



Log Book of MS.

of

Clinical Oncology and Nuclear Medicine

POPULITY OF ACULTY OF





Personal Data

Name:
Department :
Mobile Number:
E-mail Address:
Master Degree:
Date of registration://
MD/PhD Degree:
Date of registration://
1212
18
Signature:
P. CENT
Head of the Department Vice Dean for research and postgraduate study
ERSITYFACULI
Aim of the Logbook:





To provide evidence that the candidate attained the desired level of competence required to gain the award. In this book, the candidate will document all academic and clinical skills he/she attained during their training.

Important regulations (for MS candidates):

- **-To be legible for the first part MS exam** you have to attend at least 70% of the lectures of each course in the semester as evidenced by the logbook
- -To be legible for the (MCQ online) exam at the end of each of second part semesters you have to attend at least 70% of the lectures of each course/module in the semester as evidenced by the logbook.
- To be legible for the final MS exam:
- 1- A time interval of 36 months must pass since the <u>day of registration to the job</u> for residents and demonstrators and 30 months since the day of degree registration for non residents.
- 2- You have to spend a year of daily clinical/practical training in the department or two years with three times/week practical/clinical training.
- 3-You have to register 4 semesters on Ibn lhaythm registration page.
- 4- You have to attend 70% of the lectures of each course in the second part of MS degree.
- 5- You have to fulfill and perform 70% of the practical skills documented in the logbook.

Important regulations (for MD/PhD candidates):

- **-To be legible for the first part MD exam** you have to attend at least 70% of the lectures of each course in the semester as evidenced by the logbook
- -To be legible for the (MCQ online) exam at the end of each of second part semesters you have to attend at least 70% of the lectures of each course/module in the semester as evidenced by the logbook.





- To be legible for the final MD/PhD exam:
- 1- A time interval of 36 months must pass since the day of degree registration.
- 2- You have to take your practical/clinical training three times/week for two years.
- 3-You have to register 5 semesters on Ibn lhaythm registration page.
- 4- You have to attend 70% of the lectures of each course in the second part of MD/PhD degree.
- 5- You have to fulfill and perform 70% of the practical skills documented in the logbook.







Bylaws of the MS







Contents

Section I: Scientific lectures

Section II: Clinical cases.

Section III: Procedures/operations

Section IV: Seminars

Section V. Clinical rotation

Section VI: Scientific activities (conferences/workshops)

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Section I: Scientific Lectures

MSC. 1st Part

Compulsory Course title:	Medical Radiation Physics
Course code:	CONM517MRP
Credit hours	1 lecture
	1 clinical
14.	15hours lectures
Total teaching hours:	30 hours clinical





Subjects	Lecture	Date	Signature of	
	Hours		Lecturer	
*Medical radiation physics and physical aspects of radiation protection.	2			
*External beam dosimetry and treatment planning.	2			
*Clinical application of electron beam Therapy	2			
High linear energy transfer and heavy charged particles	1	181		
Intraoperative radiation therapy	2	2	-3	
Conformal and stereotactic therapy	2	111		
Total body and hemibody irradiation	2	1		
Basic principles of nuclear medicine, physics, diagnostic and therapeutic studies, and radioimmunoassay	2	3	E	
Total teaching hours	15	<u> </u>	>	
Total caching notis Total caching notis				





30 hours clinical skills

Clinical skills	Teaching hours	Date	Trainer
	1 2		signature
Radiation protection	2	6.	
External beam dosimetry	2		
Treatment planning	2	6	
Clinical application of electron b	2		
therapy			~2
Hemibody irradiation	2		
CT planning	2	, ,	
Isodose curves	2	7	21-
Radiotherapy machines	2	7	101
3D planning	2	7	0
Dose fractionation	2		Ш
Gamma camera	2		1
Normal tissue tolerance	2	1	1
Radioisotopes dealing	2		0/
Target delineation	2		
Diagnostic and therapeutic use	2		2
of isotopes		110	/ /
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Compulsory Course title:	Tumor biology, Radiobiology& Radiation protection
Course code:	CONM517RBP
Credit hours	1 hour lecture
1:0	1 hour clinical
Total teaching hour <mark>s. </mark>	15hours lectures
	30 hours clinical
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Subjects	Lecture	Date	Signature of
	hours		Lecturer
* Principles of molecular cell Biology of	0.5		
cancer: DNA Structure, gene expression,			
human genome, identification of	2		
oncogenes and tumor suppressor			
genes and implication for oncology	0.7	1	
* Cell cycle, tumor growth and molecular	0.5	10 11	
biology of the cell cycle.	0.5		
* Cell survival curves	0.5		3
* Chromosome abnormalities in human cancers and leukemia.	0.5	1//	
*Growth factors and Growth factor	0.5	1 2	F-\
receptors and relation to malignancy and			101
targeted therapy	-7	-	
* Radiobiology: radiation interaction	0.5		Ш
with biological material, cell repair of		<u>/</u>	\geq
radiation damage, relative biologic	50180		
effectiveness.	0.7		J /
*Linear energy transfer (LET). *High LET.	0.5	1/5	
*Oxygen effect and reoxygenation	0.5		
*Radiation dose and fractionation	0.5	06 111	
* Tumor radiobiology, radiosensitivity,	0.5	10,	
adverse effects of radiation.	-ACILL	1	
*Radiosensitizers and radioprotectors.	0.5		
*Effect of radiation on different tissues			
and organs.			
-Skin	0.5		
-liver	0.5		
-Lung	0.5		
-Digestive system	0.5		





E III Pres		
-Testis and ovaries	0.5	
-Central nervous system	0.5	
-Cardiac system	0.5	
-Hemopoietic and lymphoid	0.5	
-Kidneys	0.5	
-Skeletal system	0.5	
*Acute and late effects of whole body	0.5	
Irradiation	4	
*Chemical modifiers of radiation.	0.5	
*Chemotherapy and irradiation.	0.5	
* Biology of cancer chemotherapy,	0.5	
*Biochemical resistance to chemotherapy	0.5	
*Molecular basis of	0.5	2
chemosensitivity&chemoresistance.	11772	
*Chemotherapeutic drugs and groups.	0.5	
*Chemotherapy toxicity.	0.5	- 1
* Response to chemother apy and biology	0.5	
of tumor growth		N.
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OL PAUNIVERSITY	FACULTYOFINE	





30 hours clinical skill

Clinical skill	Teaching hours	Date	Trainer signature
*Effect of radiation on			
different tissues			
and organs.	. 1 0		
-Skin	2	(
-liver	1	1 1	
-Lung	2	1	
-Digestive system	2		
-Testis and ovaries	1		
-Central nervous system	2		5.
-Cardiac system	1	1/2	
-Hemopoietic and lympho	2	///	
-Kidneys	1	- Pa	135
-Skeletal system	2	- 1	101
*Radiation dose and	2	2	
fractionation			4
*Radiosensitizers and	2		
radioprotectors	1 Proper		
*Acute and late effects	2		
of whole body irradiation			6/
*Chemical modifiers of	2		47 /
radiation.			~ /
*Chemotherapy and	2	06	' /
irradiation.		10.	
*Chemotherapy toxicity.	2		
* Response to chemothera		000	
and biology			
of tumor growth			





Compulsory Course title:	Nuclear Medicine(level 1)
Course code:	CONM517NM1
Total teaching hours.	15 hours







Subjects	Lecture hours	Date	Signature
*General basis of nuclear medicine.	2		
*Laboratory techniques used in nuclear medic including preparation of standards.	1		
*Dose preparation and quality assurance of the dose calibrators.	2		
*Radiopharmacology.	1		
*Health physics-waste disposal and decontamination.	2	18/1	
* Radioimmunoassay and radioimmunotherap	1	0	
* Concepts of quality control in nuclear medicine.	1/2	111	
* Radiation exposure of unsealed sources.	2	121	-1
* Instrumentation.	7	1	
- Patient selection and preparation	1	V	Ш
- Complications and precaution		7 1:	=
Radionuclides production and use	11	1 / c	5/
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Compulsory Course title:	Radiation technology
Course code:	CONM517RTec
Credit hours	1 hour lectures
	1 hour clinical
Total teaching hours	15 hours lectures
7.12	30 hours clinical

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Subjects	Lectures	Date	Signature of
	Hours		Lecturer
* General principles of radiotherapy of	2		
tumors: radiotherapy objectives, side			
effects and complications.		1	
* Radiation modalities: external beam,	1		
brachytherapy, sealed radioactive source		18 1	
* Radiotherapy equipments and machine	1		
linear accelerators, telecobalt,	1111-		2
kilovolage X-ray machines and Simulate	A111/75		
* Principles and basic techniques of	1		
radiation oncology	1 -00	7	11
* Individualized radiotherapy technique			In
tumour of different sites:			
-Brain.	1		Ш
-Head and neck;	2		2
-Breast	1		-
- Thyroid&lung	9/1	/ / .	0/
- Gastrointestinal	0.5	1	\
- Genitourinary system	1	1/1) /
- Skin	1		
- Bone& Soft tissue tumors	1	C 111.	
- haematological	0.5	101	
- Pediatric tumors	1,11		
FREIT	VENCUI	1	





30 hours clinical skills

Subjects	Lectures hours	Date	Trainer signature
radiotherapy side effect	1		
complications.			
external beam	2		
linear accelerators	2	6.	
telecobalt,.	1		
kilovolage X-ray machin	1	8	
Simulators	1		
techniques of			D-1
radiation oncology			
*2D	1	1111/2	
*3D	1		126
* Individualized radioth		-	1121
techniques to tumou	317	-1	
different sites:			LU LU
-Brain.	2		>
-Head and neck;	2	7 NO 1	
-Breast	2	13	101
- Thyroid&lung	2		
- Gastrointestinal	2		10/
- Genitourinary system	2		V /
- Skin	2		
- Bone& Soft tissue tumo	2	101	
- haematological	2	TITT	
- Pediatric tumors	2-ROITVE	CULI	
	-11011111	10	





Second part

Compulsory Course title	1-11-	Clinical Oncology
Course code:	117	CONM517CO
Credit hours	73	7 lectures
131		10 clinical
Total teaching hours.	1	105 hours lectures
\ 0.\		300practical





Modules	Subjects & Date of Lectures	Lecture	Lecturer
		Hours	Signature
Module-1	*Principles of cancer management and decision m for treatment policy: surgery, radiotherapy, horr therapy and chemotherapy.		
	* Multidisciplinary approach of treatment.	1	
3	*Cancer of the head and neck - nasal cavity, - paranasal sinuses, - nasopharnyx, - oral cavity,	1 1 1	
3	-oropharnyx, - larynx, - hypopharnyx -and salivary glands.	1 1 1 1 1 1	
NSOS	*Cancer of the lung -Small cell -Non small cell -Carcinoid -Large cell neuroendocrine carcinoma *Mediastinum -Thymic tumors -Germ cell tumors -Mesenchymal tumors -Neurogenic tumors	1.5 1.5 1 1 1 1	
	-Primary cardiac malignancies -pleura.	1	





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	*Gynecologic tumors:	
	- vulva	1
	-vagina	1
	-cervix	1.5
	-endometrium	1.5
	-fallopian tubes	1
	-gestational trophoblastic disease	1
	-ovary	1
	*Cancer of the breast.	
	-Early breast cancer	2
	-Locally advanced breast cancer	2
	-metastatic breast cancer	$\begin{bmatrix} 2 \\ 2 \end{bmatrix}$
Module-2	* Cancer of the genitourinary system	2
	- kidney	1
	-ureter	1
1 3	-bladder	1.5
1.51	- prostate	1.5
1.0	-urethra	1
	-penis	1
5	-testis	1
IF	*Cancer of the GIT:	5
12	- esophagus	P .
1 70	-stomach	4 /
10	- pancreas	1
	- hepatobiliary	1
	- small intestine	1
	-colon	1
	-rectal	1.5
	-anal region	1
	*Non-melanomatous skin cancer	1.5
	*melanomas	1
	*Cancer of the endocrine system:	
	-thyroid	1.5
	-parathyroid	$\lfloor 1 \rfloor$
	- adrenals	$ _1$
	-pancreas	$\begin{bmatrix} \bar{1} \end{bmatrix}$
	F	<u> </u>





	-carcinoid	1
	* Neoplasms of the central nervous	
	System:	1.5
	-Low grade gliomas	1.5
	-High grade gliomas	1
	-Meningiomas	1
	-Ependymoma	1
	-Medulloblastoma	1
	-Pituitary	1
	-Spinal cord	1
	-Orbital, ocular&optic nerve tumors	1
Module-3	* Solid tumours of childhood.	
/ /	-Neuroblastoma	1.
/ /	-Wilm	1
14	-Retinoblastoma	1
/ ~)	-Pediatric bone tumors	1-
1:0)	Rhabdomyosarcoma	1
	-liver tumors	1
3	-Germ cell tumors	1 44
1 7	*Cancer in Aids and other	1 2
1 =	immunodeficiency status	
1 50	* Soft tissue sarcomas	2
100	*Bone sarcomas.	5 /
	-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:	1
	chemotherapy objectives, side effects and	
	complications of chemotherapy	
	*Principles of applications of biologic	1
	Therapy	
	*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
14	*Administration of cancer treatment	1
/ \ '	* Psychological aspects of patients with	1
1:01	Cancer	
	*Rehabilitation of cancer patients.	1 411
121		2
300 clinical	hours	

Teaching	Date	Trainer
hours	1/3	signature
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	hours 3 3 4 3 4 4 4	hours 3 3 4 3 4 4 4





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Cancer lung			
-Small cell lung	4		
-Non small cell lung	4		
-Carcinoid	3		
-Large cell	3		
neuroendocrine carcinoma			
*mediastinum			
-Thymic tumors	3		
-Germ cell tumors	3		
-Mesenchymal tumors	3		
-Neurogenic tumors	3	P .	
-Primary cardiac malignancies	3		
-pleura.	3		
*Gynecologic tumors:	177	1 2	
- vulva	3		
-vagina	3	1.1	. \
-cervix	4	1.1	-
-endometrium	4		
-fallopian tubes	3		Les I
-gestational trophoblastic disease	3	· 1 :	
-ovary	3	7 1 3	
*Cancer of the breast.	710	/ c	5/
-Early breast cancer	5		
-Locally advanced breast cancer	5	11.0	
-metastatic breast cancer	5		
* Cancer of the genitourinary system	n	/ ///	<i>(</i> -
- kidney	3	OK.	
-ureter	3	0.	
- kidney -ureter -bladder - prostate -urethra	4 5 3		
- prostate	5		
-penis	3		
-testis	3		
*Cancer of the GIT:			
- esophagus	4		
-stomach	4		





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		Т
*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	$\langle \langle \rangle \rangle$
* oncologic emergencies	4	
*Cancer of unknown primary site	3	
Handeling of chemotherapy side	3	1 2
effects and complications of chemothe	11/2	
* applications of biologic therapy	3	
*dealing with adverse effects of	3	13/2-1
lines of treatment	-	101
*Treatment of metastatic cancer.	2	
-Brain mets	3	
-Lung mets	3	/ / < /
-Liver mets	3	
-Bone mets	3	/9/
*Supportive care in cancer patient.	4	1/6/
*Administration of cancer treatment	4	
* Deal with psychological	4	
aspects of patients with cancer		V6 1. \
*how to rehabilitate of cancer patients.	3	0.
now to renaomitateor cancer patients.		





Compulsory Course title:	Nuclear Medicine	
Course code:	CONM 517 NM2	
Credit hours	4 hours	
Total teaching hours.	60 hours lectures	







semistar	Subjects	Lectures	Total Teaching Hours	Date	Lecturer Signaturer
1st	*General basis of nuclear medicine.	3	3		
	*Laboratory techniques used in nuclear medicine including preparation of standards.	2	2		
	*Dose preparation and quality assurance of the dose calibrators.	3	3		
	*Radiopharmacology.	2	2		
	*Health physics-waste disposal decontamination.	2	2	3	
	Nuclear medicine detectors	3	3	1	
2nd	* Concepts of quality control in nuclear medicine.	2	2	H	
1 5	* Radiation exposure of unsealed sources.	2	2	2	
1:	* SPECT *Monitoring devices	1	2	5/	
	*PET *whole body counters	1	3		
. = 1	*scintillation counters	1	111		
	* Therapeutic uses of isotopes: -thyroidcancers, - thyrotoxicosis, -bone metastasis,	2 2 2	2 2 2	r.	
3rd	* Diagnostic scintigraphic studies of:				
	-brain, -myocardium -kidney - thyroid	2 2 2 3	2 2 2 3		
	-parathyroid	2	2		





- III Nes			
-lung	3	3	
-bone	2	2	
- liver	2	2	
-spleen	2	2	
- pancreas	2	2	
-salivary glands	2	2	
-gastrointestinal	2	2	
-genitourinary	2	2	
-reticuloendothelial systems	2	2	







Compulsory Course title:	Pathology of Tumors
Course code:	CONM 505 path.T
Credit hours	3 hours
Total teaching hours.	45 hours lectures







Subjects	Lecture	Date	Lecturer
	hours		Signature
*General pathology:			
-Neoplasia	2		
-Tumor growth	2		
-Carcinogenesis	2		
-Tumor markers	2		
-Hormones & cancers	2		
*Special pathology:		V/\	
-pathology of head and neck tumers.	2		
- pathology of brain malignancies.	2	1 8	
-pathology of lung and pleural cancers	2		
- pathology of gastero-intestinal malignancies	3	1.1	
-pathology of female genital system tumors	3	1.1	= 1
- pathology of male genital system tumors	2	1 8	/-
* pathology of urothelial system tumors	2		Lin
* pathology of breast cancer	2		5
*pathology Soft tissue	2		
sarcomas	1	/ c	
*pathology of Bone sarcomas	2		
*pathology of Skin cancer and melanomas.	3	1.0	
*pathology of Cancer of the endocrine syst	3		
thyroid, parathyroid, adrenals, pancreas, carcinoid		111.	(C)
* pathology of Solid tumours of childhood.	3		
*Leukemias, lymphomas and plasma cell neoplas	4		
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Elective Course title.	Molecular biology related to oncology
Course code:	CONM517MB
Total teaching hours.	30 hours

Subjects	Lecture Hours	Date	Lecturer Signature
* Molecular biology related to oncologybasic principles -genomic and cancer -cytogenesis -cell cycle -apoptosis -invasion & metastasis -molecular therapy	5 4 4 4 4 5 4		SOICINE
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Elective Course title.	Genetics related to oncology
Course code:	CONM517GO
Total teaching hours:	30 hours
	1, /:

Subjects	Lecture	Date	Lecturer
315	hours), "	Signature
Genetics related to oncology	7	9, 1	1 41
-cancer as genetic disease	4	9 1	
-mechanism of cancer predisposition	4		1-1
-gatekeepers, gatetakers, landscapers	5		
-clinical characteristic of cancer families	4	/	
-multisystem genetic syndromes	4		1001
-nonsyndromic hereditary cancer	5		
-gene therapy	4	/	6 10.
· UNI		J (. /
WIVEDO	11000	111	
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Elective Course title.	Experimental radiobiology.
Course code:	CONM517ERP
Total teaching hours:	30 hours
	- 1/ //

Subjects	Lectures	Date	Lecturer
	1- 4	0 -	Signature
*Biological characters of malignant cells	3	1	
*Model tumor systems:		= 1	9
-definition	1	20	0 1 2
-preparation	2	100	3 15
-tumor growth measurment	3	0	/ ()
-tumor control dose	2	-	
-dilution assay technique	2		1/0
-lung colony assay	2		
*Invivo/ Invitro technique	2		/: 1111
*spheroids	2		06.1
*predictive assay		-	0.
-aim	1.1	1111	
-Intrinsic radiosensitivity	2	,0-	
-O2 status	2		
-proliferative potential	2		
*Invitro cell survival curve	2		
*hyperthermia and relation to irradiation	2		





Compulsory second part Course title:	Medicine& surgery related to oncology
Course code:	CONM 517 MSO
Credit hours	2 hours lectures
	1 hour clinical
Total teaching hours:	30hours lectures
13/	30 hours clinical
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*Deep vein thrombosis(DVT) 1 * Shock 1 *Breast: -Benign breast diseases 1 -Cancer breast 2 *Thyroid -Thyrotoxicosis 1 -Cancer thyroid 2 *Head and neck -Tongue ulcer 1 -lip ulcer 1		signature
* Shock *Breast: -Benign breast diseases -Cancer breast *Thyroid -Thyrotoxicosis -Cancer thyroid *Head and neck -Tongue ulcer 1	*	
*Breast: -Benign breast diseases 1 -Cancer breast 2 *Thyroid -Thyrotoxicosis 1 -Cancer thyroid 2 *Head and neck -Tongue ulcer 1		
-Benign breast diseases -Cancer breast *Thyroid -Thyrotoxicosis -Cancer thyroid *Head and neck -Tongue ulcer 1		
-Cancer breast 2 *Thyroid -Thyrotoxicosis 1 -Cancer thyroid 2 *Head and neck -Tongue ulcer 1		
*Thyroid -Thyrotoxicosis 1 -Cancer thyroid 2 *Head and neck -Tongue ulcer 1		
-Thyrotoxicosis 1 -Cancer thyroid 2 *Head and neck -Tongue ulcer 1		\\ \alpha \cdot \
-Cancer thyroid 2 *Head and neck -Tongue ulcer 1	11/1/2	20
*Head and neck -Tongue ulcer 1	11/1/2	100
-Tongue ulcer 1	11///	
	11111111111	
-lip ulcer 1		
	100	1:1-1
-Jaw swelling 1		
*Gastro-intestinal tumors	72	1
-Oesophageal 1		
-Liver tumors 0.5		
-Pancreatic tumors 0.5		100
-Colorectal tumors 1	100	121
-Stomach tumors 1		181





30 clinical hours

Basic of surgery		Date	Trainer signature
Diagnosis and 1st aid measures of DVT	1		
Differentiate different types of shock	1		
1st aid measures of shock	1		
Differential diagnosis of breast lumb	2		
Clinical staging of breast cancer	1	6	K.
Examination of breast and axilla	1	1/1	
Differential diagnosis of thyroid nodule	1		
Assessment of thyrotoxic manifestation	1		
Examination of neck	2	1	
Diagnosis and differentiation of ulcers of H&N	1		
Assessment of head and neck swelling	1		1
Performing abdominal examination	1		V
Differential diagnosis of abdominal swellings	1)	Lin
Medicine	61	1	3
Ability to detect cancer early	2	7	
Diagnose paraneoblastic syndromes	1		5
Differential diagnosis of types of jaundice	1	. /	~ /
Using hormonal treatment in cancer and manage side effects	2	13	0
Management of medical problems related to cancer	2	OF III	
Detection and management of metabolic	2	0 /	
disorders related to cancer	Mr.		
Detection of hormonal disorders	Ī		
Diagnose and differentiate haematologic	2		
disorders			
Management of lymphoma	2		





Subjects	Lectures	Date	Lecturer
			Signature
-Hormone and cancer	2		
-Prevention and early detection of cancer	1		
-Paraneoplastic	1		
-Gastric tumor	1	181	
-colonic tumor	1		
-hepatocellular carcinoma	1		0-1
-hepatic focal lesion	1		
-Jaundice	1		
-lung cancer	1		3/5-1
-hypercalcaemia	0.5	1	[
-pituitary dysfunction	1	2	
-thyroid nodule	1		Ш
-goitre	0.5		2
-lymphoma	1		
-plasma cell disorders	1		0/
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Section II:

Clinical Cases (the total required number

of cases is one third of the mentioned number for postgraduate students working outside university hospital)

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List of requirements

Diagnosis of the case	Total	Total No. of	Total No.	Total No. of
	number of	cases to give	of	cases to
	cases for	chemotherapy	admission	follow up on
	whom	in the	cases to	radiation
	history	outpatient	implement	machines
	taking and	clinic under	the	during
	examination	supervision	treatment	radiotherapy
	were done	•	protocol	course under
	at initial		under	supervision
	presentation		supervision	super vision
	presentation		super vision	
Breast cancer	100	70	50	70
Brain tumors	70	20	40	30
Nasopharyngeal tumors	15	12	12	12
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Hypopharyngeal tumors	12	10	10	10
Oral cavity tumors	15	12	12	12
Maxillary tumors	8	3	3	3
Salivary tumors	8	3	3	3
Esophageal tumors	10	5	5	5





Gastric	6	4	4	4
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Pancreatic tumors	10	5	5	5
Large intestinal tumors	40	10	10	10

Musculoskeletal	15	5	5	5
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Section III: Planning Procedures (the total

required number of cases is one third of the mentioned number for postgraduate students working outside university hospital)

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List of requirements (may include multiple pages)

Radiotherapy planning	Total number required	Observer	Assistant	Independent
Breast cancer	50	30	10	10
Brain tumors	25	10	7	8
Nasopharyngeal tumors	10	4	2	4
Oropharyngeal tumors	8	2	3	3
Hypopharyngeal tumors	8	2	3	3
Oral cavity	8	2	3	3
Maxillary tumors	6	2	2	2
Salivary tumors	6	2	2	2
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Esophageal tumors	6	2	2	2
Gastric tumors	6	2	2	2





Pancreatic tumors	6	2	2	2
Large intestinal tumors	25	12	6	13
2		4		
Musculoskeletal tumors	15	6	5	4
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Lymphomas&Myelomas	30	15	8	7
Lung tumors	20	7	7	6
Genitourinary tumors	30	7	15	4 8
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Section IV:







List of requirements:

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1- Attendance

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Section V: Clinical rotation





Clinical Rotation (130 practical hours)

Rotation	Date		Department/	Trainee's	Trainer's
	From	То	hospital	signature	signature
Chemotherapy unit	S &			6/	
Nuclear medicine unit					
Patient admission unit		-	الما الما الما	1:1	1
Machine supervision					
Clinical oncology					
Internal medicine					
Surgery					
Radio diagnosis					





Clinical Rotation

Rotation	Date		Department/	Trainee`s	Trainer`s
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Chemotherapy unit	S &			6/	
Nuclear medicine unit					
Patient admission unit		70	4	1.1	
Machine supervision					
Clinical oncology					
Internal medicine					
Surgery					
Radio diagnosis					





Clinical Rotation

Rotation	Da	ate	Department/	Trainee`s	Trainer`s
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Chemotherapy unit	S &			61	
Nuclear medicine unit					
Patient admission unit		-	المالية	1:1	
Machine supervision					
Clinical oncology					
Internal medicine					
Surgery					
Radio diagnosis					





Clinical Rotation

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Chemotherapy unit	S 4			61	
Nuclear medicine unit					
Patient admission unit		-	الله الله	1:15	
Machine supervision					
Clinical oncology outpatient clinic					
Internal medicine					
Surgery					
Radio diagnosis					





Rotation	Date		Department/	Trainee`s	Trainer`s
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Chemotherapy unit				41	
Nuclear medicine unit					
Patient admission unit		112	الله الم	1.5	
Machine supervision					
Clinical oncology outpatient clinic					
Internal medicine					
Surgery					
Radio diagnosis					





Rotation	Date		Department/	Trainee`s	Trainer`s
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admission unit			attition	2:	
Machine					
supervision					
Clinical oncology					
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Internal medicine					
Surgery					
Radio diagnosis					





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Nuclear medicine unit					
Patient admission unit			Milling	1/20	
Machine supervision					
Clinical oncology outpatient clinic					
Internal medicine					
Surgery					
Radio diagnosis					





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Chemotherapy unit			3		
Nuclear medicine unit	*				
Patient admission unit			MIIII	Pil	
Machine supervision					
Clinical oncology outpatient clinic					
Internal medicine					
Surgery					
Radio diagnosis					





Section VI

Scientific activities

(Conferences/workshops)





List of requirements

Conferences					
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- -Attendant
- -Organizer
- -Presenter