### Module 4a
**Obstetrics**

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04b_01_01 Developmental anatomy

02 Developmental physiology
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04b_02_02 Changes in major organs, blood and biochemistry
04b_02_03 Development of the pain system
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03 Developmental pharmacology
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04b_03_02 Pharmacokinetic, pharmacodynamic and pharmacogenomic differences between
04b_03_03 Volatile agents
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04b_03_05 Neuromuscular blocking drugs
04b_03_06 Local anaesthetics
04b_03_07 Opioids in Paediatrics
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04 Paediatric Resuscitation
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04b_04_02 Advanced paediatric life support

05 Stabilisation of the Sick or Injured Child
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04b_05_02 Multiply injured child
04b_05_03 Burns
04b_05_04 Fractured femur
04b_05_05 Paediatric septic shock
04b_05_06 Managing paediatric laryngospasm

06 Safeguarding children
04b_06_01 Local procedures, RCPCH/RCoA/APA guidelines
04b_06_02 Safeguarding children - local procedures

07 Preparation for anaesthesia
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04b_07_02 Managing children's perioperative anxiety - psychological issues and Interventions Part
04b_07_03 Preoperative assessment of the child patient
04b_07_04 Premedication including topical local anaesthesia

08 Paediatric Equipment
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04b_08_02 Airway devices, tracheal tubes & sizes
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09 Induction of anaesthesia
04b_09_01 Inhalational induction
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10 Maintenance of anaesthesia
04b_10_01 Spontaneous ventilation techniques
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04b_10_03 TIVA principles in children
04b_10_04 Recognition and treatment of malignant hyperthermia

11 Analgesia
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04b_11_04 Femoral, 3-in-1, fascia iliaca blocks
04b_11_05 Ring blocks, metacarpal and metatarsal blocks
04b_11_06 Infraorbital & Posterior auricular block nerve blocks
04b_11_07 Safety and treatment of LA toxicity in children
04b_11_08 Opioids: titration to analgesia
04b_11_09 Opioids: morphine Infusions, PCA and NCA in children
04b_11_10 Opioids: monitoring, safety and adverse effects
04b_11_11 The pharmacology of NSAIDs in children
04b_11_12 Paracetamol (acetaminophen) in children

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04b_12_01 Calculations, corrections and maintenance 1
04b_12_02 Calculations, corrections and maintenance 2
04b_12_03 Maintenance fluids in the perioperative period
04b_12_04 Monitoring and titration of fluid therapy
04b_12_05 Blood and blood product therapy in children

13 Anaesthesia for children age >5y
04b_13_01 Herniotomy, orchidopexy, torsion of the testis
04b_13_02 Circumcision
04b_13_03 Appendicectomy & laparotomy
04b_13_04 Removal of foreign body
04b_13_05 Myringotomy & grommets
04b_13_06 Adenotonsillectomy & the bleeding tonsil
04b_13_07 Eyelid lacerectomy repair, tear duct probing and examination under anaesthetic (EUA)
04b_13_08 Strabismus correction
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04b_13_11 Burns debridement & dressing
04b_13_12 Derotation osteotomy
04b_13_13 Anaesthesia for a child with cerebral palsy
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14 Postoperative care
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04b_14_02 Postoperative analgesia: day cases and In-patients
## Module 4c
### Anaesthesia in the Elderly

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- 04c_01_01 Communication difficulties
- 04c_01_02 Cultural factors in dealing with the elderly
- 04c_01_03 Frailty: a description of elderly reserve
- 04c_01_04 End of life issues
- 04c_01_05 Assessing social support and planning discharge
- 04c_01_06 Consent and autonomy
- 04c_01_07 Do Not Attempt Resuscitation Orders

### 02 Cardiovascular system
- 04c_02_01 The great vessels: arteriosclerosis
- 04c_02_02 The heart: diastolic dysfunction
- 04c_02_03 Autonomic dysfunction

### 03 Respiratory System
- 04c_03_01 Structural and volume changes in the lung
- 04c_03_02 Gas exchange in the elderly lung
- 04c_03_03 Control of ventilation

### 04 Nervous system
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- 04c_04_02 Assessment of cognitive function
- 04c_04_03 Perioperative Cognitive Dysfunction
- 04c_04_04 Parkinson's disease
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- 04c_04_06 Delirium and dementia
- 04c_04_07 Age related changes in MAC
- 04c_04_08 Older people and pain

### 05 Metabolic functions
- 04c_05_01 Renal function
- 04c_05_02 Hepatic and gastrointestinal function

### 06 Hip fractures
- 04c_06_01 Surgical management of hip fractures
- 04c_06_02 The preoperative management of hip fractures
- 04c_06_03 Acute orthogeriatric care
- 04c_06_04 Anaesthesia for hip fractures