



COURSE SPECIFICATION

(Clinical Oncology)

Faculty of Medicine- Mansoura University

(A) Administrative information

(1) Programme offering the course.	Postgraduate Master degree of Clinical Oncology and Nuclear Medicine CONM517
(2) Department offering the programme.	Clinical oncology and nuclear medicine department
(3) Department responsible for teaching the course.	Clinical oncology and nuclear medicine department
(4) Part of the programme.	second part
(5) Date of approval by the Department's council	6/5/2020
(6) Date of last approval of programme specification by Faculty council	20/9/2020
(7) Course title.	Clinical Oncology
(8) Course code.	CONM517CO
(9) Credit hours	7 lectures 10 clinical
(10) Total teaching hours.	105 hours lectures 300practical

(B) Professional information

(1) Course Aims.

The broad aims of the course are as follows. (either to be written in items or as a paragraph)

- 1- Educate the candidates Principles of cancer management and decision making for treatment policy (surgery, radiotherapy, hormonal therapy and chemotherapy).**
 - 2- Teach the plan of treatment for each patient according to the site and stage of disease.**
 - 3- Educate them the disorders related to cancer (psychological, rehabilitation, paraneoplastic,.....)**
 - 4- Prepare them to use anticancer agents and how to deal with side effects of treatment.**
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(2) Intended Learning Outcomes (ILOs):

Intended learning outcomes (ILOs); Are four main categories: knowledge & understanding to be gained, intellectual qualities, professional/practical and transferable skills.

On successful completion of the course, the candidate will be able to:

A- Knowledge and Understanding

The trainee should: know and understand:

A1: describe the principles of cancer management and decision making for treatment policy (surgery, radiotherapy, hormonal, and chemotherapy) of different body organs.

A2: Explain the toxicity profile of each line of treatment, including long-term hazards, how to adapt the dose and treatment schedule according to the individual patient in case of organ dysfunction, and how to handle these complications.

A3: Identify and treat paraneoplastic syndromes and oncologic emergency.

A4: Explain cancer of unknown origin and cancer in AIDS patients.

A5: Describe treatment of metastatic diseases.

A6: illustrate supportive care in cancer patients

A7: explain psychological aspects of cancer patients

A8: recognize rehabilitation in cancer patients

B- Intellectual skills

B1: Distinguish the indications, contraindications of radiotherapy and systemic therapy(chemotherapy, hormone therapy, biological agents) in order to plan and prescribe appropriate treatment for common malignancies.

B2:distinguish potential complications of different lines of treatment and how to treat.

B3: Evaluate the management of complications of disease processes

B4:analyse metastatic disease and cancer of unknown primary

B5:evaluate paraneoplastic diseases and deal with

B6:interpret psychological aspects and rehabilitation in cancer patients.

C- Professional/practical skills

C1: Apply treatment of cancer in different body organs

C2:Evaluate prescription and administration of different lines of treatment

C3:develop skills in handling of side effects of treatments

C4: Apply issues of supportive care of cancer patients .

C5: Be able to deal with psychological aspects and rehabilitation of cancer patients.

C6:Assess oncologic emergencies, cancer in AIDS.

D- Communication & Transferable skills

: Trainees must be able to.

D1: Trainees must be able to take an accurate and reliable history.

D2: Explain disease processes and treatment details honestly in language appropriate to patients and their families.

D3- Communicate clearly and efficiently both orally and in writing with medical colleagues in other disciplines.

D4-Maintain accurate records of consultations and other interactions with patients and their families.

D5: Trainees must Take part in discussions in multi-disciplinary meetings.

D6: Trainees should Assess and advise patients attending for follow-up after completion of treatment and advise on appropriate investigations during and after follow-up.

(3) Course content: 105 hours lectures

Modules	Subjects	Lectures
Module-1	*Principles of cancer management and decision making for treatment policy: surgery, radiotherapy, hormonal therapy and chemotherapy.	2
	* Multidisciplinary approach of treatment.	1
	*Cancer of the head and neck	
	- nasal cavity,	1
	- paranasal sinuses,	1
	- nasopharynx,	1
	-oral cavity,	1
	-oropharynx,	1
	- larynx,	1
	- hypopharynx	1
-and salivary glands.	1	
*Cancer of the lung		
-Small cell		1.5
-Non small cell		1.5
-Carcinoid		1
-Large cell neuroendocrine carcinoma		1

	*mediastinum -Thymic tumors -Germ cell tumors -Mesenchymal tumors -Neurogenic tumors -Primary cardiac malignancies -pleura.	 1 1 1 1 1 1
	*Gynecologic tumors : - vulva -vagina -cervix -endometrium -fallopian tubes -gestational trophoblastic disease -ovary	 1 1 1.5 1.5 1 1 1
	*Cancer of the breast. -Early breast cancer -Locally advanced breast cancer -metastatic breast cancer	 2 2 2
Module-2	* Cancer of the genitourinary system - kidney -ureter -bladder - prostate -urethra -penis -testis	 1 1 1.5 1.5 1 1 1

	*Cancer of the GIT: - esophagus - stomach - pancreas - hepatobiliary - small intestine - colon - rectal - anal region	 1 1 1 1 1 1 1.5 1
	*Non-melanomatous skin cancer *melanomas	 1.5 1
	*Cancer of the endocrine system: - thyroid - parathyroid - adrenals - pancreas - carcinoid	 1.5 1 1 1 1
	* Neoplasms of the central nervous System: - Low grade gliomas - High grade gliomas - Meningiomas - Ependymoma - Medulloblastoma - Pituitary - Spinal cord - Orbital, ocular&optic nerve tumors	 1.5 1.5 1 1 1 1 1.5 1
Module-3	* Solid tumours of childhood. - Neuroblastoma - Wilm	 1 1

	-Retinoblastoma	1
	-Pediatric bone tumors	1
	Rhabdomyosarcoma	1
	-liver tumors	1
	-Germ cell tumors	1
	*Cancer in Aids and other immunodeficiency status	1
	* Soft tissue sarcomas	2
	*Bone sarcomas.	
	-Osteosarcoma	1
	-Giant cell tumors	1
	-Ewing sarcoma	1
	-Chondrosarcoma	1
	*Leukemias	2
	*lymphomas	2
	*plasma cell neoplasms.	1
	*Paraneoplastic syndromes and	1
	* oncologic emergencies	2
	*Cancer of unknown primary site	2
	*Principles of chemotherapy: chemotherapy objectives, side effects and complication chemotherapy	1
	*Principles of applications of biologic therapy	1
	*Adverse effects of treatment	1
	*Treatment of metastatic cancer.	
	-Brain mets	1

-Lung mets	1
-Liver mets	1
-Bone mets	1
*Supportive care in cancer patient.	1
*Administration of cancer treatment	1
* Psychological aspects of patients with cancer	1
*Rehabilitation of cancer patients.	1

Table of clinical teaching (300 hours practical)

Clinical skill	Teaching hours
<ul style="list-style-type: none"> • Management of: 	
*Cancer of the head and neck	
- nasal cavity,	3
- paranasal sinuses,	3
- nasopharynx,	4
-oral cavity,	3
-oropharynx,	3

- larynx,	4
- hypopharynx	4
-salivary glands.	3
Cancer lung	
-Small cell lung	4
-Non small cell lung	4
-Carcinoid	3
-Large cell neuroendocrine carcinoma	3
*mediastinum	
-Thymic tumors	3
-Germ cell tumors	3
-Mesenchymal tumors	3
-Neurogenic tumors	3
-Primary cardiac malignancies	3
-pleura.	3
*Gynecologic tumors :	
- vulva	3
-vagina	3
-cervix	4
-endometrium	4
-fallopian tubes	3
-gestational trophoblastic disease	3
	3
-ovary	
*Cancer of the breast.	
-Early breast cancer	5
-Locally advanced breast cancer	5
-metastatic breast cancer	5
* Cancer of the genitourinary system	

- kidney	3
-ureter	3
-bladder	4
- prostate	5
-urethra	3
-penis	3
-testis	3
*Cancer of the GIT:	
- esophagus	4
-stomach	4
- pancreas	3
- hepatobiliary	3
- small intestine	3
-colon	4
-rectal	3
-anal region	3
*Non-melanomatous skin cancer	3
*melanomas	4
*Cancer of the endocrine system:	
-thyroid	4
-parathyroid	4
- adrenals	3
-pancreas	3
-carcinoid	3
* Neoplasms of the central nervous System:	
-Low grade gliomas	4
-High grade gliomas	3
-Meningiomas	4
-Ependymoma	4

-Medulloblastoma	4
-Pituitary	4
-Spinal cord	3
-Orbital, ocular&optic nerve tumors	3
* Solid tumours of childhood.	
-Neuroblastoma	3
-Wilm	3
-Retinoblastoma	4
-Pediatric bone tumors	3
Rhabdomyosarcoma	3
-liver tumors	3
-Germ cell tumors	3
*Cancer in Aids and other immunodeficiency status	3
* Soft tissue sarcomas	4
*Bone sarcomas.	
-Osteosarcoma	3
-Giant cell tumors	3
-Ewing sarcoma	3
-Chondrosarcoma	3
*Leukemias	4
*lymphomas	4
*plasma cell neoplasms.	4
*Paraneoplastic syndromes and	3
* oncologic emergencies	4
*Cancer of unknown primary site	3
Handeling of chemotherapy side effects complications of chemotherapy	3

* applications of biologic therapy	3
*dealing with adverse effects of lines of treatment	3
*Treatment of metastatic cancer.	
-Brain mets	3
-Lung mets	3
-Liver mets	3
-Bone mets	3
*Supportive care in cancer patient.	4
*Administration of cancer treatment	4
* deal with psychological aspects of patient with cancer	4
*how to rehabilitateof cancer patients.	3

(4) Teaching Methods

- 4.1, lectures
- 4.2, scientific meetings
- 4.3, case presentation
- 4.4, panel discussion
- 4.5, club journal
- 4.6, interactive teaching

(5)Assessment methods.

- 5.1. written exam for assessment of Knowledge, and intellectual skills,
- 5.2. Structured oral exam for assessment of knowledge, intellectual, and practical /professional skills
- 5.3.OSCE clinical exam for assessment of knowledge, intellectual, practical /professional skills and communication /transferable skills.

(5) Assessment schedule.

Assessment 1: Written exam held after 36 month of admission to the job or 30 months of registration to the MSC degree.

Assessment 2: Clinical exam held after 36 month of admission to the job or 30 months of registration to the MSC degree and OSCE stations.

Assessment 3: Oral exam held after 36 month of admission to the job or 30 months of registration to the MSC degree. and structured oral exam.

Assessment 4: MCQ exam held at the end of 2nd, 3rd, 4th semester.

Percentage of each Assessment to the total mark.

Written exam:240 marks,

MCQ exam: 60 marks

Clinical exam. 150 marks,

Oral exam. 150 marks,

(6) References of the course.

6.1. Text books.

- Perez CA, Brady LW, Halperin EC, et al., editors. *Principles and Practice of Radiation Oncology. 7th edition*. Wolters Kluwer, 2018
- Zhong, Jim. "Book Review: Handbook of Evidence-Based Radiation Oncology." (2019).
- Chmielowski, Bartosz, and Mary Territo. *Manual of clinical oncology*. Lippincott Williams & Wilkins, 2017.
- DeVita, Hellman, and T. S. Lawrence. "Rosenberg's. Cancer Principles & Practice of Oncology [Internet]." (2019)

6.2: Journals:

- Journal of clinical oncology
- International journal of radiation oncology, radiobiology & physics.

6.3: Websites:

- www.asco.org
- www.esmo.org

(7) Facilities and resources mandatory for course completion.

Candidates and their learning are supported in a number of ways:

- Candidates logbook
- Programme Specification
- Extensive library and other learning resources
- Computer laboratories with a wide range of software
- Intranet with a wide range of learning support material
 - MSc/MD Dissertation Supervisor

Programme Coordinator:

Prof Dr Somaya Eteba

Prof Dr: Rasha Abdellatif

Head of Department : Prof Dr Magda Allam

Date:

6/5/2020

We certify that all information required to deliver this programme is contained in the above specification and will be implemented. All course specification for this programme are in place.

Programme coordinators:

Prof Dr Somaya Eteba
Prof Dr Rasha Abdellatif

Dean:

Prof Dr Nesreen Salah Omar

Executive director of the quality assurance unit:

Prof Dr Nesreen Shalaby

Signature & date:

Signature & date:

Signature & date:

P.S. This specification must be done for each course.