



المجلس الأعلى للجامعات  
الإدارة المركزية لبحوث تطوير التعليم الجامعي  
إدارة السكرتارية لجان التخطيط لقطاعات العلوم الأساسية

**السيد الأستاذ الدكتور/ أشرف محمد عبد الباسط**  
**رئيس جامعة المنصورة**

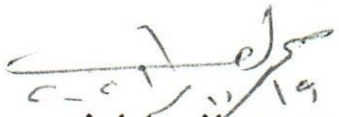
**تحية طيبة وبعد ،،**

أتشرف بأن أرسل لسيادتكم رفق هذا صورة من القرار الوزاري رقم ( ٦١٤٨ )  
بتاريخ ٢٠٢١/١٠/١٨ بشأن تعديل اللائحة الداخلية لكلية الطب (مرحلة الدراسات  
العليا) بنظام الساعات المعتمدة بالجامعة.

برجاء التفضل بالنظر والتكرم بالتنبيه بما ترونه سيادتكم مناسباً في هذا الشأن .

وتفضلوا بقبول فائق الاحترام والتحية،،

**أمين المجلس الأعلى للجامعات**

  
(أ.د/ محمد مصطفى لطيف)

٢٠٢١  
١٠  
١٩


نصير

١٠٦٨٥٧  
١٠٢٤

صورة مبلغة إلي

أ.د/ عميد كلية الطب بالجامعة

د.أ. وكيل كلية الدراسات العليا  
والبحوث

عميد الكلية  
  
أ.د/ أشرف شومه

الدراسات  
البحوث  
١٠٦٨٥٧  
١٠٢٤



جمهورية مصر العربية

وزارة التعليم العالي  
الوزير

قرار وزاري  
رقم (٦٩٤) بتاريخ ١٨/١٠/٢٠٢١  
بشأن تعديل اللائحة الداخلية لكلية الطب جامعة المنصورة  
(مرحلة الدراسات العليا) بنظام الساعات المعتمدة

**وزير التعليم العالي والبحث العلمي ورئيس المجلس الأعلى للجامعات**

- \*\* بعد الاطلاع على القانون رقم ٤٩ لسنة ١٩٧٢ في شأن تنظيم الجامعات والقوانين المعدلة له.  
\*\* وعلى قرار رئيس الجمهورية رقم ٨٠٩ لسنة ١٩٧٥ بإصدار اللائحة التنفيذية لقانون تنظيم الجامعات والقرارات المعدلة له.  
\*\* وعلى القرار الوزاري (٦٩٤) بتاريخ ٢٠٢١/٤/٣ بشأن إصدار اللائحة الداخلية لكلية الطب بالمنصورة (مرحلة الدراسات العليا) بنظام الساعات المعتمدة ، والقرارات المعدلة له.  
\*\* وعلى موافقة مجلس جامعة المنصورة بجلسته بتاريخ ٢٠٢٠/٧/٢٧  
\*\* وعلى موافقة لجنة قطاع الدراسات الطبية بجلستها بتاريخ ٢٠٢٠/٩/٣٠ ، ٢٠٢١/٦/٢٨ بالتفويض  
\*\* وعلى موافقة المجلس الأعلى للجامعات بجلسته بتاريخ ٢٠٢١/٨/٢١

**قرر**

**(المادة الأولى)**

يضاف مادة جديدة تحت رقم (٣ مكرر) إلى اللائحة الداخلية لكلية الطب جامعة المنصورة مرحلة الدراسات العليا ( بنظام الساعات المعتمدة ) الصادرة بالقرار الوزاري رقم (٦٩٤) بتاريخ ٢٠١١/٤/٣ على النحو التالي:

**مادة (٣ مكرر) الدبلومات المهنية**

تمنح جامعة المنصورة بناء على طلب كلية الطب البشري الدبلومات المهنية الآتية:-  
١- الدبلومة المهنية في الفسيولوجيا الإكلينيكية للجهاز العصبي (برنامج نوعي)

**(المادة الثانية)**

يلحق باللائحة الداخلية المشار إليها بعائنية الخطة الدراسية والإمتحانية المرفقة والخاصة بالدبلومة المهنية في الفسيولوجيا الإكلينيكية للجهاز العصبي بنظام الساعات المعتمدة

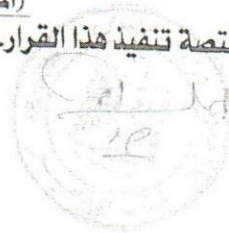
**(المادة الثالثة)**

على جميع الجهات المختصة تنفيذ هذا القرار.

وزير التعليم العالي والبحث العلمي

ورئيس المجلس الأعلى للجامعات

( أ.د/ خالد عبد الغفار )



محمد



❖ نظام الامتحان وتوزيع الدرجات:  
(الدبلومة المهنية في الفسيولوجيا الاكلينيكية للجهاز العصبي)  
امتحان الفصل الدراسي الأول

إجمالي	الدرجة			الاختبار	المقرر
	عملي	شفهي	تحريري		
70		20	50	امتحان تحريري مدته ساعة	أساسيات الفسيولوجيا الاكلينيكية للجهاز العصبي
70		20	50	امتحان تحريري مدته ساعة	أساسيات رسم العصب

الامتحان النهائي الشامل: في نهاية الفصل الدراسي الرابع

إجمالي	الدرجة				الاختبار	المقرر
	إكلينيكي	شفوي	MCQ	تحريري		
300	100	30	20	150	(1) تحريري مدته ثلاث ساعات (أسئلة قصيرة وحالات) (2) امتحان شفوي (3) امتحان اكلينيكي	مقرر الفسيولوجيا العصبية (الجزء الأول والثاني والثالث)

❖ شروط القيد في الدبلومة المهنية الفسيولوجيا الاكلينيكية للجهاز العصبي:

١- خريجوا كلية الطب من مختلف الجامعات الحاصلين على درجة الماجستير أو الزمالة المصرية للأمراض العصبية أو مايعادلها.



السيد/ د. محمد  
عبدالله  
C.C.11/10



## CLINICAL NEUROPHYSIOLOGY DIPLOMA SPECIFICATION

Faculty of Medicine- Mansoura University

### (A) Administrative information

(1) Department offering the program	Neurology department
(2) Department responsible for teaching the course.	Neurology department
(3) Duration of the program.	1 year
(4) Date of approval by the Department's council	
(5) Date of last approval of program specification by Faculty council	
(6) Course title.	Clinical Neurophysiology
(7) Course code.	(CNP400)
(8) Total teaching hours.	40 Credit hours

السفيرة  
أ. م. م. م.  
15/11/2015





## (B) Professional information

### (1) Course Aims:

The broad aims of the course are as follows:

- 1- The program enables candidates to initiate training and research in the area of clinical neurophysiology and neuro-diagnosis.
- 2- The candidates should practice clinical and diagnostic skills in all functional aspects of clinical neurology, interact with community problems, and respect ethical values according to community culture.
- 3- The candidate should acquire the scientific knowledge and skills that enables them to know the basics of scientific medical research.
- 4- To produce graduates able to acquire the competency and experience to provide a high standard patient care that is compassionate and effective for the management of patients with different neurologic diseases with practices that are safe, scientifically based, effective, efficient, timely, and cost effective as well as evidence-based.
- 5- To produce graduates who are better prepared to understand, reflect and meet the needs of our local community and respond appropriately to cultural and medical needs.
- 6- To provide continuous self-development and transfer of knowledge and skills to others.
- 7- To act with integrity, honesty and respecting medical ethics.



السفيرة  
أبريل  
2020/11/10



## 2) Intended Learning Outcomes (ILOs):

### A- Knowledge and Understanding

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

- A1** Demonstrate basic electrodiagnostic procedures.
- A2** Predict the basics of common clinical neurophysiologic findings.
- A3** Describe different electrodiagnostic strategies for common Neurological problems.
- A4** Recognize the basic scientific knowledge related to clinical neurological disorders and their electrodiagnostic respective findings.
- A5** Mention Ethical and legal principles of professional practice in the field of Clinical Neurophysiology disorders.
- A6** Awareness of major recent developments in research in clinical neuroscience.

### B- Intellectual skills.

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

- B1** Point out symptoms and signs in common neurological complaints.
- B2** Deduce a differential diagnosis for common neurological complaints.
- B3** Apply a relevant clinical neurophysiologic and neurodiagnostic plan for evaluation of common neurological complaints.
- B4** Appraise diagnostic plans for common neurological problems.
- B5** Outline innovative solutions to different clinical neurophysiologic and neurodiagnostic problems.
- B6** Develop initial experience in one of the clinical neurophysiologic and neurodiagnostic modalities (chosen by the candidate).



السيد محمد  
عبد الوهاب  
2015/10



### C-Professional/practical skills.

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

- C1 Collect clinical data for different neurological disorders and their different clinical neurophysiologic and neurodiagnostic findings.
- C2 Perform new clinical neurophysiologic and neurodiagnostic procedures related to clinical neurology.
- C3 Practice common clinical neurophysiologic and neurodiagnostic techniques and procedures related to basic research in the field of clinical neurophysiology and neurodiagnosis.
- C4 Apply proper diagnostic modalities for different neurologic disorders.
- C5 Choose specific skill in one of the clinical neurophysiologic and neurodiagnostic modalities.

### D- Communication & Transferable skills.

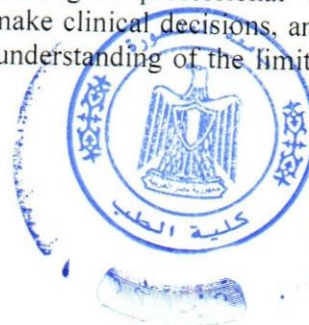
On successful completion of the course, the candidate will be able to,

- D1 Respond effectively to a patient's emotional and psychosocial concerns and allay patient anxiety regarding procedures.
- D2 Interact and communicate effectively with other health care professionals.
- D3 Manage time effectively and demonstrate skills needed for lifelong learning.
- D4 use different sources to obtain information and knowledge.

### E-Academic standards

#### **Competency Area I: The graduate as a health care provider**

The graduate should provide quality, safe, patient-centered care, drawing upon his/her integrated knowledge and clinical skills, and adhering to professional values. The graduate should collect and interpret information, make clinical decisions, and carry out diagnostic and therapeutic interventions - with an understanding of the limits of his/her



التفويض  
أ.م.د. محمد  
10/11/2010





expertise- considering the patient's circumstances and preferences as well as the availability of resources. The graduate should be able to:

- 1.1. Take and record a structured, patient centered history.
- 1.2. Adopt an empathic and holistic approach to the patients and their problems.
- 1.3. Assess the mental state of the patient.
- 1.4. Perform appropriately timed full physical examination of patients appropriate to the age, gender, and clinical presentation of the patient while being culturally sensitive.
- 1.5. Prioritize issues to be addressed in a patient encounter.
- 1.6. Select the appropriate investigations and interpret their results taking into consideration cost/ effectiveness factors.
- 1.7. Recognize and respond to the complexity, uncertainty, and ambiguity inherent in medical practice.
- 1.8. Apply knowledge of the clinical and biomedical sciences relevant to the clinical problem at hand.
- 1.9. Retrieve, analyze, and evaluate relevant and current data from literature, using information technologies and library resources, in order to help solve a clinical problem based on evidence (EBM).
- 1.10. Integrate the results of history, physical and laboratory test findings into a meaningful diagnostic formulation.
- 1.11. Perform diagnostic and intervention procedures<sup>2</sup> in a skillful and safe manner, adapting to unanticipated findings or changing clinical circumstances.
- 1.12. Adopt strategies and apply measures that promote patient safety.
- 1.13. Establish patient-centered management plans in partnership with the patient, his/her family and other health professionals as appropriate, using Evidence Based Medicine in management decisions.
- 1.14. Respect patients' rights and involve them and /or their families/carers in management decisions.
- 1.15. Provide the appropriate care in cases of emergency, including cardio-pulmonary resuscitation, immediate life support measures and basic first aid procedures.
- 1.16. Apply the appropriate pharmacological and nonpharmacological approaches to alleviate pain and provide palliative care for seriously ill people, aiming to relieve their suffering and improve their quality of life.
- 1.17. Contribute to the care of patients and their families at the end of life, including management of symptoms, practical issues of law and certification.

#### **Competency Area II: The graduate as a health promoter**

The graduate should advocate for the development of community and individual measures which promote the state of well-being, he/she should empower individuals and communities to engage in healthy behaviors, and put his/her knowledge and skills to prevent diseases, reduce deaths and promote quality life style. The graduate should be able to:



السيد الدكتور  
أحمد  
2020/11/10



- 2.1 Identify the basic determinants of health and principles of health improvement.
- 2.2 Recognize the economic, psychological, social, and cultural factors that interfere with wellbeing.
- 2.3 Discuss the role of nutrition and physical activity in health.
- 2.4 Identify the major health risks in his/her community, including demographic, occupational and environmental risks; endemic diseases, and prevalent chronic diseases.
- 2.5 Describe the principles of disease prevention, and empower communities, specific groups or individuals by raising their awareness and building their capacity.
- 2.6 Recognize the epidemiology of common diseases within his/her community, and apply the systematic approaches useful in reducing the incidence and prevalence of those diseases.
- 2.7 Provide care for specific groups including pregnant women, newborns and infants, adolescents and the elderly.
- 2.8 Identify vulnerable individuals that may be suffering from abuse or neglect and take the proper actions to safeguard their welfare.
- 2.9 Adopt suitable measures for infection control.

### **Competency Area III: The graduate as a professional**

The graduate should adhere to the professional and ethical codes, standards of practice, and laws governing practice. The graduate should be able to:

- 3.1. Exhibit appropriate professional behaviors and relationships in all aspects of practice, demonstrating honesty, integrity, commitment, compassion, and respect.
- 3.2. Adhere to the professional standards and laws governing the practice, and abide by the national code of ethics issued by the Egyptian Medical Syndicate.
- 3.3. Respect the different cultural beliefs and values in the community they serve.
- 3.4. Treat all patients equally, and avoid stigmatizing any category regardless of their social, cultural, ethnic backgrounds, or their disabilities.
- 3.5. Ensure confidentiality and privacy of patients' information.
- 3.6. Recognize basics of medico-legal aspects of practice, malpractice and avoid common medical errors.
- 3.7. Recognize and manage conflicts of interest.
- 3.8. Refer patients to appropriate health facility at the appropriate stage.
- 3.9. Identify and report any unprofessional and unethical behaviors or physical or mental conditions related to himself, colleagues or any other person that might jeopardize patients' safety.



النسخة النهائية  
أ.م.د. محمد  
2020/11/10



### 3 Program content

#### 3.1 Clinical training

Rotations		Duration
Phase A: Basic training	During this phase the resident (trainee) acquires the basic (general) clinical and practical skills needed to start specialized training.	2 months
Phase B: Specialized training	During this phase the resident (trainee) spends 5 months in the clinical neurophysiology unit- Neurology department, Mansoura University Hospital to fulfill the required credit points.	7 months
Phase C: Advanced training	During this phase the resident (trainee) acquires in depth experience and masters clinical and practical competencies needed for expert professional practice.	3 months
Total		12 months

32 lectures

	Course	Lectures	Code	Credit Hours	Total Hours
First Semester	Basics and background of Neurophysiology	Basics and background of Neurophysiology	CNPD413BE	2	9
	Basics of nerve conduction studies and Electromyography	1) Neurophysiology of Nerve Conduction Studies 2) Electrophysiology of Brachial and Lumbosacral Plexopathies 3) Radiculopathy and Motor Neuron Disorders 4) Neurophysiology of Neuromuscular Transmission and Its Disorders 5) Introduction to the Needle Electrode Examination	CNPD413NCS	7	
Second, Third and fourth semesters	Neurophysiology (Electroencephalogram)	1) The Normal EEG in an Adult 2) Normal Variant EEG Patterns 3) Scalp electroencephalography in neonates and children 4) Epileptiform Abnormalities	CNPD413NP1	6	11
	Neurophysiology (Evoked potentials)	1) Visual Evoked Potentials 2) Brainstem Auditory Evoked Potentials 3) Somatosensory Evoked Potentials	CNPD413NP2	3	
	Neurophysiology (Polysomnogram)	Polysomnography, multiple sleep latency test and clinical evaluation of sleep disorders	CNPD413NP3	2	
Total Teaching Hours					20

1. Clinical hours: 20 hours
2. Academic hours: 20 hours





4) Teaching methods,

4.1. Lectures & Seminars, power point aided.

4.2 Conferences

4.3. Interactive bedside teaching with clinical case presentations of difficult and interesting cases and group discussion.

4.4. Training on examination of neurologic patients in grand rounds

4.5. Training in Neurophysiology Unit

4.6. Attendance of department activities (Thesis Discussion, invasive procedures with senior staffs, outpatient clinic, workshops and training courses...)

4.7. Problem solving case scenarios

(5) Assessment methods,

Assessment method	Intended learning Outcomes
5.1 Multiple choice questions	A1,2,3,4,5,6, B1,2,3,4,5,6, C1,2,3,4,5
5.2 objective and structural Clinical (OSCE)	A1,2,3,4,5,6, B1,2,3,4,5,6, C1,2,3,4,5, D1,2,3,4

Assessment schedule:

Final exam after completion of the 12<sup>th</sup> month training period.

Percentage of each Assessment to the total mark,

MCQ, 50%

OSCE, 50%





Other assessment without marks:

- 1- Presentation and open discussion seminars.
- 2- Log book for assessment of the attendance and activities throughout the course  
(Minimum acceptance attendance is 75 %), it should be fulfilled and signed by Head of the department.

(6) References of the course:

**6.1. Hand books.** Book authorized by department of Neurology

1. *Handbook of EEG interpretation.* Demos Medical Publishing, 2014.
2. *The Oxford handbook of event-related potential components.* Oxford university press. (2011).
3. *Oxford American handbook of neurology.* Oxford University Press. (2010).

**6.2. Text books**

1. *Oxford handbook of neurology.* OUP Oxford. (2014).
2. *Oxford textbook of clinical neurophysiology.* Oxford University Press. (2016).
3. *Textbook of peripheral neuropathy.* Demos Medical Publishing, 2012.
4. *Oxford textbook of sleep disorders.* Oxford University Press. (2017).
5. *Oxford textbook of epilepsy and epileptic seizures.* OUP Oxford. (2012).

**6.3. Journals.** Clinical Neurology, Journal of neurology, Archives of Neurology, CONTINUUM: Lifelong Learning in Neurology, Current Opinion in Neurology, Nature Clinical Practice Neurology, Neurology, The Neurologist, Practical Neurology, Journal of Neurophysiology.

**6.4. Websites.** <http://emedicine.medscape.com/>

(7) Facilities and resources mandatory for course completion,

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

- Candidates logbook
- Program Specification and Handbooks
- Lecture hall, extensive library and other learning resources
- Computer laboratories with a wide range of software
- Internet with a wide range of learning support material

Course coordinator:

Head of the department, Prof. Dr. Mohamed Abdelsalam



السيد محمد عبد السلام  
رئيس القسم  
2016/11/10