



Joint Committee on Intercollegiate Examinations

Intercollegiate Specialty Examination in Paediatric Surgery

Syllabus Blueprint 2023

The Royal College of Surgeons of Edinburgh
Nicolson Street Edinburgh EH8 9DW
Tel: 0131 662 9222
www.jcie.org.uk

Principles for Blueprinting Assessment to the Curriculum in Surgical Specialties

1. Standard educational practice requires a curriculum to include an indication of how each aspect of the syllabus is to be assessed. This “blueprinting” process also shows how each aspect relates to Good Medical Practice.
2. Each specialty syllabus has been mapped to a range of assessments:
 - a. CEX
 - b. CBD
 - c. DOPS
 - d. PBA
 - e. MSF
 - f. Section 1 Intercollegiate Specialty Board (ISB) Examination - written section
 - g. Section 2 Intercollegiate Specialty Board (ISB) Examination - clinical and oral section
3. This does not imply that the indicated assessments must be used.
4. The indications are not exclusive, and it is possible that other types of assessment which have not been indicated may also be used to assess individual items.
5. In general:
 - a. Knowledge will be assessed by Section 1 and Section 2 ISB Examination and by CBD.
 - b. Clinical skills will be assessed by CEX and Section 2 ISB Examination.
 - c. The use of scenarios within Section 2 ISB Examination allows a wide range of clinical skills to be assessed.
 - d. Technical skills will be assessed by DOPS and PBA
 - e. Professional skills will be assessed by MSF
6. The blueprinting indicates which assessments may be used for each item at any stage through training.
7. The Good Medical Practice domains are:
 1. Knowledge, skills and performance
 2. Safety and quality
 3. Communication, partnership and teamwork
 4. Maintaining trust

Groin conditions	CEX	CBD	DOPS	PBA	MSF	ISB Section 1	ISB Section 2	GMP
OBJECTIVE								
To be able to assess a child presenting to the OP clinic or acutely with 'groin pathology'								
To be able to formulate a differential diagnosis and an investigation and management plan								
To be able to treat the child appropriately up to and including operative intervention if required								
To be able to communicate the above information at the required level to patients / parents / other team members / referral source								
KNOWLEDGE								
INGUINAL HERNIA:								
Developmental anatomy		X				X	X	1
Natural history		X				X	X	1
Indications and outcomes of surgery		X				X	X	1,2
HYDROCELE:								
Developmental anatomy		X				X	X	1
Natural history		X				X	X	1
Place of conservative management		X				X	X	1
Indications and outcomes of surgery		X				X	X	1,2
UNDESCENDED TESTIS:								
Developmental anatomy		X				X	X	1
Natural history of undescended testis and retractile testis		X				X	X	1
Place of conservative management		X				X	X	1
Indications and outcomes of surgery		X				X	X	1,2
PENILE CONDITIONS:								
Developmental anatomy		X				X	X	1
Natural history		X				X	X	1
Place of conservative management		X				X	X	1
Indications and outcomes of surgery		X				X	X	1,2
ACUTE SCROTUM:								
Natural history		X				X	X	1
Place of conservative management		X				X	X	1
Indications and outcomes of surgery		X				X	X	1,2
CLINICAL SKILLS								
INGUINAL HERNIA:								
Ability to assess child and reach appropriate diagnosis	X	X					X	1,3
Ability to form a treatment plan	X	X					X	1
Ability to communicate with all relevant groups	X	X					X	1,3
HYDROCELE:								
Ability to assess child and reach appropriate diagnosis	X	X					X	1,3
Ability to form a treatment plan	X	X					X	1
Ability to communicate with all relevant groups	X	X					X	1,3
UNDESCENDED TESTIS:								
Ability to assess child and reach appropriate diagnosis	X	X					X	1,3
Ability to differentiate true undescended testis from retractile variant	X	X					X	1
Ability to form a treatment plan	X	X					X	1
Ability to communicate with all relevant groups	X	X					X	1,3
PENILE CONDITIONS:								
Ability to assess child and reach appropriate diagnosis	X	X					X	1,3
Ability to form a treatment plan	X	X					X	1
Ability to communicate with all relevant groups	X	X					X	1,3
ACUTE SCROTUM:								
Ability to assess child and reach appropriate diagnosis	X	X					X	1,3
Ability to form a treatment plan	X	X					X	1
Ability to communicate with all relevant groups	X	X					X	1,3
TECHNICAL SKILLS AND PROCEDURES								
HERNIA:								
Inguinal herniotomy (non-neonatal)		X	X					1
Inguinal hernia (neonatal)			X					1
HYDROCELE:								
Surgery for hydrocele		X	X					1
PENILE CONDITIONS:								
Prepuceoplasty			X					1
Circumcision		X	X					1
UNDESCENDED TESTIS:								
Surgery for undescended testis		X	X					1
ACUTE SCROTUM:								
Surgery for acute scrotum		X	X					1

Abdominal wall pathologies	CEX	CBD	DOPS	PBA	MSF	ISB Section 1	ISB Section 2	GMP
OBJECTIVE								
To be able to assess a child presenting to the OP clinic or acutely with abnormalities of the abdominal wall								
To be able to formulate a differential diagnosis and an investigation and management plan								
To be able to treat the child appropriately up to and including operative intervention if required								
To be able to communicate the above information at the required level to patients/ parents/ other team members/ referral source								
KNOWLEDGE								
UMBILICAL HERNIA:								
Developmental anatomy		X				X	X	1
Natural history		X				X	X	1
Place of conservative management		X				X	X	1
Indications and outcomes of surgery		X				X	X	1,2
SUPRA-UMBILICAL HERNIA:								
developmental anatomy		X				X	X	1
Natural history to include contrast with umbilical hernia		X				X	X	1
Indications and outcomes of surgery		X				X	X	1,2
EPIGASTRIC HERNIA:								
Developmental anatomy		X				X	X	1
Natural history		X				X	X	1
Indications and outcomes of surgery		X				X	X	1,2

CLINICAL SKILLS								
UMBILICAL HERNIA:								
Ability to assess child and reach appropriate diagnosis	X	X					X	1,3
Ability to form a treatment plan	X	X					X	1
Ability to communicate with all relevant groups	X	X					X	1,3
SUPRA-UMBILICAL HERNIA:								
Ability to assess child and reach appropriate diagnosis	X	X					X	1,3
Ability to form a treatment plan	X	X					X	1
Ability to communicate with all relevant groups	X	X					X	1,3
EPIGASTRIC HERNIA:								
Ability to assess child and reach appropriate diagnosis	X	X					X	1,3
Ability to form a treatment plan	X	X					X	1
Ability to communicate with all relevant groups	X	X					X	1,3
TECHNICAL SKILLS AND PROCEDURES								
UMBILICAL HERNIA:								
Repair of umbilical hernia			X	X				1
EPIGASTRIC HERNIA:								
Repair of epigastric hernia			X	X				1

Head and neck swellings	CEX	CBD	DOPS	PBA	MSF	ISB Section 1	ISB Section 2	GMP
OBJECTIVE								
To be able to assess a child presenting to the OP clinic or acutely with a head/neck swelling as the primary presenting symptom								
To be able to formulate a differential diagnosis and an investigation and management plan								
To be able to treat the child appropriately up to and including operative intervention if required								
To be able to communicate the above information at the required level to patients/ parents/ other team members/ referral source								
KNOWLEDGE								
Patterns of symptoms and relation to likely pathology, relevant anatomy and age of child		X				X	X	1
Relevance of embryonic development of head and neck structures		X				X	X	1
Differential diagnosis		X				X	X	1
Place and value of investigations		X				X	X	1
CLINICAL SKILLS								
Ability to assess child	X	X					X	1,3
Ability to form a viable investigation and treatment plan	X	X					X	1
Ability to communicate with all relevant groups	X	X					X	1,3
TECHNICAL SKILLS AND PROCEDURES								
Excision skin lesion			X	X				1
Excision/biopsy of lymph nodes			X	X				1
Surgery for thyroglossal cyst			X	X				1
Surgery for branchial cysts and branchial remnants			X	X				1

Access	CEX	CBD	DOPS	PBA	MSF	ISB Section 1	ISB Section 2	GMP
OBJECTIVE								
To be able to assess a child in need of central venous access								
To be able to formulate an appropriate management plan								
To be able to communicate appropriately to parents/patient/other teams								
KNOWLEDGE								
Relevant anatomy and physiology						X		
Relevance of co-existing pathology						X		
Place and value of investigations						X		
CLINICAL SKILLS								
Ability to assess child							X	
Ability to form a viable investigation and treatment plan							X	
Ability to communicate with all relevant groups							X	
TECHNICAL SKILLS AND PROCEDURES								
Vascular access:								
Central venous lines and ports (incl percutaneous)			X	X				1
Dialysis:								
PD catheter insertion/removal				X				1

Pyloric stenosis	CEX	CBD	DOPS	PBA	MSF	ISB Section 1	ISB Section 2	GMP
OBJECTIVE								
To be able to assess an infant with vomiting								
To be able to formulate a differential diagnosis and an investigation and management plan								
To be able to make a diagnosis of pyloric stenosis								
To be able to treat the child appropriately up to and including operative intervention if required								
To be able to communicate the above information at the required level to parents, other team members/referral source								
KNOWLEDGE								
Patterns of symptoms and relation to likely pathology		X				X	X	1
Significance of bile stained vomiting		X				X	X	1
Differential diagnosis		X				X	X	1
Place and value of investigations		X				X	X	1
Understanding of the biochemical changes associated with the condition		X				X	X	1
CLINICAL SKILLS								
Ability to assess ill child including an assessment of severity of dehydration	X	X					X	1,3
Ability to safely correct the dehydration and biochemical abnormalities	X	X					X	1
Ability to communicate with ill child (see ISB Section 1)	X	X					X	1,3
Ability to form a viable investigation and treatment plan	X	X					X	1
Ability to communicate with all relevant groups	X	X					X	1,3
TECHNICAL SKILLS AND PROCEDURES								
Pyloromyotomy				X				1

Gastro-oesophageal reflux	CEX	CBD	DOPS	PBA	MSF	ISB Section 1	ISB Section 2	GMP
OBJECTIVE								
To understand the presenting symptoms of common gastrointestinal conditions in childhood and their management								
To be able to formulate a differential diagnosis and an investigation and management plan								
To be able to treat the child appropriately up to and including operative intervention in selected cases								
To be able to communicate the above information at the required level to patients/ parents/ other team members/ referral source								
To be able to practice with integrity, respect and compassion								
KNOWLEDGE								
Pathophysiology		X				X	X	1
Investigation and management		X				X	X	1
Indications for operative intervention		X				X	X	1
CLINICAL SKILLS								
Ability to synthesise history and investigations into appropriate management plan	X	X					X	1
Ability to communicate information to parents/child	X	X					X	1,3
TECHNICAL SKILLS AND PROCEDURES								
OGD with biopsy			X	X				1
Oesophageal dilatation				X				1
Gastrostomy - open				X				1
PEG (insertion/removal)				X				1
Fundoplication (open/laparoscopic)				X				1
Feeding jejunostomy				X				1
Oesophago gastric disconnection				X				1

Abdominal pain	CEX	CBD	DOPS	PBA	MSF	ISB Section 1	ISB Section 2	GMP
OBJECTIVE								
To understand the presenting symptoms of common gastrointestinal conditions in childhood and their management								
To be able to formulate a differential diagnosis and an investigation and management plan								
To be able to treat the child appropriately up to and including operative intervention in selected cases								
To be able to communicate the above information at the required level to patients / parents / other team members / referral source								
To be able to practice with integrity, respect and compassion								
KNOWLEDGE								
Patterns of symptoms and relation to likely pathology and age of child		X				X	X	1
Differential diagnosis		X				X	X	1
Place and value of investigations		X				X	X	1
Place of operative intervention, and associated outcomes		X				X	X	1
CLINICAL SKILLS								
Ability to assess ill child	X	X					X	1
Ability to communicate with ill child (see ISB Section 1)	X	X					X	1,3
Ability to form a viable investigation and treatment plan	X	X					X	1
Ability to communicate with all relevant groups	X	X					X	1,3
TECHNICAL SKILLS AND PROCEDURES								
Appendicectomy (open and laparoscopic)			X	X				1
Operative reduction of intussusception				X				1

Constipation	CEX	CBD	DOPS	PBA	MSF	ISB Section 1	ISB Section 2	GMP
OBJECTIVE								
To understand the presenting symptoms of common gastrointestinal conditions in childhood and their management								
To be able to formulate a differential diagnosis and an investigation and management plan								
To be able to treat the child appropriately up to and including operative intervention in selected cases								
To be able to communicate the above information at the required level to patients / parents / other team members / referral source								
To be able to practice with integrity, respect and compassion								
KNOWLEDGE								
Patterns of symptoms and relation to likely pathology and age of child		X				X	X	1
Differential diagnosis to include medical anomalies and socio-psychological aspects of symptom		X				X	X	1
Place and value of investigations		X				X	X	1
CLINICAL SKILLS								
Ability to assess child	X	X					X	1,3
Ability to form a viable investigation and treatment plan	X	X					X	1
Ability to communicate with all relevant groups	X	X					X	1,3
To include community aspects of further management	X	X					X	1,3
TECHNICAL SKILLS AND PROCEDURES								
Rectal Biopsy			X					1
Manual evacuation			X					1
EUA rectum			X					1
Anal stretch			X					1
ACE procedure				X				1

Gastro-intestinal bleeding	CEX	CBD	DOPS	PBA	MSF	ISB Section 1	ISB Section 2	GMP
OBJECTIVE								
To understand the presenting symptoms of common gastrointestinal conditions in childhood and their management								
To be able to formulate a differential diagnosis and an investigation and management plan								
To be able to treat the child appropriately up to and including operative intervention in selected cases								
To be able to communicate the above information at the required level to patients / parents / other team members / referral source								
To be able to practice with integrity, respect and compassion								
KNOWLEDGE								
Patterns of symptoms and relation to likely pathology and age of child		X				X	X	1
Differential diagnosis		X				X	X	1
Place and value of investigations		X				X	X	1
Place of operative intervention, and associated outcomes		X				X	X	1,2
CLINICAL SKILLS								
Ability to assess ill child	X	X					X	1,3
Ability to communicate with ill child (see ISB Section 1)	X						X	1,3
Ability to form a viable investigation and treatment plan	X	X					X	1
Ability to communicate with all relevant groups	X	X					X	1,3

TECHNICAL SKILLS AND PROCEDURES								
OGD			X					1
Colonoscopy			X					1
Sigmoidoscopy			X					1
Small bowel resection/anastomosis (Meckels)				X				1
Small bowel resection/anastomosis – open and laparoscopically assisted (Meckels)				X				1

Intestinal obstruction	CEX	CBD	DOPS	PBA	MSF	ISB Section 1	ISB Section 2	GMP
OBJECTIVE								
To understand the presenting symptoms of common gastrointestinal conditions in childhood and their management								
To be able to formulate a differential diagnosis and an investigation and management plan								
To be able to treat the child appropriately up to and including operative intervention in selected cases								
To be able to communicate the above information at the required level to patients / parents / other team members / referral source								
To be able to practice with integrity, respect and compassion								
KNOWLEDGE								
Patterns of symptoms and relation to likely pathology and age of child		X				X	X	1
Differential diagnosis		X				X	X	1
Place and value of investigations		X				X	X	1
Place of operative intervention, and associated outcomes		X				X	X	1,2
CLINICAL SKILLS								
Ability to assess ill child	X	X					X	1,3
Ability to communicate with ill child (see ISB Section 1)	X						X	1,3
Ability to form a viable investigation and treatment plan	X	X					X	1
Ability to communicate with all relevant groups	X	X					X	1,3
TECHNICAL SKILLS AND PROCEDURES								
Laparotomy				X				1
Adhesiolysis				X				1
Small bowel resection/anastomosis				X				1
OGD			X					1

Inflammatory bowel disease	CEX	CBD	DOPS	PBA	MSF	ISB Section 1	ISB Section 2	GMP
OBJECTIVE								
To understand the presenting symptoms of common gastrointestinal conditions in childhood and their management								
To be able to formulate a differential diagnosis and an investigation and management plan								
To be able to treat the child appropriately up to and including operative intervention in selected cases								
To be able to communicate the above information at the required level to patients / parents / other team members / referral source								
To be able to practice with integrity, respect and compassion								
KNOWLEDGE								
Patterns of symptoms and relation to likely pathology and age of child		X				X	X	1
Differential diagnosis		X				X	X	1
Place and value of investigations		X				X	X	1
Place of operative intervention, and associated outcomes		X				X	X	1,2
CLINICAL SKILLS								
Ability to assess ill child	X	X					X	1,3
Ability to communicate with ill child (see ISB Section 1)	X						X	1,3
Ability to form a viable investigation and treatment plan	X	X					X	1
Ability to communicate with all relevant groups	X	X					X	1,3
TECHNICAL SKILLS AND PROCEDURES								
OGD			X					1
Colonoscopy			X					1
Sigmoidoscopy			X					1
Small bowel resection/anastomosis				X				1
Right hemicolectomy				X				1
Left hemicolectomy				X				1
Total colectomy				X				1
Pouch formation				X				1

Short bowel syndrome	CEX	CBD	DOPS	PBA	MSF	ISB Section 1	ISB Section 2	GMP
OBJECTIVE								
To understand the presenting symptoms of common gastrointestinal conditions in childhood and their management								
To be able to formulate a differential diagnosis and an investigation and management plan								
To be able to treat the child appropriately up to and including operative intervention in selected cases								
To be able to communicate the above information at the required level to patients / parents / other team members / referral source								
To be able to practice with integrity, respect and compassion								
KNOWLEDGE								
Patterns of symptoms and relation to likely pathology and age of child		X				X	X	1
Differential diagnosis		X				X	X	1
Place and value of investigations		X				X	X	1
Place of operative intervention, and associated outcomes		X				X	X	1,2
CLINICAL SKILLS								
Ability to assess ill child	X	X					X	1,3
Ability to communicate with ill child (see ISB Section 1)	X						X	1,3
Ability to form a viable investigation and treatment plan	X	X					X	1
Ability to communicate with all relevant groups	X	X					X	1,3
TECHNICAL SKILLS AND PROCEDURES								
No content								
Bowel lengthening procedures				X				

Liver/biliary disease	CEX	CBD	DOPS	PBA	MSF	ISB Section 1	ISB Section 2	GMP
OBJECTIVE								
To understand the presenting symptoms of common gastrointestinal conditions in childhood and their management								
To be able to formulate a differential diagnosis and an investigation and management plan								
To be able to treat the child appropriately up to and including operative intervention in selected cases								
To be able to communicate the above information at the required level to patients / parents / other team members / referral source								
To be able to practice with integrity, respect and compassion								
KNOWLEDGE								
Patterns of symptoms and relation to likely pathology and age of child		X				X	X	1
Differential diagnosis		X				X	X	1
Place and value of investigations		X				X	X	1
Place of operative intervention, and associated outcomes		X				X	X	1,2
CLINICAL SKILLS								
Ability to assess ill child	X	X					X	1,3
Ability to communicate with ill child (see ISB Section 1)	X						X	1,3
Ability to form a viable investigation and treatment plan	X	X					X	1
Ability to communicate with all relevant groups	X	X					X	1,3
TECHNICAL SKILLS AND PROCEDURES								
Cholecystectomy (open/laparoscopic)				X				1
Choledochal cyst				X				1
Kasai procedure				X				1

Congenital diaphragmatic hernia	CEX	CBD	DOPS	PBA	MSF	ISB Section 1	ISB Section 2	GMP
OBJECTIVE								
To understand the diagnosis and management of children presenting with congenital abnormalities in the neonatal period								
To be able to construct an appropriate management plan for these children								
To understand the place of operative management in the neonatal period and be able to carry this out in selected cases								
To be able to practice with integrity, respect and compassion								
KNOWLEDGE								
Mode of presentation both pre- and post natal		X				X	X	1
Patho-physiology of the condition and anatomical variants		X				X	X	1
Associated anomalies		X				X	X	1
Outcome data on the condition		X				X	X	1,2
Different management strategies		X				X	X	1
Role of pre-natal counselling		X				X	X	1
CLINICAL SKILLS								
Ability to assess child	X	X					X	1,3
Ability to form a viable investigation and treatment plan	X	X					X	1
Ability to communicate with all relevant groups	X	X					X	1,3
TECHNICAL SKILLS AND PROCEDURES								
Operation for diaphragmatic hernia (neonate)				X				1
Operation for diaphragmatic hernia (neonate) incl. eventration				X				1

Intestinal atresias	CEX	CBD	DOPS	PBA	MSF	ISB Section 1	ISB Section 2	GMP
OBJECTIVE								
To understand the diagnosis and management of children presenting with congenital abnormalities in the neonatal period								
To be able to construct an appropriate management plan for these children								
To understand the place of operative management in the neonatal period and be able to carry this out in selected cases								
To be able to practice with integrity, respect and compassion								
KNOWLEDGE								
Mode of presentation both pre- and post natal		X				X	X	1
Anatomical variants		X				X	X	1
Associated anomalies		X				X	X	1
Outcome data on the condition		X				X	X	1,2
Different management strategies		X				X	X	1
Role of pre-natal counselling		X				X	X	1
CLINICAL SKILLS								
Ability to assess child	X	X					X	1,3
Ability to form a viable investigation and treatment plan	X	X					X	1
Ability to communicate with all relevant groups	X	X					X	1,3
TECHNICAL SKILLS AND PROCEDURES								
Duodeno- duodenostomy				X				1
Intestinal resection/anastomosis				X				1
Stoma formation				X				1

Meconium ileus	CEX	CBD	DOPS	PBA	MSF	ISB Section 1	ISB Section 2	GMP
OBJECTIVE								
To understand the diagnosis and management of children presenting with congenital abnormalities in the neonatal period								
To be able to construct an appropriate management plan for these children including the appropriate use of radiological techniques in diagnosis and management								
To understand the place of operative management in the neonatal period and be able to carry this out in selected cases								
To be able to practice with integrity, respect and compassion								
KNOWLEDGE								
Mode of presentation both pre- and post natal		X				X	X	1
Patho-physiology of the condition and anatomical variants		X				X	X	1
Associated anomalies		X				X	X	1
Outcome data on the condition		X				X	X	1,2
Differing management strategies		X				X	X	1
Role of pre-natal + genetic counselling		X				X	X	1

Antenatal management	CEX	CBD	DOPS	PBA	MSF	ISB Section 1	ISB Section 2	GMP
OBJECTIVE								
To understand the diagnosis and management of children presenting with congenital abnormalities in the neonatal period								
To be able to construct an appropriate management plan for these children								
To understand the place of operative management in the neonatal period and be able to carry this out in selected cases								
To be able to practice with integrity, respect and compassion								
KNOWLEDGE								
Likely modes of presentation of different conditions		X				X	X	1
Place and value of investigations		X				X	X	1
Types of and indications for antenatal intervention		X				X	X	1
Role of ante-natal counselling		X				X	X	1
CLINICAL SKILLS								
Ability to counsel and inform parents	X	X					X	1,3
Ability to form a viable investigation and treatment plan	X	X					X	1
Ability to communicate with all relevant groups	X	X					X	1,3
TECHNICAL SKILLS AND PROCEDURES								
No content								

Generic procedures	CEX	CBD	DOPS	PBA	MSF	ISB Section 1	ISB Section 2	GMP
OBJECTIVE								
None								
KNOWLEDGE								
None								
CLINICAL SKILLS								
None								
TECHNICAL SKILLS AND PROCEDURES								
Tumour biopsy			X	X				

Wilms tumour	CEX	CBD	DOPS	PBA	MSF	ISB Section 1	ISB Section 2	GMP
OBJECTIVE								
To understand the presentation and management of childhood tumours								
To be able to formulate a differential diagnosis and an investigation and management plan								
To be able to practice with integrity, respect and compassion								
KNOWLEDGE								
Mode of clinical presentation		X				X	X	1
Differential diagnosis		X				X	X	1
Relevant basic science knowledge of oncogenesis		X				X	X	1
Outcome data of treatment modalities		X				X	X	1,2
Role of surgery		X				X	X	1
CLINICAL SKILLS								
Ability to assess child	X	X					X	1,3
Ability to form a viable investigation and treatment plan	X	X					X	1
Ability to communicate with all relevant groups	X	X					X	1,3
TECHNICAL SKILLS AND PROCEDURES								
Nephro-ureterectomy				X				1
Nephro-ureterectomy/nephrectomy for Wilms				X				1

Neuroblastoma	CEX	CBD	DOPS	PBA	MSF	ISB Section 1	ISB Section 2	GMP
OBJECTIVE								
To understand the presentation and management of childhood tumours								
To be able to formulate a differential diagnosis and an investigation and management plan								
To be able to practice with integrity, respect and compassion								
KNOWLEDGE								
Mode of clinical presentation		X				X	X	1
Differential diagnosis		X				X	X	1
Relevant basic science knowledge of oncogenesis		X				X	X	1
Outcome data of treatment modalities		X				X	X	1,2
Role of surgery		X				X	X	1
CLINICAL SKILLS								
Ability to assess child	X	X					X	1
Ability to form a viable investigation and treatment plan	X	X					X	1
Ability to communicate with all relevant groups	X	X					X	1,3
TECHNICAL SKILLS AND PROCEDURES								
Surgery for neuroblastoma				X				1

Hepatoblastoma	CEX	CBD	DOPS	PBA	MSF	ISB Section 1	ISB Section 2	GMP
OBJECTIVE								
To understand the presentation and management of childhood tumours								
To be able to formulate a differential diagnosis and an investigation and management plan								
To be able to practice with integrity, respect and compassion								
KNOWLEDGE								
Mode of clinical presentation		X				X	X	1
Differential diagnosis		X				X	X	1
Relevant basic science knowledge of oncogenesis		X				X	X	1
Outcome data of treatment modalities		X				X	X	1,2
Role of surgery		X				X	X	1
CLINICAL SKILLS								
Ability to assess child	X	X					X	1
Ability to form a viable investigation and treatment plan	X	X					X	1
Ability to communicate with all relevant groups	X	X					X	1,3
TECHNICAL SKILLS AND PROCEDURES								
Only specialist centre								
Surgery for hepatoblastoma only at specialist centre				X				1

Soft tissue tumours	CEX	CBD	DOPS	PBA	MSF	ISB Section 1	ISB Section 2	GMP
OBJECTIVE								
To understand the presentation and management of childhood tumours								
To be able to formulate a differential diagnosis and an investigation and management plan								
To be able to practice with integrity, respect and compassion								
KNOWLEDGE								
Mode of clinical presentation		X				X	X	1
Differential diagnosis		X				X	X	1
Relevant basic science knowledge of oncogenesis		X				X	X	1
Outcome data of treatment modalities		X				X	X	1,2
Role of surgery		X				X	X	1
CLINICAL SKILLS								
Ability to assess child	X	X					X	1
Ability to form a viable investigation and treatment plan	X	X					X	1
Ability to communicate with all relevant groups	X	X					X	1,3
TECHNICAL SKILLS AND PROCEDURES								
Local excision soft tissue tumour								

Haematological malignancies	CEX	CBD	DOPS	PBA	MSF	ISB Section 1	ISB Section 2	GMP
OBJECTIVE								
To understand the presentation and management of childhood tumours								
To be able to formulate a differential diagnosis and an investigation and management plan								
To be able to practice with integrity, respect and compassion								
KNOWLEDGE								
Mode of clinical presentation		X				X	X	1
Differential diagnosis		X				X	X	1
Relevant basic science knowledge of oncogenesis		X				X	X	1
Management strategies and basic outcome data of treatment modalities		X				X	X	1,2
CLINICAL SKILLS								
Ability to assess child	X	X				X	X	1
Ability to communicate with all relevant groups	X	X				X	X	1,3
TECHNICAL SKILLS AND PROCEDURES								
Cervical Lymph node biopsy			X	X				1

Osteosarcoma	CEX	CBD	DOPS	PBA	MSF	ISB Section 1	ISB Section 2	GMP
OBJECTIVE								
To understand the presentation and management of childhood tumours								
To be able to formulate a differential diagnosis and an investigation and management plan								
To be able to practice with integrity, respect and compassion								
KNOWLEDGE								
Mode of clinical presentation		X				X	X	1
Differential diagnosis		X				X	X	1
Relevant basic science knowledge of oncogenesis		X				X	X	1
Management strategy and basic outcome data of treatment modalities		X				X	X	1,2
Role of surgery		X				X	X	1
CLINICAL SKILLS								
Ability to assess child	X	X				X	X	1
Ability to communicate with all relevant groups	X	X				X	X	1,3
TECHNICAL SKILLS AND PROCEDURES								
No content								

Benign tumours	CEX	CBD	DOPS	PBA	MSF	ISB Section 1	ISB Section 2	GMP
OBJECTIVE								
To understand the presentation and management of childhood tumours								
To be able to formulate a differential diagnosis and an investigation and management plan								
To be able to practice with integrity, respect and compassion								
KNOWLEDGE								
Mode of clinical presentation		X				X	X	1
Differential diagnosis		X				X	X	1
Relevant basic science knowledge of oncogenesis		X				X	X	1
Outcome data of treatment modalities		X				X	X	1,2
Role of surgery		X				X	X	1
CLINICAL SKILLS								
Ability to assess child	X					X	X	1
Ability to form a viable investigation and treatment plan	X	X				X	X	1
Ability to communicate with all relevant groups	X	X				X	X	1,3
TECHNICAL SKILLS AND PROCEDURES								
Oophorectomy				X				1
Oophero-salpingectomy				X				1

Adrenal gland	CEX	CBD	DOPS	PBA	MSF	ISB Section 1	ISB Section 2	GMP
OBJECTIVE								
None								
KNOWLEDGE								
None								
CLINICAL SKILLS								
None								
TECHNICAL SKILLS AND PROCEDURES								
Adrenalectomy				X				1

KNOWLEDGE								
Likely modes of presentation		X				X	X	1
Differential diagnosis		X				X	X	1
Place and value of investigations		X				X	X	1
Knowledge of appropriate referral pathways		X				X	X	1
Embryological derivation and anatomical variants		X				X	X	1
Place and value of investigations/operative intervention		X				X	X	1
CLINICAL SKILLS								
Ability to assess child	X	X					X	1,3
Ability to form a viable investigation and treatment plan	X	X					X	1
Ability to communicate with all relevant groups	X	X					X	1,3
Ability to independently interpret the results of investigations and act on same		X					X	1
TECHNICAL SKILLS AND PROCEDURES								
Subcutaneous mastectomy					X			1

Chest wall anomalies	CEX	CBD	DOPS	PBA	MSF	ISB Section 1	ISB Section 2	GMP
OBJECTIVE								
To understand the presenting symptoms of thoracic anomalies in childhood and their management								
To be able to formulate a differential diagnosis and an investigation and management plan								
To identify the place of surgery								
To be able to communicate the above information at the required level to patients / parents / other team members / referral source								
To be able to practice with integrity, respect and compassion								
KNOWLEDGE								
Likely modes of presentation		X				X	X	1
Differential diagnosis		X				X	X	1
Place and value of investigations		X				X	X	1
Knowledge of appropriate referral pathways		X				X	X	1
Outcomes of surgery		X				X	X	1,2
CLINICAL SKILLS								
Ability to assess child	X	X					X	1,3
Ability to form a viable investigation and treatment plan	X	X					X	1
Ability to communicate with all relevant groups	X	X					X	1,3
TECHNICAL SKILLS AND PROCEDURES								
Repair Pectus excavatum				X				1
Repair Pectus carinatum				X				1

Congenital and acquired lung abnormalities (called 'Congenital and acquired lung abnormalities including management of empyema' in Final Stage)	CEX	CBD	DOPS	PBA	MSF	ISB Section 1	ISB Section 2	GMP
OBJECTIVE								
To understand the presenting symptoms of thoracic anomalies in childhood and their management								
To be able to formulate a differential diagnosis and an investigation and management plan								
To identify the place of surgery								
To be able to communicate the above information at the required level to patients / parents / other team members / referral source								
To be able to practice with integrity, respect and compassion								
KNOWLEDGE								
Likely modes of presentation		X				X	X	1
Differential diagnosis		X				X	X	1
Place and value of investigations		X				X	X	1
Knowledge of developmental embryology and pertinent anatomy		X				X	X	1
Knowledge of appropriate referral pathways		X				X	X	1
Outcomes of surgery		X				X	X	1,2
CLINICAL SKILLS								
Ability to assess child	X	X					X	1,3
Ability to form a viable investigation and treatment plan	X	X					X	1
Ability to communicate with all relevant groups	X	X					X	1,3
TECHNICAL SKILLS AND PROCEDURES								
Thoracotomy				X				1
Open biopsy of lung				X				1
Pulmonary lobectomy				X				1
Partial pulmonary lobectomy				X				1
Excision of extra lobar sequestration				X				1
Aspiration of pleural cavity				X				1
Insertion of open chest drain				X				1
Insertion of percutaneous chest drain			X					1
Open pleural debridement				X				1
Thoracoscopic pleural debridement				X				1
Open/thoracoscopic pleural debridement				X				1
Rigid bronchoscopy			X					1
Fibreoptic bronchoscopy			X					1

Tracheal anomalies	CEX	CBD	DOPS	PBA	MSF	ISB Section 1	ISB Section 2	GMP
OBJECTIVE								
To understand the presenting symptoms of thoracic anomalies in childhood and their management								
To be able to formulate a differential diagnosis and an investigation and management plan								
To identify the place of surgery								
To be able to communicate the above information at the required level to patients / parents / other team members / referral source								
To be able to practice with integrity, respect and compassion								
KNOWLEDGE								
Likely modes of presentation		X				X	X	1
Differential diagnosis		X				X	X	1
Place and value of investigations		X				X	X	1
Knowledge of developmental embryology and pertinent anatomy		X				X	X	1
Knowledge of appropriate referral pathways		X				X	X	1
Outcomes of surgery		X				X	X	1,2

CLINICAL SKILLS								
Ability to assess child	X	X					X	1,3
Ability to form a viable investigation and treatment plan	X	X					X	1
Ability to communicate with all relevant groups	X	X					X	1,3
TECHNICAL SKILLS AND PROCEDURES								
Tracheostomy				X				1
Rigid bronchoscopy			X					1
Fibreoptic bronchoscopy			X					1

Inhaled foreign body (called 'Inhaled /aspirated /ingested foreign body' in Final Stages)	CEX	CBD	DOPS	PBA	MSF	ISB Section 1	ISB Section 2	GMP
OBJECTIVE								
To understand the presenting symptoms of thoracic anomalies in childhood and their management								
To be able to formulate a differential diagnosis and an investigation and management plan								
To identify the place of surgery								
To be able to communicate the above information at the required level to patients / parents / other team members / referral source								
To be able to practice with integrity, respect and compassion								
KNOWLEDGE								
Likely modes of presentation		X				X	X	1
Differential diagnosis		X				X	X	1
Place and value of investigations		X				X	X	1
Knowledge of developmental embryology and pertinent anatomy		X				X	X	1
Knowledge of appropriate referral pathways		X				X	X	1
Outcomes of surgery		X				X	X	1,2
CLINICAL SKILLS								
Ability to assess child	X	X					X	1,3
Ability to form a viable investigation and treatment plan	X	X					X	1
Ability to communicate with all relevant groups	X	X					X	1,3
TECHNICAL SKILLS AND PROCEDURES								
Rigid removal of FB from bronchus			X					1

Urinary tract infection	CEX	CBD	DOPS	PBA	MSF	ISB Section 1	ISB Section 2	GMP
OBJECTIVE								
To be able to assess a child presenting to the OP clinic or acutely with symptoms referable to the urinary tract								
To be able to formulate a differential diagnosis and an investigation and management plan								
To be able to treat the child appropriately up to and including operative intervention in selected cases								
To be able to communicate the above information at the required level to patients / parents / other team members / referral source								
To be able to practice with integrity, respect and compassion								
KNOWLEDGE								
Patterns of symptoms and relation to likely pathology and age of child		X				X	X	1
Relevance of different symptom patterns		X				X	X	1
Differential diagnosis		X				X	X	1
Place and value of investigations		X				X	X	1
CLINICAL SKILLS								
Ability to assess child	X	X					X	1,3
Ability to form a viable investigation and treatment plan	X	X					X	1
Ability to form a viable investigation and treatment plan, including appropriate range of operative interventions	X	X					X	1
Ability to communicate with all relevant groups	X	X					X	1,3
Ability to independently interpret the results of investigations and act on same		X					X	1
TECHNICAL SKILLS AND PROCEDURES								
None								

Haematuria	CEX	CBD	DOPS	PBA	MSF	ISB Section 1	ISB Section 2	GMP
OBJECTIVE								
To be able to assess a child presenting to the OP clinic or acutely with symptoms referable to the urinary tract								
To be able to formulate a differential diagnosis and an investigation and management plan								
To be able to treat the child appropriately up to and including operative intervention in selected cases								
To be able to communicate the above information at the required level to patients / parents / other team members / referral source								
To be able to practice with integrity, respect and compassion								
KNOWLEDGE								
Patterns of symptoms and relation to likely pathology and age of child		X				X	X	1
Differential diagnosis		X				X	X	1
Place and value of investigations		X				X	X	1
CLINICAL SKILLS								
Ability to assess child	X	X					X	1,3
Ability to form a viable investigation and treatment plan	X	X					X	1
Ability to form a viable investigation and treatment plan, including appropriate range of operative interventions	X	X					X	1
Ability to communicate with all relevant groups	X	X					X	1,3
Ability to independently interpret the results of investigations and act on same		X					X	1,3
TECHNICAL SKILLS AND PROCEDURES								
Cystourethroscopy			X					

Urethral meatus	CEX	CBD	DOPS	PBA	MSF	ISB Section 1	ISB Section 2	GMP
OBJECTIVE								
None								
KNOWLEDGE								
None								
CLINICAL SKILLS								
None								
TECHNICAL SKILLS AND PROCEDURES								
Meatotomy			X					1
Meatoplasty				X				1
Urethral dilatation			X					1

Hypospadias	CEX	CBD	DOPS	PBA	MSF	ISB Section 1	ISB Section 2	GMP
OBJECTIVE								
To be able to assess a child presenting to the OP clinic or acutely with symptoms referable to the urinary tract								
To be able to formulate a differential diagnosis and an investigation and management plan								
To be able to treat the child appropriately up to and including operative intervention in selected cases								
To be able to communicate the above information at the required level to patients / parents / other team members / referral source								
To be able to practice with integrity, respect and compassion								
KNOWLEDGE								
Likely modes of presentation		X				X	X	1
Different anatomical variants		X				X	X	1
Place and value of investigations/ operative intervention		X				X	X	1
CLINICAL SKILLS								
Ability to assess child	X	X					X	1
Ability to form a viable investigation and treatment plan	X	X					X	1
Ability to form a viable investigation and treatment plan, including appropriate range of operative interventions	X	X					X	1
Ability to communicate with all relevant groups	X	X					X	1,3
Ability to independently interpret the results of investigations and act on same	X	X					X	1
TECHNICAL SKILLS AND PROCEDURES								
Repair distal hypospadias				X				
Repair proximal hypospadias				X				
Repair urethral fistula				X				

Upper tract obstruction (to include pelvi-ureteric junction obstruction and vesico-ureteric junction obstruction)	CEX	CBD	DOPS	PBA	MSF	ISB Section 1	ISB Section 2	GMP
OBJECTIVE								
To be able to assess a child presenting to the OP clinic or acutely with symptoms referable to the urinary tract								
To be able to formulate a differential diagnosis and an investigation and management plan								
To be able to treat the child appropriately up to and including operative intervention in selected cases								
To be able to communicate the above information at the required level to patients / parents / other team members / referral source								
To be able to practice with integrity, respect and compassion								
KNOWLEDGE								
Likely modes of presentation		X				X	X	1
Place and value of investigations/ operative intervention		X				X	X	1
Differential diagnosis		X				X	X	1
CLINICAL SKILLS								
Ability to assess child	X	X					X	1
Ability to form a viable investigation and treatment plan	X	X					X	1
Ability to form a viable investigation and treatment plan, including appropriate range of operative interventions	X	X					X	1
Ability to communicate with all relevant groups	X	X					X	1,3
Ability to independently interpret the results of investigations and act on same	X						X	1
TECHNICAL SKILLS AND PROCEDURES								
Pyeloplasty				X				1
Nephrectomy (open/laparoscopic)				X				1
Heminephrectomy				X				1
Insertion of percutaneous nephrostomy				X				1
Insertion of open nephrostomy				X				1
Insertion of JJ stent				X				1
Ureteric reimplantation				X				1

Posterior urethral valves	CEX	CBD	DOPS	PBA	MSF	ISB Section 1	ISB Section 2	GMP
OBJECTIVE								
To be able to assess a child presenting to the OP clinic or acutely with symptoms referable to the urinary tract								
To be able to formulate a differential diagnosis and an investigation and management plan								
To be able to treat the child appropriately up to and including operative intervention in selected cases								
To be able to communicate the above information at the required level to patients / parents / other team members / referral source								
To be able to practice with integrity, respect and compassion								
KNOWLEDGE								
Likely modes of presentation		X				X	X	1
Place and value of investigations/ operative intervention		X				X	X	1
Differential diagnosis		X				X	X	1
CLINICAL SKILLS								
Ability to assess child	X	X					X	1
Ability to form a viable investigation and treatment plan	X	X					X	1
Ability to form a viable investigation and treatment plan, including appropriate range of operative interventions	X	X					X	1
Ability to communicate with all relevant groups	X	X					X	1,3
Ability to independently interpret the results of investigations and act on same	X	X					X	1
TECHNICAL SKILLS AND PROCEDURES								
Destruction of PUV				X				1
Formation/closure of vesicostomy				X				1

Urinary tract calculus disease	CEX	CBD	DOPS	PBA	MSF	ISB Section 1	ISB Section 2	GMP
OBJECTIVE								
To be able to assess a child presenting to the OP clinic or acutely with symptoms referable to the urinary tract								
To be able to formulate a differential diagnosis and an investigation and management plan								
To be able to treat the child appropriately up to and including operative intervention in selected cases								
To be able to communicate the above information at the required level to patients / parents / other team members / referral source								
To be able to practice with integrity, respect and compassion								
KNOWLEDGE								
Likely modes of presentation		X				X	X	1
Aetiological and biochemical factors		X				X	X	1
Place and value of investigations/ operative and non-operative intervention		X				X	X	1
Differential diagnosis		X				X	X	1

CLINICAL SKILLS								
Ability to assess child	X	X					X	1
Ability to form a viable investigation and treatment plan	X	X					X	1
Ability to form a viable investigation and treatment plan, including appropriate range of operative interventions	X	X					X	1
Ability to communicate with all relevant groups	X	X					X	1,3
Ability to communicate with all relevant groups, including adult urological services	X	X					X	1,3
Ability to independently interpret the results of investigations and act on same	X	X					X	1
TECHNICAL SKILLS AND PROCEDURES								
Interventional management of urolithiasis				X				1

Bladder dysfunction (incl. neurogenic bladder)								
	CEX	CBD	DOPS	PBA	MSF	ISB Section 1	ISB Section 2	GMP
OBJECTIVE								
To be able to assess a child presenting to the OP clinic or acutely with symptoms referable to the urinary tract								
To be able to formulate a differential diagnosis and an investigation and management plan								
To be able to treat the child appropriately up to and including operative intervention in selected cases								
To be able to communicate the above information at the required level to patients / parents / other team members / referral source								
To be able to practice with integrity, respect and compassion								
KNOWLEDGE								
Likely modes of presentation		X				X	X	1
Differential diagnosis		X				X	X	1
Place and value of investigations		X				X	X	1
Knowledge of appropriate referral pathways		X				X	X	1
CLINICAL SKILLS								
Ability to assess child	X	X					X	1
Ability to form a viable investigation and treatment plan	X	X					X	1
Ability to form a viable investigation and treatment plan, including appropriate range of operative interventions	X	X					X	1
Ability to communicate with all relevant groups	X	X					X	1,3
Ability to independently interpret the results of investigations and act on same	X	X					X	1
TECHNICAL SKILLS AND PROCEDURES								
Urodynamics			X	X				1
Cysto-urethroscopy				X				1
Vesicostomy				X				1
Closure of vesicostomy				X				1
Suprapubic catheter			X	X				1
Endoscopic cauterisation of lesion of bladder				X				1
Endoscopic management of clot from bladder				X				1
Ileal bladder reconstruction				X				1
Colonic bladder reconstruction				X				1
Ureteric diversion				X				1
Ureteric un-diversion				X				1
Mitrofanoff procedure				X				1

Renal failure								
	CEX	CBD	DOPS	PBA	MSF	ISB Section 1	ISB Section 2	GMP
OBJECTIVE								
To be able to assess a child presenting to the OP clinic or acutely with symptoms referable to the urinary tract								
To be able to formulate a differential diagnosis and an investigation and management plan								
To be able to treat the child appropriately up to and including operative intervention in selected cases								
To be able to communicate the above information at the required level to patients / parents / other team members / referral source								
To be able to practice with integrity, respect and compassion								
KNOWLEDGE								
Likely modes of presentation		X				X	X	1
Differential diagnosis		X				X	X	1
Place and value of investigations		X				X	X	1
Knowledge of referral criteria to renal medical colleagues		X				X	X	1
CLINICAL SKILLS								
Ability to assess child	X	X					X	1
Ability to communicate with all relevant groups	X	X					X	1,3
Ability to form a viable investigation and treatment plan, including appropriate range of operative interventions	X	X					X	1
Ability to independently interpret the results of investigations and act on same	X	X					X	1
TECHNICAL SKILLS AND PROCEDURES								
PD catheter insertion/removal				X				1
Haemodialysis catheter insertion			X	X				1
Ureteric un-diversion				X				1

Bladder exstrophy (including epispadias)								
	CEX	CBD	DOPS	PBA	MSF	ISB Section 1	ISB Section 2	GMP
OBJECTIVE								
To be able to assess a child presenting to the OP clinic or acutely with symptoms referable to the urinary tract								
To be able to formulate a differential diagnosis and an investigation and management plan								
To be able to treat the child appropriately up to and including operative intervention in selected cases								
To be able to communicate the above information at the required level to patients / parents / other team members / referral source								
To be able to practice with integrity, respect and compassion								
KNOWLEDGE								
Likely modes of presentation		X				X	X	1
Differential diagnosis		X				X	X	1
Place and value of investigations		X				X	X	1
CLINICAL SKILLS								
Ability to assess child	X	X					X	1
Ability to communicate with all relevant groups	X	X					X	1,3
Ability to form a viable investigation and treatment plan, including appropriate range of operative interventions	X	X					X	1
Ability to independently interpret the results of investigations and act on same	X	X					X	1

To be able to treat the child appropriately pending operative intervention in selected cases								
To be able to communicate the above information at the required level to patients / parents / other team members / referral source								
To be able to practice with integrity, respect and compassion								
KNOWLEDGE								
Patterns of injury and relation to likely pathology and age of child		X				X	X	
Relevance of different patterns of injury		X				X	X	
ABCDE of trauma resuscitation (Airway with c-spine control, Breathing with oxygen, Circulation with control of haemorrhage, Disability, Exposure and Environment)		X				X	X	
Understand the principles behind the primary and secondary survey of an injured child		X				X	X	
Differential diagnosis		X				X	X	
Place and value of investigations		X				X	X	
Place and value of investigations and the role of interventional radiology		X				X	X	
Place and value of non-operative management of abdominal trauma		X				X	X	
The importance of multidisciplinary team working in caring for these patients		X				X	X	
CLINICAL SKILLS								
Ability to assess an injured child	X						X	
Ability to resuscitate an injured child	X	X					X	
Ability to form a viable investigation and treatment plan in conjunction with other specialties	X	X					X	
Ability to communicate with all relevant groups	X						X	
Ability to interpret appropriate imaging		X					X	
TECHNICAL SKILLS AND PROCEDURES								
Placement of a urethral urinary catheter			X					
Placement of a suprapubic urinary catheter			X					
Placement of a chest drain			X					
Placement of large bore intravenous cannulae			X					
Placement of an intraosseus needle			X					
Laparotomy for trauma				X				

Paediatric Abdominal and Pelvic Trauma	CEX	CBD	DOPS	PBA	MSF	ISB Section 1	ISB Section 2	GMP
OBJECTIVE								
To be able to assess, resuscitate, investigate and manage a child presenting with abdominal trauma								
To be able to formulate a differential diagnosis and an investigation and management plan								
To be able to treat the child appropriately pending operative intervention in selected cases								
To be able to communicate the above information at the required level to patients / parents / other team members / referral source								
To be able to practice with integrity, respect and compassion								
KNOWLEDGE								
Patterns of symptoms and relation to likely intra-abdominal pathology and age of child		X				X	X	1
Different mechanisms and patterns of solid organ and hollow organ injury		X				X	X	1
Different patterns of penetrating and blunt abdominal trauma		X				X	X	1
The value of various imaging modalities in abdominal trauma including ultrasound, CT scan and contrast radiology		X				X	X	1
Differential diagnosis		X				X	X	1
Place and value of investigations and the role of interventional radiology		X				X	X	1
The role and constraints of non-operative treatment for solid organ injury		X				X	X	1
The nature of and need for critical care support in caring for such patients		X				X	X	1
The importance of pelvic stabilization in the care of a child with a significant pelvic injury		X				X	X	1
CLINICAL SKILLS								
Ability to assess an injured child	X						X	1,3
Ability to resuscitate an injured child		X					X	1
Ability to form a viable investigation and treatment plan in conjunction with other specialties	X	X					X	1,3
Ability to communicate with all relevant groups	X	X					X	1,3
TECHNICAL SKILLS AND PROCEDURES								
Placement of a urethral urinary catheter			X					1
Placement of a suprapubic urinary catheter			X					1
Placement of large bore intravenous cannulae			X					1
Placement of an intraosseus needle			X					1
Laparotomy for trauma				X				1

Paediatric Thoracic Trauma	CEX	CBD	DOPS	PBA	MSF	ISB Section 1	ISB Section 2	GMP
OBJECTIVE								
To be able to assess and resuscitate a child presenting as an emergency with thoracic trauma								
To be able to formulate a differential diagnosis and an investigation and management plan								
To be able to treat the child appropriately pending operative intervention in highly selected cases								
To be able to communicate the above information at the required level to patients / parents / other team members / referral source								
To be able to practice with integrity, respect and compassion								
KNOWLEDGE								
Patterns of symptoms and relation to likely intra-thoracic pathology and age of child		X				X	X	1
Different mechanisms and patterns of penetrating and blunt thoracic trauma		X				X	X	1
The value of chest drain placement in caring for these patients		X				X	X	1
The nature of and need for critical care support in caring for such patients		X				X	X	1
The indications for pericardiocentesis		X				X	X	1
The indications for thoracotomy		X				X	X	
CLINICAL SKILLS								
Ability to assess an injured child	X	X					X	1
Ability to resuscitate an injured child	X	X					X	1
Ability to form a viable investigation and treatment plan in conjunction with other surgical and other specialties	X	X					X	1
Ability to communicate with all relevant groups	X	X					X	1,3
TECHNICAL SKILLS AND PROCEDURES								
Placement of a chest drain			X	X				1
Placement of large bore intravenous cannulae			X	X				1
Placement of an intraosseus needle			X	X				1
Pericardiocentesis			X	X				1
Thoracotomy for trauma				X				1

