

# MALAYSIAN MEDICAL COUNCIL SPECIALTY-SPECIFIC REQUIREMENTS (SSR) (SPORTS MEDICINE)

# Prepared By:

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

Malaysian Medical Council

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# **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) Sports Medicine

Sports Medicine			
Specialty-Specific Requirements (Reference Standard)	Criteria		
Minimum entry     requirements for     postgraduate     training	<ol> <li>Fully registered with the Malaysian Medical Council with a current annual practicing certificate.</li> <li>Successful entry evaluation into the programme.</li> </ol>		
(Standard 3.1.)  2) Minimum duration of training programme	Completion of a minimum of 48 months of specialised training in the specialty programme.		
(Standard 1.2.4 - Table 2)			
3) Structure of training (rotation/modules)	The programme should have a clear pathway encompassing phases of training which shall include the basic and advanced components in Sports Medicine.		
(Standard 1.2.4 -	dard 1.2.4 - Compulsory Rotation Program:		
Table 3 & Table 4)	Areas	Minimum Duration (months)	
Training overview	Sports Medicine	38	
Training rotation/modules and case mix	General Medicine  - Cardiovascular  - Respiratory  - Metabolic & Endocrine  - Rheumatology	3	
	Radiology	1	
	Orthopedics	2	

	Emergency Medicine	2	
	Rehabilitation Medicine	2	
	*Duration of training per year is 48 weeks		
4) Assessments (Standard 2.2.1)	<ul> <li>Assessments should <ol> <li>Employ appropriate methods and levels that are well-aligned with learning outcomes. These include a variety of methods and tools such as CBD, Mini-CEX, DOPS, theory examination, clinical examination, logbook, supervisor's report, training and practice diaries.</li> <li>Include methods appropriate to assess communication skills, ethics and professionalism.</li> <li>Include formative and summative assessments throughout each rotation, semester, or year of study.</li> <li>Include clear criteria for progression to next year of study.</li> <li>Include an exit evaluation/assessment.</li> </ol> </li> </ul>		
5) Additional requirements for completion of training	<ul> <li>i. Completion of graduate-level research or clinical audit project.</li> <li>ii. Satisfactory completion of required courses which includes:         <ul> <li>a. Research methodology course</li> <li>b. Good clinical practice course</li> </ul> </li> </ul>		
(Standard 1.2.4)			
6) List of competencies to be acquired upon completion of training  (Standard 1.1.4)	<ol> <li>Generic competencies</li> <li>Upon completion of training, the trainee must be able to</li> <li>Diagnose, investigate and manage common Sports Medicine cases using evidence-based medicine with consideration to patient safety and health economics.</li> <li>Anticipate and manage complications and make timely referrals.</li> <li>To work independently and within teams maintaining ethical conduct and professionalism.</li> <li>Display good communication and counseling skills for effective management of patient care.</li> <li>Perform critical review, plan and conduct of scientific research using effective digital skills.</li> <li>Exemplify self-advancement and improving patient care through participation in continuous academic and professional development activities.</li> <li>Demonstrate exemplary leadership qualities in healthcare.</li> <li>Demonstrate an entrepreneurial mindset and be able to identify problems for improvement in healthcare system.</li> </ol>		

#### **Specialty Specific Competencies**

- 1. Management of Acute and Chronic Musculoskeletal (MSK) injuries.
- 2. Interpret MSK Radiological imaging.
- 3. MSK Rehabilitation including pre- and post-Orthopedics surgery and return to sport and physical activities.
- 4. Sports emergencies management.
- 5. Prescribe clinical exercise regime including post-operative cases.
- 6. Provide clinical sports expertise in national/international sports events.
- 7. Able to perform competently procedures, including but not limited to:

Jo	pint injection and aspiration
S	oft tissue aspiration and injection
D	iagnostic musculoskeletal ultrasound
U	Iltrasound guided musculoskeletal injection
Α	pplication of Orthosis
Α	pplication of Taping
В	iofeedback assessment and evaluation for
re	ehabilitation
E	xercise Stress Testing
Lı	ung Function Test and interpretation
Fi	itness test:
	- Field test,
	- flexibility,
	- balance and
	- muscle strength
C	ardiopulmonary Exercise Testing (CPET)
E	lectrocardiography (ECG) assessment and
ir	nterpretation
Α	nthropometric & Body Composition Assessment
a	nd analysis
Is	sokinetic Testing

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 for Training Centres and Head Programme (Based on Areas 3-6 of Malaysian Standards for Medical Specialist Training) -Sports Medicine

Item	Specialty-Specific Requirements	Criteria	
no	(Reference standard)		
4	Trainer-to-trainee ratio.	1:4	
	(Standard 3.1.3)		
5	Minimum qualifications and experience of trainers	<ul><li>i. Registered with National Specialist Register.</li><li>ii. Completed Training-of-Trainer course/equivalent.</li></ul>	
	(Standard 4.1.2)		
6	Minimum requirements for educational resource  (Standard 5.1.1)  The diagnostic facilities and equipme requirement of the programme training must collectively be able to accommon following minimum requirements:  i. Physical Facilities:  a. Tutorial rooms for regular educational activities  b. Internet access  c. Access to library or electron d. Computer room with internal ii. Service area:		
		Service Area	
		Outpatient clinic	
		Inpatient ward	
		Gymnasium or Rehabilitation area	
		Physiotherapy unit	
		Radiological facility	

Pathology and Microbial laboratory

Pharmacy department

Other relevant departments:

- Cardiology
- Accident and Emergency
- Orthopedics
- Rehabilitation Medicine
- Internal Medicine

### iii. Equipment:

Equipment	
Isokinetic Machine	
Cardiopulmonary Exercise Testing Machine	
Bioimpedance Analysis	
Hand Grip Dynamometer	
Biofeedback Machine	
Ultrasound Machine	
Lung Function Machine	
Electrocardiography (ECG) Machine	
Gymnasium equipment	
Weighing and height scale	

#### iv. Case Mix and Case Load:

The case load of the programme training centers must collectively be able to accommodate the following minimum requirements for each trainee:

Areas	Minimum Quantity (cases/trainee/year)	
Acute and Chronic	200	

		Musculoskeletal Disorders	
		Prescribing Exercise for individuals with: - Diabetes - Obesity - adult and children - Hypertension - Ischemic Heart Disease - Cancer	100
		v. Total procedure:	
		Procedure	Minimum Quantity (cases/trainee/year)
		Diagnostic MSK ultrasound	50
		Soft Tissue Injection	50
		Joint Injection or Aspiration	20
		Fitness Testing	50
		Muscle Strength Test and Interpretation	10
		Application of Athletic Taping and Bracing	20
7	Minimum qualifications and experience of Head of Programme	i. 5 years or more of working experience after     national specialist registration	
	(Standard 6.2.2)	ii. Experience in adminis management	stration and/or academic

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#### **ACKNOWLEDGEMENT**

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