



**MCAI** Maternal & Childhealth  
Advocacy International

Improving maternal & child  
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**THE UNIVERSITY  
of EDINBURGH**

## August 2021 Curriculum for training for paediatric clinicians in advanced hospital paediatrics

### Components:

**Foundation COURSE:** – To be delivered in the first 6 weeks of the Training Program. SEE ATTACHED

**Paediatric E-library** Including updates and videos, this library is available on application on the MCAI G-Drive and will be installed on the Chromebooks of all trainees and trainers.

**Advanced Training:** – To be delivered by both tutorial-supplemented and apprenticeship-based training over 24 months during which the paediatric clinicians will complete the following educational processes:

### Assessment Methods and Materials which will form the cornerstone of assessment

- Intervention procedure logbook
- Objective Structured clinical examination (OSCE) at the end of the first year
- Tutorials on the subjects in the curriculum below will occur twice weekly and be conducted by international experts. They will be followed by twice weekly examinations and reviews of the results occurring in the subsequent week

Undertaking of the following paediatric procedures/interventions initially in collaboration and always under the supervision of local Liberian and International trainers and gradually progressing to be able to undertake these procedures safely as the lead paediatrician with the local Liberian and international paediatricians as assistants/observers.

1. Undertake neonatal resuscitation with ability to provide airway opening, bag and mask

- ventilation, jaw thrust, chest compressions, adrenaline (see Neonatal handbook Section 1)
2. Airway procedures including oropharyngeal airway, cricothyroidotomy. Section 90 Handbook 1
  3. Breathing procedures including use of metered dose inhaler, use of a nebuliser, emergency needle thoracocentesis, chest drain insertion, pleural tap, assessment of respiratory failure, safe oxygen use, high flow, high humidity nasal cannula oxygen, CPAP, bag and mask ventilation, emergency intubation. Section 91 Handbook 1 PI 24
  4. Circulatory procedures including peripheral venous cannulation, blood sampling, external jugular vein cannulation, long saphenous vein cannulation, intra-osseous needle insertion, needle pericardiocentesis, defibrillation, AED use. Section 92 Handbook 1 [VIDEOS C3, C4, C6, C7, C8, C9, C10](#)
  5. Insertion of an orogastric or nasogastric tube. Section 93 Handbook 1 [Video PI 7](#)
  6. Cervical spine immobilisation and log roll. Section 94 Handbook 1 [Videos T 2, T 3, T 6](#)
  7. Incision and drainage of an abscess. Section 95 Handbook 1
  8. Lumbar puncture. Section 97 Handbook 1
  9. Suprapubic aspiration of urine. Section 98 Handbook 1
  10. Measuring blood glucose level. Section 99 Handbook 1
  11. Microscopy of the urine. Section 61 Handbook 2
  12. Chest physiotherapy. Section 62 Handbook 2
  13. WHO treatment plans A, B, C for acute diarrhoea Section 63 Handbook 2
  14. Procedures in children: analgesia, giving injections, restraining/wrapping [Video PI 7 , PI 8, PI 17](#)
  15. Skin to skin care (KMC) [Video PI 11](#)
  16. Respiratory physiology. [Videos PH 2 and PH 3](#)

Reading about and understanding from the first 10 sections of Handbook 2 the following issues regarding the hospital care of children:

1. Hospital management including infection control [Video A7 Section 1 Handbook 2](#)
2. Identifying and managing children who have been abused [Section 2 Handbook 2](#)
3. Nursing sick children and the Child Friendly Healthcare Initiative. [Section 3 Handbook 2](#)
4. Nursing adolescents, including those who are pregnant [Video A4 Section 4 Handbook 2](#)
5. Managing the child with a disability in hospital [Section 5 Handbook 2](#)
6. Facilities in hospital for children with special needs and learning difficulties [Section 6 Handbook 2](#)
7. Palliative care for children in communities in resource limited settings [Section 7 Handbook 2](#)
8. Medical ethics and professional standards [Section 8 Handbook 2](#)
9. Medical records, history taking and clinical examination [Section 9 Handbook 2](#)
10. Traditional medicine its relevance to hospital care for children and its dangers. [Section 10 Handbook 2](#)

There will be twice-weekly examinations on the above 13 practical procedures and 10 issues regarding hospital care.

If the paediatric clinician is successful after this first 18 months of training, he/she will undertake a further 6 months of internship in a public hospital under supervision of a Liberian trainer. If successful at this stage, he/she will obtain a 5-year license to practice in public hospitals in Liberia assigned by the MOH.

**Knowledge Base:**

The Primary knowledge base for each component of the curriculum is shown below. Note – trainee’s will be encouraged to read around the subject and this core knowledge should be supplemented by clinical and self-directed learning. The paediatric E-Library is provided on the Chromebook of each trainee and contains relevant videos and publications and is updated every 6 months.

## Components and training forms for completion

| <b>Component 1: KNOWLEDGE OF NORMAL VITAL SIGNS DATA FOR CHILDREN OF DIFFERENT AGES</b> |                       |  |
|---|-----------------------|--|
| <b>SKILL</b>  | <b>Knowledge base</b> | <b>Evidence base (any one or all methods can be used Objective Structured clinical exam (OSCE) Videos and E-Library)</b> |
| Normal values for vital signs   | SECTION 2 Handbook 1  |  |
| Drug and fluid administration   | Section 7 Handbook 1  | N56  |
| Normal oxygen saturation levels (SpO <sub>2</sub> ) at sea level and at altitude        | Section 64 Handbook 2 |  |
| Paediatric Advanced Warning Score PAWS for different ages in low resource settings      | Section 68 Handbook 2 |  |

| <b>Component 2: STRUCTURED APPROACH TO MANAGING EMERGENCIES IN CHILDREN</b>   |   |                   |
|---|---|-------------------|
| <b>SKILL</b>  | <b>Knowledge base</b>   | <b>Videos</b>     |
| <b>Structured approach</b><br><b>Primary assessment and resuscitation</b><br><b>CABC</b><br><b>Secondary assessment and emergency care</b>  | <b>Section 3 Handbook 1 and</b><br><b>Section 11 Handbook 2</b> | <b>AC21, AC13</b> |
| <b>Basic Life Support</b><br><b>Resuscitation from cardiac and respiratory arrest</b><br><b>The initial approach: the three S's</b><br><b>ABC</b><br><b>The recovery position</b> | <b>Section 4 Handbook 1 and</b><br><b>Section 12 Handbook 2</b> | <b>AC22</b>       |

| <b>Component 2: STRUCTURED APPROACH TO MANAGING EMERGENCIES IN CHILDREN</b> |   |   |
|---|---|---|
| <b>Advanced Life Support</b>  | <b>Section 5 Handbook 1 and<br/>Section 13 Handbook 2</b> |   |
| <b>CABC</b>   |   |   |
| <b>Oxygen treatment</b>   |   |   |
| <b>Oropharyngeal airways</b>  |   | <b>AC25, AC26</b>   |
| <b>Self-inflating bag and masks</b>   |   | <b>AC1, AC2, AC31</b>   |
| <b>Chest tubes</b>  |   | <b>AC4</b>  |
| <b>Gastric tubes</b>  |   |   |
| <b>Management of cardiac arrest in children</b>                             |   | <b>AC15, AC16</b>   |
| <b>Four cardiac arrest heart rhythms</b>                                    |   |   |
| <b>The 4Hs and the 4Ts</b>  |   |   |
| <b>Non-shockable cardiac arrest</b>   |   |   |
| <b>Shockable cardiac arrest</b>   |   |   |
| <b>Automatic external defibrillators (AEDs)</b>                             |   |   |
| <b>Drugs used in non-shockable and<br/>shockable cardiac arrest</b>         |   |   |
| <b>When to stop resuscitation?</b>  |   |   |
| <b>Tracheal intubation</b>  | <b>Section 60 Handbook 2</b>                              | <b>AC7, AC1, AC40, AC23,<br/>AC27, AC34, AC24, AC28,<br/>AC29, AC30, AC33</b> |
| <b>SBAR: Situation, Background, Assessment<br/>and Recommendation</b>       | <b>Section 6 handbook 1</b>                               |   |
| <b>High-dependency care</b>   | <b>Section 14 Handbook 2</b>                              |   |
| <b>Drug and fluid administration</b>  | <b>Section 7 Handbook 1</b>                               |   |
| <b>Safe blood transfusion</b>   | <b>Section 8 Handbook 1 and<br/>Section 54 Handbook 2</b> |   |
| <b>Pain control</b>   | <b>Section 9 Handbook 1</b>                               | <b>A3 Lack of morphine in<br/>Africa</b>                                      |

| <b>Component 3: IDENTIFYING AND MANAGING CHILDREN WHO HAVE BEEN ABUSED</b>   |                              |  |
|--|------------------------------|--|
| <b>SKILL</b>   | <b>Knowledge base</b>        | <b>Videos</b>                            |
| <b>Categories of ill treatment and abuse</b><br><br><b>1. Unintentional Ill treatment resulting from human fallibility</b><br><br><b>2. Ill treatment resulting from stress</b><br><br><b>3. Abuse that is undertaken for gain</b><br><br><b>Features of family members known to be associated with ill treatment or abuse</b><br><br><b>Critical threshold for concern</b>              | <b>Section 76 Handbook 1</b> | <b>A8 Stop violence before it starts</b> |
| <b>Child Rights;</b>   | <b>Section 2 Handbook 2</b>  | <b>A1 You have the power</b>             |
| <b>Presentation suggesting possible ill treatment or abuse.</b><br><b>Physical Abuse (Non- Accidental Injury); Emotional and Psychological Abuse; Neglect; Child Sexual Abuse; Fabricated and/or induced illness;</b>  |                              |  |
| <b>Immediate Action when Ill Treatment or Abuse is suspected;</b>  |                              |  |
| <b>Diagnosis of Child Sexual Abuse</b><br><br><b>Acute Sexual Assault Findings (within hours or a few days)</b><br><br><b>Non-acute findings / historic Sexual Abuse</b><br><br><b>Additional considerations when performing examination of the genital and anal areas</b><br><br><b>Forensic sampling in acute sexual assaults</b><br><br><b>Sexually Transmitted Infections (STIs)</b> |                              |  |

| <b>Component 3: IDENTIFYING AND MANAGING CHILDREN WHO HAVE BEEN ABUSED</b>  |  |  |
|---|--|--|
| <b>Fabricated or Induced Illness (FII) Investigations to exclude medical causes;</b>  |  |  |
| <b>Medical aftercare following child abuse</b>  |  |  |
| <b>Abuse in special circumstances: Child trafficking; Rape as a Weapon of War. FGM; Types 1, 2, and 3 Implications and complications (short and long term).</b> |  | <b>A6 Emergency care in war zone Syria</b> |
| <b>Safeguarding children at risk.</b>   |  |  |
| <b>Examination under child protection procedures including charts for recording examination findings</b>  |  |  |

| <b>Component 4: DANGEROUS VIRAL INFECTIONS REQUIRING EMERGENCY TREATMENT</b> |  |               |
|--|--|---------------|
| <b>INFECTION</b>   | <b>Knowledge base</b>                                  | <b>Videos</b> |
| <b>Acute Hepatitis.</b>  | <b>Section 10 Handbook 1</b>                           |               |
| <b>Chickenpox</b>  | <b>Section 11 Handbook 1</b>                           |               |
| <b>COVID-19 including adolescents who are pregnant.</b>                      | <b>Section 12 Handbook 1</b>                           |               |
| <b>Human Immunodeficiency Virus. HIV</b>                                     | <b>Section 14 Handbook 1 and Section 36 Handbook 2</b> | <b>PI 9</b>   |
| <b>Measles</b>   | <b>Section 15 Handbook 1</b>                           | <b>PI 12</b>  |
| <b>Mumps</b>   | <b>Section 41 Handbook 2</b>                           |               |
| <b>Poliomyelitis</b>   | <b>Section 43 Handbook 2</b>                           |               |
| <b>Rabies management and prevention</b>                                      | <b>Section 44 Handbook 2</b>                           |               |
| <b>Viral haemorrhagic fevers.</b>  | <b>Section 16 Handbook 1</b>                           |               |
| <b>Yellow Fever.</b>   | <b>Section 17 Handbook 1</b>                           |               |

| <b>Component 5: DANGEROUS BACTERIAL INFECTIONS REQUIRING EMERGENCY TREATMENT</b>   |  |                             |
|--|--|-----------------------------|
| <b>INFECTION</b>   | <b>Knowledge base</b>                                      | <b>Videos</b>               |
| <b>Botulism.</b>   | <b>Section 18 Handbook 1</b>                               |                             |
| <b>Buruli ulcer</b>  | <b>Section 31 Handbook 2</b>                               |                             |
| <b>Diphtheria.</b>   | <b>Section 19 Handbook 1</b>                               | <b>PI 6</b>                 |
| <b>Leprosy</b>   | <b>Section 39 Handbook 2</b>                               |                             |
| <b>Leptospirosis.</b>  | <b>Section 20 Handbook 1</b>                               |                             |
| <b>Lyme disease</b>  | <b>Section 40 Handbook 2</b>                               |                             |
| <b>Meningococcal Disease.</b>  | <b>Section 21 Handbook 1</b>                               |                             |
| <b>Pertussis.</b>  | <b>Section 22 Handbook 1</b>                               | <b>PI 14</b>                |
| <b>Relapsing Fevers.</b>   | <b>Section 23 Handbook 1</b>                               |                             |
| <b>Rickettsial Diseases.</b>   | <b>Section 24 Handbook 1</b>                               |                             |
| <b>Streptococcal Disease.</b>  | <b>Section 25 Handbook 1</b>                               |                             |
| <b>Tetanus.</b>  | <b>Section 26 Handbook 1</b>                               | <b>N73, N74, N75, PI 25</b> |
| <b>Tuberculosis</b>  | <b>Section 27 Handbook 1 and<br/>Section 51 Handbook 2</b> |                             |
| <b>Typhoid or Paratyphoid.</b>   | <b>Section 28 Handbook 1</b>                               |                             |
| <b>Yaws</b>  | <b>Section 53 Handbook 2</b>                               |                             |
| <b>Other bacterial Infections.</b><br><b>Anthrax.</b><br><b>Brucellosis.</b><br><b>Campylobacter.</b><br><b>Chlamydia.</b><br><b>Haemophilus influenzae.</b><br><b>Plague.</b><br><b>Shigellosis.</b><br><b>Staphylococcal infections.</b> | <b>Section 29 Handbook 1</b>                               |                             |



| <b>Component 6: DANGEROUS PROTOZOAL INFECTIONS REQUIRING EMERGENCY TREATMENT</b> |   |                           |
|--|---|---------------------------|
| <b>INFECTION</b>   | <b>Knowledge base</b>   | <b>Videos</b>             |
| <b>African Trypanosomiasis.</b>  | <b>Section 30 Handbook 1</b>  |                           |
| <b>Amoebiasis</b>  | <b>Sections 60 and 61 Handbook 1</b>  |                           |
| <b>Cryptosporidiosis</b>   | <b>Sections 60,62 and 64 Handbook 1</b><br><b>Section 36 Handbook 2</b>         |                           |
| <b>Giardiasis</b>  | <b>Sections 56,60 and 61 Handbook 1</b><br><b>Sections 29 and 36 Handbook 2</b> |                           |
| <b>Leishmaniasis</b>   | <b>Section 38 Handbook 2</b>  |                           |
| <b>Malaria.</b>  | <b>Section 31 Handbook 1</b>  | <b>PI 3, PI 13, PI 20</b> |

| <b>Component 7: HELMINTHIC INFECTIONS</b> |                              |               |
|---|------------------------------|---------------|
| <b>INFECTION</b>                          | <b>Knowledge base</b>        | <b>Videos</b> |
| <b>Dracunculiasis</b>                     | <b>Section 33 Handbook 2</b> |               |
| <b>Fascioliasis</b>                       | <b>Section 34 Handbook 2</b> |               |
| <b>Filiariasis</b>                        | <b>Section 35 Handbook 2</b> |               |
| <b>Hydatid disease</b>                    | <b>Section 37 Handbook 2</b> |               |
| <b>Onchocerciasis</b>                     | <b>Section 42 Handbook 2</b> |               |
| <b>Schistosomiasis</b>                    | <b>Section 45 Handbook 2</b> |               |
| <b>Strongyloidiasis</b>                   | <b>Section 48 Handbook 2</b> |               |

| <b>Component 7: HELMINTHIC INFECTIONS</b> |                              |  |
|---|------------------------------|--|
| <b>Taeniasis/cysticercosis</b>            | <b>Section 32 Handbook 2</b> |  |
| <b>Worms</b>                              | <b>Section 52 Handbook 2</b> |  |

| <b>Component 8: SEXUALLY TRANSMITTED INFECTIONS (STIs)</b> |                              |               |
|--|------------------------------|---------------|
| <b>INFECTION</b>   | <b>Knowledge base</b>        | <b>Videos</b> |
| <b>Diagnosis</b>   | <b>Section 47 Handbook 2</b> |               |
| <b>Alerting to the possibility of sexual abuse</b>         |                              |               |
| <b>Genital ulcers and lymphadenitis;</b>                   |                              |               |
| <b>Genital herpes;</b>                                     |                              |               |
| <b>Chancre of Primary Syphilis</b>                         |                              |               |
| <b>Chancroid;</b>  |                              |               |
| <b>Lymphogranuloma venereum;</b>                           |                              |               |
| <b>Granuloma inguinale;</b>                                |                              |               |
| <b>Urethritis and Vulvo-vaginitis;</b>                     |                              |               |
| <b>Pelvic inflammatory disease (PID) and epididymitis;</b> |                              |               |
| <b>Acute balanoposthitis;</b>                              |                              |               |
| <b>Genital Warts;</b>                                      |                              |               |
| <b>Syphilis</b>  | <b>Section 49 Handbook 2</b> |               |

| <b>Component 9: STRUCTURED APPROACH TO MANAGING TRAUMA EMERGENCIES IN CHILDREN AND IN ADOLESCENT GIRLS WHO ARE PREGNANT</b> |                       |               |
|---|-----------------------|---------------|
| <b>SKILL</b>  | <b>Knowledge base</b> | <b>Videos</b> |
|   |                       |               |

| <b>Component 9: STRUCTURED APPROACH TO MANAGING TRAUMA EMERGENCIES IN CHILDREN AND IN ADOLESCENT GIRLS WHO ARE PREGNANT</b>   |  |                   |
|---|--|-------------------|
| <b>Triage</b>   | <b>Section 1 Handbook 1</b>                                  |                   |
| <b>Blood transfusion</b>  | <b>Section 79 HANDBOOK 1</b><br><b>Section 54 Handbook 2</b> | <b>T7, T8, T9</b> |
| <b>Structured approach</b><br><b>Primary Survey and Resuscitation CABCADE</b>   | <b>Section 77 Handbook 1</b>                                 |                   |
| <b>Secondary Survey and Emergency Treatments</b>  |  |                   |
| <b>Definitive Care</b>  |  |                   |
| <b>Wounds and their management</b><br><b>Tetanus prevention</b><br><b>Antibiotics</b>   |  |                   |
| <b>Specific injuries</b><br><b>Abrasions</b><br><b>Lacerations and incisions</b><br><b>Stab wounds</b><br><b>Needlestick injuries</b>                               |  |                   |
| <b>Complications of wounds</b>  |  |                   |
| <b>Special issues regarding major trauma in children</b><br><b>Paediatric 'normal' values</b>   | <b>Section 79 HANDBOOK 1</b>                                 |                   |
| <b>Shock in the Paediatric Patient</b>  |  |                   |
| <b>Special Issues regarding Major Trauma in the child who is pregnant.</b><br><b>Anatomical and Physiological Changes in Pregnancy and the Management of Trauma</b> |  |                   |

| <b>Component 9: STRUCTURED APPROACH TO MANAGING TRAUMA EMERGENCIES IN CHILDREN AND IN ADOLESCENT GIRLS WHO ARE PREGNANT</b>   |  |   |
|---|--|---|
| <p><b>What are the Priorities?</b></p> <p><b>Action plan</b></p> <p><b>Indications for Caesarean section</b></p> <p><b>Resuscitative Hysterotomy (Perimortem Caesarean Section)</b></p> <p><b>Secondary Assessment in pregnancy</b></p> <p><b>Blunt trauma</b></p> <p><b>Penetrating abdominal wounds</b></p> <p><b>Thoracic trauma</b></p> |  |   |
| <p><b>Management of major trauma</b></p> <p><b>Primary assessment and resuscitation</b></p>   |  |   |
| <p><b>Management of the airway</b></p> <p><b>Open and maintain the airway</b></p> <p><b>Needle Cricothyroidotomy</b></p> <p><b>Surgical Cricothyroidotomy</b></p>   |  | <p><b>AC17</b></p> <p><b>A37</b></p>          |
| <p><b>Management of Breathing</b></p> <p><b>Assessment</b></p> <p><b>Needle Thoracocentesis</b></p> <p><b>Ventilation</b></p> <p><b>ATOMFC: Airway obstruction, Tension pneumothorax, Open pneumothorax, Flail chest, Cardiac tamponade</b></p>   |  |   |
| <p><b>Management of the circulation</b></p> <p><b>Assessment of blood loss</b></p> <p><b>Resuscitation of circulation</b></p>   |  | <p><b>C1, C2, C3, C4, C6, C7, C8, C9,</b></p> |

| <b>Component 9: STRUCTURED APPROACH TO MANAGING TRAUMA EMERGENCIES IN CHILDREN AND IN ADOLESCENT GIRLS WHO ARE PREGNANT</b>  |                              |                                       |
|--|------------------------------|---------------------------------------|
| <b>Stop bleeding</b><br><br><b>Tranexamic acid</b><br><br><b>IV Fluid Resuscitation</b><br><br><b>Management of shock due to massive haemorrhage</b><br><br><b>Vascular access</b> |                              |                                       |
| <b>Management of neurological failure</b><br><br><b>Assessment AVPU</b><br><br><b>Cervical spine protection</b>  |                              |                                       |
| <b>Analgesia in Major Trauma</b>   |                              |                                       |
| <b>Secondary Assessment and Emergency Treatment</b>  |                              |                                       |
| <b>Head injury</b>   |                              | <b>T 1,</b>                           |
| <b>Chest Trauma</b>  |                              | <b>AC 8, AC 11, AC 19, PR 18, T5,</b> |
| <b>Abdominal Trauma</b><br><br><b>FAST scanning</b>  |                              |                                       |
| <b>Pelvic trauma</b>   |                              |                                       |
| <b>Limb trauma</b>   |                              |                                       |
| <b>Trauma radiology</b>  | <b>Section 59 Handbook 2</b> |                                       |
| <b>Spinal trauma</b>   | <b>Section 58 Handbook 2</b> |                                       |
| <b>Continuing care for children who have suffered major trauma</b>   | <b>Section 80 Handbook 1</b> |                                       |
| <b>Head Injuries in Children</b>   | <b>Section 81 Handbook 1</b> |                                       |
| <b>Electrical Injuries</b>   | <b>Section 82 Handbook 1</b> |                                       |

**Component 9: STRUCTURED APPROACH TO MANAGING TRAUMA EMERGENCIES IN CHILDREN AND IN ADOLESCENT GIRLS WHO ARE PREGNANT**

|  |  |      |
|--|--|------|
| Near drowning                                      | Section 83 Handbook 1                              |      |
| Heat stroke  | Section 84 Handbook 1                              |      |
| Hypothermia  | Section 85 Handbook 1                              |      |
| Burns in children including those who are pregnant | Section 86 Handbook 1                              | T 10 |
| First aid  |  |      |
| Emergency pain control                             |  |      |
| Hospital Admission                                 |  | T 4  |
| Dressings  |  |      |
| Tetanus  |  |      |
| Antibiotics  |  |      |
| Primary Assessment and Resuscitation               |  |      |
| Assessment of TBSA.                                |  |      |
| Inhalational Injury                                |  |      |
| Surgery  |  |      |
| Prevention   |  |      |
| Features of burns suggesting child abuse           |  |      |
| Burns in Pregnancy                                 | See Obstetric Handbook<br>Section D2               |      |
| Fractures in children                              | Section 78 Handbook 1<br><br>Section 55 Handbook 2 |      |

**Component 10: POISONING**

|              |                       |                              |
|--------------|-----------------------|------------------------------|
| <b>SKILL</b> | <b>Knowledge base</b> | <b>Videos from E Library</b> |
|--------------|-----------------------|------------------------------|

| <b>Component 10: POISONING</b>                          |                              |  |
|---|------------------------------|--|
| <b>Mortality</b>  | <b>Section 87 Handbook 1</b> |  |
| <b>Symptoms and clinical signs of poisoning</b>         |                              |  |
| <b>Management</b>                                       |                              |  |
| <b>First Aid</b>  |                              |  |
| <b>Primary Assessment and Resuscitation</b>             |                              |  |
| <b>Secondary Assessment and Emergency Treatment</b>     |                              |  |
| <b>Hypoglycaemia:</b>                                   |                              |  |
| <b>Convulsions:</b>                                     |                              |  |
| <b>Opiate or methadone overdose:</b>                    |                              |  |
| <b>Minimising the effects of the ingested substance</b> |                              |  |
| <b>Child Abuse</b>                                      |                              |  |
| <b>Commonly Ingested Drugs and chemicals</b>            |                              |  |
| <b>Poisonous Plants</b>                                 |                              |  |
| <b>Carbon Monoxide Poisoning</b>                        |                              |  |
| <b>Volatile Substance Abuse ('sniffing')</b>            |                              |  |

| <b>Component 11: ENVENOMATION</b> |                              |                              |
|-----------------------------------|------------------------------|------------------------------|
| <b>SKILL</b>                      | <b>Knowledge base</b>        | <b>Videos from E Library</b> |
| <b>Prevention</b>                 | <b>Section 88 Handbook 1</b> |                              |

| <b>Component 11: ENVENOMATION</b>           |  |  |
|---|--|--|
| <b>Snakebite</b>                            |  |  |
| <b>First Aid Outside Hospital</b>           |  |  |
| <b>Diagnosis and Initial Assessment</b>     |  |  |
| <b>Hospital or Health Centre Management</b> |  |  |
| <b>Antivenom</b>                            |  |  |
| <b>Scorpion Stings</b>                      |  |  |
| <b>Spider bites</b>                         |  |  |
| <b>Marine Envenoming</b>                    |  |  |

| <b>Component 12: ACUTE UPPER AIRWAY OBSTRUCTION DUE TO STRUCTURAL ABNORMALITY AND INFECTIONS</b>     |                                      |                                  |
|--|--------------------------------------|----------------------------------|
| <b>SKILL</b>   | <b>Knowledge base</b>                | <b>Videos from E Library</b>     |
| <b>Croup (includes measles and herpes) bacterial tracheitis, acute epiglottitis, glandular fever</b> | <b>Sections 32 and 33 Handbook 1</b> | <b>AC 6, AC 12, AC 36, AC 41</b> |
|  |                                      | <b>PR 6, PR 7,</b>               |
| <b>Choking</b>   |                                      | <b>AC5</b>                       |
| <b>Angioneurotic oedema: anaphylaxis</b>   |                                      |                                  |
| <b>Airway burns</b>  |                                      |                                  |
| <b>Retropharyngeal abscess</b>   |                                      |                                  |
| <b>Mediastinal tumours</b>   |                                      |                                  |
| <b>Inhaled foreign body</b>  |                                      | <b>AC 10, PR 11, PR 13</b>       |
| <b>Obstructive sleep apnoea</b>  |                                      |                                  |

|   |
|---|
| <b>Component 13: BRONCHIOLITIS, ASTHMA, ANAPHYLAXIS</b> |
|---|



| SKILL  | Knowledge base        | Videos from E Library |
|--|-----------------------|-----------------------|
| Bronchiolitis, diagnosis and management                  | Section 34 Handbook 1 | PI 2, PR 1            |
| Asthma; diagnosis and management                         | Section 35 Handbook 1 | PR 12,                |
| Asthma; management of an acute episode                   |                       |                       |
| Asthma; management of severe and life-threatening asthma |                       | PI 18, PR 19          |
| Anaphylaxis  | Section 36 Handbook 1 |                       |

| Component 14: ACUTE RESPIRATORY INFECTION  |                       |                       |
|--|-----------------------|-----------------------|
| SKILL  | Knowledge base        | Videos from E Library |
| Acute Upper Respiratory Infection  | Section 37 Handbook 1 |                       |
| Coryza or pharyngitis  |                       |                       |
| Tonsillitis and peri-tonsillar abscess (quinsy)<br>Indications for tonsillectomy   |                       |                       |
| Acute suppurative otitis media (ASOM), chronic otitis media, secretory otitis media, mastoiditis   |                       |                       |
| Pneumonia; Acute Lower Respiratory Infection (ALRI)<br>Clinical features<br>Chest X-Ray<br>Severe pneumonia, Pneumonia that is not severe, No Pneumonia<br>Management<br>Oxygen<br>Antibiotics |                       | Section 38 Handbook 1 |

|   |                       |       |
|---|-----------------------|-------|
| HIV infection<br>Staphylococcal pneumonia<br>ALRI under 6 months of age |                       | PI 15 |
| Pleural effusion, empyema, and bronchiectasis                           | Section 39 Handbook 1 | PI 24 |

| <b>Component 15: CARDIAC PROBLEMS</b>   |                       |                              |
|---|-----------------------|------------------------------|
| <b>SKILL</b>  | <b>Knowledge base</b> | <b>Videos from E Library</b> |
| <b>Congenital heart disorders</b><br><br><b>Is there a cardiac problem?</b><br><br><b>Cyanotic defects with low pulmonary blood flow Tetralogy of Fallot: hyper-cyanotic episodes</b><br><br><b>Cyanotic congenital heart disease with duct-dependent pulmonary blood flow</b><br><br><b>Heart murmurs in the apparently well infant and older child</b><br><br><b>Cardiac defects in infants and children that may initially present without symptoms are characterised as follows:</b><br><b>Coarctation of the aorta, aortic stenosis, pulmonary stenosis, atrial septal defect (ASD) and partial atrioventricular septal defect (AVSD)</b><br><br><b>ECG findings</b> | Section 40 Handbook 1 |                              |
| <b>Rheumatic heart disorders</b><br><br><b>Acute rheumatic fever</b>  | Section 41 Handbook 1 |                              |

| <b>Component 15: CARDIAC PROBLEMS</b>  |                              |   |
|--|------------------------------|---|
| <p><b>Mitral valve regurgitation</b></p> <p><b>Mitral valve stenosis</b></p> <p><b>Aortic regurgitation</b></p>  |                              |   |
| <p><b>Heart failure and cardiomyopathy</b></p> <p><b>Heart failure in infancy presenting after the first few weeks of life</b></p> <p><b>Heart failure in later infancy and childhood</b></p> <p><b>Management of heart failure</b></p> <p><b>Cardiomyopathy and myocarditis</b></p> <p><b>Anomalous origin of the left coronary artery from the pulmonary artery (ALCAPA)</b></p>   | <b>Section 42 Handbook 1</b> | <b>C5</b>   |
| <p><b>Bacterial endocarditis</b></p>   | <b>Section 43 Handbook 1</b> |   |
| <p><b>Cardiac arrhythmias</b></p> <p><b>Supraventricular tachycardia</b></p> <p><b>Ventricular tachycardia</b></p>   | <b>Section 44 Handbook 1</b> |   |
| <p><b>Shock includes severe bleeding, dehydration, malnutrition, anaemia, sepsis (including Toxic Shock Syndrome) and anaphylaxis.</b></p> <p><b>Clinical diagnosis of shock</b></p> <p><b>Basic management of shock</b></p> <p><b>Shock due to bleeding (internal or external)</b></p> <p><b>Hypovolaemic shock due to severe dehydration.</b></p> <p><b>Shock in children with severe malnutrition</b></p> <p><b>Shock in children with severe anaemia</b></p> | <b>Section 45 Handbook 1</b> | <p><b>C1, C2, C3, C4, C6, C7, C8, C9,</b></p> <p><b>PI 19</b></p> |

| <b>Component 15: CARDIAC PROBLEMS</b> |  |  |
|---------------------------------------|--|--|
| Septic shock                          |  |  |
| Toxic shock syndrome (TSS)            |  |  |
| Shock from anaphylaxis                |  |  |

| <b>Component 16 MEDICAL RENAL DISORDERS</b>   |                              |                              |
|---|------------------------------|------------------------------|
| <b>SKILL</b>  | <b>Knowledge base</b>        | <b>Videos from E Library</b> |
| <b>Medical renal disorders</b><br><br><b>Common renal investigations: plasma or serum biochemistry Electrolytes</b><br><br><b>Dehydration and hypovolaemia</b><br><br><b>Fluid and electrolyte disorders</b><br><br><b>Urinary tract imaging techniques</b><br><br><b>Urinary tract infections (UTIs)</b><br><br><b>Hypertension</b><br><br><b>Glomerular disease</b><br><b>Nephrotic syndrome</b><br><b>Acute and chronic glomerulonephritis</b><br><b>Asymptomatic proteinuria or haematuria</b><br><br><b>Haemolytic uraemic syndrome (HUS)</b><br><br><b>Urinary tract stones</b> | <b>Section 46 Handbook 1</b> |                              |
| <b>Acute renal failure</b><br><br><b>Pre-renal ARF</b><br><br><b>Established renal failure</b><br><br><b>Post-renal failure</b><br><br><i>The need for dialysis</i>   | <b>Section 47 Handbook 1</b> |                              |

|                           |                       |  |
|---------------------------|-----------------------|--|
| Acute peritoneal dialysis |                       |  |
| Chronic renal failure.    | Section 16 Handbook 2 |  |

| <b>Component 17: LIVER DISORDERS</b>   |                       |                              |
|--|-----------------------|------------------------------|
| <b>SKILL</b>   | <b>Knowledge base</b> | <b>Videos from E Library</b> |
| <b>Acute Liver Failure</b><br><br><b>Causes</b><br><br><b>Degrees of acute liver failure</b><br><br><b>Management</b>  | Section 48 Handbook 1 | PI 10                        |
| <b>Chronic liver disease</b><br><br><b>Symptoms and signs</b><br><br><b>Cholestatic CLD and its management</b><br><br><b>Portal hypertension (PHT) Diagnosis and management</b><br><b>Treatment of bleeding varices</b><br><br><b>Chronic viral hepatitis B, C and D</b><br><br><b>Drug induced liver disease</b><br><br><b>The management of nutrition in CLD</b> | Section 49 Handbook 1 |                              |

| <b>Component 18: ENDOCRINE DISORDERS</b>  |                       |                              |
|---|-----------------------|------------------------------|
| <b>SKILL</b>  | <b>Knowledge base</b> | <b>Videos from E Library</b> |
| <b>Diabetes and Diabetic KetoAcidosis (DKA)</b><br><br><b>Diabetes: Type 1 and Type 2</b><br><br><b>Diabetic ketoacidosis: Management</b> | Section 50 Handbook 1 | PI 5, PR 2, PR 3,            |

| <b>Component 18: ENDOCRINE DISORDERS</b>  |                              |  |
|---|------------------------------|--|
| <b>Insulin</b><br><b>Outpatient care</b>  |                              |  |
| <b>Hypoglycaemia</b><br><b>Causes and management</b>  | <b>Section 51 Handbook 1</b> |  |
| <b>Adrenal crisis</b>   | <b>Section 52 Handbook 1</b> |  |
| <b>Thyroid disorders</b><br><b>Neonatal thyrotoxicosis</b><br><b>Congenital hypothyroidism</b><br><b>Iodine deficiency</b><br><b><i>Acquired hypothyroidism</i></b><br><b>Thyrotoxicosis</b><br><b>Thyroid mass</b> | <b>Section 53 Handbook 1</b> |  |
| <b>Addison's disease (hypoadrenalism)</b><br><b>Cushing's syndrome (hyper-adrenalism)</b>   | <b>Section 54 Handbook 1</b> |  |
| <b>Disorders of sexual development</b><br><b>Congenital adrenal hyperplasia(CAH)</b>  | <b>Section 19 Handbook 2</b> |  |

| <b>Component 19: VITAMIN AND MINERAL DEFICIENCIES</b> |                              |                              |
|---|------------------------------|------------------------------|
| <b>SKILL</b>  | <b>Knowledge base</b>        | <b>Videos from E Library</b> |
| <b>Vitamin A deficiency</b>                           | <b>Section 55 Handbook 1</b> |                              |
| <b>Vitamin B1 deficiency: beriberi</b>                |                              |                              |
| <b>Nicotinic acid (niacin) deficiency: pellagra</b>   |                              |                              |
| <b>Vitamin C deficiency: scurvy</b>                   |                              |                              |
| <b>Vitamin D3 deficiency: rickets</b>                 |                              |                              |
|   |                              |                              |

| <b>Component 19: VITAMIN AND MINERAL DEFICIENCIES</b> |  |  |
|---|--|--|
| <b>Vitamin K deficiency</b>                           |  |  |
| <b>Folic acid deficiency</b>                          |  |  |
| <b>Iodine deficiency</b>                              |  |  |
| <b>Zinc deficiency</b>                                |  |  |

| <b>Component 20: SEVERE MALNUTRITION</b>  |  |                              |
|---|--|------------------------------|
| <b>SKILL</b>  | <b>Knowledge base</b>                    | <b>Videos from E Library</b> |
| <b>Assessing nutrition, growth, and pubertal development of children.<br/>Measuring body surface area</b> | <b>Sections 65 and 66<br/>Handbook 2</b> |                              |
| <b>Common anthropometric case definitions</b>   | <b>SECTION 56 HANDBOOK 1</b>             | <b>PI 4, PI 21</b>           |
| <b>Severe Acute Malnutrition (SAM)</b>  |  |                              |
| <b>Principles of Treatment SAM</b>  |  |                              |
| <b>Criteria for admission to inpatient-based “stabilization-centre” care</b>                              |  |                              |
| <b>INPATIENT MANAGEMENT - OVERVIEW</b>  |  |                              |
| <b>Phases of malnutrition treatment</b>   |  |                              |
| <b>Dehydration with severe malnutrition</b>   |  |                              |
| <b>Emergency IV treatment of established shock in severe malnutrition</b>                                 |  |                              |
| <b>Electrolyte problems in severe malnutrition</b>  |  |                              |
| <b>Infections in severe malnutrition: treatment and prevention</b>  |  |                              |
| <b>Septic shock: recognition AND TREATMENT</b>  |  |                              |

| <b>Component 20: SEVERE MALNUTRITION</b>  |  |  |
|---|--|--|
| <b>Hypothermia: prevention and treatment</b>  |  |  |
| <b>Hypoglycaemia: prevention and treatment</b>  |  |  |
| <b>Congestive heart failure</b>   |  |  |
| <b>Measles: prevention and treatment</b>  |  |  |
| <b>Micronutrient deficiencies</b>   |  |  |
| <b>Treatment of anaemia</b>   |  |  |
| <b>Dermatosis of kwashiorkor</b>  |  |  |
| <b>Continuing diarrhoea</b>   |  |  |
| <b>Other infections common in severely malnourished children</b>  |  |  |
| <b>Malnutrition and HIV</b>   |  |  |
| <b>Dietary treatment of severe malnutrition</b>   |  |  |
| <b>Failure to gain weight</b>   |  |  |
| <b>Emotional and physical stimulation</b>   |  |  |
| <b><i>Children with underlying disability</i></b>   |  |  |
| <b>Management of small &amp; nutritionally at-risk Infants aged under 6 months and their mothers (MAMI)</b> |  |  |
| <b>Problems with management</b>   |  |  |

| <b>Component 21: SEVERE ANAEMIA</b> |                              |                              |
|-------------------------------------|------------------------------|------------------------------|
| <b>SKILL</b>                        | <b>Knowledge base</b>        | <b>Videos from E Library</b> |
| <b>Definitions</b>                  | <b>Section 57 Handbook 1</b> |                              |
| <b>Main causes</b>                  |                              |                              |



| <b>Component 21: SEVERE ANAEMIA</b>                       |  |  |
|---|--|--|
| <b>Management of iron deficiency anaemia</b>              |  |  |
| <b>Blood transfusion</b>                                  |  |  |
| <b>Antihelminthic drugs</b>                               |  |  |
| <b>Treatment of severely anaemic child who is shocked</b> |  |  |

| <b>Component 22: SICKLE CELL DISEASE</b>   |  |                              |
|--|--|------------------------------|
| <b>SKILL</b>   | <b>Knowledge base</b>  | <b>Videos from E Library</b> |
| <b>Sickle cell disease</b><br><b>Genetic basis; Prognosis; Pathogenesis;</b><br><b>Clinical presentations; Newborn screening programmes;</b> | <b>Section 58 Handbook 1 for summary</b><br><br><b>Section 26 Handbook 2 for details</b> |                              |
| <b>Management of an acute sickle crisis;</b>   |  |                              |
| <b>Specific infections; Osteomyelitis;</b><br><b>Malaria; Meningitis;</b><br><b>Gastroenteritis/diarrhoea; Viral infection;</b>              |  |                              |
| <b>Severe anaemia in sickle-cell disease;</b>  |  |                              |
| <b>Acute sequestration events; Treatment;</b><br><b>Aplastic crisis;</b><br><br><b>Acute chest syndrome (ACS);</b>                           |  |                              |
| <b>Neurological complications of sickle-cell disease;</b>  |  |                              |
| <b>Splenectomy in sickle-cell disease;</b>   |  |                              |
| <b>Priapism</b>  |  |                              |
| <b>Sleep-related upper airways obstruction;</b>  |  | <b>PI 22</b>                 |
| <b>Blood transfusion in sickle cell disease</b>  |  |                              |

|             |  |  |
|-------------|--|--|
| Hydroxyurea |  |  |
|-------------|--|--|

| Component 23 BLOOD CLOTTING DISORDERS                            |                       |  |
|--|-----------------------|--|
| Factor deficiencies: Haemophilia                                 | SECTION 59 HANDBOOK 1 |  |
| Platelet deficiencies: idiopathic thrombocytopenic purpura (ITP) |                       |  |

| Component 24 HAEMOLYTIC ANAEMIAS  |                       |  |
|---|-----------------------|--|
| Causes  | Section 21 Handbook 2 |  |
| Spherocytosis. Elliptocytosis. Stomatocytosis.  |                       |  |
| G6PD deficiency.<br>Pyruvate kinase deficiency.   |                       |  |
| Alpha thalassaemia. Beta thalassaemia trait and Beta thalassaemia major.<br>Management, transfusion |                       |  |
| Acquired haemolytic anaemia.  |                       |  |

| Component 25: ACUTE DIARRHOEA  |                                  |                       |
|--|----------------------------------|-----------------------|
| SKILL  | Knowledge base                   | Videos from E Library |
| Classification<br>Principles of case management<br>Calculating fluid requirements<br>Treatment with low-osmolarity ORS<br>Zinc supplementation | Sections 60,61 and 62 Handbook 1 | PI 19, PI 26          |

| <b>Component 25: ACUTE DIARRHOEA</b>  |  |  |
|---|--|--|
| <p><b>Estimated degrees of dehydration with symptoms, signs and treatment</b></p> <p><b>Supportive treatments</b></p> <p><b>Drug therapy: use of antimicrobial and 'anti- diarrhoeal' drugs</b></p> <p><b>Bloody diarrhoea</b></p> <p><b>Severe dehydration with shock</b></p> <p><b>Post-infectious prolonged or persistent diarrhoea</b></p> <p><b>Management of persistent diarrhoea</b></p> <p><b>Dietary treatment of persistent diarrhoea</b></p> |  |  |

| <b>Component 26: GASTRO-INTESTINAL DISEASE</b>  |                              |                              |
|---|------------------------------|------------------------------|
| <b>SKILL</b>  | <b>Knowledge base</b>        | <b>Videos from E Library</b> |
| <p><b>Inflammatory bowel disease</b></p> <p><b>Crohn's and ulcerative colitis and their diagnoses and managements</b></p>                             | <b>Section 63 Handbook 1</b> |                              |
| <b>Gastrointestinal bleeding; its causes and clinical features and management</b>   | <b>Section 64 Handbook 1</b> |                              |
| <b>Constipation</b>   | <b>Section 17 Handbook 2</b> |                              |
| <b>Cystic fibrosis</b>  | <b>Section 18 Handbook 2</b> |                              |
| <p><b>Upper gastroenterological disorders.</b></p> <p><b>Gastro-oesophageal reflux.</b></p> <p><b>Helicobacter.</b></p> <p><b>Duodenal ulcer.</b></p> | <b>Section 28 Handbook 2</b> |                              |

| <b>Component 26: GASTRO-INTESTINAL DISEASE</b>  |                              |  |
|---|------------------------------|--|
| <p><b>Malabsorption, including coeliac disease.</b></p> <p><b>Types of malabsorption. Clinical features. Diagnosis. Common causes.</b></p> <p><b>Coeliac disease. Diagnosis. Biopsies. Treatment.</b></p> | <b>Section 29 Handbook 2</b> |  |

| <b>Component 27: Cancer in children</b>   |                              |                              |
|---|------------------------------|------------------------------|
| <b>SKILL</b>  | <b>Knowledge base</b>        | <b>Videos from E Library</b> |
| <b>Management in resource-limited countries;</b>  | <b>Section 15 Handbook 2</b> |                              |
| <b>Specialist cancer centres or units;</b>  |                              |                              |
| <b>Diagnosis, imaging, biochemical markers, pathology</b>   |                              |                              |
| <b>Treatment protocols; Chemotherapy; Surgery; Radiotherapy;</b>  |                              |                              |
| <b>Side effects of chemotherapy; Bone-marrow suppression; Infection; Bleeding; Anaemia; Nausea and vomiting; Mucositis; Alopecia; Fatigue and cachexia; Tumour lysis syndrome; Late effects; Infertility; Secondary malignancy;</b> |                              |                              |
| <b>Acute lymphoblastic leukaemia (ALL);</b>   |                              |                              |
| <b>Acute myeloid leukaemia (AML);</b>   |                              |                              |
| <b>Non-Hodgkin's lymphoma (NHL) including Burkitt's lymphoma;</b>   |                              |                              |
| <b>Hodgkin's lymphoma;</b>  |                              |                              |
| <b>Brain tumours; Medulloblastoma; Cerebellar low-grade astrocytoma; High-grade glioma; Ependymoma; Brainstem</b>   |                              |                              |

| <b>Component 27: Cancer in children</b>                           |  |  |
|---|--|--|
| glioma; Diffuse (malignant) brainstem gliomas; Craniopharyngioma; |  |  |
| Neuroblastoma;  |  |  |
| Retinoblastoma  |  |  |
| Wilms' tumour (nephroblastoma);                                   |  |  |
| Liver tumours;  |  |  |
| Soft-tissue sarcomas; Kaposi's sarcoma;                           |  |  |
| Bone sarcomas including Ewing's tumour and osteosarcoma;          |  |  |
| Palliative chemotherapy and radiotherapy.                         |  |  |

| <b>Component 28: ACUTE RHEUMATOLOGY</b>       |                       |                              |
|---|-----------------------|------------------------------|
| <b>SKILL</b>                                  | <b>Knowledge base</b> | <b>Videos from E Library</b> |
| Rheumatic fever                               | Section 41 Handbook 1 |                              |
| Vasculitis                                    |                       |                              |
| Henoch–Schönlein purpura (HSP)                |                       |                              |
| Kawasaki disease                              |                       |                              |
| Juvenile idiopathic arthritis                 |                       |                              |
| Paediatric systemic lupus erythematosus (SLE) |                       |                              |
| Juvenile dermatomyositis (JDM)                |                       |                              |
| Idiopathic inflammatory myopathies            |                       |                              |

| <b>Component 29 NEUROLOGICAL DISORDERS</b>   |                              |                                |
|--|------------------------------|--------------------------------|
| <b>SKILL</b>   | <b>Knowledge base</b>        | <b>Videos from E Library</b>   |
| <b>Coma; causes</b><br><br><b>Level of consciousness: coma scales</b><br><br><b>Raised intracranial pressure</b><br><br><b>Management</b>                        | <b>Section 66 Handbook 1</b> | <b>NV1,</b>                    |
| <b>Bacterial meningitis; diagnosis, pathogens, treatment</b><br><br><b>Supportive care</b><br><br><b>Immunisation</b><br><br><b>Prophylaxis</b>                  | <b>Section 67 Handbook 1</b> | <b>NV2, NV3, NV4, NV5, NV6</b> |
| <b>Muscular dystrophy</b><br><br><b>Duchenne muscular dystrophy; Becker muscular dystrophy; Limb girdle muscular dystrophies; Congenital muscular dystrophy.</b> | <b>Section 24 Handbook 2</b> |                                |
| <b>Neuropathies including Guillain-Barre</b>   | <b>Section 25 Handbook 2</b> |                                |
| <b>Anterior horn cell disease; Spinal muscular atrophy;</b>  |                              |                                |
| <b>Peripheral neuropathy;</b>  |                              |                                |
| <b>Hereditary motor and sensory neuropathy;</b>  |                              |                                |
| <b>Guillain–Barré syndrome;</b>  |                              |                                |
| <b>Chronic inflammatory demyelinating polyradiculoneuropathy;</b>  |                              |                                |
| <b>Encephalitis; causes, investigations, clinical features, diagnosis</b><br><br><b>Enteroviruses</b>  | <b>Section 68 Handbook 1</b> |                                |

| <b>Component 29 NEUROLOGICAL DISORDERS</b>  |   |                     |
|---|---|---------------------|
| <p><b>Japanese Encephalitis Virus</b></p> <p><b>Herpes simplex virus</b></p> <p><b>Varicella zoster virus (VZV)</b></p> <p><b>Measles</b></p> <p><b>Rabies</b></p> <p><b>Mycoplasma</b></p> <p><b>Cryptococcus</b></p>  |   |                     |
| <p><b>Epilepsy</b></p> <p><b>Clinical diagnosis</b></p> <p><b>Anti-epilepsy drugs</b></p> <p><b>Most common syndromes of epilepsy</b></p> <p><b>Social issues</b></p> <p><b>Febrile seizures</b></p> <p><b>Convulsive status epilepticus</b></p> <p><b>Immediate management</b></p> <p><b>Drug treatment</b></p> <p><b>General supportive treatment</b></p> | <p><b>Section 69 Handbook 1</b></p> <p><b>Section 70 Handbook 1</b></p> | <p><b>PI 23</b></p> |
| <p><b>Breath-holding episodes</b></p> <p><b>Cyanotic breath-holding episodes</b></p> <p><b>Pallid asystolic spells (reflex anoxic seizures)</b></p> <p><b>Diagnosis and management</b></p>  | <p><b>Section 71 Handbook 1</b></p>                                     |                     |
| <p><b>Migraine</b></p> <p><b>Classification</b></p> <p><b>Management of acute migraine</b></p>  | <p><b>Section 72 Handbook 1</b></p>                                     |                     |

| <b>Component 29 NEUROLOGICAL DISORDERS</b>     |                              |               |
|--|------------------------------|---------------|
| <b>Prophylaxis</b>                             |                              |               |
| <b>Thunderclap headache</b>                    |                              |               |
| <b>Neurosurgical disorders</b>                 | <b>Section 73 Handbook 1</b> |               |
| <b>Raised intracranial pressure management</b> |                              | <b>PR 10,</b> |
| <b>Intracranial abscesses</b>                  |                              |               |
| <b>Hydrocephalus</b>                           |                              |               |
| <b>Myelomeningocele</b>                        |                              |               |

| <b>Component 30: SURGICAL DISORDERS</b>      |                              |                              |
|--|------------------------------|------------------------------|
| <b>SKILL</b>                                 | <b>Knowledge base</b>        | <b>Videos from E Library</b> |
| <b>Indirect inguinal hernia</b>              | <b>Section 74 Handbook 1</b> |                              |
| <b>Incarcerated hernia</b>                   |                              |                              |
| <b>Hydrocoele</b>                            |                              |                              |
| <b>Undescended testis (cryptorchidism)</b>   |                              |                              |
| <b>Phimosis</b>                              |                              |                              |
| <b>Hypospadias</b>                           |                              |                              |
| <b>Bladder stones</b>                        |                              |                              |
| <b>Cervical swellings:</b>                   |                              |                              |
| <b>Lymphadenopathy</b>                       |                              |                              |
| <b>Cystic hygroma</b>                        |                              |                              |
| <b>Branchial cysts, sinuses and fistulae</b> |                              |                              |
| <b>Thyroglossal cyst</b>                     |                              |                              |



| <b>Component 30: SURGICAL DISORDERS</b>  |  |  |
|--|--|--|
| Epidermoid cyst<br>Haemangiomas  |  |  |
| Obstructive jaundice in infancy  |  |  |
| Empyema thoracis   |  |  |
| Urinary tract infection (UTI) due to surgical causes<br>Vesico-ureteric reflux (VUR) |  |  |
| Umbilical hernia<br>Umbilical discharge  |  |  |
| Appendicitis   |  |  |
| Pyloric stenosis   |  |  |
| Intussusception  |  |  |
| Intestinal obstruction   |  |  |
| Hirschsprung's disease   |  |  |
| Perforative peritonitis  |  |  |

| <b>Component 31: ORTHOPAEDIC DISORDERS</b>                     |                       |                              |
|--|-----------------------|------------------------------|
| <b>SKILL</b>   | <b>Knowledge base</b> | <b>Videos from E Library</b> |
| Infections<br>Pyomyositis<br>Osteomyelitis<br>Septic arthritis | Section 75 Handbook 1 |                              |
| Non-infective conditions<br>Developmental dysplasia of the hip |                       |                              |

| <b>Component 31: ORTHOPAEDIC DISORDERS</b>  |  |  |
|---|--|--|
| <b>Congenital talipes equinovarus</b><br><br><b>Perthes disease (Legg–Calve–Perthes disease)</b><br><br><b>Slipped upper femoral epiphysis</b><br><br><b>Genu varum and genu valgum</b><br><br><b>Scoliosis</b> |  |  |

| <b>Component 32 FRACTURES IN CHILDREN</b>  |  |                              |
|--|--|------------------------------|
| <b>SKILL</b>   | <b>Knowledge base</b>                                  | <b>Videos from E Library</b> |
| <b>Diagnosis</b>   | <b>Section 78 Handbook 1 and Section 55 Handbook 2</b> |                              |
| <b>Open fractures</b><br><br><b>Compartment Syndrome;</b><br><br><b>X-rays; Salter-Harris Classification</b>   |  |                              |
| <b>Treatment of Fractures; Splinting; Plaster Craft; Traction; External Fixation; Internal Fixation;</b>   |  |                              |
| <b>Ongoing fracture care; Rehabilitation;</b>  |  |                              |
| <b>Specific Fractures;</b><br><br><b>Femoral shaft</b><br><br><b>Tibial shaft</b><br><br><b>Distal humerus</b><br><br><b>Forearm fractures</b><br><br><b>Distal radial ('wrist') fractures</b> |  |                              |

| <b>Component 33: EYE PROBLEMS</b>  |                              |                              |
|--|------------------------------|------------------------------|
| <b>SKILL</b>   | <b>Knowledge base</b>        | <b>Videos from E Library</b> |
| <b>Eye examination and diagnosis:</b>  | <b>Section 20 Handbook 2</b> |                              |
| <b>Examining the eyes of young children;</b>   |                              |                              |
| <b>Presenting symptoms of eye disease;</b>   |                              |                              |
| <b>Conjunctivitis; Acute bacterial conjunctivitis; Acute viral conjunctivitis; Vernal conjunctivitis;</b>  |                              | <b>PI1</b>                   |
| <b>Trachoma</b>  |                              |                              |
| <b>Corneal ulcers; Herpes simplex; Bacterial corneal ulcers; Fungal corneal ulcers;</b>  |                              |                              |
| <b>Iritis</b>  |                              |                              |
| <b>Vitamin A deficiency (xerophthalmia);</b>   |                              |                              |
| <b>The child who cannot see or who cannot see well</b>   |                              |                              |
| <b>Corneal scarring; Cataract; Congenital glaucoma; Retinal diseases; Retinopathy of prematurity; Retinitis pigmentosa; Vitamin A deficiency; Retinoblastoma; Cortical blindness</b> |                              |                              |
| <b>Management</b>  |                              |                              |
| <b>Squint diagnosis and treatment.</b>   |                              |                              |
| <b>Trachoma</b>  | <b>Section 50 Handbook 2</b> |                              |

| <b>Component 34: MENTAL HEALTH CONDITIONS IN CHILDREN</b> |                              |               |
|---|------------------------------|---------------|
| <b>Skill</b>  | <b>Knowledge base</b>        | <b>Videos</b> |
| <b>Acute psychiatric emergencies</b>                      | <b>Section 22 Handbook 2</b> |               |

|  |                              |  |
|--|------------------------------|--|
| <b>Suicide and deliberate self-harm</b>  |                              |  |
| <b>Depressive Disorders;</b>   |                              |  |
| <b>Somatisation disorders;</b>   |                              |  |
| <b>Drugs and alcohol: use and abuse</b>  |                              |  |
| <b>Schizophrenia;</b>  |                              |  |
| <b>Post-traumatic stress disorder</b>  |                              |  |
| <b>Panic attacks;</b>  |                              |  |
| <b>Autism Spectrum Disorders (ASD)<br/>Asperger's syndrome<br/><br/>Attention deficit hyperactivity disorder (ADHD).</b> |                              |  |
| <b>Eating disorders and the danger of refeeding syndrome</b>   | <b>Section 23 Handbook 2</b> |  |

| <b>Component 35: SKIN DISORDERS</b>                      |                              |               |
|--|------------------------------|---------------|
| <b>Skill</b>   | <b>Knowledge base</b>        | <b>Videos</b> |
| <b>Skin disorders</b>                                    | <b>Section 27 Handbook 2</b> |               |
| <b>Scabies.</b>  |                              |               |
| <b>Impetigo.</b>   |                              |               |
| <b>Tropical ulcer.</b>                                   |                              |               |
| <b>Superficial fungal infections.<br/>Tinea capitis.</b> |                              |               |
| <b>Eczema.</b>   |                              |               |
| <b>Hypopigmentation and hyperpigmentation disorders.</b> |                              |               |

| <b>Component 36 MEDICAL ETHICS AND PROFESSIONAL STANDARDS</b>                |                             |  |
|--|-----------------------------|--|
| <b>Ethics of healthcare</b>  | <b>Section 8 Handbook 2</b> |  |
| <b>Autonomy</b>  |                             |  |
| <b>Beneficence</b>   |                             |  |
| <b>Non-maleficence</b>   |                             |  |
| <b>Justice:</b>  |                             |  |
| <b>The ethics of consent</b>   |                             |  |
| <b>Confidentiality</b>   |                             |  |
| <b>End-of-life issues</b>  |                             |  |
| <b>Hospital ethics committees</b>  |                             |  |
| <b>Research ethics</b>   |                             |  |
| <b>The health worker–patient relationship</b>                                |                             |  |
| <b>The healthcare worker–healthcare worker relationship</b>                  |                             |  |
| <b>The relationship between the healthcare worker and the system of care</b> |                             |  |
| <b>The relationship of the healthcare worker to society</b>                  |                             |  |

| <b>Component 37: MEDICAL RECORDS, HISTORY TAKING AND CLINICAL EXAMINATION</b> |                             |               |
|---|-----------------------------|---------------|
| <b>Skill</b>  | <b>Knowledge base</b>       | <b>Videos</b> |
| <b>History taking</b>   | <b>Section 9 Handbook 2</b> |               |
| <b>Examination</b>  |                             |               |
| <b>Patients who are not in need of immediate resuscitation</b>                |                             |               |
|   |                             |               |

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|---|--|--|
| <b>Component 37: MEDICAL RECORDS, HISTORY TAKING AND CLINICAL EXAMINATION</b> |  |  |
|   |  |  |