



MALAYSIAN MEDICAL COUNCIL

SPECIALTY-SPECIFIC REQUIREMENTS (SSR)

(PAEDIATRIC SURGERY)

Prepared By:

Specialty Education Subcommittee (SEC)
of the Medical Education Committee (MEC),
Malaysian Medical Council

Approved by the Malaysian Medical Council:

14th January 2025

Preface

1. The Specialty-Specific Requirements (SSR) pertain to requirements within each specialty and specify the minimum requirements pertaining to the training curriculum, trainers, educational resources and head of programme.
2. The Specialty-Specific Requirements (SSR) are intricately linked to the MMC Malaysian Standards for Medical Specialist Training 2019, and the Standards and SSR must be read and applied together.

Specialty-Specific Minimum Requirements for Training Curriculum (Based on Area 1.2.4 of Malaysian Standards for Medical Specialist Training) - Paediatric Surgery									
Specialty-Specific Requirements (Reference Standard)	Criteria								
1) Minimum entry requirements for postgraduate training (Standard 3.1.)	i. Fully registered with the Malaysian Medical Council with a current annual practising certificate ii. 2 years of experience in Surgery and its related fields post housemanship iii. Successful entry evaluation into the programme								
2) Minimum duration of training programme ((Standard 1.2.4 - Table 2)	Completion of a minimum of 48 months of specialised training in the specialty programme								
3) Structure of training (rotation/modules) (Standard 1.2.4 - Table 3 & Table 4) Training overview Training rotation/modules and case mix	The program should have a clear pathway encompassing phases of training which shall include the basic and advanced components in Paediatrics Surgery. <table border="1"> <thead> <tr> <th>Areas</th><th>Minimum Duration (weeks)*</th></tr> </thead> <tbody> <tr> <td>Neonatal Intensive Care Unit (NICU)</td><td>6</td></tr> <tr> <td>Paediatric Intensive Care Unit (PICU)</td><td>6</td></tr> <tr> <td>Paediatric Surgery</td><td>180</td></tr> </tbody> </table> *Duration of training per year is 48 weeks	Areas	Minimum Duration (weeks)*	Neonatal Intensive Care Unit (NICU)	6	Paediatric Intensive Care Unit (PICU)	6	Paediatric Surgery	180
Areas	Minimum Duration (weeks)*								
Neonatal Intensive Care Unit (NICU)	6								
Paediatric Intensive Care Unit (PICU)	6								
Paediatric Surgery	180								

4) Assessments (Standard 2.2.1)	Assessments should i. Employ appropriate methods and levels that are well aligned with learning outcomes. These include a variety of methods and tools such as written assessments, clinical assessments, supervisor's report, logbook, attendance, training attended, practice diary, research report, communication skills including methods appropriate to assess ethics and professionalism. ii. Include formative and summative assessments throughout each rotation, semester, or year of study. iii. Include clear criteria for progression to next year of study. iv. Include an exit evaluation/assessment.
5) Additional requirements for completion of training (Standard 1.2.4)	i. Completion of graduate-level research or clinical audit project. ii. Satisfactory evidence of competencies which include: a. Paediatric Life Support
6) List of competencies to be acquired upon completion of training (Standard 1.1.4)	<u>Generic competencies</u> Able to: i. Independently manage common paediatric surgery cases holistically, including complications, whilst considering social, health economics and preventive aspects. ii. Function competently and professionally in a team-based environment. iii. Maintain a high level of integrity and ethical conduct in practice. iv. Ensure effective communication with patients, colleagues, and other healthcare-adjacent providers. v. Advance the evidence-based practice of surgery through research, audit, and scientific writing. vi. Exemplify life-long learning through continual professional development, including acquisition of new skills and competencies. vii. Demonstrate exemplary leadership qualities, including setting and maintaining standards, supporting others and having the resilience to cope with pressure. viii. Cultivate an entrepreneurial mindset, balancing risks and benefits, for creative problem-solving.

Specific specialty competencies

Able to Perform the following Surgeries/Procedures (independently):

Central venous insertion (for child above 2 years old)
Incision & Drainage (I&D) of body abscesses excluding perianal
Excision biopsy of lymph nodes and subcutaneous lumps
Circumcision
Inguinal hernia repair and hydrocoele – herniotomy (for child above 2 years old)
Surgery for undescended testis (palpable)
Pyloromyotomy
Appendectomy (Open/Laparoscopy)
Small bowel resection with/without anastomosis
Creation of ileostomy or colostomy
Closure of ileostomy or colostomy
Repair of diaphragmatic hernia
Application of Silo for Gastroschisis
Cystourethroscopy
Urethral dilatation
Meatotomy/meatoplasty or Dilatation of meatus
Anoplasty
Rectal polypectomy
Open or suction rectal biopsy
Diagnostic Endoscopy
Diagnostic Laparoscopy

Able to Perform the following Surgeries/Procedures Under Supervision:

Large bowel resection and anastomosis
Neonatal Thoracotomy
Laparoscopic exploration & orchidopexy for intra-abdominal testis

	Repair of gastroschisis
	Surgery for omphalomesenteric remnants
	Able to Assist the following Surgeries/Procedures as First Assistant:
	Repair of oesophageal atresia & Tracheoesophageal Fistula (TOF) (open)
	Repair of exomphalos major
	Surgery for biliary atresia
	Surgery for choledochal cyst
	Excision of tumours
	Surgery for ureteropelvic junction obstruction
	Repair of hypospadias
	Pullthrough procedure for Hirschsprung Disease
	Posterior sagittal anorectoplasty
	Laparoscopic assisted or abdominoperineal pull through for anoRectal Malformation (ARM)

***Note : These criteria represent the minimum standards. Each educational programme provider may exercise their autonomy to state criteria above and beyond these minimum standards.**

Specialty-Specific Minimum Requirements (Items 4-7) for Training Centres (Based on Areas 3-6 of Malaysian Standards for Medical Specialist Training) - Paediatric Surgery										
Item no	Specialty-Specific Requirements (Reference standard)	Criteria								
4	Trainer-to-trainee ratio. (Standard 3.1.3)	1:4								
5	Minimum qualifications and experience of trainers (Standard 4.1.2)	i. Registered with National Specialist Register ii. Completed training-of-trainer course/equivalent								
6	Minimum requirements for educational resource (Standard 5.1.1)	The diagnostic facilities and equipment requirement of the programme training centres must collectively be able to accommodate the following minimum requirement: i. Physical facilities <table><tr><th>Facilities</th></tr><tr><td>Dedicated Paediatric Surgical Beds</td></tr><tr><td>Treatment room</td></tr><tr><td>On-call room</td></tr><tr><td>Tutorial room/Teaching facilities with conference room</td></tr><tr><td>Facilities for computer and internet</td></tr><tr><td>Library</td></tr><tr><td>Emergency Department</td></tr></table>	Facilities	Dedicated Paediatric Surgical Beds	Treatment room	On-call room	Tutorial room/Teaching facilities with conference room	Facilities for computer and internet	Library	Emergency Department
Facilities										
Dedicated Paediatric Surgical Beds										
Treatment room										
On-call room										
Tutorial room/Teaching facilities with conference room										
Facilities for computer and internet										
Library										
Emergency Department										

			<table><tr><td>Radiology Department</td></tr><tr><td>Operating theatre</td></tr><tr><td>Outpatient Clinic</td></tr><tr><td>Paediatric Intensive Care Unit (PICU) and Paediatric High Dependency Ward (PHDW)</td></tr><tr><td>Neonatal Intensive Care Unit (NICU)</td></tr></table>	Radiology Department	Operating theatre	Outpatient Clinic	Paediatric Intensive Care Unit (PICU) and Paediatric High Dependency Ward (PHDW)	Neonatal Intensive Care Unit (NICU)				
Radiology Department												
Operating theatre												
Outpatient Clinic												
Paediatric Intensive Care Unit (PICU) and Paediatric High Dependency Ward (PHDW)												
Neonatal Intensive Care Unit (NICU)												
		ii. Services <table><tr><td>Services</td></tr><tr><td>Paediatric Medicine</td></tr><tr><td>Obstetrics</td></tr><tr><td>Imaging</td></tr><tr><td>Diagnostic laboratory services</td></tr><tr><td>Established Neonatal Intensive Care Unit (NICU)/ Paediatric Intensive Care Unit (PICU) setup</td></tr><tr><td>Paediatric Surgery Operating Theatre</td></tr><tr><td>Paediatric Surgical Clinic</td></tr><tr><td>Paediatric Emergency</td></tr><tr><td>Anaesthesia</td></tr></table>	Services	Paediatric Medicine	Obstetrics	Imaging	Diagnostic laboratory services	Established Neonatal Intensive Care Unit (NICU)/ Paediatric Intensive Care Unit (PICU) setup	Paediatric Surgery Operating Theatre	Paediatric Surgical Clinic	Paediatric Emergency	Anaesthesia
Services												
Paediatric Medicine												
Obstetrics												
Imaging												
Diagnostic laboratory services												
Established Neonatal Intensive Care Unit (NICU)/ Paediatric Intensive Care Unit (PICU) setup												
Paediatric Surgery Operating Theatre												
Paediatric Surgical Clinic												
Paediatric Emergency												
Anaesthesia												

		iii. Equipment <table><tr><th>Equipment</th></tr><tr><td>Operating theatre with standard paediatric surgical equipment</td></tr><tr><td>Equipment for endoscopy</td></tr><tr><td>Equipment for radiological imaging</td></tr><tr><td>Equipment for paediatric radiological procedures</td></tr></table> iv. Case Mix and Case Load The case mix and case load of the programme training centres must collectively be able to accommodate the following minimum requirements: <table><tr><th>Areas</th><th>Quantity (cases/trainee/year)</th></tr><tr><td>Inpatient admissions</td><td>100</td></tr><tr><td>Outpatients</td><td>300</td></tr><tr><td>Operation performed inclusive of emergency, elective and daycare surgery</td><td>100</td></tr></table>	Equipment	Operating theatre with standard paediatric surgical equipment	Equipment for endoscopy	Equipment for radiological imaging	Equipment for paediatric radiological procedures	Areas	Quantity (cases/trainee/year)	Inpatient admissions	100	Outpatients	300	Operation performed inclusive of emergency, elective and daycare surgery	100
Equipment															
Operating theatre with standard paediatric surgical equipment															
Equipment for endoscopy															
Equipment for radiological imaging															
Equipment for paediatric radiological procedures															
Areas	Quantity (cases/trainee/year)														
Inpatient admissions	100														
Outpatients	300														
Operation performed inclusive of emergency, elective and daycare surgery	100														
7	Minimum qualifications and experience of Head of Programme (Standard 6.2.2)	i. 5 years of working experience after national specialist registration ii. Experience in administration and/or academic management													

***Note : These criteria represent the minimum standards. Each educational programme provider may exercise their autonomy to state criteria above and beyond these minimum standards.**

ACKNOWLEDGEMENT

Authors:

Specialty Education Subcommittee (SSC) Edu Paediatric Surgery 2022 – 2024

1. Dr. Marjmin Osman (Chair)
2. Prof. Dr. Yik Yee Ian
3. Prof. Dr. Thambidorai
4. Dr. Mohd Yusof Abdullah
5. Dr. Nurdaliza Mohd Badaruddin
6. Dr. Junaidah Binti Hassan

Specialty Education Subcommittee (SSC) Edu Paediatric Surgery 2024 – 2026

1. Prof. Madya Dr. Anand Sanmugam (Chair)
2. Dato' Dr. Mohan Arunasalam Nallusamy
3. Dr. Marjmin Osman
4. Dr. Shona Alison Edmonds
5. Dr. Nurdaliza Mohd Badarudin
6. Dr. Junaidah binti Hassan

Editors:

Medical Education Committee (MEC)

1. Prof. Datuk Dr. Rohaizat Bin Yon (Chair)
2. Prof. Dato' Dr. Mafauzy bin Mohamed
3. Prof. Dr. Zaleha Abdullah Mahdy
4. Prof. Datin Dr. Yong Rafidah binti Abdul Rahman
5. Prof. Dr. G. R. Letchuman Ramanathan
6. Dato' Dr. Jiffre bin Din
7. Dato' Dr. Jafri Malin bin Abdullah
8. Prof. Dr. Azad Hassan Bin Abdul Razack
9. Prof. Dato' Dr. Yang Faridah binti Abdul Aziz
10. Dr. Sri Wahyu Binti Taher
11. Prof. Dr. Sharifah Sulaiha Binti Syed Aznal
12. Prof. Dr. Shatriah Binti Ismail
13. Prof. Dr. Lee Way Seah
14. Dr. Rafidah Binti Abdullah
15. Datuk Dr. Asits Bin Sanna
16. Dr. Veronica Lughah

Specialty Education Subcommittee (SEC)

1. Prof. Dr. G. R. Letchuman Ramanathan (Chair)
2. Prof. Dr. Roslina Abd Manap
3. Dr. Hirman bin Ismail
4. Prof. Dr. Jamiyah binti Hassan
5. Prof. Dr. Nazimah Idris
6. Dr. Giri Shan
7. Dr. Hanif Hussein
8. Prof. Madya Dr. Bahiyah Abdullah
9. Datuk Seri Dr. Paras Doshi
10. Prof. Datin Dr. Yong Rafidah Abdul Rahman
11. Dr. Rafidah Abdullah
12. Prof. Dr. Zaleha Abdullah Mahdy
13. Dr. Ahmad Badrudzwanullah Bin Zun