



**MALAYSIAN MEDICAL COUNCIL**

**SPECIALTY-SPECIFIC REQUIREMENTS (SSR)**

**(CLINICAL ONCOLOGY)**

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.

<b>Specialty-Specific Minimum Requirements for Training Curriculum (Based on Area 1.2.4 of Malaysian Standards for Medical Specialist Training) - Clinical Oncology</b>	
<b>Specialty-Specific Requirements</b> (Reference Standard)	<b>Criteria</b>
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. Successful entry evaluation to 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	The training should comprise:  1) the basic sciences topic for clinical oncology including cancer biology and radiobiology, clinical pharmacology, medical statistics and medical physics.

Training rotation/modules and case mix

2) Clinical rotations covering in-depth specialised training in clinical oncology including radiotherapy, systemic cancer treatment, oncological emergency, brachytherapy and palliative care.

Scope/Content	Minimum Duration (Months)
Oncology emergencies and basic sciences	12
Clinical rotations covering tumour sites; Palliative Radiotherapy, Nasopharyngeal Cancer, Breast & Endocrine, Gastrointestinal Tract, Cervical Cancer, Chest (Lung), Genitourinary Tract / Gynaecology, Central Nervous System, Musculoskeletal Tumours, Skin, Paediatric Tumours, Haematological Malignancies	36

Therapeutics and skills in clinical oncology:

1. Management in clinical oncology by tumour sites.
2. Radiation oncology including external beam radiotherapy and brachytherapy.

	<ol style="list-style-type: none"> <li>3. Systemic therapy treatment and management including chemotherapy, hormonal, targeted therapy and immunotherapy.</li> <li>4. Oncological emergency.</li> <li>5. Supportive treatment including managing oncology treatment-related side effects.</li> <li>6. Palliative care.</li> <li>7. Evidence-based medicine.</li> </ol>
<p>4) Assessments  (Standard 2.2.1)</p>	<p>Assessments should</p> <ol style="list-style-type: none"> <li>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, formative assessment, communication skills including methods appropriate to assess ethics and professionalism.</li> <li>ii. Include formative and summative assessments throughout each rotation, semester, or year of study.</li> <li>iii. Include clear criteria for progression to next year of study.</li> <li>iv. Include an exit exam.</li> </ol>
<p>5) Additional requirements for completion of training  (Standard 1.2.4)</p>	<ol style="list-style-type: none"> <li>i. Completion of graduate-level research or clinical audit project</li> <li>ii. Good clinical practice course</li> <li>iii. Research methodology course</li> <li>iv. Scientific writing course</li> <li>v. Medical statistics software training</li> </ol>
<p>6) List of competencies to be acquired upon completion of</p>	<p>Upon completion of training, the trainee should be able to:</p> <ol style="list-style-type: none"> <li>i. Formulate a treatment plan</li> <li>ii. Treat patients with external beam radiotherapy</li> <li>iii. Treat patients with brachytherapy</li> <li>iv. Treat patients with chemotherapy</li> </ol>

training  (Standard 1.1.4)	<ul style="list-style-type: none"><li>v. Treat patients with targeted therapy and immunotherapy</li><li>vi. Treat patients with hormonal therapy</li><li>vii. Treat patients with other treatment modalities</li><li>viii. Manage emesis related to cancer therapy</li><li>ix. Palliate common cancer-related complications</li><li>x. Manage oncological emergencies</li><li>xi. Conduct research activities</li><li>xii. Break bad news</li></ul>
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**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) - Clinical Oncology		
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)	<ul style="list-style-type: none"> <li>i. Registered with National Specialist Register</li> <li>ii. Attended Training-of-Trainer course</li> </ul>
6	Minimum requirements for educational resources  (Standard 5.1.1)	<p>Training centres must <b>collectively</b> provide the following:</p> <ul style="list-style-type: none"> <li>i. Services <ul style="list-style-type: none"> <li>a) General medical and surgical, imaging and laboratory support</li> <li>b) Inpatient and outpatient chemotherapy services</li> <li>c) Radiotherapy (3D and IMRT) and brachytherapy services (at least for gynaecological malignancies).</li> </ul> </li> </ul>

d) Outpatient clinics including multidisciplinary clinics

ii. Equipment

- a) CT simulator
- b) Linear accelerator
- c) Treatment planning system
- d) Brachytherapy system

iii. Case Load

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

Areas	Minimum Quantity (patients/trainee/year)
New oncology cases	40
Oncology outpatients	100
Radiotherapy cases	20
Brachytherapy delivery	5
Systemic cancer delivery	50
Management of palliative care	5



		Management of oncological emergency	5
7	Minimum qualifications and experience of Head of Programme  (Standard 6.2.2)	<ul style="list-style-type: none"> <li>i. 5 years or more of working experience after national specialist registration</li> <li>ii. Experience in administration and/or academic management</li> </ul>	

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## ACKNOWLEDGEMENT

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