

DANYLO HALYTSKYI LVIV NATIONAL MEDICAL UNIVERSITY

Department of Propaedeutic Pediatrics and Medical Genetics

Head of the department: *Lychkovska O.L., MD, Professor*

DIARY OF PRACTICAL TRAINING
«Nursing Practice in Pediatric Department»

Student's name _____

Faculty: medical Year III Group No _____

Hospital _____

Lviv - 20__

Student _____

(name)

is undergoing practical training "Nursing Practice in Pediatric Department" at the _____

(name of the hospital)

in _____

(city, region, country)

Term of practice: since _____.____ till _____.____ 20__.

Supervisor from the University _____

(name)

Supervisor from the Hospital _____

(name)

Direct supervisor from the Hospital _____

(name)

Student arrived on "____" _____ 20__ left "____" _____ 20__

Signature of the Supervisor from the Hospital _____

(Stamp)

GENERAL INFORMATION

According to the curriculum for the third-year students of the medical faculty for the training of specialists of the 2nd Master of Medicine level of high education, education sector 22 "Public Health", speciality 222 "Medicine", practical training is planned to hold in the 4th semester in June –July. Duration of training in pediatric hospital is 3 working weeks, (5 credits).

Students assist nurses at the pediatric inpatient departments in the regional, city or district hospitals. Students are working up to 6 hours daily for 5 days during week. Educational guidance and supervision of the student's work is carried out by both supervisor from the University and the one from the Hospital. Direct supervisors of students are nurses of the departments of the hospital.

Student upon leaving for the practical training should receive referral for practical training, instructions, program and diary of practical training from the supervisor from the University. A student, arriving to the medical institution, has to submit diary of practical training to the supervisor from the Hospital, undergo safety training, clarify the plan of training. Students are personally responsible for failure of training. During the practice students have to fulfill their responsibilities and comply with internal regulations. At the beginning of practical training students receive safety training according to the procedure approved by this medical institution. During practical training the student should work and comply strictly with safety rules; fully implement the tasks under the program of practical training; prepare reporting documentation (diary journal, final report) and pass final control (differential test) during this period.

Practical training of student is evaluated according to 4-score system. Student who has not fulfilled the program of practical training, received negative comments from supervisors, failed to submit final report is going to be expelled from the University.

The Aim of practical training "Nursing Practice in Pediatric Department" is mastering of the basic professional activities of the middle medical personnel based on the knowledge about peculiarities of the functioning of the sick child's organism in accordance with the principles of medical ethics and deontology

Objectives of practical training "Nursing Practice in Pediatric Department" are:

- mastering of the basic theoretical knowledge necessary for the organization of comfortable conditions for a sick child in a hospital and ensuring the necessary care for him/her during all stages of treatment;
- acquisition of basic practical skills of the nursing in a pediatric hospital and of the ability to determine and assess the general condition of the patient, the main vital parameters and the rules for the providing vital needs of the organism
- formation of moral-ethical and deontological qualities for professional communication of students with sick children

As a result of studying the discipline "Nursing Practice in Pediatric Department, student **has to**:

I. Master the modern knowledge about:

- responsibilities of a nurse in the pediatric department, basic law aspects of nurse activities in the pediatric department
- principles of organization of a nurse's unit work in the pediatric department.
- peculiarities of deontology in the work of nurses with children and their relatives
- structure and functions of the pediatric hospital
- 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
- legal aspects of drug administration
- rules of registration of patients admitting to the pediatric department
- rules of filling in medical report (history of illness)
- principles of thermometry, assessment of blood pressure, pulse rate in children of different ages
- rules of oral administration of medicines to children
- rules of filling intravenous set for infusion and administering intravenous injections
- basic principles of disinfection and presterilization cleaning of tools before

- complications of intramuscular and intravenous injections, principles of their prevention
- main types of enemas
- rules of obtaining urine for Zimnitskiy, Netchyporenko, Addis tests, and their diagnostic value
- rules of applying warming compressions
- rules of using handheld and stationary inhaler
- principles of giving moist oxygen to children of different ages, using oxygen bag
- preparing patients for X-ray studies of upper and lower gastrointestinal tract, urinary tract, and for endoscopic examination of GIT
- the first aid for spasmodic croup and laryngospasm, foreign body in the airways, asthma attack, convulsions, syncope, external bleeding
- the main signs of clinical death
- an initial cardiopulmonary resuscitation (ABC): technique of external cardiac compressions and artificial respiration in children of different ages
- assisting terminally ill patients with impaired respiratory function and digestion
- principles of working with terminally ill patients, their family members and close ones
- psychological support of family members and close ones of terminally ill patients in distress period
- organization of care for terminally ill patients: providing privacy, dignity and physical needs.
- transportation, changing body position for terminally ill patient
- bedsores: care, prevention and treatment
- rules of breastfeeding
- rules of feeding infants with bottle and spoon

II Be able to apply knowledge in practical situations:

1. Demonstrate the moral and deontological principles of the medical specialist and the principles of professional subordination in the pediatric hospital

2. To make a conclusion about physiological functions of the organism of the child, his/her systems and organs:

- to determine the basic vital signs (pulse, blood pressure, respiration)

3. Demonstrate the skills of the organization of the mode and care for healthy and sick children, perform the necessary medical manipulations:

- demonstrate the skills of organization of the activities of nurse in the pediatric department
- register patients admitted to the pediatric department
- fill in the required information in the history of illness
- demonstrate the skills and rules of the assessment of respiratory and heart rates, blood pressure and fill in this information in the graphic observation record
- introduce oral medications
- insert rectal suppositories
- prepare manipulation table for work
- perform subcutaneous, intramuscular, intravenous injections
- calculate the dose of antibiotic
- calculate the dose of analgesic drug
- fill of an intravenous administration set
- carry out disinfection and presterilization cleaning of tools
- carry out a cleansing and therapeutic enema depending on the age of the child
- prepare patients and necessary equipment for obtaining feces for ova of parasites, occult blood, coprology
- obtaining urine samples for Zimnitskiy, Netchyporenko, Addis tests
- take swabs from the nose and throat
- apply warming compresses
- use hot-/ice-bag
- use handheld and stationary inhalers

- give the children humidified oxygen and use oxygen bag
 - carry out gastric lavage in pediatric practice
 - carry out pleural puncture in pediatric practice
 - prepare sick children for X-ray studies of the gastrointestinal tract, urinary tract, and for GIT endoscopy
 - provide the first aid in laryngospasm and spasmodic croup, foreign body in the airways, asthma attack, convulsive syndrome, syncope, collapse
 - stop external bleeding
 - carry out initial cardiopulmonary resuscitation (ABC): external cardiac compressions, CPR in children of different ages.
 - assist terminally ill patients with impaired respiratory function and digestive system disorders, control vital signs
 - care for a newborn baby
 - care and monitoring of patients with pathology of the skin, respiratory and cardiovascular disorders, diseases of gastrointestinal and urinary systems
 - care for the umbilical wound
 - carry out hygienic bath for infant
 - carry out genital hygiene of a child depending on gender
 - clean eyes, nose; instill nasal, ear's, ophthalmic drops
 - assisting mother during breastfeeding
 - feeding infants with bottle and spoon
4. To analyze the age-specific features of the organism's functions and their regulation.
 5. Demonstrate the ability to fill in medical records.
 6. Detect signs of clinical death, conduct cardiopulmonary resuscitation

PLAN OF PRACTICAL TRAINING

No	Topic	Hours	Date	Flagging about enrollment	Signature of supervisor from the Hospital
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	15 (3 work days)			
2	Medication parenteral care for children. Calculation of the dose of an analgesic	15 (3 work days)			
3	Providing therapeutic and diagnostic process in pediatrics hospital	15 (3 work days)			
4	Responsibilities of a nurse in providing personal hygiene for children of different age and in feeding infants	15 (3 work days)			
5	The first aid in urgent states in pediatric practice	13 (3 work days)			
6	Final control (differential test)	2			
	TOTAL	75 (3 weeks)			

Topic 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.

- 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.

Topic 2. Medication parenteral care for children. Calculation of the dose of an analgesic

- 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

Topic 3. Providing therapeutic and diagnostic process in pediatrics hospital

- Cleansing and treating enemas
- 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.

Topic 4. Responsibilities of a nurse in providing personal hygiene for children of different age and in feeding infants

- 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.

Topic 5. The first aid in urgent states in pediatric practice.

- 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.

PRACTICAL TRAINING CONTENT

The List of Practical Skills for the Practical Training " Nursing Practice in Pediatric Department"

1. Accounting of medicines in the pediatric department. Rules of storage of medicines. Providing patients by medicines according to the medication card.
2. Organization of the nurse's unit work and filling in medical documentation by the nurse
3. Assessment of blood pressure, pulse and respiratory rates, and recording data into graph observation card. Measuring the body temperature of a sick child and recording data into graph observation card, determining the type of temperature curve
4. Introducing enteral drugs to children of different ages
5. Preparation of the necessary solutions for parenteral administration and mastering the rules of handling disposable syringes after use.
6. Performing subcutaneous injections.
7. Performing intramuscular injections.
8. Calculation of the dose of the antibiotic and its preparation for parenteral administration
9. Calculation of the dose of analgesic medicines and prescribing appropriate recipes. Accounting and storage control of narcotics in pediatric department
10. Performing intravenous injections and infusions.
11. Disinfection and presterilization cleaning of tools
12. Taking swabs from the nose and throat of sick children. Instilling nasal, ophthalmic, ear's drops
13. Performing enemas for children of different ages
14. Obtaining stool for different studies in pediatric practice
15. Obtaining urine for different studies in pediatric practice
16. Carrying out gastric lavage in children of different ages.
17. Applying compresses in pediatric practice
18. Applying, hot-/ice-bags in pediatric practice
19. Giving the children humidified oxygen and use oxygen bag. Principles of the first aid for the child with laryngospasm and spasmodic croup, foreign body in the airways, asthma attack.
20. Carrying out the first aid for the child with convulsive disorders
21. Carrying out the first aid for the child with syncope, collapse. Carrying out initial cardiopulmonary resuscitation: external cardiac compressions, CPR in children of different ages. The first aid for the terminally ill children. Emergency care for SARS-CoV-2 in children
22. Assisting mother during breastfeeding and bottle feeding
23. Eyes, nose, ears care for pediatric patients. Umbilical wound care. Carrying out hygienic bath for infants, perineal and genital care for female and male patients. Taking care for immobile patients. Transportation, changing body position of terminally ill patient. Care, prevention and treatment of bedsores

24. Preparing sick children for X-ray studies of the gastrointestinal tract, urinary tract, and for GIT endoscopy

Criteria for evaluation of practical skills:

- "excellent" score (**5 points**) is given in the case when the student know theoretical basis of practical activities, illustrates his/her answers by various examples; gives accurate and clear answers without any inquiring issues; demonstrates practical skills without errors; solves study cases freely; works in modulated clinical situations correctly ; carrying out a greater amount of work than is planned;
- "good" score (**4 points**) is given in the case when the student knows the content of the subject and understands it well; the answers on the questions are correct, but they are not exhaustive, although on additional questions student answers without errors; solves all study cases, showing difficulties only in the most difficult cases; demonstrates practical skills without errors, some minor mistakes student can correct by himself; works during an independent part of the working day actively, carrying out the planned minimum of manipulations and procedures;
- "satisfactory" score (**3 points**) is given to the student on the basis of his/her knowledge about the main content of the subject and with a satisfactory level of understanding, automatic mastering of the most essential practical skills. Student is able to solve modified (simplified) tasks by means of guiding questions; solves study cases, showing difficulties in simple cases; the student is not always able to give a systematic answer independently, but the simple questions he/she answer correctly; is able to demonstrate the basic practical skills; need assistance of the teacher, when carrying out an independent work; student can solve difficulties with the help of a teacher or medical staff of the hospital
- "unsatisfactory" score (**0 points**) is given to the student in cases when his/her knowledge and skills do not correspond to the requirements of the score "3 points"; the student is passive during independent work, has obvious difficulties in solving problems and mastering practical skills, is unable to make decisions and act in typical clinical situations, even after remarks and corrections of the teacher

ASSESSMENT OF STUDENT WORK IN PRACTICE

No	Practical skill	Date	Flagging about enrollment (points)	Signature of the supervisor from the Hospital
1	Accounting of medicines in the pediatric department. Rules of storage of medicines. Providing patients by medicines according to the medication card			
2	Organization of the nurse's unit work and filling in medical documentation by the nurse			
3	Assessment of blood pressure, pulse and respiratory rates, and recording data into graph observation card. Measuring the body temperature of a sick child and recording data into graph observation card, determining the type of temperature curve			
4	Introducing enteral drugs to children of different ages			
5	Preparation of the necessary solutions for parenteral administration and mastering the rules of handling disposable syringes after use			
6	Performing subcutaneous injections			
7	Performing intramuscular injections			
8	Calculation of the dose of the antibiotic and its preparation for parenteral administration			

9	Calculation of the dose of analgesic medicines and prescribing appropriate recipes. Accounting and storage control of narcotics in pediatric department			
10	Performing intravenous injections and infusions			
11	Disinfection and presterilization cleaning of tools			
12	Taking swabs from the nose and throat of sick children. Instilling nasal, ophthalmic, ear's drops			
13	Performing enemas for children of different ages			
14	Obtaining stool for different studies in pediatric practice			
15	Obtaining urine for different studies in pediatric practice			
16	Carrying out gastric lavage in children of different ages.			
17	Applying compresses in pediatric practice			
18	Carrying out the first aid for the child with hypo-/hyperthermia. Applying hot-/ice-bags in pediatric practice			
19	Giving the children humidified oxygen and use oxygen bag. Principles of the first aid for the child with laryngospasm and spasmodic croup, foreign body in the airways, asthma attack			
20	Carrying out the first aid for the child with convulsive disorders			
21	Carrying out the first aid for the child with syncope, collapse. Carrying out initial cardiopulmonary resuscitation: external cardiac compressions, CPR in children of different ages. The first aid for the terminally ill children. Emergency care for SARS-CoV-2 in children			
22	Assisting mother during breastfeeding and bottle feeding			
23	Eyes, nose, ears care for pediatric patients. Umbilical wound care. Carrying out hygienic bath for infants, perineal and genital care for female and male patients. Taking care for immobile patients. Transportation, changing body position of terminally ill patient. Care, prevention and treatment of bedsores			
24	Preparing sick children for X-ray studies of the gastrointestinal tract, urinary tract, and for GIT endoscopy			
	TOTAL SCORE FOR CURRENT ACTIVITIES			

FINAL CONTROL OF PRACTICAL TRAINING

Students, who are allowed to pass Final Control, are those who performed all kinds of work, provided by the curriculum, received positive characteristic of Supervisor from the Hospital, have a valid

accounting documents (Diary and Final Report) and during practical training have awarded scores of no less than the minimum (72 points).

Final control should comply with the program of practice. It is taken by students on the last day of practical training and evaluated by commissions comprising supervisors from the University and, if possible, the supervisor from the Hospital.

The List of Issues for Final Control

1. Fundamentals of ethics while working in pediatric hospital.
2. Key responsibilities of nurses in outpatient and inpatient pediatric medical institution.
3. Basic deontological principles of conversation of the nurses with children and their relatives.
4. The main duties of a nurse in the pediatric department.
5. Organization of the nurse's unit work in the pediatric department. Main medical documentation filled in by a nurse of the pediatric department. Rules of transference of duties to the next shift.
6. Organization of nurse's work in the procedure-room. Rules of storage and registration of medicines and medical instruments in the pediatric department
7. Assessment of body temperature, blood pressure, pulse in pediatric practice.
8. Rules of oral administration of medicines to children.
9. Rules of storage of medicines
10. Rules of parenteral administration of medicines.
11. Technique of intradermal, subcutaneous, and intramuscular injections.
12. Calculation of the dose of antibiotic and analgesic medicines
13. Intravenous infusion. Rules of filling in an intravenous administration set. Major complications of IV therapy, prevention and aid
14. Insertion of suppositories. Cleansing and therapeutic enemas.
15. Peculiarities of applying compresses, hot-/ice-bags in pediatric practice
16. Obtaining urine for routine urinalysis, for Zimnitskiy test, Netchyporenko test, Addis test and their diagnostic value.
17. Guidelines for preparation of pediatric patients for X-ray studies of the gastrointestinal tract, urinary system, and for endoscopy of the gastrointestinal tract.
18. Principles of the first aid for the child with laryngospasm and spasmodic croup, foreign body in the airways, asthma attack, convulsive disorders, syncope, collapse. Emergency care for SARS-CoV-2 in children
19. The main signs of clinical death. Rules for initial cardiopulmonary resuscitation.
20. Principles of taking care and monitoring of patients with pathology of the skin.
21. Principles of taking care and monitoring of patients with respiratory disorders.
22. Principles of taking care and monitoring of patients with disorders of the cardiovascular system.
23. Principles of taking care and monitoring of patients with disorders of the gastrointestinal tract
24. Principles of taking care and monitoring of patients with pathology of the urinary system.
25. Principles of the hygienic bath for infants. Perineal and genital care for female and male patients.
26. Hair, eyes, nose, ears of pediatric patients
27. Instillation of nasal, ophthalmic, otic drops
28. Taking care of newborn. Umbilical wound care.
29. Technique of breast feeding.
30. Feeding of babies with bottle and spoon.

Terms of Final Control

Final control is carried out during the last day of practical training and is evaluated by commission comprising supervisor from the University and, if possible, the supervisor from the Hospital. The student is responsible for a package of tests (MCQ). Each pack contains 40 tests. The maximum number of points for Final Control is 80: according to answer 40 MCQ control (2 points for each correct answer). 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

COMMENTS AND ASSESSMENT OF STUDENT’S WORK DURING PRACTICAL TRAINING

Supervisor from the Hospital

Supervisor from the University _____

EVALUATION OF PRACTICAL TRAINING

Number of points for		Total number of points	Traditional evaluation	Date
Current Activities	Final Control			

Supervisor from the Department of Propaedeutic Pediatrics and Medical Genetics

(signature)

(name)