an opportunity to cover the basic science requirement of subspecialty training. It allows delegates to become up to date with current research and clinical advances in basic sciences relevant to obstetrics and gynaecology. It is a forum for subspecialty trainees and subspecialists as well as generalists from different disciplines to share current research interests and experiences.

This meeting is aimed at subspecialty trainees and subspecialists in gynaecological oncology, maternal fetal medicine, reproductive medicine, sexual and reproductive health and urogynaecology. Also general trainees and generalists with a special interest in these topics.

Course Organisers: Mr Enda McVeigh FRCOG
Mr Sean Kehoe FRCOG
Mr Simon Jackson FRCOG
Mr Lawerance Impey FROCG

Convenor of Meetings: Dr Basky Thilaganathan FRCOG

Each 30 minute session will include 10 minutes for discussion

Day 1

9.15am *REGISTRATION & REFRESHMENTS*

9.45am **Welcome and introduction**
Mr Enda McVeigh, Consultant, Sub-Specialist in Reproductive Medicine and Surgery, Nuffield Department of Obstetrics and Gynaecology University of Oxford, John Radcliffe Hospital, Oxford

CORE SESSION I (everyone)

Chair: Mr Enda McVeigh

10.00am **Fluid and electrolyte balance**
Dr Colin Hamilton-Davies, Director Cardiac Critical Care, Department of Anaesthesia and Critical Care, The Heart Hospital, University College London Hospital

10.40am **Post-operative and critical care – problems and solutions**
Dr Colin Hamilton-Davies

11.20am **Embryology of the female reproductive tract**

12.00pm **Anatomy of the female pelvis**

12.30pm DISCUSSION

12.40pm *LUNCH*

SUBSPECIALITY BREAKOUT GROUPS SESSION I

A) Oncology

Chair: Mr Sean Kehoe

1.40pm **Familial cancer genetics for gynaecologists**
Dr James Mackay, Consultant Clinical Genetic Oncologist, Institute of Human Genetics and Health at University College London, Great Ormond Street Hospital, London

2.20pm **Chemotherapy: biology, mode of action, toxicity**
Dr Rhoda Molife, Clinical Research fellow in Clinical Pharmacology, Drug Developmental Unit, Royal Marsden Hospital, Sutton

3.00pm *REFRESHMENTS*

3.30pm **Pathology slides for gynaecologists**
Dr Ashish Chandra, Consultant, Department of Histopathology, Guy's and St Thomas' NHS Foundation Trust, London

4.10pm **Understanding radiation – biology, physics, sources**
Dr Merina Ahmed, Senior Clinical Fellow Oncology, Department of Radiotherapy, Royal Marsden Hospital, Sutton

SUBSPECIALITY BREAKOUT GROUPS SESSION I

B) Reproductive Medicine & Sexual Health

Chair: Mr Enda McVeigh

- 1.40pm **Embryological defects of the female reproductive tract**
Dr Paul Schofield, University Senior Lecturer, Department of Anatomy,
University of Cambridge
- 2.20pm **The role of GnRHs in infertility contraception and hormone dependent
diseases**
Professor Robert Millar, Director, MRC Human Reproductive Sciences
Unit, Queen's Medical Research Institute, Edinburgh
- 3.00pm *REFRESHMENTS*
- 3.30pm **Pathophysiology of intersex, CAH and Androgen Insensitivity
Syndrome**
Professor Adam Balen, Professor of Reproductive Medicine and Surgery,
The General Infirmary at Leeds
- 4.10pm **Ovarian folliculogenesis and polycystic ovary syndrome**
Professor Roy Homburg, Professor of Reproductive Medicine, Department of
Obstetrics and Gynaecology, Free University Medical Centre, Amsterdam, The
Netherlands

SUBSPECIALITY BREAKOUT GROUPS SESSION I

C) Maternal–Fetal Medicine

- 1.40pm **Mechanisms of fetal infection**
- 2.20pm **Molecular mechanisms of preterm labour**
Professor Phillip Bennett, Professor of Obstetrics and Gynaecology,
Imperial College London, Hammersmith Hospital, London
- 3.00pm *REFRESHMENTS*
- 3.30pm **Effect of maternal adaptation to pregnancy on disease processes**
Dr Jane Ramsay, Consultant, Department of Obstetrics and Gynaecology,
Ayrshire Central Hospital, Scotland
- 4.10pm **Adaptation to neonatal life**
Professor John Wyatt, Professor of Neonatal Paediatrics, Department of
Paediatrics, University College London Hospitals

D) Urogynaecology

Chair:

- 1.40pm **Fluid and pressure dynamics of bladder control and Neurophysiology**
- Mr Philip Tooze-Hobson, Consultant Urogynaecologist, Department of Obstetrics and Gynaecology, Birmingham's Women Hospital
- 2.20pm **Host Tissue/prosthetic graft interactions including catheters and stents**
- 3.00pm *REFRESHMENTS*
- 3.30pm **Botulinum Toxin and the bladder**
- 4.10pm **Pharmacotherapy for OAB, painful bladder, stress incontinence, voiding disorders and renal disorders**

CORE SESSION II (everyone)

Chair: Mr Enda McVeigh

- 4.50pm **Commonly used statistical methods**
Dr Peter Brocklehurst
- 5.30pm *DRINKS RECEPTION*

Day 2

- 8.00am *REFRESHMENTS*

CORE SESSION III (everyone)

Chair:

- 8.30am **Scientific basis of imaging techniques**
Mr Adrian Lim, Faculty of Medicine, Imperial College, London
- 9.00am **Epidemiology research and trial design**
Professor Gordon Smith, Head of Department, Honorary Consultant in Maternal-Fetal Medicine, Department of Obstetrics and Gynaecology, Addenbrooke's Hospital, Cambridge

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9.40am **Pharmacokinetics and drug delivery**
Professor Soraya Dhillon, Head of The School of Pharmacy, University of
Hertfordshire

10.20am *REFRESHMENTS*

10.50am **Laboratory techniques in genetics**
Dr Joyce Harper, Senior Lecturer in Human Genetics and Embryology,
University College London

11.30am **Medical ethics**

12.10pm *LUNCH*

SUBSPECIALITY BREAKOUT GROUPS SESSION II

A) Oncology and Urogynaecology

Chair:

1.10pm **Scientific basis for pain management**
Dr Paul Farquhar-Smith, Consultant in Pain, Anaesthetics and Intensive
Care Unit, Royal Marsden Hospital, London

1.50pm **Avoiding and managing wound sepsis**
Mr Thomas Ind

2.30pm *REFRESHMENTS*

3.00pm **Urinary Diversionary procedures in oncological and non-oncological
settings: technical aspects and morbidity issues.**

3.40pm **Bladder Reconstructive operations: patient selection and long term
sequelae.**

B) Reproductive Medicine & Sexual Health

Chair:

1.10pm **Pre-implanation diagnosis and PGS**
Dagan Wells

1.50pm **In-Vitro Maturation of oocytes**
Mr Tim Child

2.30pm *REFRESHMENTS*

3.00pm **Endometriosis**
Christian Becker

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3.40pm **Physiological changes of the menopause and PMS**
Mr Nick Panay, Consultant Obstetrician and Gynaecologist, Specialist in Reproductive Medicine and Surgery, Queen Charlotte's & Chelsea Hospital, Hammersmith Hospitals NHS Trust, London

C) Maternal-Fetal Medicine

Chair:

1.10pm **Principles of developmental biology**
Professor Andrew Copp, Professor of Developmental Neurobiology, Institute of Child Health, University College London

1.50pm **The systemic inflammatory response & hypertension in pregnancy**
Professor Lucilla Poston, Professor of Maternal and Fetal Health, Maternal and Fetal Research Unit, Division of Reproductive Health Endocrinology and Development, King's College London

2.30pm *REFRESHMENTS*

3.00pm **Anatomy & physiology of placental development**
Professor Graham Burton, Professor of Reproductive Biology, Department of Anatomy, University of Cambridge

3.40pm **Perinatal autopsy and placental pathology**
Dr Martin Weber, Specialist Registrar and Clinical Research Fellow, Department of Histopathology, Institute of Child Health and Great Ormond Street for Children, London

CORE SESSION IV (everyone)

Chair:

4.20pm **Modern pathological techniques**
Dr Ashish Chandra

5.00pm **Course meeting – delegate feedback and discussion**

6.00pm *CLOSE OF MEETING*