



MALAYSIAN MEDICAL COUNCIL

SPECIALTY-SPECIFIC REQUIREMENTS (SSR)

(CLINICAL ONCOLOGY)

Prepared By:

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

Approved by the Malaysian Medical Council:

21st March 2023

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) -**

Clinical Oncology

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. 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.						
	<table><tr><th>Scope/Content</th><th>Minimum Duration (Months)</th></tr><tr><td>Oncology emergencies and basic sciences</td><td>12</td></tr><tr><td>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</td><td>36</td></tr></table>	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
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.						

	3. Systemic therapy treatment and management including chemotherapy, hormonal, targeted therapy and immunotherapy. 4. Oncological emergency. 5. Supportive treatment including managing oncology treatment-related side effects. 6. Palliative care. 7. Evidence-based medicine.
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, formative assessment, 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 exam.
5) Additional requirements for completion of training (Standard 1.2.4)	i. Completion of graduate-level research or clinical audit project ii. Good clinical practice course iii. Research methodology course iv. Scientific writing course v. Medical statistics software training
6) List of competencies to be acquired upon completion of	Upon completion of training, the trainee should be able to: i. Formulate a treatment plan ii. Treat patients with external beam radiotherapy iii. Treat patients with brachytherapy iv. Treat patients with chemotherapy

training (Standard 1.1.4)	v. Treat patients with targeted therapy and immunotherapy vi. Treat patients with hormonal therapy vii. Treat patients with other treatment modalities viii. Manage emesis related to cancer therapy ix. Palliate common cancer-related complications x. Manage oncological emergencies xi. Conduct research activities xii. Break bad news
----------------------------------	--

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)	i. Registered with National Specialist Register ii. Attended Training-of-Trainer course
6	Minimum requirements for educational resources (Standard 5.1.1)	Training centres must collectively provide the following: i. Services a) General medical and surgical, imaging and laboratory support b) Inpatient and outpatient chemotherapy services c) Radiotherapy (3D and IMRT) and brachytherapy services (at least for gynaecological malignancies).

		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: <table><tr><th>Areas</th><th>Minimum Quantity (patients/trainee/year)</th></tr><tr><td>New oncology cases</td><td>40</td></tr><tr><td>Oncology outpatients</td><td>100</td></tr><tr><td>Radiotherapy cases</td><td>20</td></tr><tr><td>Brachytherapy delivery</td><td>5</td></tr><tr><td>Systemic cancer delivery</td><td>50</td></tr><tr><td>Management of palliative care</td><td>5</td></tr></table>	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
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)	i. 5 years or more 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 Clinical Oncology 2022 – 2024

1. Dr. Ibtisam binti Muhamad Nor (Chair)
2. Dr. Flora Chong Li Tze
3. Dr. Hafizah Zaharah binti Ahmad
4. Dr. Mastura Binti Md Yusof
5. Prof. Madya Dr. Rozita Binti Abdul Malik
6. Dr. Adlinda Binti Alip
7. Dr. Wong Yoke Fui
8. Dr. Matin Mellor Abdullah
9. Dr. Azura Deniel

Editors:

Medical Education Committee (MEC)

1. Prof. Dato' Dr. Yang Faridah binti Abdul Aziz (Chair)
2. Prof. Dato' Dr. Mafauzy bin Mohamed
3. Datuk Dr. Abdul Razzak Md Said
4. Prof. Dr. Nabishah binti Mohamad
5. Prof. Dr. Zaleha Abdullah Mahdy
6. Prof. Datin Dr. Yong Rafidah binti Abdul Rahman
7. Prof. Dr. G. R. Letchuman Ramanathan
8. Prof. Dr. Nor Azmi bin Kamaruddin

Specialty Education Subcommittee (SEC)

1. Prof. Dr. G. R. Letchuman Ramanathan (Chair)
2. Prof. Datin Dr. Yong Rafidah binti Abdul Rahman
3. Dr. Roslina Abd Manap
4. Prof. Dr. Rosmawati Mohamed
5. Dr. Syarifah Noor Anisa Ahmad
6. Dr. Hirman bin Ismail
7. Prof. Dr. Jamiyah binti Hassan
8. Dr. Fairoz Azlim Muslim