

1) Clinical Skills I (code ZSS604)

Seminars 6 hours, clinical exercises 20 hours, clinical instruction 58 hours, work with mentor 41 hours.

Course objectives

To explain the basic principles of health care, basic health care skills. Acquired knowledge and skills should provide understanding of the basic principles of health care and application of basic skills in nursing practice.

Expected learning outcomes

After the course completing, students will be able to:

- Describe the health care of patients based on human needs,
- Describe admission, transfer and discharge of the patient,
- Implement health care of immobile patients, geriatric patients, terminally ill patients,
- Perform hand hygiene,
- Carry out personal hygiene of the patient,
- Implement oral care;
- Document entry and exit of fluids and food, identify deviations and undertake appropriate interventions,
- Assistance in moving and transferring patients,
- Carry out disinfection and sterilization,
- Measure vital signs, observe deviations from normal values and undertake appropriate interventions,
- Assess body fluids, recognize pathological conditions and undertake appropriate interventions,
- Conduct therapeutic procedures (introduction of urinary catheter and application of enema),
- Apply enteral and parenteral therapy,
- Document nursing care,
- Determine needs for health care: collect data, analyze obtained data and make diagnoses in the health care process,
- Plan the health care: establish priorities and goals, select information and develop the plan,
- Implement health care: validation of the plan, analysis of the conditions and realization,
- Evaluate in the health care process: evaluation of the objective and the plan.

The level of proficiency in the implementation of health care is based on ethics, professionalism, regulations and the level of qualification (observation, preparation, assisted performance)

2) Clinical Skills II (code ZSS618)

Seminars 6 hours, clinical exercises 20 hours, clinical instruction 58 hours, work with mentor 41 hours

Course objectives

To define the basics of treatment of patients at neurology, internal medicine and paediatric wards in the area of health care. Acquired knowledge and skills should enable students to understand the entire process of health care of paediatric, internal medicine and neurological patients. Students will be able to apply high quality health care in nursing practice.

Expected learning outcomes

After the course completing, students will be able to:

- Apply nursing documentation at neurology, internal medicine and paediatric wards,
- Name and explain the admission and discharge processes of patients,
- Describe and explain the importance of monitoring patients,
- Describe the preparation of patients for various therapeutic and diagnostic procedures,
- Describe and perform Mantoux test,
- Explain the preparation and administration of infusion solution through an infusion pump,
- Explain the application and possible complications of transfusion of blood or blood components;
- Describe and explain the application of chemotherapy,
- Describe and explain the procedures for managing patients in sterile units,
- State the indications for nasogastric tube insertion,
- Explain the procedure and insert the nasogastric tube,
- Explain the feeding techniques in patients with neurological diseases,
- Explain the measures of self-protection when applying chemotherapy,
- Specify conditions that can lead to disorders of consciousness,
- Describe procedures for taking microbiological samples,
- Describe and explain the importance of evaluating psychomotor development of the child,
- Describe and apply holding techniques for certain medical and technical interventions,
- Explain the importance of preparing the incubator,
- Identify pathological conditions in vitally endangered children,
- Plan health care in the intensive care unit at the paediatric ward;
- Describe, explain and implement monitoring of vitally endangered children,
- Describe and explain the importance of a partner relationship with a sick children and parents,
- Describe and explain differences in resuscitation procedures between newborns and young children.

The level of proficiency in the implementation of health care is based on ethics, professionalism, regulations and the level of qualification (observation, preparation, assisted and independent performance of procedures in nursing competences) with ability to respond to

patients' needs by planning, delivering and evaluating appropriate and personalized health care programs in collaboration with patient and his family, protection and prevention of transmission of infection, the ability of safe drug use and all other therapeutic procedures according to physician's written instructions.

3) Clinical skills III (code ZSS634)

Seminars 6 hours, clinical exercises 20 hours, clinical instruction 58 hours, additional required independent student work 41 hours.

Course objectives

To acquire necessary knowledge and skills to provide health care of surgical patients, specific professional knowledge, skills and attitudes in psychological and physical preparation of patients for surgery, knowledge and skills in recognizing postoperative complications and basic procedures for managing them. To recognize and respond to the patient's needs with a holistic approach in the field of health care, to develop the ability to follow new developments and acquire new knowledge and skills, to implement all health care procedures in accordance with the code of ethics, to conduct patient education, recognize psychological condition of the patient, to acquire knowledge of therapeutic procedures in psychiatric patients and side effects of pharmacotherapy, to develop skills of working with patients in a group (group therapy).

Expected learning outcomes

After the course completing the student will be able to:

- Define and apply the basic rules and procedures of aseptic surgery - clothing, footwear, space, instruments,
- Analyse psychological preoperative preparation of patients - stress inoculation,
- Perform preoperative physical preparation of the patient - preparation of the operative field, preparation of the gastrointestinal tract,
- Prepare and perform premedication,
- Explain the protocol for treating patients in the intensive care unit,
- Explain the procedure of aspiration of the respiratory tract secretions,
- Monitor and keep preoperative nursing documentation,
- Monitor and document the postoperative condition of the patient, vital functions: blood pressure, pulse, respiration, temperature, pain,
- Identify postoperative complications - bleeding, hypovolemic shock, surgical wound dehiscence and disruption, surgical wound infection, paralytic ileus, deep vein thrombosis, pulmonary embolism,
- Recognize postoperative problems - pain, nausea, vomiting, abdominal distension, hiccups,
- Check condition and functionality of the thoracic drainage - monitoring, Bulau, negative pressure, fluid balance - observation and documentation, prevention of complications,

- Participate in observing hemodynamic monitoring - measuring CVT, preparation of the patient and equipment, implementation,
- Implement health care of patients receiving mechanical ventilation – preparation, monitoring,
- Monitor the wound healing process and take part in surgical wound dressing,
- Recognize symptoms and signs of surgical wound infection: fever, pain, discharge, redness,
- Implement health care of patients with stoma - urostomy, ileostomy, colostomy, tracheostomy: preparation of the patient and equipment, implementation,
- Apply the new guidelines for advanced life support - equipment and application,
- Define the difference between total and partial enteral nutrition - indications, preparation of all necessary equipment and performance and knowledge of possible complications,
- Implement health care of neurosurgical patients - mechanical ventilation, intracranial pressure monitoring,
- Explain the body position of neurosurgical patients in bed,
- Evaluate and monitor the performance of preoperative, intraoperative and postoperative health care.

The level of proficiency in the implementation of health care is based on ethics, professionalism, regulations and the level of qualification (observation, preparation, assisted and independent performance of procedures in nursing competences) with ability to respond to patients' needs. The level of proficiency is based on planning, delivering and evaluating appropriate and personalized health care programmes in collaboration with patient and his family. The level of proficiency is based on protection and prevention of transmission of infection, the ability of safe drug use and all other therapeutic procedures according to written instructions of a physician and other experts in the field of health and social care, provision of emergency medical care in individual and group accidents, using their knowledge, skills and abilities. The level of proficiency is based on provision of continuing care in case of disability, chronic illness and palliative care, protecting the assets and dignity of health facilities with responsible use of equipment and accessories in the implementation of health care.

4) Nursing care in the community (code ZSS626)

Lectures 40 hours, laboratory exercises 10 hours, field exercises 40 hours, additional required independent student work 60 hours.

Course objectives

To describe collection, evaluation, analysis and interpretation of data needed for nursing interventions in client's home, in social institutions as well as in other health care and non-health care institutions involved in care of the population in the community. To explain nursing interventions aimed at implementation of health care in the community; health promotion, implementation of health education and health awareness and work in a multidisciplinary team. Acquired knowledge and skills will provide necessary competences for health care and protection of the health of individuals and families in the community.

Expected learning outcomes
After the course completing the student will be able:
- Collect necessary data for implementation of health care to the individual and / or family,
- Analyse collected data on the individual, family and community,
- Analyse the needs of sick and healthy individual and / or family for the implementation of health care in the community,
- Identify risk factors for health damage in the individual, the family, and in the community,
- Recognize different approaches in planning health care in sick and healthy people,
- Recognize different approaches in planning health care in the client's home, social institutions as well as in other health care and non-health care institutions,
- Determine priorities in implementing health care in the community,
- Describe necessary procedures in planning and implementation of health care in the community,
- Use acquired knowledge, skills and methods for implementation of health education by individual work and work with small and large groups of various public health problems of all age groups,
- Describe the important role of a nurse in a team, inter-sector cooperation and cooperation in public-health,
- Make a plan for the implementation of health care to individuals and families,
- Keep nursing documentation.
5) Public Health (code ZSS613)
15 hours of lectures, 10 hours of seminars, 9 hours of exercises, independent student work 6 hours
Course objectives
To recognize the concepts and problems of public health and prepare students to apply and analyse public health problems and independently assess the causal factors.
Expected learning outcomes
After the course completing, students will be able to:
- define basic public health concepts (health, healthcare system, health economics)
- identify and describe risk factors that affect the health of all groups of society, and analyze and correlate relationship between them
- describe the basic indicators of demographic vital statistics of the Republic of Croatia

- define health and illness
- explain basic medical statistics indicators of health and illness
- define the health condition of a community
- indicate and define population groups at risk
- differentiate types of healthcare institutions and healthcare activities
- differentiate levels of healthcare
- evaluate responsibility and competence of healthcare professionals
- explain the legal grounds for healthcare and health insurance
- explain the principles of intervention in the community
- indicate and explain methods of health education and promotion of health
- differentiate associations of healthcare professionals and their codes
- handle medical records and reports in healthcare and treatment of them
- recognize confidentiality of data and human rights
- describe methods of social intervention in the field of social security, unemployment and health
- interpret the relationship between social needs and social protection, mutual protection and self-protection