

Hong Kong College of Paediatricians
香港兒科醫學院



CHECK LIST
OF
CLINICAL EXPERIENCE AND PROCEDURES

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Check List of Clinical Experience and Procedures Guidelines to Trainers and Trainees

1. The Check List of Clinical Experience and Procedures serves as a reference for trainers and trainees.
2. Disease entities are classified into three categories :
 - Category 1 :* Trainees are expected to have ***personally managed*** at least ***ten*** of each of these disease entities.
 - Category 2 :* Trainees are expected to have ***personally managed*** at least ***five*** of each of these disease entities.
 - Category 3 :* Trainees are expected to have ***clinical exposure*** to at least ***50%*** of the disease entities in this category under ***each subspecialty***. Trainees may include patients presented in teaching rounds and seminars in other hospitals.
3. Trainees are expected to have attended, observed assisted or successfully Performed a certain number of activities and procedures under different subspecialties. The number required is shown within the parenthesis.
4. The supervisor should regularly assess the trainee's overall training and identify any deficiencies in either experience gained or experience available to be remedied early in the posting.

Check List for Subspecialties

1.	Adolescent Medicine	5
2.	Cardiology	6
3.	Clinical Genetics	7
4.	Community Paediatrics	8
5.	Endocrinology and Metabolism	9
6.	Gastroenterology and Hepatology	10
7.	Haematology and Oncology	11
8.	Immunology	12
9.	Infectious Diseases	13
10.	Intensive Care	14
11.	Neonatology	15
12.	Nephrology	16
13.	Neurology and Developmental Paediatrics	17
14.	Respiratory Medicine	18
15.	General Procedures	19

Adolescent Medicine

Clinical Experience :

Category

- 2 Acne
- 2 Obesity
- 2 Anti-social behaviour, self-destructive behaviour
- 2 Psychosomatic disorders (e.g. headache, hyperventilation)
- 2 Chronic illnesses during adolescent period
- 3 Menstrual disorders
- 3 Drug overdose and substance abuse
- 3 Sexual abuse, rape, promiscuity, teenage pregnancy
- 3 Scoliosis
- 3 Sports injury

Procedures:

- Use and interpretation of physical growth chart (5)
- Use and interpretation of sexual maturity rating (5)
- Attendance in psychosocial conference (1)
- Visit at least one of the following services :
 - Community Youth Centre
 - Family Planning Service
 - Drug Withdrawal Centre
 - Substance Abuse Clinic

Cardiology

Clinical Experience :

Category

- 1 Innocent murmur
- 2 Ventricular septal defect
- 2 Atrial septal defect, pulmonary stenosis
- 2 Patent ductus arteriosus
- 2 Neonatal cyanotic heart conditions, Tetralogy of Fallot
- 2 Congestive heart failure
- 2 Arrhythmias (including paroxysmal supraventricular tachycardia)
- 3 Coarctation of aorta, aortic stenosis
- 3 Acquired heart diseases (e.g. rheumatic fever, viral myocarditis, cardiomyopathy)
- 3 Hypertension
- 3 Kawasaki disease

Procedures :

- ECG (including interpretation) (refer to General Procedures)
- Observe echocardiographic examination (optional)
- Observe cardiac catheterization and interpret haemodynamic data (optional)

Clinical Genetics

Clinical Experience :

Category

- 2 Down's Syndrome
- 2 Other chromosomal disorders (e.g. Trisomy 13, Trisomy 18, Turner syndrome)
- 2 Congenital malformations involving all major systems and organs of the body (except congenital heart disease)
- 2 Common single gene defects (e.g. thalassemia, haemophilia, G6PD deficiency, Duchenne muscular dystrophy)
- 3 Genetic causes of abnormal growth (e.g. short stature, failure to thrive, overgrowth syndrome)
- 3 Inborn errors of metabolism
- 3 Neurogenetic diseases

Procedures :

- Genetic information, pedigree (5)
- interpretation of simple karyotype (optional)

Community Paediatrics

Clinical Experience :

Category

- 2 Child abuse and neglect
- 2 Breath holding, temper tantrum, hyperactivity, attention deficit disorder
- 2 Learning disability
- 2 Eating disorders
- 2 Enuresis, encopresis
- 2 Child with injuries / burn / near drowning / poisoning
- 3 Disturbance of sleep
- 3 Truancy, school phobia
- 3 Autism
- 3 Anorexia nervosa
- 3 Hysteria

Procedures :

Visit (at least once in any six of the following services) :

- Family Health Service Centre
- Family Physician's Clinic
- Child Assessment Centre
- Early Education and Training Centre
- Special / Integrated Child Care Centre
- Special School
- Student Health Service
- Agency involved in child protection
- Community Nursing Service
- Community Patient Resource Centre
- Adoption Unit
- Foster Care Unit
- Child Psychiatric Centre

Endocrinology and Metabolism

Clinical Experience :

Category

- 2 Diabetes mellitus
- 2 Thyroid disorders (including hypothyroidism, hyperthyroidism, goitre)
- 2 Short stature
- 2 Obesity
- 2 Disorders of puberty and sexual development
- 3 Adrenal disorders (including congenital adrenal hyperplasia)
- 3 Hypoparathyroidism
- 3 Rickets
- 3 Hypothalamic pituitary disorders

Gastroenterology and Hepatology

Clinical Experience :

Category

- 2 Failure to thrive
- 2 Dietary intolerance (e.g. lactose, cows milk protein), short gut syndromes, chronic diarrhoea
- 2 Total parenteral nutrition
- 2 Recurrent vomiting (including gastro-oesophageal reflex, pyloric stenosis)
- 2 Intestinal bleeding (acute and chronic)
- 2 Constipation and psychological aspects of gastrointestinal diseases (e.g. encopresis, recurrent abdominal pain, recurrent vomiting, anorexia nervosa)
- 2 Hepatitis and cholestatic disorders
- 3 Peptic ulcer disease
- 3 Dysmotility syndromes (e.g. Hirschprung's disease, pseudo-obstruction, intestinal neuronal dysplasia)
- 3 Liver failure

Procedures :

- Examination of stool : microscopically for leucocytes, ova, cysts and parasites; biochemically for pH and reducing substances (5)
- Interpretation of common imaging techniques of the gastrointestinal tract : barium swallow, small bowel enema and barium enema (5)
- Observe liver biopsy (optional)

Haematology and Oncology

Clinical Experience :

Category

- 2 Thalassaemia
- 2 Anaemia, other than thalassaemia
- 2 Immune thrombocytopenic purpura
- 3 Haemophilia
- 3 Leukaemia
- 3 Solid tumours
- 3 Transfusion reaction

Procedures :

- Preparation and examination of blood smear (5)
- Bone marrow aspiration and preparation and examination of bone marrow smear (2)
- Bleeding time (2)
- Administration of haemostatic factor concentrate (2)
- Intrathecal chemotherapy (optional)
- Preparation. and administration of cytotoxic drugs (optional)
- Handling of central venous catheters (optional)

Immunology

Clinical Experience :

Category

- 1 Atopy and other allergic syndromes
- 3 Systemic lupus erythematosus and variants
- 3 Juvenile chronic arthritis
- 3 Kawasaki disease
- 3 Immunodeficiencies (primary or secondary) and human immunodeficiency virus (HIV) infection
- 3 Juvenile dermatomyositis and scleroderma and related disorders

Infectious Diseases

Clinical Experience :

Category

- 1 Exanthemata
 - 1 Upper respiratory tract infection
 - 1 Lower respiratory tract infection
 - 1 Acute diarrhoea
 - 2 Urinary tract infection
 - 2 Severe systemic infections (e.g. septicaemia, central nervous system infection)
 - 2 Soft tissue / eye infection
 - 2 Infection in immunocompromised host
 - 3 Tuberculosis
 - 3 Enteric fever
 - 3 Bone / joint infection
 - 3 Fever of unknown origin
- Hepatitis (refer to Gastroenterology and Hepatology)

Procedures :

- Tuberculin test
- Microscopic examination of urine (refer to General Procedures)
- Microscopic examination of cerebrospinal fluid (refer to General Procedures)

Intensive Care

Clinical Experience :

At least one in each of the following categories :

- Heart failure requiring inotropic support
- Respiratory failure requiring mechanical ventilation
- Status epilepticus
- Patient with raised intracranial pressure
- Post-operative care of surgical patient
- Shock

Category

- 3 Parenteral nutrition in the critically ill child
- 3 Poisoning
- 3 Near drowning

Procedures :

- Cardiopulmonary resuscitation (5)
- Intubation (5)
- Set up arterial line (5)
- Vascular access for central venous pressure monitoring (2)
- Thoracocentesis (2)
- Transport of critically ill patient (2)
- Intra-osseous infusion (optional)
- Pericardiocentesis (optional)
- Abdominal paracentesis (optional)
- Pleural biopsy (optional)
- Peritoneal dialysis (optional)
- Transpyloric feeding catheter insertion (optional)
- Intracranial pressure monitoring (optional)

Neonatology

Clinical Experience :

Category

- 1 Neonatal jaundice
- 2 Hyaline membrane disease
- 2 Neonatal apnoea
- 2 Intrauterine growth retardation
- 2 Infant of diabetic mother and disturbance of glucose metabolism
- 2 Gastrointestinal disorders (e.g. necrotising enterocolitis, surgical emergencies)
- 2 Meconium aspiration pneumonia
- 2 Bronchopulmonary dysplasia
- 2 Neonatal infection
- 2 Intracranial haemorrhage, hypoxic-ischaemic encephalopathy, neonatal convulsion
- 2 Birth trauma (e.g. Erb's palsy)
- 2 Extreme prematurity (BW 1000 - 1 1500gm)
- 3 Extreme prematurity (BW \leq 1000 gm)
- 3 Persistent pulmonary hypertension

Procedures :

- Resuscitation of the newborn (5)
- Assisted ventilation (IPPV, IMV CPAP, HFV) (5)
- Observe and interpret cranial ultrasound examination (5)
- Lumbar puncture (3)
- Parenteral nutrition (3)
- Umbilical catheterization (3)
- Thoracocentesis (2)
- Suprapubic bladder tap (2)
- Exchange transfusion / plasma exchange (2)
- Transportation of the sick newborn (2)
- Assist in surfactant administration (2)
- Percutaneous long line insertion (optional)

Nephrology

Clinical Experience :

Category

- 2 Urinary abnormalities (haematuria, proteinuria or both)
- 2 Nephrotic syndrome and acute nephritic syndrome
- 2 Renal manifestations of systemic diseases including:
 - a) Systemic lupus erythematosus
 - b) Diabetes mellitus
 - c) Anaphylactoid purpura
 - d) Haemolytic uraemic syndrome
 - e) Shock
 - f) Systemic vasculitis
- 2 Urinary tract infection
- 2 Vesicoureteric reflux
- 3 Acute renal failure
- 3 Chronic renal failure
- 3 Obstructive uropathy (including hydronephrosis)
- 3 Hypertension of renal origin
- 3 Neurogenic bladder
- 3 Hereditary renal diseases

Procedures :

- Glomerular filtration rate determination (2)
- Observe renal biopsy (optional)
- Assist in peritoneal dialysis, haemodialysis, renal transplantation (optional)

Neurology and Developmental Paediatrics

Clinical Experience :

Category

- 1 Delayed development
- 2 Epilepsy
- 2 Febrile convulsion
- 2 Cerebral palsy
- 2 Floppy baby (including Duchenne muscular dystrophy, spinal muscular atrophy)
- 3 Status epilepticus
- 3 Central nervous system infection
- 3 Hydrocephalus
- 3 Spina bifida and other central nervous system malformation syndromes
- 3 Neurocutaneous syndromes
- 3 Myasthenia graves

Procedures :

- Simple developmental assessment (10)
- Simple behavioral tests of vision (5)
- Simple behavioral tests of hearing (5)
- Interpret typical features in electroencephalograms (5)
- Observe muscle biopsy (optional)

Respiratory Medicine

Clinical Experience :

Category

- 1 Upper respiratory tract infection
- 1 Lower respiratory tract infection
- 1 Otitis media, sinusitis
- 1 Allergic rhinitis
- 1 Bronchial asthma
- 2 Upper airway obstruction (e.g. laryngomalacia, adenoid enlargement and croup)
- 2 Chronic lung disease of newborn
- 3 Aspiration of foreign body and toxic substances
- 3 Pneumothorax
- 3 Pleural effusion
- 3 Pulmonary tuberculosis
- 3 Obstructive sleep apnoea

Procedures :

- Blood gas measurement and interpretation (10)
- Peak flow rate measurement (10)
- Administration of inhalational therapy (10)
- Nasopharyngeal aspiration (5)
- Pernasal swab (2)
- Thoracocentesis (2)

General Procedures

Vascular access :	Venous : Peripheral	(20)
	Arterial : Peripheral	(10)
Injection :	Intravenous	(10)
	Intramuscular	(5)
	Intradermal	(5)
	Subcutaneous	(5)
Specimen collection :	Blood : Capillary	(10)
	Venous	(10)
	Arterial	(10)
	Culture	(10)
	Urine : Suprapubic tap	(5)
	Bladder catheterization	(5)
	CSF : Lumbar puncture	(6)
Interpretation :	Growth chart	(10)
	Chest X-ray	(10)
	Abdominal X-ray	(10)
	Electrocardiogram	(10)
	Urine microscopy	(10)
	CSF microscopy	(6)
Use of medical equipment :	Non-invasive blood pressure	(10)
	Oximeter	(10)
	Cardiorespiratory monitor	(10)
	Incubator	(10)
	Infusion pump	(10)
Observe postmortem examination		(5)

