



SYLLABUS OF DISCIPLINE
«PRACTICAL TRAINING «NURSING PRACTICE IN PEDIATRIC DEPARTMENT»»

1. GENERAL INFORMATION

Name of the faculty	Medical No 2
Education program (sector, speciality, education level, form of studies)	Education sector 22 "Public Health", specialities 222 "Medicine" second (Master) level of high education, stationary classes
Study year	2023 - 2024
Name of the subject, code (e-mail on the website of Danylo Halytskyi Lviv national medical university)	"Practical training «Nursing Practice in Pediatric Department»", BF 2.6 kaf_pedpropaedeutic@meduniv.lviv.ua
Department (name, address, phone number, e-mail)	Department of propaedeutics of pediatrics and medical genetics Address: 79008, Lviv, M. Lysenka Street, 31a Phone number: +38 (032) 260-01-88 e-mail: kaf_pedpropaedeutic@meduniv.lviv.ua
Head of the department (e-mail)	Prof. Lychkovska O.L. e-mail: Lychkovska_Olena@meduniv.lviv.ua
Year of studies (year of studies, when the subject is taught)	Third
Semester (semester, when the subject is taught)	VI semester
Type of the subject/module (obligatory/ optional)	optional
Teachers (names, surnames, science grades and titles of the teachers, who teach the subject, their e-mails)	Kulachkovska Iryna, PhD, Associate Professor Kulachkovska_Iryna@meduniv.lviv.ua
Erasmus yes/no (availability of subject for students within the program Erasmus+)	no
Responsible person for syllabus (the person, comments on syllabus should be directed to, e-mail)	Kulachkovska Iryna, PhD, Associate Professor Kulachkovska_Iryna@meduniv.lviv.ua
Amount of credits ECTS	5
Amount of hours of practice	150
Study language	English
Information about consultations	-
Address, phone number and regulations of the clinical base	Address: 79008, Lviv, M. Lysenka Street, 31a Phone number: +38 (032) 260-01-88

2. BRIEF SUMMARY FOR THE SUBJECT

"Practical training «Nursing Practice in Pediatric Department»" is the first clinical subject, during which students get acquainted with the work of children's medical institutions, have their first contact with patients, the formation of moral and ethical foundations for further professional behavior. "Practical training «Nursing Practice in Pediatric Department»" involves the study of hygienic, preventive and curative measures, which are a part of the competence of junior and partially paramedical staff of the pediatric ward and are used to create comfortable conditions for patients in the medical institution, cure patients as soon as possible, prevent the development of complications, as well as mastering the simplest manipulations of first aid in cases of emergency.

3. AIM AND OBJECTIVES OF THE SUBJECT

The purpose of "Practical training «Nursing Practice in Pediatric Department»": mastering of the basic techniques of professional life of the junior nurse by the student on the basis of deep knowledge and understanding of features of functioning of an organism of the sick child with observance of principles of medical ethics and deontology.

The main tasks of the "Practical training «Nursing Practice in Pediatric Department»" :

- mastering of the basic theoretical knowledge necessary for providing the comfortable conditions for a sick child in the hospital and providing the necessary care for it at all stages of treatment;
- acquisition of basic practical skills in caring for patients in a pediatric hospital
- acquisition of skills to assess the general condition of the patient, to determine the basic parameters of his body functioning, mastering the rules of ensuring the vital needs of the child;
- formation of students' skills of professional communication with sick children and their parents in compliance with moral, ethical and deontological norms.

Competences and learning results, the formation of which is facilitated by the Nursing Practice in Pediatric Department ". In accordance with the requirements of the Higher Education Standard, the practical training provides students with the acquisition of following competencies:

- **integral:**

ability to solve complex problems, including those of a research and innovation nature in the field of medicine. Ability to continue studying with a high degree of autonomy

- **general:**

1. Ability to abstract thinking, analysis and synthesis (GC1).
2. Ability to learn and acquire modern knowledge (GC2).
3. Ability to apply knowledge in practical situations (GC3).
4. Knowledge and understanding of the subject area and understanding of professional activity (GC4).
5. Ability to adapt and act in a new situation (GC5)
6. Ability to make informed decisions (GC6)
7. Ability to work in a team (GC7).
8. The skills of interpersonal interaction (GC8).
9. Ability to use information and communication technologies (GC10)
10. Ability to search, process and analyze information from various sources (GC11)
11. Definiteness and persistence in terms of tasks and responsibilities (GC12).
12. Awareness of equal opportunities and gender problems (GC13).
13. Ability to realize one's rights and responsibilities as a member of society, to be aware of the values of a civil (free democratic) society and the necessity for its sustainable development, the rule of law, the rights and freedoms of a person (GC14)
14. Ability to preserve and multiply moral, cultural, scientific values and achievements of society based on an understanding of the history and patterns of development of the subject area, its place in the general system of knowledge about nature and society and in the development of society, technology and technologies, to use various types and forms of motor activity for active recreation and healthy lifestyle (GC15)

- **special (professional):**

1. Ability to gather medical information about the patient and analyze clinical data (SC1).
2. Ability to determine tactics and provide emergency medical care (SC8).
3. Ability to perform medical manipulations (SC10).
4. Ability to carry out sanitary and hygienic and preventive measures (SC13).
5. Follow ethical principles during working with patients and laboratory animals (SC24)

Details of the competences are set out below in the matrix table of competences

The Matrix of Competence

No	Competence	Knowledge	Skills	Communication	Autonomy and responsibility
Integral competencies					
ability to solve complex problems, including those of a research and innovation nature in the field of medicine. Ability to continue studying with a high degree of autonomy					
General competencies					
1.	Ability	to	Know the methods of	Be able to analyze	Establish appropriate
					Be responsible for

	abstract thinking, analysis and synthesis	analysis, synthesis and further modern learning	information, make informed decisions, be able to acquire modern knowledge.	connections to achieve goals.	the timely acquisition of modern knowledge.
2.	Ability to learn and acquire modern knowledge	Know the current trends in the branch and analyze them	Be able to analyze professional information, make informed decisions, acquire modern knowledge.	Establish appropriate connections to achieve goals.	Be responsible for the timely acquisition of modern knowledge.
3.	Ability to apply knowledge in practical situations	Have specialized conceptual knowledge acquired in the learning process.	Be able to solve complex problems and problems that arise in professional activities	Clear and unambiguous communication of one's own conclusions, knowledge and explanations that substantiate them to specialists and non-specialists	Be responsible for making decisions in difficult conditions
4.	Knowledge and understanding of the subject area and understanding of professional activity	Have deep knowledge of the structure of professional activity	Be able to carry out professional activities that require updating and integration of knowledge.	Ability to effectively form a communication strategy in professional activities.	To be responsible for professional development, ability to further professional training with a high level of autonomy
5.	Ability to adapt and act in a new situation	Know the types and methods of adaptation, principles of action in a new situation.	To be able to apply means of self-regulation, to be able to adapt to new situations (circumstances) of life and activity	Establish appropriate connections to achieve results.	Be responsible for the timely use of self-regulatory methods
6.	Ability to make informed decisions	Know the tactics and strategies of communication, rules and ways of communicative behavior	Be able to make informed decisions, choose ways and strategies to communicate to ensure effective teamwork	Use communication strategies and interpersonal skills	Be responsible for the choice and tactics of communication.
7.	Ability to work in a team	Know the tactics and strategies of communication, rules and ways of communicative behavior	Be able to choose ways and strategies of communication to ensure effective teamwork	Use methods and strategies of communication to ensure effective teamwork.	Be responsible for the choice and tactics of communication.
8.	The skills of interpersonal interaction	Know the rules and methods of interpersonal interaction	Be able to choose ways and strategies of communication for interpersonal interaction	Use the skills of interpersonal interaction	Be responsible for the choice and tactics of communication.
10.	Ability to use information and communication technologies	Have deep knowledge in the field of information and communication technologies used in professional activities	Be able to use information and communication technologies in the professional field, which requires updating and integration of knowledge	Use informational and communication technologies in professional activity	Be responsible for the development of professional knowledge and skills.
11.	Ability to search, process and analyze information from various sources	Have deep knowledge in the field of information technologies used in professional activities	Be able to use information technologies in the professional field. Be able to search,	Use informational and communication technologies in professional activity	Be responsible for the development of professional knowledge and skills.

			and analyze information from various sources		
12.	Definiteness and persistence in terms of tasks and responsibilities	Know the responsibilities and ways to accomplish the tasks.	Be able to set goals and objectives to be persistent and conscientious in the performance of duties	Establish interpersonal relationships to effectively perform tasks and responsibilities	Be responsible for the quality of the tasks.
13.	Awareness of equal opportunities and gender problems	Know social and community rights and responsibilities in context of gender problems	To form one's civic consciousness, to be able to act in accordance with it.	Ability to convey one's public and social position.	Be responsible for own civic position and activities.
14.	Ability to realize one's rights and responsibilities as a member of society, to be aware of the values of a civil (free democratic) society and the necessity for its sustainable development, the rule of law, the rights and freedoms of a person	Know social and community rights and responsibilities	To form one's civic consciousness, to be able to act in accordance with it.	Ability to convey one's public and social position.	Be responsible for own civic position and activities.
15.	Ability to preserve and multiply moral, cultural, scientific values and achievements of society based on an understanding of the history and patterns of development of the subject area, its place in the general system of knowledge about nature and society and in the development of society, technology and technologies, to use various types and forms of motor activity for active recreation and healthy lifestyle	Know the basics of ethics and deontology To know the history and patterns of development of the subject area Know the basics of a healthy lifestyle	Be able to apply ethical and deontological norms and principles in professional activities Be able to promote the basics of a healthy lifestyle in professional activities actively	The ability to convey to patients, their families, colleagues their professional position	Be responsible for the implementation of ethical and deontological norms and principles in professional activities
Special competencies					
1.	Ability to gather medical information about the patient	To have specialized knowledge about child's organs and systems. Know	Be able to gather data about the patient's complaints, anamnesis of illness,	The ability to form effective communication strategy to communicate with patients and their	Be responsible for the quality of gathered information obtained on the basis

	and analyze clinical data	methods and standard schemes of interviewing procedure and physical examination of the patient. Know the methods of assessing the state of intrauterine development of the fetus. Know methods of assessment of psychomotor and physical development of a child	anamnesis of life based on algorithms and standards. Conduct physical examination of the patient. Be able to assess psychomotor and physical development of a child. Be able to assess a person's health condition (including child).	relatives. The ability to submit information about the health condition of the child to the medical documentation	of an interview, inspection, palpation, percussion of organs and systems and for correct assessment of the human health condition, psychomotor and physical development of a child and intrauterine development of the fetus and for the determination of appropriate measures
8.	Ability to determine tactics and provide emergency medical care	To have specialized knowledge about the structure of the child's body, its organs and systems; emergency medical care algorithm in case of cardiac and respiratory arrest	To be able to provide urgent medical assistance in an urgent condition - to conduct an cardiac compressions and artificial respiration	Explain the necessity and procedure of conducting medical emergency	Be responsible for the timeliness and quality of emergency medical care.
10.	Ability to perform medical manipulations	Knowledge about the child, his organs and systems. Know the principles of medical manipulations	Be able to perform medical manipulations	The ability to use knowledge about the child, his organs and systems, according to appropriate ethical and legal norms by making reasonable decisions and using standard techniques.	Be responsible for the choice and tactics of manipulation.
13.	Ability to carry out sanitary and hygienic and preventive measures	Know the system of sanitary and preventive measures in the pediatric hospital. Know the principles of organizing a nutrition in the pediatric hospital, principles and methods for promoting a healthy lifestyle	Be able to plan activities to prevent the spread of infectious diseases in the medical institution, its units, and use existing preventive and anti-epidemic methods. Be able to promote a healthy lifestyle	Know the principles of providing information about the sanitary and hygienic conditions of the hospital to the management of structural subdivisions of a medical institution;	Be responsible for the choice and tactics of sanitary and anti-epidemic measures
24	Follow ethical principles during working with patients and laboratory animals	Know the basics of ethics and deontology	To be able to apply ethical and deontological norms and principles in professional activity	Be able to convey one's professional position to patients, their family members, and colleagues correctly	To be responsible for the implementation of ethical and deontological norms and principles in professional activity

4. PREREQUISITES OF THE SUBJECT

The study of the subject "Practical training «Nursing Practice in Pediatric Department»" is held at the end of the III year (VI semester), when students acquire relevant knowledge in basic subjects: medical biology, human anatomy and physiology, bioorganic chemistry, which are integrated in the program.

Name of the subject	Acquired knowledge and skills
Biology	Ability to compile a pedigree
Normal anatomy	Knowledge of the proportions of body parts in children in different periods of childhood, the anatomical structure of the systems and organs of the child.
Histology	Knowledge of histological features of organs and systems of the child.

Normal physiology.	Knowledge of the laws of maturation and features of the functions of organs and systems of the child
Propaedeutics of pediatrics	Ability to communicate with the child, his relatives; collect a history of disease and life. Knowledge of the peculiarities of growth and development of the child at different ages. Anatomical and physiological features of organs and systems of children of different ages. Knowledge of the peculiarities of breastfeeding children in the first year of life and the organization of nutrition for children older than one year.
Practical training "Taking care of children in pediatric hospital"	Knowledge of the basic principles of organizing comfortable conditions for a sick child in the hospital and providing the necessary care for her at all stages of treatment. Ability to care for patients in a pediatric hospital, to determine and assess the general condition of the patient, the basic parameters of his life and the rules of ensuring the vital needs of the body.

5. PROGRAM RESULTS OF STUDIES

Compliance with standard defined results and competencies

Learning outcome (LO)	Code of the learning outcome	Code of competence
Have thorough knowledge about the structure of professional activity. To be able to carry out professional activities that require updating and integration of knowledge. To be responsible for professional development, the ability for further professional training with a high level of autonomy	LO-1	GC1, GC2, GC3, GC4, GC5, GC6, GC7, GC8, GC10, GC11, GC12, GC13, GC14, GC15
Understanding and knowledge of fundamental and clinical biomedical sciences, at a level sufficient for solving professional tasks in the field of health care.	LO-2	GC1, GC2, GC3, GC4, GC5, GC6, GC7, GC8, GC10, GC11, GC12, GC13, GC14, GC15
Specialized conceptual knowledge, which include scientific achievements in the field of health care and are the basis for conducting research, critical understanding of problems in the field of medicine and related interdisciplinary problems	LO-3	GC1, GC2, GC3, GC4, GC5, GC6, GC7, GC8, GC10, GC11, GC12, GC13, GC14, GC15
Gather complaints, anamnesis morbi and vitae, evaluate psychomotor and physical development of the patient, the state of the organs and systems of the body, based on the results of laboratory and instrumental studies, evaluate information about the diagnosis (according to list 4), taking into account the age of the patient	LO-5	GC1, GC2, GC3, GC7, GC8; SC1, SC24
Determine tactics and provide emergency medical care in emergency situations (according to list 3) in limited time conditions in accordance with existing clinical protocols and standards of treatment	LO-14	GC3, GC5, GC6, GC7, GC8; SC8, SC24
Perform medical manipulations (according to list 5) in the medical institution, at home according to clinical diagnosis and/or indicators of the patient's condition by making a reasoned decision, following the relevant ethical and legal norms	LO-17	GC3; SC10
Plan and implement a system of anti-epidemic and preventive measures regarding the occurrence and spreading of diseases among the population.	LO-19	GC1, GC2, GC3; SC13
Search for the necessary information in the professional literature and databases of other sources, analyze, evaluate and apply this information	LO-21	GC10, GC11

List of the results of studies

Code of the result of studies	Contents of the result of studies	Reference to the code of the competence matrix
Kn-1	Specialized knowledge about the person, the child, its organs and systems, knowledge of the methods and standard schemes of questioning and physical examination of the patient. Knowledge of the methods of assessing the state of fetal development. Knowledge of the stages and methods of examination of psychomotor and physical development of the child	LO-5
Sk-1	Collecting data on patient complaints, medical history, life history, at the health care facility or at the location of the sick child, using the results of an interview with the child, his parents or legal representatives according to a standard survey scheme.	LO-5
Com-1	Effective forming of a communication strategy when communicating with the patient. Including information about the child's health into the relevant medical records	LO-5
AR-1	Responsibility for the quality collection of information on the basis of interviews, survey, palpation, percussion of organs and systems and for timely assessment of human health, psychomotor and physical development of the child and fetal	LO-5

	development and for taking appropriate measures	
Kn-8	Specialized knowledge about the structure of the child's body, its organs and systems; algorithm for providing emergency medical care in emergencies (cardiac and respiratory arrest).	LO-14
Sk-8	Being able to provide emergency medical care in an emergency - to perform indirect heart massage and artificial respiration	LO-14
Com-8	Explaining the need and procedure for emergency medical care	LO-14
AR-8	Responsibility for the timeliness and quality of emergency medical care	LO-14
Kn-10	Specialized knowledge about the child, its organs and systems; knowledge of algorithms. Execution of medical manipulations provided by the program.	LO-17
Sk-10	Being able to perform medical manipulations provided by the program	LO-17
Com-10	Reasonable forming and informing the patient about specialists conclusions about the need for medical manipulations	LO-17
AR-10	Responsibility for the quality of medical manipulations.	LO-17
Kn-13	Knowledge of the system of sanitary and hygienic and preventive measures in a pediatric hospital. Knowledge of the principles of nutrition, principles and methods of promoting a healthy lifestyle	LO-19
Sk-13	Skills to organize sanitary and hygienic and medical and protective regimes of the main departments of the hospital. Being able to organize the promotion of a healthy lifestyle	LO-19
Com-13	Knowledge of the principles of providing information on the sanitary and hygienic condition of the premises and compliance with the general hospital and medical protection regimes to the management of the structural units of the medical institution; use of lectures and interviews	LO-19
AR-13	Responsibility for timely and high-quality measures to ensure sanitary and hygienic and medical and protective regimes of the main units of the hospital, promoting a healthy lifestyle.	LO-19
Kn-24	Know the basics of ethics and deontology	LO-5, LO-14
Sk-24	To be able to apply ethical and deontological norms and principles in professional activity	LO-5, LO-14
Com-24	Be able to convey one's professional position to patients, their family members, and colleagues correctly	LO-5, LO-14
AR-24	To be responsible for the implementation of ethical and deontological norms and principles in professional activity	LO-5, LO-14

Results of studies - a set of knowledge, skills, abilities, other competencies acquired by a person in the learning process, which can be identified, quantified and measured.

As a result of studying the subject "Practical training «Nursing Practice in Pediatric Department»" student **has to:**

Master the modern knowledge about:

- functional responsibilities and basic laws and regulations governing the work of a pediatric nurse;
- main principles of work of a junior medical personnel in a pediatric hospital
- features of deontology in the work of a nurse with children and their relatives
- structure and duties of the pediatric clinic
- main duties of a junior medical personnel in a pediatric hospital
- principles of organization of the nurse's post
- documentation to be completed by the nurse on duty and the rules of its maintenance
- rules for transferring duty to the next shift
- principles of organization of work of the nurse of a manipulation office
- rules for storage and accounting of medicines and medical instruments in the handling room and at the post
- rules for prescribing, accounting and storage of potent, narcotic and toxic substances in accordance with the current order
- principles of organization of work of the nurse of a procedural office
- rules for storing medical instruments in the treatment room
- rules for registration of patients admitted to the department
- rules for filling in the medical history
- principles of thermometry, blood pressure measurement, pulse research in children of different ages
- rules for oral administration of drugs to children
- rules for filling infusion and pre-infusion systems
- basic requirements for disinfection, pre-sterilization cleaning of instruments.
- complications during pre-injection, pre-injection injections, principles of their prevention.
- main types of enemas: indications for conducting

- rules of taking urine analysis for research according to the methods of Zymnytsky, Nechiporenko, Addis-Kakovsky, their diagnostic value
- rules for applying a warming compress
- rules for using pocket and stationary inhalers
- methods of giving children humidified oxygen and using an oxygen pillow.
- rules of preparation of sick children for X-ray examination of the gastrointestinal tract, urinary system, for endoscopic examination of the gastrointestinal tract.
- principles of emergency care for a child with laryngospasm and stenotic laryngitis, when a foreign body enters the respiratory tract, with an attack of bronchial asthma, convulsive syndrome, acute vascular insufficiency (fainting, collapse).
- method of stopping external bleeding.
- the main signs of clinical death
- principles of primary cardiopulmonary resuscitation (ABC rule): technique of indirect heart massage, artificial respiration in children of different ages.
- features of care for incurable patients with respiratory and digestive disorders; symptom control
- features of the nurse's work with incurable patients of different ages and their relatives, reports of bad news.
- rules for applying children to the breast during breastfeeding
- the technique of feeding a child from a bottle.

Be able to apply knowledge in practical situations:

- demonstrate mastery of moral and deontological principles of a medical specialist and the principles of professional subordination in the pediatric clinic
- make a conclusion about the state of physiological functions of the child's body, its systems and organs:
 - to determine the main indicators of the cardiovascular and respiratory systems (pulse, blood pressure, respiration)
- demonstrate mastery of the skills of organizing the regime and care for healthy and sick children, perform the necessary medical manipulations:
 - to demonstrate mastery of skills of the organization of work of the nurse of pediatric department
 - register patients admitted to the department
 - fill in the appropriate columns in the medical history
 - measure body temperature, blood pressure, examine the pulse and enter data into the temperature sheet
 - work with the appointment list.
 - to inject medicines through the mouth to children
 - insert a rectal suppository
 - prepare the manipulation table for work
 - perform subcutaneous, intramuscular, intravenous injections
 - calculate the dose of antibiotic
 - calculate the dose of analgesic
 - fill the infusion system and perform pre-infusions
 - to carry out disinfection, pre-sterilization cleaning of instruments
 - put a cleansing and therapeutic enema depending on the age of the child
 - to prepare patients and the necessary equipment for taking feces for helminth eggs, occult blood, coprogram
 - to collect urine for research according to the methods of Zymnytsky, Nechiporenko, Addis-Kakovsky
 - take swabs from the nose and throat
 - apply a warming compress
 - use a warmer, a blister with ice
 - use pocket and stationary inhalers
 - Give children humidified oxygen and use an oxygen pillow
 - gastric lavage
 - to carry out washing water collection for research
 - perform a pleural puncture
 - to prepare sick children for X-ray examination of the gastrointestinal tract, urinary system, for endoscopic examination of the gastrointestinal tract.
 - provide emergency care to the child with laryngospasm and stenotic laryngitis, when a foreign body enters the respiratory tract, with an attack of bronchial asthma, with convulsive syndrome, with acute vascular insufficiency (fainting, collapse).
 - stop external bleeding
 - to conduct primary cardiopulmonary resuscitation (ABC rule): indirect heart massage, artificial respiration in children of different ages.
 - to provide assistance to incurable patients with respiratory and digestive disorders, to control symptoms
 - take care of a newborn baby
 - to care for and observe patients with pathology of the skin, respiratory organs, cardiovascular system, gastrointestinal tract, urinary system.
 - to conduct a toilet of the newborn child
 - to conduct a toilet of the umbilical cord, to look after an umbilical wound.

- to carry out a hygienic bath for the infant
- wash children depending on gender
- wash your eyes, clean your nose, ears, instill drops in your nose, ears, eyes
- to put children to a breast at natural feeding
- to feed the child from a bottle.
- analyze the age characteristics of body functions and their regulation.
- demonstrate the ability to maintain medical records, accounting and reporting documentation.
- detect signs of clinical death, conduct cardiopulmonary resuscitation

6. FORMAT AND SCOPE OF THE DISCIPLINE

Study format	Stationary	
Type of classes	Number of hours	Number of groups
practice	150	3 groups (42 students)

7. TOPICS AND CONTENTS OF THE DISCIPLINE

Code of the class type	Topic	Contents of classes	Code of the results of studies	Teacher
P-1	Organization of a nurse's unit work in the pediatric department. Main documentation filled in by a nurse of the pediatric department. Basic responsibilities and activities of nurse in the pediatric department	<ul style="list-style-type: none"> • Deontology in the work of nurses with children and their relatives. Legislative and regulatory acts regulating the work of the nurse in the pediatric department • Structure and functions of pediatric hospital. Basic responsibilities and activities of nurse in the pediatric department. Organization of a nurse's unit work in the pediatric department. Main documentation filled in by a nurse of the pediatric department. Rules of transference of duties to the next shift. Organization of nurse's work in the procedure-room. • Rules of storage and registration of medicines and medical instruments in the pediatric department. Recording and storage of narcotics, barbiturates and toxic substances according to the acting legal order. Medication card of a patient • Organization of the work of the nurses in the manipulation room. Rules of storage of medical equipment in the manipulation room • Registration of patients admitted to the pediatric department. Filling in the history of illness. Thermometry, assessment of blood pressure, pulse rate and recording data of the patient in the observation record • Rules for administering oral medicines to children • The technique of the rectal installation, insertion of rectal suppositories. 	Kn-1 Sk-1 Com-1 AR-1 Kn-10 Sk-10 Com-10 AR-10 Kn-24 Sk-24 Com-24 AR-24	Kulachkovska Iryna, PhD, Associate Professor
P-2	Medication parenteral care for children. Calculation of the dose of an analgesic	<ul style="list-style-type: none"> • Rules of parenteral administration of medicines. Technique of intradermal, subcutaneous, and intramuscular injections. Calculation of antibiotic and analgesics dosages • Intravenous (IV) infusion. Rules of filling in of an intravenous administration set. Basic requirements to disinfection and pre-sterilization cleaning of tools • Major complications of intramuscular, intravenous injections, prevention and aid 	Kn-10 Sk-10 Com-10 AR-10 Kn-13 Sk-13 Com-13 AR-13 Kn-24 Sk-24 Com-24 AR-24	
P-3	Providing therapeutic and	<ul style="list-style-type: none"> • Cleansing and treating enemas 	Kn-10	

	diagnostic process in pediatrics hospital	<ul style="list-style-type: none"> Obtaining urine and stool specimens for laboratory analysis: feces for ova of parasites, coprological test, feces for occult blood; Zimnitskiy, Nechyporenko and Addis tests. The technique of taking smears from the nose and throat Rules of applying warming compresses, hot-/ice-bag Rules of using handheld and stationary inhaler. Principles of giving moist oxygen to children of different ages, using oxygen bag Carrying out gastric lavage in pediatric practice Pleural puncture. Preparing patients for X-ray studies of upper and lower gastrointestinal tract, of urinary tract, and for endoscopic examination 	Sk-10 Com-10 AR-10 Kn-13 Sk-13 Com-13 AR-13	
P-4	Responsibilities of a nurse in providing personal hygiene for children of different age and in feeding infants	<ul style="list-style-type: none"> Taking care and monitoring patients with pathology of the skin, respiratory system, cardiovascular system, gastrointestinal tract, urinary system. Peculiarities of nursing of terminally ill children with limited prognosis. Moral and deontological principles in the context of incurable disease. Organization of the care of bedridden patients - privacy, dignity and physiological needs. Transportation, changing of the body position of terminally ill patient Bed comfort, bed sores: care, prevention and treatment. Hair, eyes, nose, ears, umbilical wound care of a newborn baby. Main principles of bathing of a baby. Perineal and genital care for female and male patients. Instillation of nasal, ophthalmic and ear's drops. Feeding of babies: technique of breast feeding and bottle feeding. 	Kn-1 Sk-1 Com-1 AR-1 Kn-10 Sk-10 Com-10 AR-10 Kn-13 Sk-13 Com-13 AR-13	
P-5	The first aid in urgent states in pediatric practice	<ul style="list-style-type: none"> The first aid in laryngospasm and spasmodic croup, foreign body in the airways, asthma attack, convulsive syndrome, syncope, collapse Termination of external bleeding Emergency care for SARS-CoV-2 in children Main signs of clinical death. An initial cardiopulmonary resuscitation (ABC): technique of external cardiac compression, artificial respiration. Peculiarities of the first aid for terminally ill children with impaired respiratory function and digestive system disorders. Control of symptoms. 	Kn-1 Sk-1 Com-1 AR-1 Kn-8 Sk-8 Com-8 AR-8 Kn-10 Sk-10 Com-10 AR-10	

Learning methods

Studying the subject "Practical training «Nursing Practice in Pediatric Department»", varieties of teaching methods recommended for the higher school are used, namely:

- according to the sources of knowledge: verbal (explanation, conversation, discussion); visual (demonstration); practical (practical work, mastering practical skills);
- according to the logic of the educational process: analytical (definition of the general condition of the patient and the main signs of the disease), synthetic (to determine the relationship of the main features of the disease, to determine the most

optimal measures to ensure effective care for patients), their combination - analytical and synthetic, as well inductive method, deductive method, their combination;

- according to the level of independent mental activity: problem level, partly-searching level, researching level

The practical training is planned to be held in the pediatric ward at the end of VI semester in summertime (June – July). Duration of training is three working weeks. The internship is regulated by the calendar schedule of the internship, which is made in accordance with the tasks of the internship and the topic of work by the head of the internship from the Department of Propaedeutics of Pediatrics and Medical Genetics and the organization together with the intern. Student's daily activity consists of two parts:

- mastering theoretical material on the specifics of the function of the pediatric hospital and main manipulations; working out them under the control of both supervisor from the University and the one from the Hospital;
- independent work of student in the pediatric hospital departments and consolidation of the knowledge and skills (self-study of students). The independent work of students occupies an important place in the study of the subject, and its effectiveness should be ensured by teachers and support staff of the department where the subject is taught.

8. VERIFICATION OF THE RESULTS OF STUDIES

Methods and forms of monitoring and evaluation students' knowledge are carried out in accordance with the requirements of the Program and Instructions for evaluating the students' educational activity in the context of the implementation of the European Credit Transfer System for the organization of the educational process, approved by the Ministry of Health of Ukraine (letter No. 08.01-47/10395 dated 15.04.2014).

Assessing students' knowledge, preference is given to standardized control methods: testing (written), work with standard medical documentation, standardized controlling practical skills.

Current control

Code of the results of studies	Code of the class type	Method of verifying of the results of studies	Criteria for passing
Kn-1, Sk-1, Com-1, AR-1 Kn-10, Sk-10, Com-10, AR-10 Kn-24, Sk-24, Com-24, AR-24	P-1	The implementation of practical skills is checked daily by the immediate supervisor of the practice from the base and endorses their implementation in the student's practice diary. The head of practice from the University systematically monitors the diaries of students.	The assessment for current activity consists of the sum of points for the student's performance of 24 practical skills, which are checked by the direct supervisor from the practice base (maximum 120 points (24 x 5) - minimum 72 points (24 x 3)).
Kn-10, Sk-10, Com-10, AR-10 Kn-13, Sk-13, Com-13, AR-13 Kn-24, Sk-24, Com-24, AR-24	P-2		
Kn-10, Sk-10, Com-10, AR-10 Kn-13, Sk-13, Com-13, AR-13	P-3		
Kn-1, Sk-1, Com-1, AR-1 Kn-10, Sk-10, Com-10, AR-10 Kn-13, Sk-13, Com-13, AR-13	P-4		
Kn-1, Sk-1, Com-1, AR-1 Kn-8, Sk-8, Com-8, AR-8 Kn-10, Sk-10, Com-10, AR-10	P-5		

Criteria for grading the study activities:

- grade "excellent" (**5 points**) is given in the case when the student has fully obtained the theoretical principles of learned practical actions, illustrating the answers with various examples; can give comprehensively accurate and clear answers without any leading questions; spreads the material without errors and inaccuracies; freely solve situational problems of various degrees of complexity; methodically correctly demonstrate the practical skills provided by the program and act correctly in modulated clinical situations; take the initiative to act during the independent part of the working day of production practice, performing a larger amount of work than the planned minimum number of manipulations and procedures;
- grade "good" (**4 points**) is given when the student knows the content of the topic and understands it well, answers the questions correctly, consistently and systematically, but not fully, although the student answers additional questions without mistakes; solves all situational problems, experiencing difficulties only in the most difficult cases; performs practical skills provided for mastering, but may assume some insignificant mistakes, which he corrects himself; actively works during the independent part of the working day of production practice, performing the planned minimum of manipulations and procedures;
- grade "satisfactory" (**3 points**) is given to the student on the basis of his knowledge of the main content of the topic and at a satisfactory level of understanding, automatic acquisition of the most important practical skills. The student is able to solve modified (simplified) problems with the help of leading questions; solves situational problems, experiencing difficulties in simple cases; the student is not always able to systematically state the answer on his / her own, but answers the questions directly; able to perform basic practical tasks and act in simulated clinical situations only after appropriate comments and assistance from the teacher; when conducting independent work there are difficulties that the student can potentially solve with the help of a teacher or medical staff of the hospital;
- grade "unsatisfactory" (**0 points**) is given in cases where the knowledge and skills of the student do not meet the requirements of the grade "3 points"; the student behaves passively during independent work, has obvious difficulties in

solving situational problems, learning practical skills, is unable to make decisions and act in typical clinical situations, even after appropriate comments and correction of the teacher.

Scheme of calculation and dividing of the points, that students get:

The maximum number of points that a student can score for the current academic activity for admission to the differentiated test is 120 points.

The minimum number of points that a student must score for the current academic activity for admission to the differentiated test is 72 points.

The calculation of the number of points is based on the sum of the grades received by the student for each practical skill (in the amount of 24) on a 4-point scale.

Final control

General grading system	Participation during the semester / final control - 60% / 40% on a 200-point scale
Grading scales	Traditional 4-point scale, multi-point (200-point) scale, ECTS rating scale
Conditions for admission to the final control	Student attended the practice every day and received at least 72 points for current performance

Type of the final control	Methods of final control	Criteria
Differential test	Final control, in accordance with the requirements of the internship program, in the form of a differential test, students make a commission on the last day of internship, which includes practice leaders from the University and, if possible, from the bases of practice. Means of diagnostics of mastering the material are test tasks (the student is offered 40 tests of A format).	<p>According to answer to the MCQ control - 80 points (2 points for each correct answer)</p> <p>Final Control is accepted if student's score is 50 or more points and is not accepted if student's score is less than 50 points.</p> <p>Thus, the maximum number of points that a student can receive during the final control is 80, the minimum total score for the final control is 50 points.</p>

The grade for the internship consists of the sum of points for the student's performance of 24 practical skills, which are checked by the direct supervisor from the base of practice (maximum 120 points (24 x 5) - minimum 72 points (24 x 3)), and points for the final control conducting a differentiated test (maximum 80 points - minimum 50 points).

The maximum number of points that a student can receive in the subject (current learning activities and final control) is 200 points

The minimum number of points that a student can receive in the subject (current educational activities and final control) is - 122 points.

Points from the subject are independently converted into both the ECTS scale and the 4-point scale. ECTS scale scores are not converted to a 4-point scale and vice versa.

The grades of students in one specialty are ranked according to the ECTS scale as follows:

ECTS grade	Statistical indicator
A	Best 10 % students
B	Next 25 % students
C	Next 30 % students
D	Next 25 % students
E	Last 10 % students

Ranking and grading "A", "B", "C", "D", "E" is carried out for students of this course who study in one specialty and have successfully completed the subject. Students who receive grades FX, F ("2") are not included in the list of ranked students. Students with an FX grade automatically receive an "E" grade after retaking.

Subject grades for students who have successfully completed the program are converted into a traditional 4-point scale according to the absolute criteria, which are given in the table below:

Points for the subject	Grade on the 4-point scale
From 170 to 200 points	5
From 140 to 169 points	4
From 139 points to minimum amount of points the student has to gain (122)	3
Less than a minimum amount of points the student has to gain (122)	2

The ECTS grade is not converted to the traditional scale, as the ECTS scale and the four-point scale are independent.

The objectivity of the assessment of students' learning activities is checked by statistical methods (correlation coefficient between ECTS assessment and assessment on a national scale).

The procedure for considering the appeal of a higher education applicant

In the case of disagreement of the student with the final evaluation, repassing of the differential credit is carried out in the presence of a commission consisting of three teachers, including head of the department. If the incident is not resolved, the information is submitted to the dean's office.

9. COURSE POLICY

The policy of the subject is determined by the system of requirements for the student during the internship "Practical training «Nursing Practice in Pediatric Department»" and is based on the principles of academic integrity. Students are explained the value of acquiring new knowledge, academic standards that must be followed, why they are important, what is academic integrity, what are its values and functions, how students can contribute to its development by their actions; the essence, features and reasons of inadmissibility of academic plagiarism are explained, students of higher education are encouraged to perform educational tasks independently, to correctly refer to sources of information in case of borrowing of ideas, statements, information.

Applicants for higher education must have perfect clinical thinking, fundamental and special knowledge and skills to organize comfortable conditions for a sick child in the hospital and provide the necessary care for her at all stages of treatment, to form moral, ethical and deontological qualities in professional communication with sick children.

"Practical training «Nursing Practice in Pediatric Department»" is optional for students majoring in 222 "Medicine ". The student is obliged to fully master the knowledge, skills, practical skills and competencies in this subject.

Policy on adherence to the principles of academic integrity of students:

- the student's compliance with the student's code of ethics
- independent performance of educational tasks of final control without the use of external sources of information, except as permitted by the teacher, preparation of practical tasks during the class;
- write-offs during control are prohibited (including with the use of mobile devices);
- if student does not follow rules of academic integrity during the final control, information about such case is submitted to the dean's office for consideration;
- a report documenting a student's systematic violation of academic integrity is submitted to the dean's office.

Policy on adherence to the principles and norms of ethics and deontology by students:

- actions in professional and educational situations from the standpoint of academic integrity and professional ethics and deontology;
- compliance with the rules of internal regulations of the clinical base of the department, to be tolerant, friendly and balanced in communication with students and teachers, patients, medical staff of health care institutions;
- awareness of the importance of examples of human behavior in accordance with the norms of academic integrity and medical ethics.

Attendance policy for students:

- the presence of the student every day of practice is mandatory for the purpose of current and final assessment of knowledge (except in cases for a good reason).

10. SUGGESTED READINGS

1. Curriculum in Palliative Care for Undergraduate Medical Education : Recommendations of the European Association for Palliative Care [Electronic resource] / Milano, EAPC, 2007. – 24 p. - Access mode: <http://www.eapcnet.eu/LinkClick.aspx?fileticket=VmnUSgQm5PQ%3D>.
2. EAPC Atlas of Palliative Care in Europe [Electronic resource]/ [C. Centeno, D. Clark, T. Lynch et al.] – Houston : IAPHC Press, 2007. – 340 p. – Access mode: <http://www.eapc-taskforce-development.eu/documents/taskforce/ATLAS-EAPC-2007.pdf>.
3. Essential Competencies For Patient Care / ed. by Mary Elizabeth Milliken, BSN, MS, Ed. D., Gene Campbell, BSN, M.Ed. – The C. V. Mosby Company, St. Louis, Toronto, Princeton, 1985. – P. 685 – 716.
4. Fundamentals of Nursing (Concepts and Procedures) / ed. by Barbara Kozier, BA, BSN, RN, MN; Glenora Erb, BSN, RN. – Addison – Wesley Publishing Company, Nursing Division, Menlo Park, California, 1983. – P. 13 –15, 21 – 32, 39 – 46, 49 – 51, 233 – 256, 414 – 416, 444 – 446, 451 – 465, 485, 491 – 529, 531 – 534, 935 – 938, 942 – 947, 952 – 981.
5. Fundamentals of Nursing, 10th Edition by Patricia A. Potter, RN, MSN, PhD, FAAN, Anne Griffin Perry, RN, MSN, EdD, FAAN, Patricia A. Stockert, RN, BSN, MS, PhD and Amy Hall, RN, BSN, MS, PhD, CNE / Elsevier. – 2021. – 1440 p
6. Practical Guide To The Care Of The Pediatric Patient: Practical Guide / Anthony J. Alario MD, Jonathan Birnkrant MD s // Mosby; 2nd edition, 2007. – 976 p.
7. Pediatric Nursing: Scope and Standards of Practice, 2nd Ed. – 2015. - 212 p.
8. Recommendation of the Committee of Ministers to member states on the organisation of palliative care [Electronic resource] / Council of Europe. – 2003. - Access mode: [http://www.coe.int/t/dg3/health/Source/Rec\(2003\)24_en.pdf](http://www.coe.int/t/dg3/health/Source/Rec(2003)24_en.pdf).
9. White Paper on standards and norms for hospice and palliative care in Europe [Electronic resource]/ Recommendations from the European Association for Palliative Care. Part I // Eur. J of Palliative Care. – 2009. – # 16 (6). - Access mode: <http://www.eapcnet.eu/LinkClick.aspx?fileticket=f63pXXzVNEY%3D&tabid=735>.
10. White Paper on standards and norms for hospice and palliative care in Europe [Electronic resource] / Recommendations from the European Association for Palliative Care. Part II // Eur. J of Palliative Care. – 2010. – # 17 (1). - Access mode: <http://www.eapcnet.eu/LinkClick.aspx?fileticket=f63pXXzVNEY%3D&tabid=735>.

11. Recommendations of the European Association for Palliative Care (EAPC) For the Development of Undergraduate Curricula in Palliative Medicine At European Medical Schools [Electronic resource]: report of the EAPC Steering Group on Medical Education and Training in Palliative Care. - Edition 2013. - Access mode:
https://mail.rambler.ru/m/folder/INBOX/7271.2/download/id/EAPC_UndergraduateCurriculumUpdate2013.pdf

Information Resources

1. [https://www.pediatricnursing.org/article/S0882-5963\(17\)30387-1/fulltext](https://www.pediatricnursing.org/article/S0882-5963(17)30387-1/fulltext)
2. <http://www.jnc.gov.jo/Documents/PEDIATRIC1.pdf>
3. <http://zakon1.rada.gov.ua/>
4. <http://moz.gov.ua>
5. <http://www.eapcnet.eu/>
6. <http://www.eapc-taskforce-development.eu/>
7. [http://www.coe.int/t/dg3/health/Source/Rec\(2003\)24_en.pdf](http://www.coe.int/t/dg3/health/Source/Rec(2003)24_en.pdf)
8. <http://www.meddean.luc.edu/lumen/meded/medicine/pulmonar/pd/contents.htm>
9. <http://meded.ucsd.edu/clinicalmed/>
10. http://archive.nbuv.gov.ua/portal/soc_gum/vzhdu/2011_57/vip_57_13.pdf
11. http://archive.nbuv.gov.ua/portal/chem_biol/Mosv/2012_4/data/article22.pdf
12. http://archive.nbuv.gov.ua/portal/Soc_Gum/Npd/2012_1/2neranov.pdf

11. EQUIPMENT, MATERIAL AND TECHNICAL SUPPORT OF THE SUBJECT

Methodical support

- Academic programme of discipline
 - Plan of practice
 - Sample of Diary of Practical Training "Nursing Practice in Pediatric Department"
 - Methodological guides for preparing to every topic
 - Methodological support for the final control:
- bank of the MCQ;
- the list of practical skills.
- Phantom of a newborn child
 - Phantom for training skills of performing different injections

MCQ, study cases, which are used to evaluate the success of practical training, are based on a list of issues and practical skills that student must to assimilate when studying the discipline "Nursing Practice in Pediatric Department"

The List of Practical Skills gained during the practice

"Practical training «Nursing Practice in Pediatric Department»"

1. Talking to sick children and their relatives. Interviewing sick children, filling out the front page of a History of Illness
2. Conducting the initial examination of a sick child in the admission department, and inspection for scabies, pediculosis*. Conducting sanitary measures for the patient in the admission department*
3. Transporting a sick child by wheelchair or stretcher, moving gravely sick to a bed*. Demonstrating use of functional bed and providing a comfortable position of the patient*
4. Preparing disinfectants and demonstrating sanitary measures for wards, of bedside tables and windowsills, of manipulation room in the hospital department, for reusable medical devices (jars, thermometers, enemas, bedpans), disinfection of linen after using it, objects for taking care of a child
5. Preparing appropriate dishes for obtaining urine samples for routine urinalysis, for Zimnitskiy, Nechyporenko and Addis tests, their transportation to the laboratory
6. Preparing appropriate dishes for obtaining feces for tests for ova of parasites, for occult blood, coprogram, their transportation to the laboratory
7. Conducting anthropometric measurements: body weight and length, head and chest circumferences
8. Assessing respiratory rate, heart rate, blood pressure of children of different age, measuring body temperature of children and evaluate results, filling in data to the temperature sheet
9. Preparing clothes for the baby and demonstrating change of diapers, underwear and linen*
10. Preparing appropriate tools and demonstrating genital hygiene of a child depending on gender*
11. Preparing appropriate tools and demonstrating carrying out hygienic, therapeutic baths*
12. Preparing appropriate tools and demonstrating taking sanitary care of eyes, nose, ears, oral cavity of infants, applying eye and nasal drops for children, rinsing the nose*
13. Preparing appropriate devices for treating the umbilical wound*
14. Preparing necessary equipment and carrying out cleansing enema for children of all ages*, disinfection and storage of equipment for enemas tube for gas removing
15. Using the bedpan, urinal, tube for gas removing*
16. Taking care for skin and mucous membranes of critically ill children, preparing and demonstrating necessary measures for prevention of bedsores*
17. Using handheld and stationary inhaler*
18. Giving moist oxygen to children of all ages, using oxygen bag*

19. Familiarization with the formation of diet tables, delivery and distribution of food in the department, control over food intake*
20. Assisting mother during breastfeeding
21. Demonstrating technique of feeding the sick bedridden child*
22. Demonstrating technique of feeding infants with bottle and spoon*, preparing milk formula*
23. Washing and disinfecting tableware, collecting, storage and elimination of food waste
24. Carrying out the simplest resuscitation (CPR, chest compressions)*, providing emergency assistance and resuscitation measures for terminally-ill patients*, first aid for syncope, main measures in care of children with fever. Emergency care for SARS-CoV-2 in children

12. ADDITIONAL INFORMATION

Every day during the internship the student must have a proper appearance, namely: to be dressed in a medical gown and hat, to have changeable shoes and a medical mask, because the educational process takes place on a clinical basis. global network) and office equipment for communication with teachers and preparation (printing) of a practice diary

Information materials related to the educational and organizational process (thematic plan of practice, practice schedule) are available on the website of the Department of Propaedeutics of Pediatrics and Medical Genetics: <https://new.meduniv.lviv.ua/kafedry/kafedra-propedevtyky-pediatrici-ta-medychnoyi-genetyky/>

Educational and methodological developments for preparation for practice, self-control are available on the MISA platform in the section "Distance Learning" on the website of LNMU named after Danylo Halytsky: <http://misa.meduniv.lviv.ua/login/index.php>

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