

MINISTRY OF EDUCATION AND SCIENCE OF UKRAINE

SUMY STATE UNIVERSITY

Academic and Research Medical Institute

Кафедра внутрішньої та сімейної медицини

NURSING PRACTICE: PRACTICE OF INTERNAL MEDICINE

Higher education level	The Second
Major: study programme	222 Medicine: Medicine

Approved by Quality Council HHMI

Chairman of the Quality Council HHMI
Petrashenko Viktoriia Oleksandrivna

DATA ON APPROVAL

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Syllabus

1. General information

Full name	Nursing practice: practice of internal medicine
Full official name of a higher education institution	Sumy State University
Full name of a structural unit	Academic and Research Medical Institute. Кафедра внутрішньої та сімейної медицини
Author(s)	Dudchenko Yevhenii Serhiiovych, Bokova Svitlana
Cycle/higher education level	The Second Level Of Higher Education, National Qualifications Framework Of Ukraine – The 7th Level, QF-LLL – The 7th Level, FQ-EHEA – The Second Cycle
Duration	one semester
Workload	1 ECTS, 30 hours. For full-time course 10 hours are working hours with the lecturer (10 hours of seminars), 20 hours of the individual study.
Language(s)	English

2. Place in the study programme

Relation to curriculum	Compulsory course available for study programme "Medicine"
Prerequisites	Knowledge of human anatomy, histology, cytology and embryology, latin language and medical terminology, medical biology, medical and biological physics, medical chemistry, biological and bioorganic chemistry, physiology, microbiology, virology and immunology, pharmacology, medical informatics, Integrated course in fundamental disciplines, Ukrainian language
Additional requirements	There are no specific requirements
Restrictions	There are no specific restrictions

3. Aims

The aim of the discipline is to acquire fundamental theoretical and practical skills of professional activity of a nurse, mastering basic techniques on the basis of knowledge of main disciplines in compliance with the principles of medical ethics and deontology.

4. Contents

Topic 1 Moral and ethical principles of nursing in Ukraine. Ethical foundations of nursing. List of orders of the Ministry of Health of Ukraine, which regulate the activity of the nurse of the therapeutic department. Structure and functions of therapeutic department. Nursing duties of the

main units of the therapeutic hospital. List of documentation maintained by the nurse. Topic 2 Responsibilities and actions of the post and manipulation nurse of the therapeutic department. Organization of work as a nurses post. Documents to be filled in by the nurse and the rules for keeping them. Thermometry, blood pressure measurement, pulse testing. Provision of patients with medicines. Organization of work of the nurse of the manipulation cabinet. Rules of storage of medicines, medical instruments. Taking general blood test, blood test for sugar content, biochemical and bacteriological test. Technique for subcutaneous, intramuscular, intravenous injection. Rules of intravenous infusion. Topic 3 Duties of the nurse to ensure the diagnostic process in the therapeutic department. The basic rules of preparation of the patient for carrying out of a gastroscopy, a rektoromanoskopiya, a colonoscopy, an ultrasonic examination. The main types of enemas. Preparation of patients for feces taking on helminth eggs, hidden blood, coprogram. Rules of taking urine analysis. Preparation and carrying out of gastric and duodenal probes. Gastric lavage. Electrocardiogram registration methods and technique. Topic 4 Features of work of the procedure room of the therapeutic department and the duty of the nurse to provide them. Organization of nurse's work in procedure room. The main types of compresses. Rules of compressing. Technique for using the hot water bottle, bubble with ice. Rules for the use of inhalers. Acquaintance with carrying out physiotherapy procedures (hydrotherapeutic, light, electromagnetic). Topic 5 Final control modul Computer testing. Interview with assessment of practical skills.

5. Intended learning outcomes

After successful completion of the internship, a student will be able to:

LO1	Ability to collect medical information about the patient and analyze clinical data.
LO2	Ability to determine the required set of laboratory and instrumental studies and to evaluate their results.
LO3	Ability to establish a provisional and clinical diagnosis of disease.
LO4	Ability to determine the principles of treatment, treatment modality and prophylaxis.
LO5	Ability to diagnose medical emergencies.
LO6	Ability to determine the approach to emergency medical care.
LO7	Ability to determine the implement medical evacuation procedures.
LO8	Ability to perform medical procedures.
LO9	Adherence to ethical principles during the work with patients and/or laboratory animals.

6. Role in the achievement of programme learning outcomes

Programme learning outcomes:

For 222 Medicine:

PO1	To have profound knowledge of the structure of professional activity; to be able to carry out professional activities that require updating and integration of knowledge; to take responsibility for professional development and further professional training with a high level of self-sufficiency.
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PO4	To detect and identify the leading clinical symptoms and syndromes; to establish the most probable preliminary clinical diagnosis of diseases using standard methods, preliminary data of the patient's anamnesis, patient's examination data, and knowledge about a human, his organs and systems.
PO5	To collect information about the patient's complaints, anaemnesis vitae and morbi; to assess the patient's psychomotor and physical development and the state of organs and systems of the body; to assess information on the diagnosis based on laboratory, instrumental findings and patient age.
PO7	To order and analyze additional (mandatory and optional) examinations (laboratory, functional, and/or instrumental) in order to perform a differential diagnosis of diseases.
PO8	To detect the key clinical syndrome or the reason for patient's condition severity via informed decision and evaluation of the person's state under any circumstances (at a medical institution, outside it), including under emergency and military operation conditions, in the field, with a lack of information and limited time.
PO17	To perform medical procedures at a medical facility, at home or at work on the basis of a provisional clinical diagnosis and/or health parameters through making an informed decision and adhering to the relevant ethical and legal norms.
PO19	To plan and implement a system of anti-epidemic and preventive measures against the occurrence and spread of diseases among the population.
PO20	To analyze an epidemiological situation and carry out measures of mass and individual, general and local prevention of infectious diseases.
PO24	To organize an appropriate level of individual safety (own and of those cared for) in case of typical dangerous situations in the individual field of activity.

7. The role in the development of program competencies

For 222 Medicine:

PC1	GC 1. Ability to think abstractly, analyse, and synthesize.
PC2	GC 2. Ability to learn and master modern knowledge.
PC3	GC 3. Ability to apply knowledge in practical situations.
PC4	GC 4. Knowledge and understanding of the subject area and understanding of the professional activity.
PC5	GC 5. Ability to adapt and act in a new situation.
PC6	GC 6. Ability to make informed decisions.
PC7	GC 7. Ability to work in a team.
PC8	GC 8. Ability to engage in interpersonal interaction.
PC9	GC 12. Determination and persistence concerning tasks and responsibilities undertaken.

PC10	GC 15. Ability to preserve and enhance moral, cultural, and scientific values and achievements of society based on an understanding of the history and patterns of development of the subject area, its place within the general system of knowledge about nature and society, and in the development of society, engineering, and technologies; to utilize various types and forms of physical activity for active recreation and leading a healthy lifestyle.
PC11	SC 2. Ability to determine the required scope of laboratory and instrumental investigations and evaluate their results.
PC12	SC 3. Ability to establish provisional and clinical diagnoses of diseases.
PC13	SC 4. Ability to determine the appropriate work and rest regimen for the treatment and prevention of diseases.
PC14	SC 7. Ability to diagnose medical emergencies.
PC15	SC 8. Ability to determine management strategies and provide emergency medical care.
PC16	SC 9. Ability to execute medical evacuation and triage measures.
PC17	SC 10. Ability to perform medical procedures and manipulations.
PC18	SC 11. Ability to solve medical problems in new or unfamiliar environments amidst incomplete or limited information, incorporating aspects of social and ethical responsibility, including the early intervention system.
PC19	SC 14. Ability to plan and implement preventive and antiepidemic measures regarding infectious diseases.
PC20	SC 15. Ability to perform medical assessments of work capacity.
PC21	SC 17. Ability to assess the impact of environmental, socioeconomic, and biological determinants on the health status of individuals, families, and populations.
PC22	SC 25. Adherence to professional and academic integrity, assuming responsibility for the validity of obtained scientific results.

8. Learning activities

LA1	Preparation for practical classes
LA2	Self-study
LA3	Self-study activity implying tutorials and relevant information sources
LA4	Study of practice skills in clinics
LA5	Solving test tasks
LA6	Solving situational problems
LA7	E-learning in certain educational components: SSU platforms Mix learning, Lectur.ED and Google Meet, Zoom platforms
LA8	Practice on a phantom in the simulation center (to conduct an artificial lung ventilation and a closed-chest cardiac massage)

LA9	Practice on a phantom in the simulation center (to conduct anthropometric measurements, dripping drops in the ears and nose, toilet eyes, ears, mouth, feeding, washing)
LA10	Watching videos

9. Teaching methods

Provides learning through:

TM1	Practical training
TM2	Self-study
TM3	Problem-based learning
TM4	Team Based Learning
TM5	Case-based learning

Modern teaching methods (CBL, TBL) promotes the development of professional skills in the training of practice-oriented specialists.

10. Methods and criteria for assessment

10.1. Assessment criteria

National scale	Rating scale
5 (Excellent)	$170 \leq RD \leq 200$
4 (Good)	$164 \leq RD < 169$
4 (Good)	$140 \leq RD < 163$
3 (Satisfactory)	$127 \leq RD < 139$
3 (Satisfactory)	$120 \leq RD < 126$
2 (Fail)	$70 \leq RD < 119$
2 (Fail)	$0 \leq RD < 69$

10.2 Formative assessment

	Description	Deadline, weeks	Feedback
FA1 Discussion and development of self-esteem skills	Interaction based on the comparison of the current level of success with previous indicators in order to improve the results of educational activities.	During the entire period of studying the discipline	Adjusting learning approaches based on assessment results. Control of performance of practical skills.

FA2 Surveys and guidelines of the teacher who manages the practice	Determination of the level of acquired experience of educational activities in accordance with the set goals and reasons for inconsistency. Correction of the learning process.	During the entire period of studying the discipline	Forming an assessment based on the analysis of the specified indicators of educational activity.
FA3 Solve of situational exercises by students and their discussion	Formation of clinical thinking and independence in practical work	Independent performance of situational tasks by students in practical classes and their discussion	Evaluation of the student's ability to clinical thinking and justification of the decisions made. Determination of the level of theoretical training.
FA4 Checking and evaluating written assignments	Control of the level of theoretical training.	During the entire period of studying the discipline	Forming an assessment based on the analysis of the received information
FA5 Testing	Checking the level of assimilation of knowledge, skills and abilities from each topic.	During the entire period of studying the discipline	Forming an appropriate assessment on the basis of a certain level of theoretical training

10.3 Summative assessment

	Description	Deadline, weeks	Feedback
SA1 Overall score for current discipline	Assessment of written works, surveys, situational problems, testing. Determination of the level of acquired knowledge.	During the entire period of studying the discipline	A student can get a maximum of 120 points, a minimum of 72 points.
SA2 Overall score for final assessment: differentiated module	Candidates who have successfully mastered the material, passed practical skills and final computer testing are admitted to the differentiated module.	In the last lesson	The maximum number of points that the winner can get is 80 points, the minimum number of points is 48 points.

Form of assessment:

Form of assessment:

		Points	Можливість перекладання з метою підвищення оцінки
The first semester of teaching		200 scores	
SA1. Overall score for current discipline		120	
	Oral discussions, tests, independent solve of situational exercises by students and their discussion	48	No
	Practical skills	72	No
SA2. Overall score for final assessment: differentiated module		80	
	Practical skills	50	No
	Testing	30	No

The maximum number of points that a student can receive in practical classes during the semester - 120. For the final control the student can get a maximum of 80 points. The form of final control includes control of theoretical and practical training. The final module control is closed if student scored at least 48 points. In case a negative result, the student has the right to retake the final module twice. In case of the introduction of quarantine restrictions classes are conducted remotely with the use of educational platforms SSU Mix learning, Lectur.ED and platforms Google Meet, Zoom.

11. Learning resources

11.1 Material and technical support

MTS1	Library holdings
MTS2	Information and communication systems
MTS3	Computers
MTS4	Computer systems and networks
MTS5	Multimedia equipment
MTS6	Software (to support distance learning)
MTS7	Simulation center (phantom of the patient to practice the skills of artificial ventilation and indirect heart massage)
MTS8	Simulation center (techniques for intravenous, intramuscular, subcutaneous and intradermal injections, applying compresses, ointment dressings, etc.)
MTS9	Medical equipment (trays, tweezers, dilator, tongue holder, floor and table scales, horizontal and vertical height meter, centimeter tape for anthropometric research, tonometer, disposable consumables (gauze napkins, cotton balls))
MTS10	Educational video

Communal non-profit enterprise of the region council "Sumy Region Clinical Hospital", Simulation center SRMI, SSU Clinic

11.2 Information and methodical support

Essential Reading	
1	Harrison's Principles of Internal Medicine [Електронний ресурс]. Vol.1. — 21st ed. — New York : McGraw Hill, 2022. — 3855 p.
Supplemental Reading	
1	General patient care and medical manipulation techniques, University I-III years - 7th ed., Corrected. For order. V. I. Litvinenko., K.: Medicine, 2017. - 424 p.
2	Demikhova N., Chernatska O., Mazur T., Bokova S. et al. Markers of cardiovascular complications in patients with type 2 diabetes mellitus and arterial hypertension. Bangladesh Journal of Medical Science. - 2018.
3	Smith B. Nursing Care. An Essential Guide for Nurses and Healthcare Workers in Primary and Secondary Care / Smith B., Field L. – London: Routledge, 2019. – 348 p.
4	Big Data-Enabled Nursing [Електронний ресурс] : Education, Research and Practice / edited by Connie W. Delaney, Charlotte A. Weaver, Judith J. Warren, Thomas R. Clancy, Roy L. Simpson. — 1st ed. 2017. — Cham : Springer International Publishing, 2017. — XXXV, 488 p. 61 illus., 48 illus. in color.
5	Methodical instructions for practical exercises in the discipline «Nursing» / compilers: G.A. Sumtsov, S. I. Bokova. – Sumy : Sumy State University, 2020. – 30 p.
6	Methodical instructions for practical lessons on the topic «Fundamental skill soft patient care. Algorithms» on the discipline «Care of patients of the therapeutic profile» / compilers: T. M. Rudenko, S. I. Bokova. – Sumy : Sumy State University, 2022. – 38 p.
Web-based and electronic resources	
1	https://elearning.sumdu.edu.ua/works/6906/nodes/1816349
2	https://mix.sumdu.edu.ua/info/nmk/44e9a195-90ce-404d-b048-ad57b8feb244
3	https://www.coursera.org/programs/sums-kii-dierzhavonii-universitet-learning-program-b07jd
4	https://lib.sumdu.edu.ua/library

12. Bases

Bases of practice that will provide professional competencies and practical skills: Municipal non-profit enterprise of the city council " Sumy City Children's Clinical Hospital St. Zinaida", Communal non-profit enterprise of the region council "Sumy Region Clinical Hospital", Communal non-profit enterprise of the region council "Sumy Region Clinical for War Veterans", Sumy State University Clinic

13. Policies

13.1 Academic Integrity Policy

Participants must complete all tasks identified in the internship program independently. Reporting for passing the internship should not contain plagiarism, facts of fabrication, falsification, cheating.

During the internship period, manifestations of other types of academic dishonesty determined by the Academic Integrity policy are also unacceptable. If a supervisor reveals violations of academic integrity of students during the practice, he has the right to conduct one of the following actions:

- to reduce by up to 40% points received during the fulfillment of internship assignments;
- to give recommendations for a retake of submitted internship assignments with a decrease by up to 25% of received points;
- do not count the results of the internship without giving the right to revise them;
- appoint a retake with a decrease by up to 15% of received points;
- refuse to retake of internship

13.2 Політика щодо використання інструментів штучного інтелекту при виконанні завдань

Політика використання інструментів штучного інтелекту (ChatGPT, Tome тощо) оголошується викладачем на початку курсу.

It is prohibited to use artificial intelligence tools to prepare assignments specified in the syllabus and regulations of the academic discipline.

Несанкціоноване використання інструментів штучного інтелекту є порушенням академічної доброчесності.

13.3 Політика щодо використання матеріалів з джерел відкритого доступу

When students use materials from open access sources to prepare work specified in the syllabus and regulations of the academic discipline, they must comply with the terms of Creative Commons licenses for the use of copyrighted materials.

13.4 Attendance policy

Attendance to the internship base is mandatory. Supervisors from an enterprise (organization, institution) determine a student's schedule of stay at the internship base. All missed classes must be completed with a positive grade

13.5 Deadline and recompilation policy

Current grades and missed classes are added to the differentiated credit. A student who scored less than 72 points for the current educational activity has unworked points the class retry the relevant topics in the days allocated by the teacher. In case of unsatisfactory result, the student has the right to retake the differentiated assessment twice.

13.6 Assessment appeals policy

The results of the internship assessment are subject to appeal. For this, a student must submit a request to a director/dean on the day of certification or after announcing the results, but no later than the next working day.

An appeal commission is established by the order of a director/dean. The appeal commission's decision may change the grade in the event of violations revealed during the attestation.

COURSE DESCRIPTOR