



كلية الطب  
وحدة ضمان الجودة



Faculty of Medicine  
Quality Assurance Unit

# Medical Doctorate degree of Neurology Log Book



« كراسة الأداء و الأنشطة »

اللازمة لحصول الطالب على درجة الدكتوراة في

الأمراض العصبية

2022-2023



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## Personal Data

Name.....  
Date of birth.....  
Address.....  
Place of work.....  
Telephones.....Mobile phone(s).....  
E mail.....

Name of hospital	Period of work	Hospital director signature

## Academic Information

MBBCh...../...../..... University  
Grade .....

Grade of Internal Medicine course on graduation .....

Others...../...../..... University  
...../...../..... University



### \* Aim of the activities book

To provide one source of evidence for the assessment committee that you attained the desired level of competency required to gain the award.

In this book you will document all clinical, academic and other experiences and skills you attained during your training.

### Sections of the book

#### For each module / course / rotation

You should fill the following sections:-

#### **A- Clinical case log**

1- You will first find list with all required cases in the concerned module and the minimum number of cases you must get exposed to and level of participation you should achieve for each type of cases.

2- You should record all clinical cases in the module and each case should be signed by your trainer.

#### 2- Clinical case presentation log

Record the cases related to the module that you have presented in a seminar of the activity.

#### 3- Procedures log

1- You will find a list for required procedure, diagnostic – therapeutic operations and

level of desired performance you should achieve at the end of training.

2- You will find empty tables to write down the procedure, you level of participation ,date and signature of supervisor.



#### **4- Rotation / attendance proof**

You should have evidence of achievement the required training hours within each module.

*For the whole program fill the following sections.*

##### 1- Academic activities

A- Document all academic activities e.g. lecture, journal clubs, workshops, conference, services attended. This documentation should include the level of participation " attendance, preparation, presentation "

##### 2- Academic achievements

A- Document all outcomes you achieved in the field of:-

- Audit participation
- Research "clinical trial" participation.
- Evidence- based medicine "generation of guidelines" protocols

##### 3- Formative assessment log

This document all types of formative assessment attended e.g.:-

- Mini clinical examination
- Queues.



## 1- Program aims

1/1 To enable candidates to keep with international update standards of patients care of all Neurological disorders by mastering high level of clinical skills, bedside patient care skills, in addition to update medical knowledge as well as clinical experience and competence in the area of common, infrequent, and rare neurological disorders, common and infrequent neurological emergencies, diagnostic tools of neuroelectrophysiology studies and neuroimaging studies and interventional neurology, and enabling the candidates of making appropriate referrals to a sub-specialist for consultation or intervention.

1/2 Provide candidate with fundamental updated details knowledge of neurological emergencies and stroke unit care medicine as regards; mastering dealing with critically ill stroke patients associated with multiple medical conditions or complicated cases and acute respiratory affection or disturbed conscious level related to neurological disorders whatever their frequency in clinical practice, ICU equipment's, techniques, indications, contraindications and training skills of different intensive care techniques and interventions.

I/3- To enable candidates to select methodology and perform high standard scientific medical research with ethical issues and how to proceed with publication in indexed medical journals.

I/4- To enabling them to have professional careers as a consultant in Egypt.

- Making them recognized as a consultant abroad.
- Enabling them to continue self-learning in subspecialties.
- Enabling them to master different research methodology and do their own.

## 5- Program Structure

### Program Time Table

Duration of program up to 4 years (could be extended to 6 years) divided into

- Part 1

Program-related basic science courses

- Medical statistics.& Research methodology

-: Medicolegal Aspects and Ethics in Medical Practice and Scientific Research

Students are allowed to sit the exams of these courses after 6 months from applying to the M D degree.

- Thesis and 2 published researches

For the M D thesis;

MD thesis subject should be officially registered within 6 months from application to the MD degree,

Discussion and acceptance of the thesis should not be set before 24 months from registering the M D subject;

It could be discussed and accepted either before or after passing the second part of examination

- Part 2

Program –related speciality courses and ILOs

Students are not allowed to sit the exams of these courses before 4 years from applying to the MD degree.



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## First Part

### Academic activities of Basic science Courses

Practice with the academic departments for at least 6 months during 1<sup>st</sup> year.

#### Academic activities of basic science Courses.

##### Course 1

- Medical Statistics.

##### Course 2

- Research Methodology.

##### Course 3

Medicolegal Aspects and Ethics in Medical Practice and  
Scientific Research .

##### Course 4

Neurophysiology.

##### Course 5; unit 1

Neuropathology of Neurological disorders.

##### Course 5;unit 2:

Genetics of Neurological disorder.

##### Course 6

Neuropharmacology.





# Medical statistics

## Requirements

- Credit points: 1 credit point
- Minimal rate of attendance 80%

Name of the course	Credit points	Responsible department	Attendance	Practical	Percentage of Achieved points
Medical statistics	1 credit point	Pubic Health & Community Medicine			100%
	0.1		Introduction 1 hour	SPSS Introduction 2H	10%
	0.1		Tables and graphics 1 Hour	Data entry and cleaning of data 2H	10%
	0.1		Sampling 1 Hour	Transforming of variables 2H	10%
	0.1		Methodology of data collection 1 Hour	Descriptive statistics 2 H	10%
	0.1		Type of variables 1 Hour	Graphic presentation 2 H	10%
	0.1		Proportion test Chi-square test 1 Hour	Chi square and interpretation of results 2 H	10%
	0.1		Student T test Paired T test 1 Hour	Student, Paired and ANOVA tests 2H	10%
	0.1		ANOVA test 1 Hour	Correlation Regression 2 Hour	10%
	0.1		Non parametric tests 1 Hour	Multiple and logistic Regression 2 H	10%
	0.1		Discrimination analysis factor analysis 1 Hour	Non parametric tests 2 H	10%
			Revision 1 H	Revision 2H	
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## Medical Statistics

### Lectures and tutorials

Date	Attendance	Topic	Signature



# Research Methodology

## Requirements

- Credit points: 1 credit point
- Minimal rate of attendance 80%

Name of the course	Credit points	Responsible department	Attendance	Percentage of Achieved points
Research Methodology	1 credit point	Pubic Health & Community Medicine		100%
	0.15		4 hours Introduction & proposal writing	15%
	0.15		4 hours Epidemiological study designs	15%
	0.15		4 hours Screening & theoretical background	15%
	0.24		6 hours Screening practical	24%
	0.15		4 hours Sample size calculation	15%
	0.08		2 hours Research bias	8%
	0.08		2 hours Ethics in research	8%
	-		2 hours Revision	-
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## Research Methodology

### Lectures and tutorials

Date	Attendance	Topic	Signature



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## Course 3: Medicolegal Aspects and

# Ethics in Medical Practice and Scientific Research

### Requirements

- Credit points: 1 credit point
- Minimal rate of attendance 80% .



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Name of the course	Credit points	Responsible department	Attendance & topics	Percentage of Achieved points
Medicolegal Aspects and Ethics in Medical Practice and Scientific Research	1 credit point	Forensic Medicine and Clinical Toxicology	10 hours	100%
	0.2		2 hours	20%
	0.2		2 hours	20%
	0.2		2 hours	20%
	0.2		2 hours	20%
	0.2		2 hours	20%
	0.2		2 hours	20%
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### Lectures and tutorials

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# Course 4: Neurophysiology

## Requirements

- Credit points: 2 credit points for didactic teaching (lectures, tutorial, seminars)
- Minimal rate of attendance 80%.



Name of the course/	Credit points	Responsible department	Attendance	Percentage of Achieved points
Neurophysiology	2 CP	Medical physiology Department	<b>Attendance and topics</b>	<b>100%</b>
	<u>0.5CP</u>		<b>5 hours</b>	<u>25%</u>
	0.3CP		- CNS and special senses. <i>3 hours</i>	15%
	0.1CP		-Autonomic nervous system <i>1hour</i>	5%
	0.1CP		- Nerve and muscle <i>1 hour</i>	5%
	<u>0.25 CP</u>		<b>2.5 hours</b>	<b>12.5%</b>
	0.05 CP		<b>*Circulation:</b> Heart rate & Blood pressure <i>0.5hour</i>	2.5%
0.1CP	<b>*CSF &amp;</b> Blood brain barrier (BBB)& Intracranial pressure <i>1hour</i>	5%		
0.1CP	<b>*Cerebral circulation</b> <i>1hour</i>	5%		
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Name of the Course	Credit points	Responsible department	Attendance	Percentage of Achieved points
Neurophysiology	0.25CP	Medical physiology Department	<b>2.5 hours</b>	<u>12.5%</u>
	0.15CP		<u>Neuroendocrinology 1.5h</u> -Thyroid & Parathyroid 0.75hour.	<b>7.5%</b>
	0.1CP		-Adrenal gland & Pituitary gland.0.75hour. -Water and electrolyte imbalance 1 hour.	<b>5%</b>
	<u>1CP</u>		<b>10 hours</b>	<u>50%</u>
	0.2CP		<b>* Higher cortical function and related anatomical structures and substrates i.e.</b> -Physiology of pain and pain theory 2h.	10%
	0.2CP		-Physiology of cognition and memory 2h.	10%
	0.2CP		-Physiology of limbic system.2h	10%
	0.2CP 0.2CP		-Physiology of sleep 2h. -Physiology of speech2h	10% 10%
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### Lectures and tutorials

Date	Attendance	Topic	Signature



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## Course 5: Neuropathology of

# Neurological disorders & Genetics of neurological disorders.



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# Course 5; Unit 1:

# Pathology of Neurological Disorders

## • Requirements

- + Credit points: 2 credit points for didactic (lectures, seminars, tutorial).
- + Minimal requirement: Achievement of at least 80% of academic activities.





Name of the Unit	Credit points	Responsible department	Attendance & topics	Percentage of Achieved points
Pathology of Neurological Disorders	2 CP	Pathology Department	20 hours	100%
	0.5CP 0.3CP		5 hours	25% 15%
	0.2CP		General Pathology.3h Pott's disease. 2h.	10%
	0.4CP		4 hours	20%
	0.2CP		-Atherosclerosis & Ischemic infarction 2h	10%
	0.2CP		-Hemorrhagic stroke & Aneurysm. 2h	10%
	0.6CP 0.2cp		6 hours	30% 10%
	0.2cp 0.2cp		- Dementia. 2h -Neuropathies. 2 h -Muscle diseases. 2h	10% 10%
	0.5CP 0.1CP		5 hours	25%
	0.2CP 0.2CP		-↑ICT and brain edema. 1 hour -Tumors of CNS. 2h -Infection of CNS 2h	5% 10% 10%
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## Course 5;unit 2:

# Genetics of Neurological Disorders

### • Requirements

- ✚ Credit points: 1 credit point for didactics.
- ✚ Minimal requirement: Achievement of at least 80% of academic activities.



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Name of the unit	Credit points	Responsible department	Attendance & topics	Percentage of Achieved points
Genetics of Neurological disorders	1 CP	Neurology and psychiatry department	10 hours	100%
	0.1CP		0.5 hour * Basic of cell structures and Molecular genetics: Nucleus, Mitochondria... etc. Nucleic acids (DNA & RNA).	10%
			0.5 hour * Patterns of inheritance: - Autosomal dominant inheritance. - Autosomal recessive inheritance. - X Linked recessive inheritance. - X Linked dominant inheritance. - Multifactorial inheritance	
	0.1CP		0.5 hour Chromosomes and Genes.	10%
	0.1CP		0.5 hour Mitochondria and genes.	10%
			0.5 hour DNA Analysis.	
			0.5 hour Gene and Mapping	
	Student signature			



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Name of the course	Credit points	Responsible department	Attendance	Percentage of Achieved points
Genetics of Neurological disorders	0.1CP	Neurology and psychiatry department	1 hour -Mechanisms of Mutations. - Detections of Mutations	10%
	0.5CP		5 hour -Ethical aspects in neurogenetic for investigation and counseling. - Neurogenetic information of Neurological disorders <u>0.5h for each disorders</u> <ul style="list-style-type: none"> <li>• Muscle disorders.</li> <li>• Peripheral neuropathy.</li> <li>• Mitochondrial disorder,</li> <li>• Neurometabolic disorders, stroke, epilepsy, migraine, Channelopathy, movement disorders, dementia, demylinating disease, CNS tumors.</li> </ul>	50%
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## Lectures and tutorials

Date	Attendance	Topic	Signature





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Date	Attendance	Topic	Signature



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# Course 6: Neuropharmacology

## Requirements

- Credit points:** 2 credit point for didactic (lectures, seminars, tutorial).
- Minimal requirement:** Achievement of at least 80% of academic activities.



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Name of the course	Credit points	Responsible department	Attendance	Percentage of Achieved points
Neuropharmacology	2 CP	Medical Pharmacology Department	<b>20 hours</b>	100%
	0.25CP		<b>2.5 hours</b> - General pharmacology 1h - Antiepileptic drugs 1.5h	12.5%
	0.4 CP		<b>4 hours</b> -Psychotropic drugs. -Antipsychotic drugs. -Antidepressants. -Mood stabilizers. -Anxiolytic drugs	20%
	0.4CP		<b>4 hours</b> -Antiplatelets. - Thrombolytic drugs. - Anticoagulants 2h Antiparkinsonian drugs. Anticholinergic drugs. Anticholine esterase inhibitors. Parasympathomimetic drugs Muscle relaxants.0.5h	20%
Student signature			Principle coordinator signature	Head of the department signature



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Name of the course	Credit points	Responsible department	Attendance	Percentage of Achieved points
Neuropharmacology	0.4 CP	Pharmacology	4 hours -Drug dependence & habituation & drug abuse. -Addiction. -Tranquilizers. -Brain stimulants. - Drug-drug interaction	20%
	<b>0.25CP</b>		2.5hours-Antibiotic, antimicrobial, antiviral -Hypoglycemic agents. -Antihypertensive drugs. - anti arrhythmic drugs. - Inotropics - Coronary dilators. - Bronchodilators.	12.5%
	<b>0.3CP</b>		3 hours - Steroids & ACTH -Non steroidal anti-inflammatory drugs. - Analgesic and pain killers. - Dehydrating measures. - Immunosuppressant drugs. - Chemotherapy CNS Side effect. - immunoglobulin. - Hormones In treatment of (thyroid, bone, contraceptives)	15%
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## Lectures and tutorials

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# Second part

# Specialty course

## Course 7: Neurology



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# Course 7: Neurology



It is divided into 4 modules:

- Module 1- Neurological disorders.
- Module 2 - Neurology emergencies.
- Module 3- Neuroelectrophysiology and Neuroimaging.
- Module 4- Interventional Neurology.





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## COURSE 7: Neurology

Module/ Units' Titles' list	% from total Marks	Level (Year)	Core Credit points		
			Didactic	training	Total
-Module 1 Neurological disorders	50%	1,2,3,4	12	64	76
-Module 2 Neurological emergencies	14.6%	1,2,3,4	3.5	18.5	22
-Module 3 Neuroelectrophysiology and Neuroimaging	20.8%	1,2,3,4	5	22	27
-Module 4 Interventional Neurology	14.6%	2,3,4	3.5	18.5	22
Total (4 modules)	100%	1,2,3,4	24	123	147



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# Unit (Module) 1: Neurological Disorders





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# Unit (Module) 1 Neurological Disorders

## Unit (Module) 1

### (Neurological disorders)

#### Rotation / attendance proof

الأماكن التي تدرب بها

توقيع مدير المستشفى	توقيع رئيس القسم	أسم المستشفى التي تدرب بها

### Requirements

● **Credit points:** 12 credit point for didactic (lectures, seminars, tutorial) and 64 credit point for training.

- Minimal rate of attendance 80% of training and didactic



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# Year 1



### Year 1(2 credit points for Didactic teaching)

Name of the course	Credit points	Responsible department	Attendance	Percentage of Achieved points
<b>Unit 1</b> neurological disorders	2CP	Neurology and psychiatry department	Year 1	<b>16.6 % of the didactics of Unit 1</b>
			<b>Topics and attendance</b>	
	1CP		10 hours ➤ Symptoms and signs of Neurological disorders and clinical approach of cases 5h ➤ How to select diagnostic tests 5h.	<b>8.3%</b>
	1 CP	Seminars ➤ Attendance of at least 30% of the seminars 2 hours/week for 15 Week.	<b>8.3%</b>	
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**Year 1(14 credit points for training)**

Clinical training	Credit points	Responsible department	Attendance& activities	Percentage of Achieved points
Clinical training (neurological disorders) in Neurology units	14 CP	Neurology and Psychiatry department	14 CP out of 64 CP for training in year 1	21.9% of total training of unit 1
	3CP		<ul style="list-style-type: none"> <li>➤ Practice with clinical cases for at least 3 months in the department including interpretation of their different neuroimaging and neuroelectrophysiology tools (CT brain&amp; spine EEG, MC study) and related laboratory investigations.</li> <li>➤ Log of Neurology as mentioned below</li> <li>➤ Procedures and clinical skills log as mentioned below</li> </ul>	21.3% of training in year 1
	4 CP		<ul style="list-style-type: none"> <li>➤ Night shift (From 2pm to 8am) 1/week for 8weeks</li> </ul>	28.5% of training in year 1
	2 CP		<ul style="list-style-type: none"> <li>➤ Attendance of at least 10 weeks in the Outpatient Neurology and epilepsy clinic (3 hours /day)</li> </ul>	14.3% of training in year 1
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Clinical training	Credit points	Responsible department	Attendance	Percentage of Achieved points
Clinical training (neurological disorders) in Neurology units	2 CP	Neurology and Psychiatry department	➤ Attendance of at least 30% of clinical rounds of each (neurology unit) (2 hours /week for 18 week for each unit).	14.3% of training in year 1
	1 CP		➤ Attendance of Clinical teaching 2 hours /week for 15 weeks.	7.1% of training in year 1
	1CP		➤ Attend or share in clinical teaching of medical colleagues (students or junior residents) 2 hours /week for 30 week	7.1% of training in year 1
	1 CP		➤ Formative assessment	7.1% of training in year 1
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## Management plan of the following Cases log

Case	Number
Management plan of CVS: - Without associated medical condition. - With medical condition. - Associated with complication.	At least 40
Management plan of CNS infection: - Without complication. - With complication	At least 20
Management plan of Neuromuscular disorders .	At least 5
Management plan of Peripheral nerve and muscles	At least 20
Management plan of Neuroimmunology : e.g. -multiple sclerosis. - Polymyositis - Vasculitis.	At least 15
Management plan of Stroke and pregnancy	At least 5
Management plan of Paroxysmal disorders: e.g. Epilepsy. Headache.	At least 40 for each
Management plan of pain disorders	At least 5
Module I Neurological disorders	Number of cases
- Management plan of Neurooncology e.g. - Primary brain tumor and spinal cord tumor - Paraneoplastic.	At least 10
Management plan of Venous thrombosis	At least 10
Management plan of Child neurology cases	At least 20
Management plan of Spinal cord disease	At least 20
Management plan of Movement disorders	At least 20
Management plan of Cerebellar disorders	At least 5
Management plan of Geriatric disorders cases: - without other neuropsychiatric disorders. - With other neuropsychiatric disorders. - With complication.	At least 10 for each





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**Procedure and practical skills log of:**

<b>+ Independently Perform:</b>	<b>+ Order and interpret:</b>
<ul style="list-style-type: none"><li>• Clinical sheet according to case log.</li><li>• Follow up chart for clinical assessment</li><li>• Treatment chart.</li><li>• Discharge card.</li><li>• Consultation of other subspecialties.</li><li>• CSF tapping.</li><li>• Fundus examination.</li></ul>	<ul style="list-style-type: none"><li>• CT Brain</li><li>• MRI SPINE</li><li>• X ray spine.</li><li>• Routine laboratory investigations.</li><li>• Observe Neurophysiology investigation and findings of reports related to case log.</li></ul>



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# Year 2



Year 2 (5 credit point for didactic teaching)

Name of the course/ unit	Credit points	Responsible department	Attendance	Percentage of Achieved points
<b>Unit 1</b> Neurological disorders	5 CP	Neurology and psychiatry department/ Neurology unit	Year 2	<b>41.7% of the didactics of Unit 1</b>
			<b>Topics and attendance</b>	<b>% of total</b>
	<u>1CP</u> 0.5CP 0.5CP		10 hours ➤ Infection of nervous system. ➤ Cerebrovascular disorders and other vascular disorders.	8.3%
	<u>1CP</u> 0.5CP 0.5CP		10 hours ➤ Epilepsy. ➤ Headache and other paroxysmal disorders (migraine- trigeminal neuroalagia)	8.3%
	<u>1 CP</u> 0.2CP 0.6CP 0.2CP		10 hours ➤ Disorders of cerebrospinal and fluids ;edema and hydrocephalous. ➤ Brain and spinal cord tumors. ➤ Spinal cord diseases	8.3%
	<u>0.75CP</u> 0.3CP 0.35CP 0.1CP		7.5 hours ➤ Peripheral neuropathy ➤ Muscle diseases and neuromuscular disorders ➤ Motor neuron disease.	6.3%
	<b>0.75CP</b>		Seminars ➤ Attendance of at least 50% of the Didactics seminars for 1-1.5h /wk/15wk /year) ➤ Presentation of at least 1 time in the seminar	6.3%
	<b>0.25CP</b>		Attendance of at least one Conference or workshop.	2.1%
	<b>0.25CP</b>		Formative assessment	2.1%
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Year 2 (20 credit point for training in Unit 1)

Clinical training	Credit points	Responsible department	Attendance	Percentage of Achieved points
Clinical training in Neurology units	20 CP	Neurology and Psychiatry department	20 credit points out of 64 Credit points for training in second year.	31.3% of total training in unit 1
	5 CP		<ul style="list-style-type: none"> <li>➤ Practice with clinical cases for at least 5 month in the department including interpretation of their different neuroimaging and neuroelectrophysiology tools (CT Brain &amp; spine EEG, Neurophysiology study) and related laboratory investigation</li> <li>➤ Log of Neurology cases as mentioned below</li> <li>➤ Procedures log as mentioned below</li> </ul>	25% of training in year 2
	6CP		➤ Night shift (From 2pm to 8am) 1/week for 12 weeks	30% of training in year 2
	3CP		➤ Attendance of at least 12 weeks in the Outpatient Neurology and epilepsy clinic and other sub specialty clinic.	15 % of training in year 2
	2 CP		➤ Attendance of at least 50% of staff members clinical rounds of each neurology unit (2 hours /week for 30 week)	10% of training in year 2
	1.5CP		➤ Attendance of Clinical teaching(clinical conference) 2 hours/wk for 25wk.	7.5% of training in year 2
	1.5CP		➤ Attend or share in clinical teaching of medical colleagues (students or junior residents) 2 hours /week for 30 week	7.5% of training in year 2
	1 CP		➤ Formative assessment	5% of training in year 2
Student signature			Principle coordinator Signature	Head of the department signature



## Mananagement plan of the following Cases log

Case	Number
Management plan of CVS: - Without associated medical condition. - With medical condition. - Associated with complication.	At least 40
Management plan of CNS infection: - Without complication. - With complication	At least 20
Management plan of Neuromuscular disorders .	At least 5
Management plan of Peripheral nerve and muscles	At least 20
Management plan of Neuroimmunology : e.g. -multiple sclerosis. - Polymyositis - Vasculitis.	At least 15
Management plan of Stroke and pregnancy	At least 5
Management plan of Paroxysmal disorders: e.g. Epilepsy. Headache.	At least 40 for each
Management plan of pain disorders	At least 5
Module I Neurological disorders	Number of cases
- Management plan of Neuroncology e.g. - Primary brain tumor and spinal cord tumor - Paraneoplastic.	At least 10
Management plan of Venous thrombosis	At least 10
Management plan of Child neurology cases	At least 20
Management plan of Spinal cord disease	At least 20
Management plan of Movement disorders	At least 20
Management plan of Cerebellar disorders	At least 5
Management plan of Geriatric disorders cases: - Without other neuropsychiatric disorders. - With other neuropsychiatric disorders. - With complication.	At least 10 for each



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### Procedure and practical skills log of:

✚ Independently Perform:	✚ Order and interpret:
<ul style="list-style-type: none"><li>• Clinical sheet according to case log.</li><li>• Follow up chart for clinical assessment</li><li>• Treatment chart.</li><li>• Discharge card.</li><li>• Consultation of other subspecialties</li><li>• CSF tapping.</li><li>• Fundus examination.</li></ul>	<ul style="list-style-type: none"><li>• CT Brain</li><li>• MRI SPINE</li><li>• X ray spine.</li><li>• Routine laboratory investigations.</li><li>• Observe Neurophysiology investigation and findings of reports related to case log.</li></ul>



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# Year 3



### 5 CP for didactics teaching for year 3

Name of the course	Credit points	Responsible department	Attendance	Percentage of Achieved points
Unit 1 Neurological disorders	5 CP	Neurology and psychiatry department / neurology unit	Year3	41.7% of total didactics of unit 1
	0.7 CP		7 hours ➤ Movement disorders 4.5h ➤ Cerebellar disorders 2.5h	5.8%
	0.8 CP		8 hours ➤ Dementias. 3h ➤ Child neurology including birth injury and developmental disorders. 4h ➤ Teratogenicity and neurological disorders.1h	6.6%
	0.8 CP		8 hours ➤ Truma.2 h ➤ Demyelinating diseases.3 h ➤ Channelopathies and Neurological disorders 3h	6.6%
	0.7 CP		7 hours ➤ Degenerative disorders 1 h ➤ neuroMetabolic disorders 2h ➤ neurocutaneous disorders 1h ➤ neurological manifestations of systemic diseases and general medicine . 3h	5.8%
	0.3 CP		3 hours ➤ Neurological disorders and pregnancy. 1h ➤ Autonomic diseases in neurology.1h ➤ Neurotoxicity 1h	2.5%
	1CP		<b>Seminars</b> ➤ Attendance of at least 50% of the clinical seminars ➤ Presentation of at least 2 times in the seminar	8.3%
	0.2CP		➤ Attendance of at least one Conference or workshop	1.7%
	0.5 CP		➤ <b>Formative assessment</b>	4.2%
Student signature			Principle coordinator Signature	Head of the department signature





### Year 3 (20 credit point for training in Unit 1)

Clinical training	Credit points	Responsible department	Attendance	Percentage of Achieved points
Clinical training in Neurology units	20CP	Neurology and Psychiatry department	20 credit points out of 64 Credit points for training in third year	31.3% of training in unit 1
	5 CP		<ul style="list-style-type: none"> <li>➤ Practice with clinical cases for at least 5 month in the department including interpretation of their different neuroimaging and neuroelectrophysiology tools (CT Brain &amp; spine EEG, Neurophysiology study) and related laboratory investigation</li> <li>➤ Log of Neurology cases as mentioned below</li> <li>Procedures log as mentioned below</li> </ul>	25% of training in 3 <sup>rd</sup> year
	6CP		<ul style="list-style-type: none"> <li>➤ Night shift (From 2pm to 8am) 1/week for 12 weeks</li> </ul>	30% of training in 3 <sup>rd</sup> year
	3CP		<ul style="list-style-type: none"> <li>➤ Attendance of at least 12 weeks in the Outpatient Neurology and epilepsy clinic and other sub specialty clinic.</li> </ul>	15 % of training in 3 <sup>rd</sup> year
	2 CP		<ul style="list-style-type: none"> <li>➤ Attendance of at least 50% of staff members clinical rounds of each neurology unit (2 hours /week for 30 week)</li> </ul>	10% of training in 3 <sup>rd</sup> year
	1.5CP		<ul style="list-style-type: none"> <li>➤ Attendance of Clinical teaching(clinical conference) 2 hours/wk for 25wk.</li> </ul>	7.5% of training in 3 <sup>rd</sup> year
	1.5CP		<ul style="list-style-type: none"> <li>➤ Attend or share in clinical teaching of medical colleagues (students or junior residents) 2 hours /week for 30 week</li> </ul>	7.5% of training in 3 <sup>rd</sup> year
	1 CP		<ul style="list-style-type: none"> <li>➤ Formative assessment</li> </ul>	5 % of training in 3 <sup>rd</sup> year
Student signature			Principle coordinator signature	Head of the department signature



## Management plan of the following Cases log

Case	Number
Management plan of CVS: - Without associated medical condition. - With medical condition. - Associated with complication.	At least 40
Management plan of CNS infection: - Without complication. - With complication	At least 20
Management plan of Neuromuscular disorders .	At least 5
Management plan of Peripheral nerve and muscles	At least 20
Management plan of Neuroimmunology : e.g. -multiple sclerosis. - Polymyositis - Vasculitis.	At least 15
Management plan of Stroke and pregnancy	At least 5
Management plan of Paroxysmal disorders: e.g. Epilepsy. Headache.	At least 40 for each
Management plan of pain disorders	At least 5
Module I Neurological disorders	Number of cases
- Management plan of Neuroncology e.g. - Primary brain tumor and spinal cord tumor - Paraneoplastic.	At least 10
Management plan of Venous thrombosis	At least 10
Management plan of Child neurology cases	At least 20
Management plan of Spinal cord disease	At least 20
Management plan of Movement disorders	At least 20
Management plan of Cerebellar disorders	At least 5
Management plan of Geriatric disorders cases: - Without other neuropsychiatric disorders. - With other neuropsychiatric disorders. - With complication.	At least 10 for each



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### Procedure and practical skills log of:

+ Independently Perform:	+ Order and interpret:
<ul style="list-style-type: none"><li>• Clinical sheet according to case log.</li><li>• Follow up chart for clinical assessment</li><li>• Treatment chart.</li><li>• Discharge card.</li><li>• Consultation of other subspecialties</li><li>• CSF tapping.</li><li>• Fundus examination.</li></ul>	<ul style="list-style-type: none"><li>• CT Brain</li><li>• MRI SPINE</li><li>• X ray spine.</li><li>• Routine laboratory investigations.</li><li>• Observe Neurophysiology investigation and findings of reports related to case log.</li></ul>



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# Year 4



### Year 4 (10 Credit points for training)

Clinical training	Credit points	Responsible department	Attendance	Percentage of Achieved points
Clinical training in Neurology units	10 CP	Neurology and Psychiatry department	10 cp out of 64 credit points of training in year 4	15.6% of total training in unit 1
	5CP		➤ Night shift (From 2pm to 8am) 1/week for 10 weeks	50% of unit training in year 4
	2 CP		➤ Attendance of at least 30% of clinical rounds of each one of unit (2 hours /week for 25 week)	20% of unit training in year 4
	2 CP		➤ Attendance of clinical teaching and share in clinical teaching for students 2 hours /week for 30 week ➤ Clinical presentation in clinical teaching for at least 2 sittings.	20% of unit training in year 4
	1 CP		➤ Formative assessment	10% of unit training in year 4
Student signature			Principle coordinator Signature	Head of the department signature



### List of Requirements case log

Module I Neurological disorders	Number of cases	*Level of competence	Supervisor
CVS	At least 20	A	Assistant lecturer
CNS infection.	At least 10	A	Assistant lecturer
Neuromuscular disorders.	At least 5	A	Assistant lecturer
Peripheral nerve and muscles	At least 10	A	Assistant lecturer
Neuroimmunology : e.g. - Multiple sclerosis. - Polymyositis - Vasculitis.	At least 10	A	Assistant lecturer
Stroke and pregnancy	At least 2	A	Assistant lecturer
Stroke and associated medical condition e.g. - D.M. - Hypertension. - Rheumatic heart disease.	At least 10	A	Assistant lecturer
Paroxysmal disorders: e.g. Epilepsy. Headache.	At least 20 for each	A	Assistant lecturer
- Neurooncology e.g. - Primary brain tumor and spinal cord tumor Paraneoplastic.	At least 5	A	Staff member
Venous thrombosis	At least one	A	Staff member
Child neurology	At least 5	A	Staff member
Spinal cord disease	At least 5	A	Staff member
Movement disorders	At least 5	A	Staff member
Cerebellar disorders	At least 3	A	Staff member
Geriatric disorders	At least 5	A	Staff member

#### Level of Competence:

The candidate will begin with level C, and at the end of clinical training will achieve level A in most required professional skills ( clinical approach).

A - Plan and Carry out independently.

B- Carry out independently.

C - Carry out under supervision.



## Procedure log of:

<b>Log of Independently :</b>	
<ul style="list-style-type: none"> <li>• CSF aspiration and analysis</li> <li>• CSF tapping</li> <li>• Fundus examination.</li> </ul>	
<b>Independently plan and Perform:</b>	<b>Independently :Order and interpret:</b>
<ul style="list-style-type: none"> <li>• Clinical sheet for each case log.</li> <li>• Follow up chart for clinical assessment</li> <li>• Treatment chart.</li> <li>• Discharge card.</li> <li>• Consultation of other subspecialties</li> </ul>	<ul style="list-style-type: none"> <li>• CT Brain</li> <li>• MRI SPINE</li> <li>• X ray spine.</li> <li>• Routine laboratory investigations.</li> <li>• Observe Neurophysiology investigation and findings of reports related to case log.</li> </ul>



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**Clinical Rotation, Outpatient clinic, Case log and Night Shift**

**Clinical Rotation**

Duration from -to	Location	Signature of supervisor	Duration from -to	Location	Signature of supervisor





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## Outpatient clinic

Date/ Duration from -to	Location	Signature of supervisor	Date/ Duration from -to	Location	Signature of supervisor



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### Outpatient clinic

Date/ Duration from -to	Location	Signature of supervisor	Date/ Duration from -to	Location	Signature of supervisor



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### Outpatient clinic

Date/ Duration from -to	Location	Signature of supervisor	Date/ Duration from -to	Location	Signature of supervisor



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### Outpatient clinic

Date/ Duration from -to	Location	Signature of supervisor	Date/ Duration from -to	Location	Signature of supervisor



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### Outpatient clinic

Date/ Duration from -to	Location	Signature of supervisor	Date/ Duration from -to	Location	Signature of supervisor



### Outpatient clinic

Date/ Duration from -to	Location	Signature of supervisor	Date/ Duration from -to	Location	Signature of supervisor



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## Clinical case log

H.N	Diagnosis of case	Level of participation *	Location	Signature of supervisor

- \* Level of participation  
A- Plan and carry out  
B- Carry out  
C- Carry out under supervision



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### Clinical case log

H.N	Diagnosis of case	Level of participation *	Location	Signature of supervisor

- \* Level of participation  
A- Plan and carry out  
B- Carry out  
C- Carry out under supervision





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### Clinical case log

H.N	Diagnosis of case	Level of participation *	Location	Signature of supervisor

\* Level of participation

A- Plan and carry out

B- Carry out

C- Carry out under supervision.



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## Clinical case log

H.N	Diagnosis of case	Level of participation *	Location	Signature of supervisor

\* Level of participation

A- Plan and carry out

B- Carry out

C- Carry out under supervision.



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### Clinical case log

H.N	Diagnosis of case	Level of participation *	Location	Signature of supervisor

\* Level of participation

A- Plan and carry out

B- Carry out

C- Carry out under supervision.



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### Clinical case log

H.N	Diagnosis of case	Level of participation *	Location	Signature of supervisor

\* Level of participation  
A- Plan and carry out  
B- Carry out  
C- Carry out under supervision.



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### Clinical case log

H.N	Diagnosis of case	Level of participation *	Location	Signature of supervisor

\* Level of participation  
A- Plan and carry out  
B- Carry out  
C- Carry out under supervision.



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## Clinical case log

H.N	Diagnosis of case	Level of participation *	Location	Signature of supervisor

- \* Level of participation  
A- Plan and carry out  
B- Carry out  
C- Carry out under supervision





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### Clinical case log

H.N	Diagnosis of case	Level of participation *	Location	Signature of supervisor

- \* Level of participation  
A- Plan and carry out  
B- Carry out  
C- Carry out under supervision





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## Clinical case log

H.N	Diagnosis of case	Level of participation *	Location	Signature of supervisor

\* Level of participation

A- Plan and carry out

B- Carry out

C- Carry out under supervision.



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### Clinical case log

H.N	Diagnosis of case	Level of participation *	Location	Signature of supervisor

\* Level of participation  
A- Plan and carry out  
B- Carry out  
C- Carry out under supervision.



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## Clinical case log

H.N	Diagnosis of case	Level of participation *	Location	Signature of supervisor

\* Level of participation  
A- Plan and carry out  
B- Carry out  
C- Carry out under supervision



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### Clinical case log

H.N	Diagnosis of case	Level of participation *	Location	Signature of supervisor

\* Level of participation

A- Plan and carry out

B- Carry out

C- Carry out under supervision.



### Clinical skills & procedures log (CSF aspiration and analysis)

H.N	Diagnosis of case	Level of participation *	Location	Signature of supervisor

\* Level of participation  
A- Plan and carry out  
B- Carry out  
C- Carry out under supervision



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### Clinical skills & procedures log (CSF aspiration and analysis)

H.N	Diagnosis of case	Level of participation *	Location	Signature of supervisor

\* Level of participation  
A- Plan and carry out  
B- Carry out  
C- Carry out under supervision



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### Clinical skills & procedures log (CSF Tapping)

H.N	Diagnosis of case	Level of participation *	Location	Signature of supervisor

\* Level of participation  
A- Plan and carry out  
B- Carry out  
C- Carry out under supervision



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### Clinical skills & procedures log (Fundus examination)

H.N	Diagnosis of case	Fundus findings	Level of participation *	Location	Signature of supervisor

- \* Level of participation  
A- Plan and carry out  
B- Carry out  
C- Carry out under supervision





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### Clinical skills & procedures log (Fundus examination)

H.N	Diagnosis of case	Fundus findings	Level of participation *	Location	Signature of supervisor

\* Level of participation

A- Plan and carry out

B- Carry out

C- Carry out under supervision.



### Clinical skills & procedures log

H.N	Diagnosis of case	neuroimaging	Level of participation *	Location	Signature of supervisor

\* Level of participation  
A- Plan and carry out  
B- Carry out  
C- Carry out under supervision.



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### Clinical skills & procedures log

H.N	Diagnosis of case	neuroimaging	Level of participation *	Location	Signature of supervisor

- \* Level of participation  
A- Plan and carry out  
B- Carry out  
C- Carry out under supervision



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## Clinical skills & procedures log

H.N	Diagnosis of case	Neuroimaging	Level of participation *	Location	Signature of supervisor

\* Level of participation

A- Plan and carry out

B- Carry out

C- Carry out under supervision



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### Clinical skills & procedures log

H.N	Diagnosis of case	Neuroimaging	Level of participation *	Location	Signature of supervisor

\* Level of participation  
A- Plan and carry out  
B- Carry out  
C- Carry out under supervision



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## Clinical skills & procedures log

H.N	Diagnosis of case	Neuroelectrophysiology	Level of participation *	Location	Signature of supervisor

\* Level of participation

A- Plan and carry out

B- Carry out

C- Carry out under supervision



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### Clinical skills & procedures log

H.N	Diagnosis of case	Neuroelectrophysiology	Level of participation *	Location	Signature of supervisor

\* Level of participation  
A- Plan and carry out  
B- Carry out  
C- Carry out under supervision



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### Clinical skills & procedures log

H.N	Diagnosis of case	Neuroelectrophysiology	Level of participation *	Location	Signature of supervisor

\* Level of participation

A- Plan and carry out

B- Carry out

C- Carry out under supervision





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### Clinical skills & procedures log

H.N	Diagnosis of case	Neuroelectrophysiology	Level of participation *	Location	Signature of supervisor

\* Level of participation

A- Plan and carry out

B- Carry out

C- Carry out under supervision



### Clinical skills & procedures log

H.N	Diagnosis of case	Neuroelectrophysiology	Level of participation *	Location	Signature of supervisor

\* Level of participation  
A- Plan and carry out  
B- Carry out  
C- Carry out under supervision



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## Clinical skills & procedures log

H.N	Diagnosis of case	Neuroelectrophysiology	Level of participation *	Location	Signature of supervisor

\* Level of participation  
 A- Plan and carry out  
 B- Carry out  
 C- Carry out under supervision



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### Clinical skills & procedures log

H.N	Diagnosis of case	Neuroelectrophysiology	Level of participation *	Location	Signature of supervisor

\* Level of participation  
A- Plan and carry out  
B- Carry out  
C- Carry out under supervision



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### Clinical skills & procedures log

H.N	Diagnosis of case	Neuroelectrophysiology	Level of participation *	Location	Signature of supervisor

- \* Level of participation  
A- Plan and carry out  
B- Carry out  
C- Carry out under supervision



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## Clinical skills & procedures log

H.N	Diagnosis of case	Skills/ procedures	Level of participation *	Location	Signature of supervisor

\* Level of participation

A- Plan and carry out

B- Carry out

C- Carry out under supervision



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## Clinical skills & procedures log

H.N	Diagnosis of case	Skills/ procedures	Level of participation *	Location	Signature of supervisor

\* Level of participation

A- Plan and carry out

B- Carry out

C- Carry out under supervision



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### Clinical skills & procedures log

H.N	Diagnosis of case	Skills/ procedures	Level of participation *	Location	Signature of supervisor

\* Level of participation  
A- Plan and carry out  
B- Carry out  
C- Carry out under supervision





c- Procedures log book/ follow up assessment sheet

NO.	Level of competency*	Location	Signature

\* Level of competency  
A- Independent performance  
B- Performance under supervision  
C- Observed





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## C- Procedures log book/ Clinical sheet

NO.	Level of competency*	Location	Signature

- \* Level of competency  
A- Independent performance  
B- Performance under supervision  
C- Observed



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### C- Procedures log book/Treatment chart

NO.	Level of competency*	Location	Signature

\* Level of competency  
A- Independent performance  
B- Performance under supervision



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C- Observed

### C- Procedures log book/Treatment chart

NO.	Level of competency*	Location	Signature

\* Level of competency  
 A- Independent performance  
 B- Performance under supervision  
 C- Observed



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## C- Procedures log book/ Patient report

NO.	Level of competency*	Location	Signature

- \* Level of competency  
A- Independent performance  
B- Performance under supervision  
C- Observed



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### C- Procedures log book/Patient report

NO.	Level of competency*	Location	Signature

\* Level of competency  
A- Independent performance  
B- Performance under supervision  
C- Observed







## Clinical rounds log

### Group A(men section)

Date	Attendance	Case presentation	Signature of supervisor



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## Clinical rounds log

### Group A (men section)

Date	Attendance	Case presentation	Signature of supervisor



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## Clinical rounds log

### Group B (women section)

Date	Attendance	Case presentation	Signature of supervisor



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## Clinical rounds log Group B (women section)

Date	Attendance	Case presentation	Signature of supervisor



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## Night Shift

Date	Signature of supervisor	Date	Signature of supervisor



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### Night Shift

Date	Signature of supervisor	Date	Signature of supervisor



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## Night Shift

Date	Signature of supervisor	Date	Signature of supervisor



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### Night Shift

Date	Signature of supervisor	Date	Signature of supervisor























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## Post graduate teaching Didactics

Date	Title of topics	Signature of Staff member







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وحدة ضمان الجودة



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## Post graduate teaching Didactics

Date	Title of topics	Signature of Staff member



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## Post graduate teaching Didactics

Date	Title of topics	Signature of Staff member





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## Post graduate teaching Seminars

Date	Title	Signature of Staff member

























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### Formative assessment and MCQ

Exam	Score	Grade*	Date	Signature

**\*Degree**

- A- Excellent
- B- Very good
- C- Good
- D- Pass



## Postgraduate student's program Rotation in training assessment

\* **Name:**

\* **Period of training From:**

**To:**

\* **Site:**

### \*Rotation

General skills	could not judge (0)	strongly disagree(1)	(2) (3)	(4) (5)	(6)	strongly agree (7)
Demonstrate the competency of continuous evaluation of different types of care provision to patients in the different area of his field.						
Appraise scientific evidence.						
Continuously improve patient care based on constant self-evaluation and life-long learning.						
Participate in clinical audit and research projects.						



General skills	could not judge (0)	strongly disagree(1)	↔		↔		↔	strongly agree (7)
			(2)	(3)	(4)	(5)		
Practice skills of evidence-based Medicine (EBM).								
Educate and evaluate students, residents and other health professionals.								
Design logbooks.								
Design clinical guidelines and standard protocols of management.								
Appraise evidence from scientific studies related to the patients' health problems.								
Apply knowledge of study designs and statistical methods to the appraisal of clinical studies.								
Use information technology to manage information, access on-line medical information; for the important topics.								
Master interpersonal and communication skills that result in the effective <u>exchange of information and collaboration</u> with patients, their families, and health professionals, including:- <ul style="list-style-type: none"> <li>• <u>Present</u> a case.</li> <li>• <u>Write</u> a consultation note.</li> <li>• <u>Inform patients</u> of a diagnosis and therapeutic plan Completing and maintaining comprehensive.</li> <li>• Timely and legible <u>medical records</u>.</li> <li>• Teamwork skills.</li> </ul>								



General skills	could not judge (0)	strongly disagree(1)	↔		↔		(6)	strongly agree (7)
			(2)	(3)	(4)	(5)		
Create and sustain a therapeutic and ethically sound relationship with patients.								
Elicit and provide information using effective nonverbal, explanatory, questioning, and writing skills.								
Work effectively with others as a member or leader of a health care team or other professional group.								
Demonstrate respect, compassion, and integrity; a responsiveness to the needs of patients and society.								
Demonstrate a commitment to ethical principles including provision or withholding of clinical care, confidentiality of patient information, informed consent, and business practices.								
Demonstrate sensitivity and responsiveness to patients' culture, age, gender, and disabilities.								
Work effectively in health care delivery settings and systems related to specialty including good administrative and time management.								
Practice cost-effective healthcare and resource allocation that does not compromise quality of care.								



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General skills	could not judge (0)	strongly disagree(1)	↔		↔		(6)	strongly agree (7)
			(2)	(3)	(4)	(5)		
Advocate for quality patient care and assist patients in dealing with system complexities.								
Design, monitor and evaluate specification of under and post graduate courses and programs.								
Act as a chair man for scientific meetings including time management								



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# Unit 2: Neurological Emergencies





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## Unit (Module) 2

### Neurological emergencies

### *Rotation / attendance proof*

### الأماكن التي تدرب بها

توقيع مدير المستشفى	توقيع رئيس القسم	أسم المستشفى التي تدرب بها

## Requirements

- Credit points: 3.5 credit points for didactic (lectures, seminars, tutorial) and 18.5 credit points for training.
  - Minimal rate of attendance 80% of training and didactic



## Year 1(5 credit point for Training in Unit 2)

Clinical training	Credit points	Responsible department	Attendance	Percentage of Achieved points
Clinical training of neurological emergencies in emergency units	5 Credit points	Neurology and Psychiatry department	Year 1	27% of the training in Unit 2
Clinical training in ICU	2 CP	Anesthesia department	<ul style="list-style-type: none"> <li>➤ Practice with and basic and advanced nursing care of ICU patients and practice with clinical cases for at least 8 weeks in the anaesthesia ICU including interpretation of their different radiologic&amp; neuroimaging patterns and related laboratory investigation</li> <li>➤ Log of cases as mentioned below</li> <li>➤ Procedures log as mentioned below</li> </ul>	40% of training in year1
Clinical training in emergency neurology units	2 CP	Neurology and Psychiatry department	<ul style="list-style-type: none"> <li>➤ Night shift in emergency units(General emergency unit &amp; neurology intensive care) (From 2 pm to 8 am )</li> <li>1 night shift/week for 8 weeks</li> <li>➤ Practice with neurological cases for at least 8 weeks in emergency unit including interpretation of their different radiologic&amp; neuroimaging and neuroelectrophysiology patterns and related laboratory investigation</li> <li>➤ Log of cases as mentioned below</li> <li>➤ Procedures log as mentioned below</li> </ul>	40 % training in year1
	1 CP		<ul style="list-style-type: none"> <li>➤ Attend clinical round and share in supervision of management plan of cases log in neurological emergencies as mentioned below.</li> </ul>	20% training in year1
Student signature			Principle coordinator Signature	Head of the department signature





### Management plan of the following Cases log:

Case	Number
Management plan of Acute Stroke (Hemorrhagic ischemic and venous stroke) including the following: <ul style="list-style-type: none"> <li>• Without associated medical condition.</li> <li>• With medical condition.</li> <li>• Associated with complication.</li> </ul>	50 cases
Management plan of Central and peripheral respiratory distress related to neurological condition or complication : e.g. - Myasthenia gravis - Guillain Barre Syndrome -. Polymyositis. -. Periodic muscle paralysis	10 cases
Management plan of Status epilepticus	15 cases
Management plan of Coma due to different neurological disorders.	30 cases
Management plan of Neuroleptic malignant syndrome in critical ill patient	3 cases
Management plan of Status migranousus	At least one case as logged off
Management plan of Substance or drugs intoxication.	3 cases



### Procedure log:

#### ✚ Log of under supervision or Independently :

- Order and perform Intubation at least 10 independently.
- Order and perform ventilator adjustment 10 cases
- Respiration monitoring & machine adjustment for 10 cases.
- Perform CVP 5 cases
- Perform Oral airway placement 5 cases
- Perform ABG sampling 20 cases reports
- Interpret haemodynamic monitoring and correction 5 cases
- Interpret ABG sampling and correction 10 reports.
- Correction of acid base balance 5 cases
- Drug monitoring and infusion pump at least 5 cases.
- I.V canula at least 10 cases.
- Disability assessment Scales: at least 5 for each
- NIHSS.
- SSS.
- GCS.



### Year 2 (2.25 credit point for didactic)

Name of the course	Credit points	Responsible department	Attendance	Percentage of Achieved points
<b>Unit (module)2</b> neurological emergencies	2.25CP	Neurology and psychiatry department	Year 2	<b>64.3% of the didactics of Unit 2</b>
			<b>Topics and attendance</b>	<b>%</b>
	0.5CP		5 hours <b>Section 1:</b> Basic and advanced life support <b>Section 3:</b> Indications of admission to ICU <b>Section 4:</b> Vascular access: <b>Section 5:</b> Airway management ➤ Blood gases and oxygen therapy. ➤ Electrolyte disturbance and acid base balance management. ➤ Nursing care of critical ill neuropsychiatric patients in emergency or intensive care neurology units ➤ Drugs infusion pump. ➤ Hemodynamic monitoring. ➤ Hypothermia and hyperthermia. ➤ Nutrition.	14.3%
	0.4CP		4 Hours ➤ Coma ➤ Assessment and examination ➤ Neuropsychiatric causes ➤ Management.	11.4%
	0.4CP		4 Hours ➤ Acute neurological deficit ➤ Stroke emergencies and complication (Haemorrhagic ischemic and venous).	11.4%
	0.2CP		2 Hours Status epilepticus	5.7%



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	<b>0.4CP</b>		<b>4 hour</b> <b><u>Management of Central and peripheral respiratory distress related to neurological causes:</u></b> ➤ Myasthenia gravis ➤ Periodic muscle paralysis. ➤ Transverse myelitis. ➤ Guillain Barre Syndrome ➤ Poly myositis.	11.4 %
	<b>0.15CP</b>		1.5 hour Neuroleptic Malignant syndrome.	4.3%
	<b>0.2CP</b>		2 Hours Substance intoxication.	5.7%
Student signature			Principle coordinator Signature	Head of the department signature



## Year 2(6 credit points for training in unit 2)

Clinical training	Credit points	Responsible department	Attendance	Percentage of Achieved points
Neurological emergencies unit 2	6 CP	Neurology and Psychiatry department	Year 2	32.4% of the training in Unit2
Clinical training in emergency neurology units	3CP		<ul style="list-style-type: none"> <li>➤ Night shift in emergency units(General emergency unit &amp; neurology intensive care) (From 2 pm to 8 am )</li> <li>1 night shift/week for 8 weeks</li> <li>➤ Practice with neurological cases for at least 12 weeks in emergency unit including interpretation of their different radiologic&amp; neuroimaging and neuroelectrophysiology patterns and related laboratory investigation</li> <li>➤ Management Log of cases as mentioned below</li> <li>➤ Procedures log as mentioned below</li> </ul>	50% of training unit in year2
	3 CP		<ul style="list-style-type: none"> <li>➤ Attend clinical round for at least 3 months and share in supervision of management plan of cases log in neurological emergencies (General emergency unit &amp; neurology intensive care) as mentioned below.</li> </ul>	50% of training unit in year 2
Student signature			Principle coordinator Signature	Head of the department signature



### Management plan of the following Cases log:

Case	Number
Management plan of Acute Stroke (Hemorrhagic ischemic and venous stroke) including the following: <ul style="list-style-type: none"><li>• Without associated medical condition.</li><li>• With medical condition.</li><li>• Associated with complication.</li></ul>	50 cases
Management plan of Central and peripheral respiratory distress related to neurological condition or complication : e.g. <ul style="list-style-type: none"><li>- Myasthenia gravis</li><li>- Guillain Barre Syndrome</li><li>- Polymyositis.</li><li>- Periodic muscle paralysis</li></ul>	10 cases
Management plan of Status epilepticus	15 cases
Management plan of Coma due to different neurological disorders.	30 cases
Management plan of Neuroleptic malignant syndrome in critical ill patient	3 cases
Management plan of Status migranousus	At least one case as logged off
Management plan of Substance or drugs intoxication.	3 cases



## Procedure log:

### ✚ Log of under supervision or Independently :

- Order and perform Intubation at least 10 independently.
- Order and perform ventilator adjustment 10 cases
- Respiration monitoring & machine adjustment for 10 cases.
- Perform CVP 5 cases
- Perform Oral airway placement 5 cases
- Perform ABG sampling 20 cases reports
- Interpret haemodynamic monitoring and correction 5 cases
- Interpret ABG sampling and correction 10 reports.
- Correction of acid base balance 5 cases
- Drug monitoring and infusion pump at least 5 cases.
- I.V canula .at least 10 cases.
- Disability assessment Scales: at least 5 for each
- NIHSS.
- SSS.
- GCS.



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## Year 3(1.25 credit point for didactic)

Name of the course	Credit points	Responsible department	Attendance	Percentage of Achieved points
<b>Unit 2 Neurological emergencies</b>	1.25CP	Neurology and psychiatry department	Year 3	<b>35.7% of the didactics of Unit 2</b>
	<u>1 CP</u> 0.3CP		10 hours	28.6%
	0.2CP		➤ Headache and status migrainosus 3h	
	0.15CP		➤ <b>Acute blindness and abnormal pupil.2h</b>	
	0.15CP		➤ <b>Syncope 1.5h</b>	
0.2CP	➤ Acute dizziness& vertigo1.5h			
0.25CP		➤ Movement disorders in emergencies.2h		
			➤ Formative assessment	7.1%
Student signature			Principle coordinator Signature	Head of the department signature





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## Year 3 (6 credit points for training in unit 2)

Clinical training	Credit points	Responsible department	Attendance	Percentage of Achieved points
Neurological emergencies	6Credit points	Neurology and Psychiatry department	Year 3	32.4% of the training in Unit2
Clinical training in neurology Emergencies( general emergency units)	3CP		<ul style="list-style-type: none"> <li>➤ Night shift in emergency units(General emergency unit &amp; neurology intensive care) (From 2 pm to 8 am )</li> <li>1 night shift/week for 8 weeks</li> <li>➤ Practice with neurological cases for at least 12 weeks in emergency unit including interpretation of their different radiologic&amp; neuroimaging and neuroelectrophysiology patterns and related laboratory investigation</li> <li>➤ Management Log of cases as mentioned below</li> <li>➤ Procedures log as mentioned below</li> </ul>	50% of training unit in year3
	3 CP		<ul style="list-style-type: none"> <li>➤ Attend clinical round for at least 3 months and share in supervision of management plan of cases log in neurological emergencies (General emergency unit &amp; neurology intensive care) as mentioned below.</li> </ul>	50% of training unit in year3
Student signature			Principle coordinator Signature	Head of the department signature



Management plan of the following Cases log:

Case	Number
Management plan of Acute Stroke (Hemorrhagic ischemic and venous stroke) including the following: <ul style="list-style-type: none"><li>• Without associated medical condition.</li><li>• With medical condition.</li><li>• Associated with complication.</li></ul>	50 cases
Management plan of Central and peripheral respiratory distress related to neurological condition or complication: e.g. <ul style="list-style-type: none"><li>- Myasthenia gravis</li><li>- Guillain Barre Syndrome</li><li>- Polymyositis.</li><li>- Periodic muscle paralysis</li></ul>	10 cases
Management plan of Status epilepticus	15 cases
Management plan of Coma due to different neurological disorders.	30 cases
Management plan of Neuroleptic malignant syndrome in critical ill patient	3 cases
Management plan of Status migranousus	At least one case as logged off
Management plan of Substance or drugs intoxication.	3 cases



## Procedure log:

### Log of under supervision or Independently :

- Order and perform Intubation at least 10 independently.
- Order and perform ventilator adjustment 10 cases
- Respiration monitoring & machine adjustment for 10 cases.
- Perform CVP 5 cases
- Perform Oral airway placement 5 cases
- Perform ABG sampling 20 cases reports
- Interpret haemodynamic monitoring and correction 5 cases
- Interpret ABG sampling and correction 10 reports.
- Correction of acid base balance 5 cases
- Drug monitoring and infusion pump at least 5 cases.
- I.V canula .at least 10 cases.
- Disability assessment Scales: at least 5 for each
- NIHSS.
- SSS.
- GCS.



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**Year 4(1.5 credit points for training in unit 2)**

Clinical training	Credit points	Responsible department	Attendance	Percentage of Achieved points
Neurological emergencies	1.5Credit points	Neurology and Psychiatry department	Year 4	8.2% of the training in Unit2
Clinical training in neurology Emergencies&general emergency units)	1.5 CP		➤ Attend clinical round for at least 3 months and share in supervision of management plan of cases log in neurological emergencies (General emergency unit & neurology intensive care) as mentioned.	% 100% of training unit in year 4
Student signature			Principle coordinator Signature	Head of the department signature



### List of Requirements of studied module

Module II Neurological emergencies	Number of cases	*Level of competence	Supervisor
Management plan of acute Stroke (Haemorrhagic and ischemic): -Without associated medical condition. -With medical condition. -Associated with complication.	At least 50	A	Staff member
Management plan of Central and peripheral respiratory distress related to neurogenic condition or complication : <b>e.g.</b> - Myasthenia gravis -Guillain Barre Syndrome -. Polymyositis. -. Periodic muscle paralysis	At least 10	A	Staff member
Management plan of Status epilepticus related to neuropsychiatric disorders.	At least 15	A	Staff member
Management plan of Coma due to different neurological disorders.	At least 30	A	Staff member
<b>Procedures</b>			
CVP	At least 5	A	Staff member
Intubations	At least 10	A	Staff member
Respiration monitoring & machine adjustment	At least 10	A	Staff member

**\* Level of competence:**

The candidate will begin with level C, and at the end of clinical training will achieve level A in most required professional skills associated with training education and supervision of colleagues (candidate of master degree)..

- A -Plan and carry out independently.
- B- Carry out independently.
- C - Carry out under supervision.



## *Module II Neurological Emergencies*

### Clinical case log

### Record of cases

Hospital number	Diagnosis of case	*Level of competence	Location	Signature of supervisor

#### \*Level of Competence:

The candidate will begin with level C, and at the end of clinical training will achieve level A in most required professional skills.

A - Plan and Carry out independently.

B- Carry out independently.

C - Carry out under supervision.



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## Module II Neurological Emergencies

### Clinical case log

### Record of cases

Hospital number	Diagnosis of case	*Level of competence	Location	Signature of supervisor

#### \*Level of Competence:

The candidate will begin with level C, and at the end of clinical training will achieve level A in most required professional skills.

A - Plan and Carry out independently.

B- Carry out independently.

C - Carry out under supervision.



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## *Module II Neurological Emergencies*

### Clinical case log

### Record of cases

Hospital number	Diagnosis of case	*Level of competence	Location	Signature of supervisor

### **\*Level of Competence:**

The candidate will begin with level C, and at the end of clinical training will achieve level A in most required professional skills.

A - Plan and Carry out independently.

B- Carry out independently.

C - Carry out under supervision.





*Module II Neurological Emergencies*

**Clinical case log**

**Record of cases**

<b>Hospital number</b>	<b>Diagnosis of case</b>	<b>*Level of competence</b>	<b>Location</b>	<b>Signature of supervisor</b>

**\*Level of Competence:**

The candidate will begin with level C, and at the end of clinical training will achieve level A in most required professional skills.

A - Plan and Carry out independently.

B- Carry out independently.

C - Carry out under supervision.



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***Module II Neurological Emergencies***

**Clinical case log**

**Record of cases**

Hospital number	Diagnosis of case	*Level of competence	Location	Signature of supervisor

**\*Level of Competence:**

The candidate will begin with level C, and at the end of clinical training will achieve level A in most required professional skills.

A - Plan and Carry out independently.

B- Carry out independently.

C - Carry out under supervision.



*Module II Neurological Emergencies*  
Clinical case log  
Record of cases

Hospital number	Diagnosis of case	*Level of competence	Location	Signature of supervisor

**\*Level of Competence:**

The candidate will begin with level C, and at the end of clinical training will achieve level A in most required professional skills.

- A - Plan and Carry out independently.
- B- Carry out independently.
- C - Carry out under supervision.



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## Clinical case log

H.N	Diagnosis of case	Level of participation *	Location	Signature of supervisor

\* Level of participation

A- Plan and carry out

B- Carry out

C- Carry out under supervision.





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### Clinical case log

H.N	Diagnosis of case	Level of participation *	Location	Signature of supervisor

- \* Level of participation  
A- Plan and carry out  
B- Carry out  
C- Carry out under supervision.



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### Clinical skills & procedures log

H.N	Diagnosis of case	Level of participation *&Procedure	Location	Signature of supervisor

\* Level of participation  
A- Plan and carry out  
B- Carry out  
C- Carry out under supervision.



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### Clinical skills & procedures log

H.N	Diagnosis of case	Level of participation *&Procedure	Location	Signature of supervisor

\* Level of participation

A- Plan and carry out

B- Carry out

C- Carry out under supervision





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### Clinical skills & procedures log

H.N	Diagnosis of case	Level of participation *&Procedure	Location	Signature of supervisor

\* Level of participation  
A- Plan and carry out  
B- Carry out  
C- Carry out under supervision



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### Clinical skills & procedures log

H.N	Diagnosis of case	Level of participation *&Procedur e	Location	Signature of supervisor

- \* Level of participation  
A- Plan and carry out  
B- Carry out  
C- Carry out under supervision



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### Clinical skills & procedures log

H.N	Diagnosis of case	Level of participation * & Procedure	Location	Signature of supervisor

\* Level of participation  
A- Plan and carry out  
B- Carry out  
C- Carry out under supervision.



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## Clinical skills & procedures log

H.N	Diagnosis of case	Level of participation & Procedure	Location	Signature of supervisor

- \* Level of participation  
A- Plan and carry out  
B- Carry out  
C- Carry out under supervision



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### Clinical skills & procedures log

H.N	Diagnosis of case	Level of participation *&Procedure	Location	Signature of supervisor

- \* Level of participation  
A- Plan and carry out  
B- Carry out  
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## Clinical skills & procedures log

H.N	Diagnosis of case	Level of participation * & Procedure	Location	Signature of supervisor

\* Level of participation

A- Plan and carry out

B- Carry out

C- Carry out under supervision



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### Clinical skills & procedures log

H.N	Diagnosis of case	Level of participation * & Procedure	Location	Signature of supervisor

- \* Level of participation
- A- Plan and carry out
- B- Carry out
- C- Carry out under supervision



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### Clinical skills & procedures log

H.N	Diagnosis of case	Level of participation * & Procedure	Location	Signature of supervisor

\* Level of participation  
A- Plan and carry out  
B- Carry out  
C- Carry out under supervision





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### Clinical skills & procedures log

H.N	Diagnosis of case	Level of participation * & Procedure	Location	Signature of supervisor

- \* Level of participation
- A- Plan and carry out
  - B- Carry out
  - C- Carry out under supervision



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### Clinical skills & procedures log

H.N	Diagnosis of case	Level of participation *&Procedure	Location	Signature of supervisor

\* Level of participation  
 A- Plan and carry out  
 B- Carry out  
 C- Carry out under supervision



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### Clinical skills & procedures log

H.N	Diagnosis of case	Level of participation *&Procedure	Location	Signature of supervisor

\* Level of participation

A- Plan and carry out

B- Carry out

C- Carry out under supervision



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## Clinical skills & procedures log

H.N	Diagnosis of case	Level of participation *&Procedure	Location	Signature of supervisor

\* Level of participation

A- Plan and carry out

B- Carry out

C- Carry out under supervision



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### Clinical skills & procedures log

H.N	Diagnosis of case	Level of participation * & Procedure	Location	Signature of supervisor

- \* Level of participation  
A- Plan and carry out  
B- Carry out  
C- Carry out under supervision



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## Clinical skills & procedures log

H.N	Diagnosis of case	Level of participation * & Procedure	Location	Signature of supervisor

- \* Level of participation  
A- Plan and carry out  
B- Carry out  
C- Carry out under supervision



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### Clinical skills & procedures log

H.N	Diagnosis of case	Level of participation & Procedure	Location	Signature of supervisor

\* Level of participation

A- Plan and carry out

B- Carry out

C- Carry out under supervision



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## Clinical skills & procedures log

H.N	Diagnosis of case	Skills/ procedures	Level of participation *	Location	Signature of supervisor

\* Level of participation  
A- Plan and carry out  
B- Carry out  
C- Carry out under supervision





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### Clinical skills & procedures log

H.N	Diagnosis of case	Skills/ procedures	Level of participation *	Location	Signature of supervisor

\* Level of participation

A- Plan and carry out

B- Carry out

C- Carry out under supervision



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### Clinical skills & procedures log

H.N	Diagnosis of case	Skills/ procedures	Level of participation *	Location	Signature of supervisor

- \* Level of participation  
A- Plan and carry out  
B- Carry out  
C- Carry out under supervision



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**c- Procedures log book/ follow up assessment sheet**

NO.	Level of competency*	Location	Signature

\* Level of competency

A- Independent performance

B- Performance under supervision

C- Observed





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### C- Procedures log book/ follow up assessment sheet

NO.	Level of competency*	Location	Signature

\* Level of competency

A- Independent performance

B- Performance under supervision

C- Observed



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### C- Procedures log book/ follow up assessment sheet

NO.	Level of competency*	Location	Signature

- \* Level of competency  
A- Independent performance  
B- Performance under supervision  
C- Observed



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### C- Procedures log book/ follow up assessment sheet

NO.	Level of competency*	Location	Signature

- \* Level of competency  
A- Independent performance  
B- Performance under supervision  
C- Observed



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### C- Procedures log book/ follow up assessment sheet

NO.	Level of competency*	Location	Signature

- \* Level of competency  
A- Independent performance  
B- Performance under supervision  
C- Observed





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## C- Procedures log book/Patient report

NO.	Level of competency*	Location	Signature

\* Level of competency  
 A- Independent performance  
 B- Performance under supervision  
 C- Observed



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### Clinical rounds log (stroke unit)

Date	Attendance	Case presentation	Signature of supervisor



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## Clinical rounds log

(Stroke unit)

Date	Attendance	Case presentation	Signature of supervisor







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### Clinical rounds log

Date	Attendance	Case presentation	Signature of supervisor



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### Night Shift (general emergency unit)

Date	Signature of supervisor	Date	Signature of supervisor



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### Night Shift (general emergency unit)

Date	Signature of supervisor	Date	Signature of supervisor





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### Night Shift (general emergency unit)

Date	Signature of supervisor	Date	Signature of supervisor



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### Night Shift (stroke Unit & ICU)

Date	Signature of supervisor	Date	Signature of supervisor



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### Night Shift (stroke Unit&ICU)

Date	Signature of supervisor	Date	Signature of supervisor



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## B- Clinical Teaching log

### First: Attendance

Date	Attendance	Topic	Signature



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## B- Clinical Teaching log

### First: Attendance

Date	Attendance	Topic	Signature





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## B- Clinical Teaching log

### Second: Case presentation

Date	Staff group*	Case	Signature



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## Post graduate teaching Clinical Teaching

Date	Title of Clinical Teaching	Signature of Staff member





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## Post graduate teaching Clinical Teaching

Date	Title of Clinical Teaching	Signature of Staff member



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## Post graduate teaching Clinical Teaching

Date	Title of Clinical Teaching	Signature of Staff member



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### Post graduate teaching Didactics

Date	Title of topics	Signature of Staff member



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## Post graduate teaching Didactics

Date	Title of topics	Signature of Staff member







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## Post graduate teaching Didactics

Date	Title of topics	Signature of Staff member







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## Post graduate teaching Seminars

Date	Title	Signature of Staff member





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## Post graduate teaching Second: Tutorial

Date	Title of Tutorial	Signature of Staff member









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## Post graduate teaching Second: Tutorial

Date	Title of Tutorial	Signature of Staff member



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## Post graduate teaching Second: Tutorial

Date	Title of Tutorial	Signature of Staff member







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### Academic activities

#### Journal club, conference, workshop

Activity	Your role **	Date	Signature of supervisor

\*\* Your role:-  
A- Attendance  
B- Organization  
C- Presentation



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### Formative assessment and MCQ

Exam	Score	Grade*	Date	Signature

\*Degree

- A- Excellent
- B- Very good
- C- Good
- D- Pass



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## Postgraduate student's program Rotation in training assessment

\* *Name:*

\* *Period of training From:*

*To:*

\* *Site:*

### \*Rotation

General skills	could not judge (0)	strongly disagree(1)	↔		↔		(6)	strongly agree
			(2)	(3)	(4)	(5)		
Demonstrate the competency of continuous evaluation of different types of care provision to patients in the different area of his field.								
Appraise scientific evidence.								
Continuously improve patient care based on constant self-evaluation and <u>life-long learning</u> .								
Participate in clinical audit and research projects								



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General skills	could not judge (0)	strongly disagree(1)	↻		↻		strongly agree(7)
			(2)	(3)	(4)	(5)	
Practice skills of evidence-based Medicine (EBM).							
Educate and evaluate students, residents and other health professionals.							
Design logbooks.							
Design clinical guidelines and standard protocols of management.							
Appraise evidence from scientific studies related to the patients' health problems.							
Apply knowledge of study designs and statistical methods to the appraisal of clinical studies.							
Use information technology to manage information, access on-line medical information; for the important topics.							
Master interpersonal and communication skills that result in the effective <u>exchange of information and collaboration</u> with patients, their families, and health professionals, including:- <u>Present</u> a case. <u>Write</u> a consultation note. <u>Inform patients</u> of a diagnosis and therapeutic plan Completing and maintaining comprehensive. Timely and legible <u>medical records</u> . Teamwork skills.							



General skills	could not judge (0)	strongly disagree(1)	(3) (2)	(5) (4)	(6)	strongly agree (7)
Create and sustain a therapeutic and ethically sound relationship with patients.						
Elicit and provide information using effective nonverbal, explanatory, questioning, and writing skills.						
Work effectively with others as a member or leader of a health care team or other professional group.						
Demonstrate respect, compassion, and integrity; a responsiveness to the needs of patients and society.						



<p>Demonstrate a commitment to ethical principles including provision or withholding of clinical care, confidentiality of patient information, informed consent, and business practices.</p>								
<p>Demonstrate sensitivity and responsiveness to patients' culture, age, gender, and disabilities.</p>								
<p>Work effectively in health care delivery settings and systems related to specialty including good administrative and time management.</p>								
<p>Practice cost-effective healthcare and resource allocation that does not compromise quality of care.</p>								



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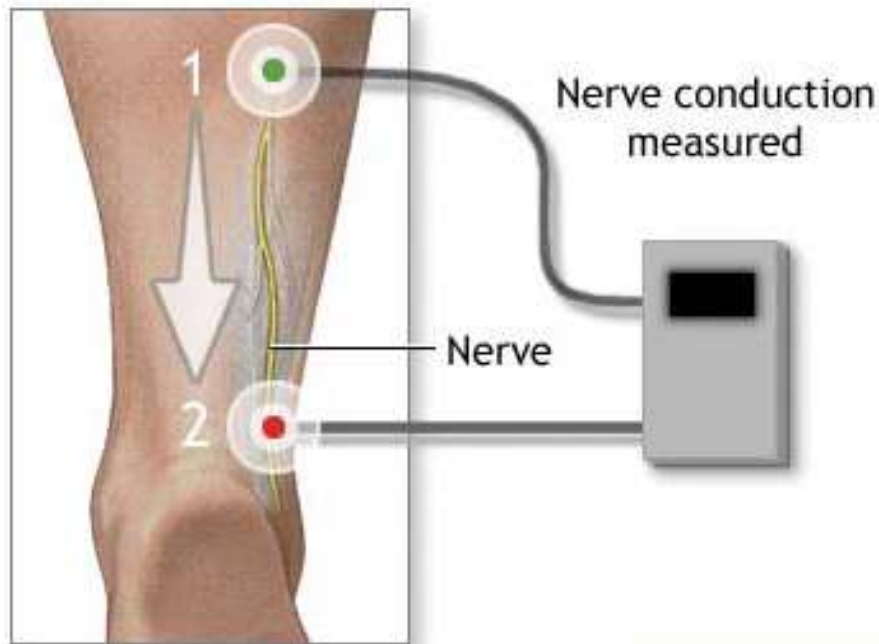
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General skills	could not judge (0)	strongly disagree(1)	↩ (3) )		↩ (5) )		(6) ↩	strongly agree (7)
			(2)	(4)				
Advocate for quality patient care and assist patients in dealing with system complexities.								
Design, monitor and evaluate specification of under and post graduate courses and programs.								
Act as a chair man for scientific meetings including time management								





## Module(unit) 3: Neuroelectrophysiology & Neuroimaging





### Unit ( Module ) 3

### Unit(Module)3 Neuroelectrophysiology and Neuroimaging

### *Rotation / attendance proof*

### *الأماكن التي تدرب بها*

توقيع مدير المستشفى	توقيع رئيس القسم	أسم المستشفى التي تدرب بها

### Unit ( Module ) 3

### Neuroelectrophysiology and Neuroimaging

## Requirement

● Credit points: 5 points for didactic (lectures, seminars, tutorial) and 22 credit points for training.

- Minimal rate of attendance 80% of training and didactic
- MCQ Assessment and investigation spots (One MCQ examination at the first half of the fourth year).



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### Year 1 (8 credit point for Training in Unit(Module) 3

Clinical training	Credit points	Responsible department	Attendance	Percentage of Achieved points
<b>Clinical training in Neurology and Psychiatry department</b>	8CP	<b>Neurology and Psychiatry department</b>	Year 1	36.4 % of the training in Unit 3
	8CP		<ul style="list-style-type: none"> <li>➤ Practice for at least 10 weeks with different neuroimaging and neuroelectrophysiology studies of cases log in neurology units and neuroelectrophysiology unit</li> <li>➤ Log of reports related to neuropsychiatric cases as mentioned below</li> </ul>	100% of total training unit in year 1
<b>Student signature</b>			<b>Principle coordinator Signature</b>	<b>Head of the department signature</b>



• **Log of reports of the following cases**

Case	Number
<p>Electroencephalography (EEG) report.            Motor conduction study (MCS)            Sensory conduction study (SCS)            F wave.            H reflex.            Electromyography study (EMG)            Evoked potentials:  <b>e.g.</b>            - Visual evoked potential (VEP).            - Auditory brain stem related evoked potential (ABR).            - Motor evoked potential (MEP)            -Somatosensory evoked potential (SSEP).            - Sleep report            - Neuroimaging report (CT &amp; MRI, MRV,MRA brain and spine) for neuroimaging findings related to each neurological disorders mentioned in module 1 (neurological disorders)</p>	<p>At least 100 cases            At least 50 cases            At least 50 cases            At least 50 cases            At least 50 cases            At least 50 cases              At least 50 cases            For each evoked potential              5 cases as logged off.            10 cases for each common neurological disorders &amp; infrequent and rare neurological disorders as logged off.</p>
<p>• <b>Neuroelectrophysiology procedures of the following:</b>            -Electroencephalography (EEG).            -Motor conduction study (MCS)            -Sensory conduction study (SCS)            -F wave.            -H reflex.            - Electromyography study (EMG)            - Evoked potentials:  <b>e.g.</b>            - Visual evoked potential (VEP).            - Auditory brain stem related evoked potential (ABR).            - Motor evoked potential (MEP)            -Somatosensory evoked potential (SSEP).</p>	<p>50 cases for each</p>



**Year 2(2.25 credit point for didactic teaching)**

Name of the unit	Credit points	Responsible department	Attendance	Percentage of Achieved points
Unit(Module) 3 Neuroelectrophysiology and Neuroimaging studies	2.5 CP	Neurology and Psychiatry department	Year 2	50% of the didactics of Unit 3
	0.25 CP		2.5 Hours ➤ X- Ray on skull. ➤ X -Ray on Spine ➤ Normal and abnormal findings in neuropsychiatric disorders.	2.5%
	0.25CP		2.5 Hours ➤ Normal pattern and report of CT BRAIN. ➤ Normal Pattern and report of CT Spine. ➤ Abnormal Pattern and report of CT BRAIN AND SPINE in neuropsychiatric disorders.	2.5%
	1 CP		10 Hours ➤ Normal Pattern and report of MRI BRAIN and MRV&MRA. ➤ Normal pattern and report of MRI Spine. ➤ Abnormal pattern and report of MRI, MRV,MRA neuroimaging in different neuropsychiatric disorders.	20%
	1 CP		10 Hours ➤ Basics and Principles of different EEG Techniques. ➤ Normal EEG report. ➤ Diagnostic criteria and writing reports of different neuropsychiatric disorders ( Abnormal EEG pattern and report). ➤ Digital EEG. ➤ Video-monitoring EEG.	20%
Student signature			Principle coordinator Signature	Head of the department signature



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### Year 2 (5 credit point for Training in Unit(Module) 3

Clinical training	Credit points	Responsible department	Attendance	Percentage of Achieved points
<b>Clinical training in Neuroelectrophysiology and neuroimaging</b>	5CP	<b>Neurology and Psychiatry department</b>	Year 2	22.7 % of the training in Unit 3
	5CP		<ul style="list-style-type: none"> <li>➤ Practice for at least 20 weeks with different neuroimaging and neuroelectrophysiology studies of cases log in neuropsychiatric units</li> <li>➤ Log of reports related to neuropsychiatric cases as mentioned below</li> </ul>	100 % of total training unit 3 in year2
Student signature			Principle coordinator Signature	Head of the department signature



• Log of reports of the following cases

Case	Number
- CVS neuroimaging report.	40 cases
- Venous stroke neuroimaging reports.	5 cases
- Multiple sclerosis neuroimaging reports.	3 cases
- CNS infection neuroimaging reports	3 cases
- Vasculitis	1 case
- Brain tumor.	5 cases
- Spinal cord tumors.	5 cases
- Inflammatory spinal cord lesion.	5 cases
- Syringomyelia.	1 cases
- Epidural abscess.	As logged of
- Subdural heamatoma.	
- CNS Truma.	
- AVM or ANEURYSM in brain.	
- Other Space occupying lesion in CNS	
<b>Neuroelectrophysiology reports</b>	
- Normal EEG Record in adult.	50 reports
- Normal EEG in child.	50 reports
- Normal EEG Sleep rhythm.	50 reports
- Encephelitis,	50 reports
- Encephalopathy( metabolic- toxic -anoxic).	50 reports
- Epilepsy and epileptic syndromes.	50 reports
- EEG in psychiatric patient.	50 reports
- Nerve conduction study.	50 reports
- EMG Study.	50 reports





• Log of reports of the following cases

Case	Number
<p>Electroencephalography (EEG) report. Motor conduction study (MCS) Sensory conduction study (SCS) F wave. H reflex. Electromyography study (EMG) Evoked potentials: <b>e.g.</b> - Visual evoked potential (VEP). - Auditory brain stem related evoked potential (ABR). - Motor evoked potential (MEP) -Somatosensory evoked potential (SSEP). - Sleep report - Neuroimaging report (CT &amp; MRI, MRV,MRA brain and spine) for neuroimaging findings related to each neurological disorders mentioned in module 1 (neurological disorders)</p>	<p>At least 100 cases At least 50 cases At least 50 cases At least 50 cases At least 50 cases At least 50 cases At least 50 cases For each evoked potential 5 cases as logged off. 10 cases for each common neurological disorders &amp; infrequent and rare neurological disorders as logged off.</p>
<p>Electroencephalography (EEG) report. Motor conduction study (MCS) Sensory conduction study (SCS) F wave. H reflex. Electromyography study (EMG) Evoked potentials: <b>e.g.</b> - Visual evoked potential (VEP). - Auditory brain stem related evoked potential (ABR). - Motor evoked potential (MEP) -Somatosensory evoked potential (SSEP). - Sleep report - Neuroimaging report (CT &amp; MRI, MRV,MRA brain and spine) for neuroimaging findings related to each neurological disorders mentioned in module 1 (neurological disorders).</p>	<p>At least 100 cases At least 50 cases At least 50 cases At least 50 cases At least 50 cases At least 50 cases At least 50 cases For each evoked potential 5 cases as logged off. 10 cases for each common neurological disorders &amp; infrequent and rare neurological disorders as logged off.</p>





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<ul style="list-style-type: none"><li>• <b>Neuroelectrophysiology procedures of the following:</b></li><li>-Electroencephalography (EEG).</li><li>-Motor conduction study (MCS)</li><li>-Sensory conduction study (SCS)</li><li>-F wave.</li><li>-H reflex.</li><li>- Electromyography study (EMG)</li><li>- Evoked potentials: <b>e.g.</b></li><li>- Visual evoked potential (VEP).</li><li>- Auditory brain stem related evoked potential (ABR).</li><li>- Motor evoked potential (MEP)</li><li>-Somatosensory evoked potential (SSEP).</li></ul>	50 cases for each
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**Year 3(2.5 credit point for didactic)**

Name of the course	Credit points	Responsible department	Attendance	Percentage of Achieved points
<b>Module(unit) 3;</b> neuroelectrophysiology and neuroimaging	<b>2.5CP</b>	<b>Neurology and Psychiatry department</b> In Neuroelectro physiology unit	<b>Year 3</b>	<b>50% of the didactics in Unit3</b>
	0.75CP		<b>7.5 HOURS</b> ➤ Basic and principles of Nerve conduction study and techniques. ➤ Normal values of nerve conduction study (MCV&SCV, F- WAVE& H reflex). ➤ Indication of nerve conduction study. ➤ Nerve conduction reports. ➤ Diagnostic criteria and findings of different neuromuscular disorders and reports	15%
	0.25CP		<b>2.5 HOURS</b> ➤ Basic and principles of EMG Study and techniques. ➤ Normal values and pattern of EMG Study. ➤ Indication of EMG Study. ➤ EMG Study reports. ➤ Diagnostic criteria and EMG findings of different neuromuscular disorders and reports. ➤ Synchronization test.	5%
	0.7 CP		<b>7 Hours</b> <b>Evoked potentials (VEP.ABR,SSEP,MEP)</b> ➤ Basic and principles of Evoked potentials (VEP.ABR, SSEP, MEP and	14%



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			<p>techniques.</p> <ul style="list-style-type: none"> <li>➤ Normal values and pattern of Evoked potentials (VEP.ABR,SSEP,MEP Study).</li> <li>➤ Indication of Evoked potentials (VEP.ABR, SSEP, MEP Study).</li> <li>➤ Evoked potentials (VEP.ABR, SSEP, MEP reports.</li> <li>➤ Diagnostic criteria and Evoked potentials (VEP.ABR,SSEP, MEP) of different neuropsychiatric disorders and reports.</li> </ul>	
	0.15CP		<p><b>1.5 hours</b></p> <ul style="list-style-type: none"> <li>➤ <b>Sleep lab</b></li> </ul>	<b>3%</b>
	0.15 CP		<p><b>1.5 hours</b></p> <ul style="list-style-type: none"> <li>➤ <b>Transcranial Doppler</b></li> </ul>	<b>3%</b>
	0.25 CP		<p><b>2.5 hours</b></p> <ul style="list-style-type: none"> <li>➤ <b>Other neuroimaging modalities and techniques(SPECT, PET, etc)</b></li> </ul>	<b>5%</b>
	0.25CP		<ul style="list-style-type: none"> <li>➤ <b>Formative Assessment.</b></li> </ul>	<b>5%</b>
<b>Student signature</b>			<b>Principle coordinator Signature</b>	<b>Head of the department signature</b>



**Year 3 (5 credit point for Training in Unit (Module) 3**

Clinical training	Credit points	Responsible department	Attendance	Percentage of Achieved points
<b>Clinical training in Neuroelectrophysiology and neuroimaging</b>	5CP	<b>Neurology and Psychiatry department</b>	Year 3	22.7 % of the training in Unit 3
	4CP		<ul style="list-style-type: none"> <li>➤ Practice for at least 20 weeks with different neuroimaging and neuroelectrophysiology studies of cases log in neuropsychiatric units</li> <li>➤ Log of reports related to neuropsychiatric cases as mentioned below</li> <li>➤ Log of procedures related to neuropsychiatric cases as mentioned below</li> </ul>	80 % of total training unit 3 in year3
	1CP		<ul style="list-style-type: none"> <li>➤ Participate in medical neuroelectrophysiology education(reports and techniques) of medical colleagues(residents and junior colleagues) in electrophysiology unit.</li> </ul>	20 % of total training unit 3 in year3
Student signature			Principle coordinator Signature	Head of the department signature



**Log of reports of the following cases:**

Case	Number
<p>Electroencephalography (EEG) report.            Motor conduction study (MCS)            Sensory conduction study (SCS)            F wave.            H reflex.            Electromyography study (EMG)            Evoked potentials:  <b>e.g.</b>            - Visual evoked potential (VEP).            - Auditory brain stem related evoked potential (ABR).            - Motor evoked potential (MEP)            -Somatosensory evoked potential (SSEP).            - Sleep report            - Tran cranial dopplar            - Neuroimaging report (CT &amp; MRI, MRV,MRA brain and spine) for neuroimging findings related to each neurological disorders mentioned in module 1 (neurological disorders)</p>	<p>At least 100 cases            At least 50 cases            At least 50 cases            At least 50 cases            At least 50 cases            At least 50 cases            At least 50 cases            For each evoked potential            5 cases as logged off.            5 cases as logged off.            10 cases for each common neurological disorders &amp; infrequent and rare neurological disorders as logged off.</p>
<p><b>• Neuroelectrophysiology procedures of the following:</b>            -Electroencephalography (EEG).            -Motor conduction study (MCS)            -Sensory conduction study (SCS)            -F wave.            -H reflex.            - Electromyography study (EMG)            - Evoked potentials:  <b>e.g.</b>            - Visual evoked potential (VEP).            - Auditory brain stem related evoked potential (ABR).            - Motor evoked potential (MEP)            -Somatosensory evoked potential (SSEP).</p>	<p>50 cases for each</p>



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\*At the end of unit training , the candidate should achieve Level A in performance under staff members supervision.

### Year 4 (4 credit point for Training in Unit (Module) 3

Clinical training	Credit points	Responsible department	Attendance	Percentage of Achieved points
<b>Clinical training in Neuroelectrophysiology and neuroimaging</b>	4CP	<b>Neurology and Psychiatry department</b>	Year 4	18.2% of the total training in Unit 3
	3CP		➤ Participate in medical neuroelectrophysiology education (reports and techniques) of medical colleagues (residents and junior colleagues) in electrophysiology unit.	75% of total training unit 3 in year 4
	1CP		➤ Formative assessment	25% of total training unit 3 in year 4
Student signature			Principle coordinator Signature	Head of the department signature



### Log of reports of the following cases

Case	Number
- CVS neuroimaging report.	40 cases
- Venous stroke neuroimaging reports.	5 cases
- Multiple sclerosis neuroimaging reports.	3 cases
- CNS infection neuroimaging reports	3 cases
- Vasculitis	1 case
- Brain tumor.	5 cases
- Spinal cord tumors.	5 cases
- Inflammatory spinal cord lesion.	5 cases
- Syringomyelia.	1 cases
- Epidural abscess.	As logged off
- Subdural heamatoma.	As logged off
- CNS Truma.	As logged off
- AVM or ANEURYSM in brain.	As logged off
- Other Space occupying lesion in CNS	As logged off
- neurological cases with coincident COVID 19 INFECTION.	As logged off
- - cases with COVID 19 neurological sequalae	As logged off



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### *Module III Neuroelectrophysiology and Neuroimaging*

#### Clinical case log (EEG Report)

Hospital number	Diagnosis of case	*Level of competence	Location	Signature of supervisor

**\*Level of Competence:**

The candidate will begin with level C, and at the end of clinical training will achieve level A in most required professional skills.

- A - Plan and Carry out independently.
- B- Carry out independently.
- C - Carry out under supervision.





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**Module III Neuroelectrophysiology and Neuroimaging**  
**Clinical case log (EEG Report)**

Hospital number	Diagnosis of case	*Level of competence	Location	Signature of supervisor

**\*Level of Competence:**

The candidate will begin with level C, and at the end of clinical training will achieve level A in most required professional skills.

- A - Plan and Carry out independently.
- B- Carry out independently.
- C - Carry out under supervision.



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***Module III Neuroelectrophysiology and Neuroimaging***  
**Clinical case log (EEG Report)**

Hospital number	Diagnosis of case	*Level of competence	Location	Signature of supervisor

**\*Level of Competence:**

The candidate will begin with level C, and at the end of clinical training will achieve level A in most required professional skills.

A - Plan and Carry out independently.

B- Carry out independently.

C - Carry out under supervision.



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**Module III Neuroelectrophysiology and Neuroimaging**  
**Clinical case log (EEG Report)**

Hospital number	Diagnosis of case	*Level of competence	Location	Signature of supervisor

**\*Level of Competence:**

The candidate will begin with level C, and at the end of clinical training will achieve level A in most required professional skills.

A - Plan and Carry out independently.

B- Carry out independently.

C - Carry out under supervision.



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**Module III Neuroelectrophysiology and Neuroimaging**  
**Clinical case log(Nerve study report)**

Hospital number	Diagnosis of case	*Level of competence	Location	Signature of supervisor

**\*Level of Competence:**

The candidate will begin with level C, and at the end of clinical training will achieve level A in most required professional skills.

- A - Plan and Carry out independently.
- B- Carry out independently.
- C - Carry out under supervision.



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**Module III Neuroelectrophysiology and Neuroimaging**  
**Clinical case log(Nerve study report)**

Hospital number	Diagnosis of case	*Level of competence	Location	Signature of supervisor

**\*Level of Competence:**

The candidate will begin with level C, and at the end of clinical training will achieve level A in most required professional skills.

A - Plan and Carry out independently.

B- Carry out independently.

C - Carry out under supervision.



**Module III Neuroelectrophysiology and Neuroimaging**  
**Clinical case log(Nerve study report)**

Hospital number	Diagnosis of case	*Level of competence	Location	Signature of supervisor

**\*Level of Competence:**

The candidate will begin with level C, and at the end of clinical training will achieve level A in most required professional skills.

- A - Plan and Carry out independently.
- B- Carry out independently.
- C - Carry out under supervision.



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وحدة ضمان الجودة



Faculty of Medicine  
Quality Assurance Unit

**Module III Neuroelectrophysiology and Neuroimaging  
Clinical case log(evoked potentials reports)**

Hospital number	Diagnosis of case	*Level of competence	Location	Signature of supervisor

**\*Level of Competence:**

The candidate will begin with level C, and at the end of clinical training will achieve level A in most required professional skills.

- A - Plan and Carry out independently.
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Faculty of Medicine  
Quality Assurance Unit

**Module III Neuroelectrophysiology and Neuroimaging**  
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**Module III Neuroelectrophysiology and Neuroimaging**  
**Clinical case log(evoked potentials reports)**

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Quality Assurance Unit

*Module III Neuroelectrophysiology and Neuroimaging*  
Clinical case log(EMG REPORT)

Hospital number	Diagnosis of case	*Level of competence	Location	Signature of supervisor

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Faculty of Medicine  
Quality Assurance Unit

*Module III Neuroelectrophysiology and Neuroimaging*  
**Clinical case log(EMG REPORT)**

Hospital number	Diagnosis of case	*Level of competence	Location	Signature of supervisor

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Quality Assurance Unit

**Module III Neuroelectrophysiology and Neuroimaging  
(Neuroimaging reports CT) Clinical case log**

Hospital number	Diagnosis of case	*Level of competence	Location	Signature of supervisor

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Quality Assurance Unit

*Module III Neuroelectrophysiology and Neuroimaging*  
**Clinical case log( CT report)**

Hospital number	Diagnosis of case	*Level of competence	Location	Signature of supervisor

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**Module III Neuroelectrophysiology and Neuroimaging**  
**Clinical case log (Neuroimaging reports CT)**

Hospital number	Diagnosis of case	*Level of competence	Location	Signature of supervisor

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**Module III Neuroelectrophysiology and Neuroimaging**  
**Clinical case log (Neuroimaging reports MRI)**

Hospital number	Diagnosis of case	*Level of competence	Location	Signature of supervisor

**\*Level of Competence:**

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**Module III Neuroelectrophysiology and Neuroimaging**  
**Clinical case log (Neuroimaging reports MRI)**

Hospital number	Diagnosis of case	*Level of competence	Location	Signature of supervisor

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*Module III Neuroelectrophysiology and Neuroimaging  
Clinical case log (Neuroimaging reports MRI)*

Hospital number	Diagnosis of case	*Level of competence	Location	Signature of supervisor

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*Module III Neuroelectrophysiology and Neuroimaging  
Clinical case log (Neuroimaging reports MRI)*

Hospital number	Diagnosis of case	*Level of competence	Location	Signature of supervisor

**\*Level of Competence:**

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***Module III Neuroelectrophysiology and Neuroimaging  
Clinical case log (Neuroimaging reports MRA&MRV)***

<b>Hospital number</b>	<b>Diagnosis of case</b>	<b>*Level of competence /procedure</b>	<b>Location</b>	<b>Signature of supervisor</b>

**\*Level of Competence:**

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### *Module III Neuroelectrophysiology and Neuroimaging*

#### Record of procedures

Hospital number	Diagnosis of case	*Level of competence & procedure	Location	Signature of supervisor

#### \*Level of Competence:

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### Module III Neuroelectrophysiology and Neuroimaging

#### Record of procedures

Hospital number	Diagnosis of case	*Level of competence & procedur	Location	Signature of supervisor

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### Module III Neuroelectrophysiology and Neuroimaging Record of procedures

Hospital number	Diagnosis of case	*Level of competence & procedur	Location	Signature of supervisor

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### Module III Neuroelectrophysiology and Neuroimaging

#### Record of procedures

Hospital number	Diagnosis of case	*Level of competence	Location	Signature of supervisor

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### Module III Neuroelectrophysiology and Neuroimaging

#### Record of procedures

Hospital number	Diagnosis of case	Level of competence & procedure	Location	Signature of supervisor

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### Module III Neuroelectrophysiology and Neuroimaging

#### Record of procedures

Hospital number	Diagnosis of case	*Level of competence & procedure	Location	Signature of supervisor

#### \*Level of Competence:

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### Module III Neuroelectrophysiology and Neuroimaging

#### Record of procedures

Hospital number	Diagnosis of case	*Level of competence & procedure	Location	Signature of supervisor

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B- Carry out independently.

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***Module III Neuroelectrophysiology and Neuroimaging***

**Record of procedures**

<b>Hospital number</b>	<b>Diagnosis of case</b>	<b>*Level of competence &amp; procedure</b>	<b>Location</b>	<b>Signature of supervisor</b>

**\*Level of Competence:**

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A - Plan and Carry out independently.

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Quality Assurance Unit

*Module III Neuroelectrophysiology and Neuroimaging*  
**Record of procedures**

<b>Hospital number</b>	<b>Diagnosis of case</b>	<b>**Level of competence &amp; procedure</b>	<b>Location</b>	<b>Signature of supervisor</b>

**\*Level of Competence:**

The candidate will begin with level C, and at the end of clinical training will achieve level A in most required professional skills.

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## B- Post graduate teaching

### First : lectures

Date	Title of lecture	Signature of Staff member



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## B- Post graduate teaching

### Second: Tutorial

Date	Title of Tutorial	Signature of Staff member



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## B- Post graduate teaching

### Third: Clinical Teaching

Date	Title of Clinical Teaching	Signature of Staff member



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### Academic activities

#### Journal club, conference, workshop

Activity	Your role **	Date	Signature of supervisor

\*\* Your role:-

- A- Attendance
- B- Organization
- C- Presentation





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### Formative assessment and MCQ

Exam	Score	Grade*	Date	Signature

- \*Degree  
A- Excellent  
B- Very good  
C- Good  
D- Pass



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Quality Assurance Unit

## Postgraduate student's program Rotation in training assessment

\* **Name:**

\* **Period of training From:**

**To:**

\* **Site:**

### \*Rotation




General skills	could not judge (0)	strongly disagree(1)	(2) (3)	(4) (5)	(6)	strongly agree (7)
Demonstrate the competency of continuous evaluation of different types of care provision to patients in the different area of his field.						
Appraise scientific evidence.						
Continuously improve patient care based on constant self-evaluation and <u>life-long learning</u> .						
Participate in clinical audit and research projects.						



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General skills	could not judge (0)	strongly disagree(1)	(2)  (3)	(4)  (5)	(6) 	strongly agree (7)
Practice skills of evidence-based Medicine (EBM).						
Educate and evaluate students, residents and other health professionals.						
Design logbooks.						
Design clinical guidelines and standard protocols of management.						
Appraise evidence from scientific studies related to the patients' health problems.						
Apply knowledge of study designs and statistical methods to the appraisal of clinical studies.						
Use information technology to manage information, access on-line medical information; for the important topics.						
Master interpersonal and communication skills that result in the effective <u>exchange of information and collaboration</u> with patients, their families, and health professionals, including:- <ul style="list-style-type: none"> <li>• <u>Present</u> a case.</li> <li>• <u>Write</u> a consultation note.</li> <li>• <u>Inform patients</u> of a diagnosis and therapeutic plan Completing and maintaining comprehensive.</li> <li>• Timely and legible <u>medical records</u>.</li> <li>• Teamwork skills.</li> </ul>						



General skills	could not judge (0)	strongly disagree(1)	↔		↔		(6)	strongly agree (7)
			(2)	(3)	(4)	(5)		
Create and sustain a therapeutic and ethically sound relationship with patients.								
Elicit and provide information using effective nonverbal, explanatory, questioning, and writing skills.								
Work effectively with others as a member or leader of a health care team or other professional group.								
Demonstrate respect, compassion, and integrity; a responsiveness to the needs of patients and society.								
Demonstrate a commitment to ethical principles including provision or withholding of clinical care, confidentiality of patient information, informed consent, and business practices.								
Demonstrate sensitivity and responsiveness to patients' culture, age, gender, and disabilities.								
Work effectively in health care delivery settings and systems related to specialty including good administrative and time management.								
Practice cost-effective healthcare and resource allocation that does not compromise quality of care.								



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Quality Assurance Unit

General skills	could not judge (0)	strongly disagree(1)	2 3		4 5		6	strongly agree (7)
			(2)	(3)	(4)	(5)		
Advocate for quality patient care and assist patients in dealing with system complexities.								
Design, monitor and evaluate specification of under and post graduate courses and programs.								
Act as a chair man for scientific meetings including time management								



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Quality Assurance Unit

## Module(unit) 4: interventional Neurology





## Rotation / attendance proof الأماكن التي تدرب بها

توقيع مدير المستشفى	توقيع رئيس القسم	أسم المستشفى التي تدرب بها

### Requirements

- **Credit points:** 3.5 credit points for didactic (lectures, seminars, tutorial) and 18.5 credit points for training.
  - Minimal rate of attendance 80% of training and didactic
  - Practice with clinical cases for at least 3 months in the magnetic lab department within year 3 or 4.





### Year 3 (3.5 credit points for didactic)

Name of the unit	Credit points	Responsible department	Attendance	Percentage of Achieved points
<b>Module (Unit)4 Interventional neurology</b>	3.5 CP	Neurology and Psychiatry department	Year 3	<b>100 % of the didactics of Unit 4</b>
	1.5CP		15 hours <b>Interventional neurology</b> ➤ Interventional neurology in CVS 4 h. ➤ Interventional neurology in epilepsy 4h. ➤ Interventional neurology in movement disorders 4h. ➤ CSF tapping and injection 1h. ➤ Interventional neurology for pain. ➤ Plasma pheresis	42.8% of total didactics unit 4
	1.5CP		15 hours Interventional techniques ➤ Non invasive brain stimulation tools. ➤ Mechanisms for neurorehabilitation & neuromodulation and therapy. ➤ Techniques (rTMS & tDCS etc...) and uses ➤ - Indication of uses and outcomes.	42.8% of total didactics unit 4
	0.3 CP		3hours ➤ Stem cells and neurorepairs. ➤ Other interventional modalities; gene therapy and medical engineering in neurology.	8.6% of total didactics unit 4
	0.2 CP		➤ Formative Assessment	5.7% of total didactics unit 4
<b>Student signature</b>			<b>Principle coordinator Signature</b>	<b>Head of the department signature</b>





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### Year 3 or year 3&4 (18.5 credit points for Training in Unit 4)

Clinical training	Credit points	Responsible department	Attendance	Percentage of Achieved points
<b>Clinical training in Interventional neurology</b>	18.5CP	<b>Neurology and Psychiatry department</b>	<b>Year 3 or year 3&amp;4</b>	<b>100% of the training in Unit 4</b>
	12CP		<ul style="list-style-type: none"> <li>➤ Attend and Practice for at least 4 months in Tran cranial magnetic lab.</li> <li>➤ Log of neuropsychiatric cases as mentioned below</li> <li>➤ Procedures log as mentioned below</li> </ul>	64.9 % of total training unit 4
	5.5CP		<ul style="list-style-type: none"> <li>➤ Participate in medical education of medical colleagues for Non invasive brain stimulation techniques for diagnostic and therapeutic uses in magnetic lab.plasama paresis, MS unit and neurosonology and duplex unit.</li> </ul>	29.7% of total training unit 4
	1 CP		<ul style="list-style-type: none"> <li>➤ Formative Assessment</li> </ul>	5.4% of total training unit 4
Student signature			Principle coordinator Signature	Head of the department signature



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### Log of the procedures& cases

Case	Number
- rTMS for diagnosis	10 cases
- rTMS for CVS treatment	20 cases
- rTMS for movement disorders.	5 cases
- tDCS for CVS.	As logged off cases.
- Cortical excitability measurement.	8 cases
- rTMS for pain therapy	1 case.
- Plasma phoresis	
- Immunomodulator in MS &NMOSD	
- NEUROSONOLOGY	
- Boutex injection	
- Thrombolytic therapy and catheterization	
-	



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**Module IV Interventional Neurology**  
**Record of cases /rTMS procedures**

Hospital number	Diagnosis of case	*Level of competence	Location	Signature of supervisor

**\*Level of Competence:**

The candidate will begin with level C, and at the end of clinical training will achieve level A in most required professional skills.

- A - Plan and Carry out independently.
- B- Carry out independently.
- C - Carry out under supervision.



*Module IV Interventional Neurology*  
Record of cases/rTMS procedures

Hospital number	Diagnosis of case	*Level of competence	Location	Signature of supervisor

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**Module IV Interventional Neurology**  
**Clinical case log**  
**Record of cases/rTMS diagnostic procedures**

<b>Hospital number</b>	<b>Diagnosis of case</b>	<b>*Level of competence</b>	<b>Location</b>	<b>Signature of supervisor</b>

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### Module IV Interventional Neurology

#### Record of cases

Hospital number	Diagnosis of case	*Level of competence	Location	Signature of supervisor

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## B- Post graduate teaching

### Second: Tutorial

Date	Title of Tutorial	Signature of Staff member



## B- Post graduate teaching

### Third: Clinical Teaching

Date	Title of Clinical Teaching	Signature of Staff member



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## Academic activities

### Journal club, conference, workshop

Activity	Your role **	Date	Signature of supervisor

\*\* Your role:-

- A- Attendance
- B- Organization
- C- Presentation



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### Formative assessment and MCQ

Exam	Score	Grade*	Date	Signature

\*Degree

- A- Excellent
- B- Very good
- C- Good
- D- Pass



## Postgraduate student's program Rotation in training assessment




\* **Name:**

\* **Period of training From:**

**To:**

\* **Site:**

### \*Rotation

General skills	could not judge (0)	strongly disagree(1)	(2)  (3)	(4)  (5)	(6) 	strongly agree (7)
Demonstrate the competency of continuous evaluation of different types of care provision to patients in the different area of his field.						
Appraise scientific evidence.						
Continuously improve patient care based on constant self-evaluation and <u>life-long learning</u> .						
Participate in clinical audit and research projects.						



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General skills	could not judge (0)	strongly disagree(1)	(2) (3)	(4) (5)	(6)	trongly agree (7)
Practice skills of evidence-based Medicine (EBM).						
Educate and evaluate students, residents and other health professionals.						
Design logbooks.						
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Appraise evidence from scientific studies related to the patients' health problems.						
Apply knowledge of study designs and statistical methods to the appraisal of clinical studies.						
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General skills	could not judge (0)	strongly disagree(1)	↔		↔		(6)	strongly agree (7)
			(2)	(3)	(4)	(5)		
Advocate for quality patient care and assist patients in dealing with system complexities.								
Design, monitor and evaluate specification of under and post graduate courses and programs.								
Act as a chair man for scientific meetings including time management								



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**Rotation / attendance proof "**

الأماكن التي تدرب بها

الفترة	توقيع مدير المستشفى	توقيع رئيس القسم	أسم المستشفى التي تدرب بها	اسم المقرر (Module)



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## Program MD Degree of Neurology

### 1- Academic activities

Lecture, journal club, seminar, conference, workshop"

Activity	Your role **	Date	Signature of supervisor

\*\* Your role:-  
A- Presentation.  
B- Organization.  
C- Attendance.



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Activities	Your role **	Date	Signature of supervisor

\*\* Your role:-

- A- Presentation.
- B- Organization.
- C- Attendance.



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### 1- Academic activities

#### Lecture, journal club, seminar, conference, workshop"

Activity	Your role **	Date	Signature of supervisor

\*\* Your role:-

- A- Presentation.
- B- Organization.
- C- Attendance.



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### 1- Academic activities

Lecture, journal club, seminar, conference, workshop"

Activity	Your role **	Date	Signature of supervisor

\*\* Your role:-

- A- Presentation.
- B- Organization.
- C- Attendance.



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### 1- Academic activities

Lecture, journal club, seminar, conference, workshop"

Activity	Your role **	Date	Signature of supervisor

\*\* Your role:-  
A- Presentation.  
B- Organization.  
C- Attendance.



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## 2- Academic achievements"

Activity	Your role **	Date	Signature of supervisor

Your role \*\*

A - Audit participation

B - Research "clinical trial" participation.

C - Evidence-based medicine "generation of guidelines" protocols





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Activity	Your role **	Date	Signature of supervisor

Your role \*\*

A - Audit participation

B - Research "clinical trial" participation.

C - Evidence- based medicine "generation of guidelines" protocols



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## 2- Academic achievements"

Activity	Your role **	Date	Signature of supervisor

Your role \*\*

A - Audit participation

B - Research "clinical trial" participation.

C - Evidence- based medicine "generation of guidelines" protocols.



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# other activities

- 1- Attend at east one Conference either local or international or Wok shop.
- 2- Prepare at least one seminar & journal club per year.



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## Program MD of Neurology

### Formative assessment

Activity	Your role **& marks	Date	Signature of supervisor

- Mini clinical examination
- Quizzes.
- MCQ.



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# Elective Course 1

## Requirements

● **Credit points:** 2 credit point.

- Minimal rate of attendance 80% of lectures and 80% of training



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Name of the elective course: .....

### Elective Course 1 Lectures

Date	Attendance	Topic	Signature



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## Elective Course 1 Practical skills

Date	Attendance	Topic	Signature





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# Elective Course 2

## Requirements

● **Credit points:** 2 credit point.

- Minimal rate of attendance 80% of lectures and 80% of training



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Name of the elective course: -----

### Elective Course 2 Lectures

Date	Attendance	Topic	Signature





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## Medical Doctorate Degree Thesis

- **Type :**
- **Title in English:**
- **Title in Arabic:**
- **Supervisors:**
- **Summary in English:**
- **Summary in Arabic:**



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## Declaration

Course Structure Mirror	Responsible (Course) Coordinator Name:	Signature	Date
<b>First Part</b>			
<b>Course 1: Medical statistics and computer</b>			
<b>Course 2 Research Methodology</b>			
<b>Course 3 Medicolegal Aspects and Ethics in Medical Practice and Scientific Research.</b>			
<b>Course 4 Neurophysiology</b>			
<b>Course 5 Unit (module)1: Neuropathology of Neurological disorders</b>			
<b>Course 5 Unit (module)2: Genetics of Neurological disorder.</b>			
<b>Course 6: Neuropharmacology</b>			
<b>Second Part</b>			
<b>Course 7:Neurology</b>			
<b>Unit (Module )1: Neurological disorders</b>			
<b>Unit(Module ) 2: Neurological emergencies.</b>			
<b>Unit (Module )3: Neuroelectrophysiology and Neuroimaging Studies.</b>			
<b>Unit (Module )4: Interventional Neurology</b>			
<b>- Elective Course (1) Certificate Dates:</b>			
<b>- Elective Course (2) Certificate Dates:</b>			
<b>- M. D. Thesis Acceptance Date:</b>			
<b>- Fulfillment of required credit points prior to final examination</b>			
<b>Neurology M.D. Degree Principle Coordinator:</b>			
<b>Date approved by Neurology and Psychiatry Department Council:</b>			

يعتمد ،  
رئيس القسم

أ.د/