МЕДИЦИНСКИ УНИВЕРСИТЕТ - ВАРНА "Проф. д-р Параскев Стоянов"

Ул."Марин Дринов" 55, Варна 9002, България Тел. : 052/ 65 00 57, Факс: 052/ 65 00 19 e-mail: uni@mu-varna.bg, www.mu-varna.bg



MEDICAL UNIVERSITY - VARNA "Prof. Dr. Paraskev Stoyanov"

55, Marin Drinov Str., 9002 Varna, Bulgaria Tel.: +359 52/ 65 00 57, Fax: +359 52/ 65 00 19 e-mail: uni@mu-varna.bg, www.mu-varna.bg

FACULTY OF MEDICINE

Approved: Dean:

(Prof. Yoto Yotov,

SYLLABUS

IN

Neurological Diseases

Specialty	MEDICINE			
Educational - qualification degree	master			
Organizational form of education	full-time			
Auditorial activity (Lectures/Seminars)	120 (60/60)			
Extra-auditorial activity	30			
ECTS- credits	5			
Discipline type	compulsory			
Semesters of education	Seventh and Eight			
Semester of examination	Eight			
Developers of the Syllabus:	Prof. Silva Andonova, MD, PhD, DSc			
	Assoc. Prof. Mihael Tsalta, MD, PhD			

ANNOTATION

Aims of the course	The course in Neurological diseases includes teaching of General and Clinical
Aims of the course	neurology in two semesters and aims at: Updating the knowledge of neuroanatomy which is important for mastering topical diagnosis. Updating the knowledge of neurophysiology, neurogenetics, neurobiochemistry, pathologic morphology, neuroimmunology, neuropsychology and neuropharmacology, considering the modern achievements of neuroscience, diagnostics, treatment and rehabilitation of neurological diseases. Mastering the semiology, syndromology and principles of topical diagnostics in diseases of the central and peripheral nervous system. Acquaintance with the clinical, laboratory and instrumental diagnostic methods of assessment in neurology; indications, capabilities, interpretation. Acquaintance with the principal groups and the most important neurological diseases in clinical practice. Acquaintance with the diagnostic rules and behavior in neurological emergencies, with the problems and rules of behavior in brain death from the point of view not only of neurology, but of transplantology as well. Acquaintance with the methods and scales for assessment of neurological functional deficits and of behavior according to consensus statements in practical healthcare.

Outcomes for stu	idents at the end of the course:
Knowledge	 The anatomy and physiology of the nervous system. The main symptoms and syndromes in patients with neurological diseases, as well as the elements of topical diagnostics. Knowledge of acute and chronic diseases of the nervous system, leading to disruption of the normal functioning of the individual in family, professional and social environment, which require research and treatment in hospital, outpatient and home settings. Knowledge of neuroimaging and specific investigation methods in the neurological practice – Doppler ultrasound, EMG, EEG, EP. Knowledge of the therapeutic options for acute and chronic diseases of the nervous system. Knowledge of specific assessment methods and scales for various neurological diseases.
Skills	 Taking a detailed medical history in a neurological patient. Examination of detailed neurological status and its interpretation. Application of the rules of topical diagnosis in neurological practice. Recognition and adequate behaviour in emergency situations in neurology. Preparation of a treatment-diagnostic plan for patients with involvement of the CNS and PNS. Application of specific methods and scales for evaluation of neurological diseases.
Competences	1. Patient Care that is compassionate, appropriate, and effective for treating health problems and promoting health.

- o Gather essential and accurate information about the patient
- o Counsel patients and family members
- o Recognize the indicators for procedures
- Describe the procedure in appropriate language for patients and caretakers
- Acknowledge the impact of the procedure on patient and family
- Competently perform all medical procedures required for their scope of practice
- o Perform the procedure in a way that maximizes patient comfort
- o Make informed diagnostic and therapeutic decisions
- o Prescribe and perform essential medical procedures
- Provide effective health management, maintenance, and prevention guidance
- 2. **Medical Knowledge** about established and evolving biomedical, clinical, and cognate (eg, epidemiological and social-behavioural) sciences and the application of this knowledge to patient care.
 - An investigative and analytical approach to clinical problem solving and knowledge acquisition
 - o An ability to apply medical knowledge to clinical situations
 - An ability to teach others
- 3. Practice-Based Learning and Improvement that involves investigation and evaluation of their own patient care, appraisal, and assimilation of scientific evidence, and improvements in patient care.
 - o Investigate and evaluate patient care practices
 - o Appraise and assimilate scientific evidence, and
 - Improve the practice of medicine.
- 4. Interpersonal and Communication Skills that result in effective information exchange and teaming with patients, their families, and other health professionals.
 - Create and sustain a therapeutic relationship with patients and families
 - Work effectively as a member or leader of a health care team
- 5. **Professionalism**, as manifested through a commitment to carrying out professional responsibilities, adherence to ethical principles, and sensitivity to a diverse patient population.
 - o Demonstrating Professional Conduct and Accountability
 - o Demonstrating Humanism and Cultural Proficiency
 - o Maintaining Emotional, Physical, and Mental Health
 - o Pursuing Continual Personal and Professional Growth
- 6. Systems-Based Practice, as manifested by actions that demonstrate an awareness of and responsiveness to the larger

context and system of health care and the ability to effectively call on system resources to provide care that is of optimal value.

 Work in interprofessional teams to enhance patient safety and improve patient care quality.

O Participate in identifying system errors and implementing potential systems solutions.

Literacy competence Literacy is the ability to identify, understand, express, create, and interpret concepts, feelings, facts and opinions in both oral and written forms, using visual, sound/audio and digital materials across disciplines and contexts. It implies the ability to communicate and connect effectively with others, in an appropriate and creative way.	X
Multilingual competence This competence defines the ability to use different languages appropriately and effectively for communication. It broadly shares the main skill dimensions of literacy: it is based on the ability to understand, express and interpret concepts, thoughts, feelings, facts and opinions in both oral and written form (listening, speaking, reading and writing) on an appropriate range of societal and cultural contexts according to one's wants or needs.	X
Mathematical competence is the ability to develop and apply mathematical thinking and insight in order to solve a range of problems in everyday situations. Building on a sound mastery of numeracy, the emphasis is on process and activity, as well as knowledge. Mathematical competence involves, to different degrees, the ability and willingness to use mathematical modes of thought and presentation (formulas, models, constructs, graphs, charts). 3. Competence in science refers to the ability and willingness to explain the natural world by making use of the body of knowledge and methodology employed, including observation and experimentation, in order to identify questions and to draw evidence-based conclusions. Competences in technology and engineering are applications of that knowledge and methodology in response to perceived human wants or needs. Competence in science, technology and engineering involves an understanding of the changes caused by human activity and responsibility as an individual critizen.	X
Digital competence Digital competence involves the confident, critical and responsible use of, and engagement with, digital technologies for learning, at work, and for participation in society. It includes information and data literacy, communication and collaboration, media literacy, digital content creation (including programming), safety (including digital well-being and competences related to cybersecurity), intellectual property related questions, problem solving and critical thinking.	X
Personal, social and learning to learn competence Personal, social and learning to learn competence is the ability to reflect upon oneself, effectively manage time and information, work with others in a constructive way, remain resilient and manage one's own learning and career. It includes the ability to cope with uncertainty and complexity, learn to learn, support one's physical and emotional well-being, to maintain physical and mental health, and to be able to lead a health-conscious, future-oriented life, empathize and manage conflict in an inclusive and supportive context.	X
Citizenship competence the ability to act as responsible citizens and to fully participate in civic and social life, based on an understanding of social, economic, legal and political concepts and structures, as well as global developments and sustainability.	
Entrepreneurship competence Entrepreneurship competence refers to the capacity to act upon opportunities and ideas, and to transform them into values for others. It is founded upon creativity, critical thinking and problem solving, taking initiative and perseverance and the ability to work collaboratively in order to plan and manage projects that are of cultural, social or financial value.	

¹ As defined in 2018 r. by the European Union Council (https://eur-lex.europa.eu/legal-content/BG/TXT/HTML/?uri=CELEX:32018H0604(01)&from=EN)

Cultural awareness and expression competence

Competence in cultural awareness and expression involves having an understanding of and respect for how ideas and meaning are creatively expressed and communicated in different cultures and through a range of arts and other cultural forms. It involves being engaged in understanding, developing and expressing one's own ideas and sense of place or role in society in a variety of ways and contexts.

Methods of education

- lectures
- seminar exercises
- practical exercises
- solving practical tasks
- discussion of case studies
- consultations
- work with scientific literature
- analysis and interpretation of medical results
- presentations

Links	with	other	courses	from	the	curriculum	of	the	specialty	V