Medical care and Manipulation Technique (MCMT)
Thematic plan of practical classes for II course 4 semester
2026/2027

Lesson number	Topic, study questions
Lesson 1 (3 h) 01.09-05.09.2026	**Topic 2.1 Hypo- and hyperthermia patient care** 1. Body temperature. Rules of thermometry, assessment of the result. 2. Stages of fever. Observation and medical care of patients in fever depending on the stage. Application of heating pad, ice bubble. 3. Heat stroke, sunstroke. Medical care of the patient with hyperthermia. Physical methods of cooling. 4. General hypothermia. Medical care of the patient in hypothermia.
Lesson 2 (3 h) 07.09-12.09.2026	**Topic 2.2 Principles of therapeutic nutrition** 1. Basic principles of therapeutic nutrition. Dietary regime. 2. Standard diets. 3. Feeding of patients with self-care deficit. 4. Types of enteral nutrition. Parenteral nutrition.
Lesson 3 (3 h) 14.09-19.09.2026	**Topic 2.3 Caring for patients with circulatory system diseases** 1. Main complaints of patients with diseases of the circulatory system. 2. Observation of pulse, blood pressure, water balance in patients. 3. Properties of pulse. Categories of blood pressure. 4. Recording of electrocardiogram. 5. Medical care of patients with edema, dyspnea, circulatory failure, pulmonary edema, hypertensive crisis, angina attack, myocardial infarction, acute vascular failure. 6. Features of care for patients with diseases of the circulatory system, therapeutic nutrition. Laboratory and instrumental methods of research in diseases of the circulatory system.
Lesson 4 (3 h) 21.09-26.09.2026	**Topic 2.4 Care of patients with digestive diseases** 1. The main complaints of patients with diseases of the digestive organs. 2. Observation of changes in defecation and fecal properties. 3. Medical care of patients with abdominal pain, heartburn, vomiting, gastrointestinal bleeding, flatulence, constipation, diarrhea. 4. Therapeutic nutrition for diseases of the digestive organs. 5. Laboratory and instrumental methods of research in diseases of the digestive organs.
Lesson 5 (3 h) 28.09-03.10.2026	**Topic 2.5 Gastric tube insertion** 1. Insertion of an oral probe into the stomach, indications, contraindications, possible complications. 2. Equipment and technique of gastric lavage. 3. Introduction of nasogastric tube into the stomach, indications, contraindications, possible complications. 4. Equipment and technique of tube feeding of the patient.
Lesson 6 (3 h) 05.10-10.10.2026	**Topic 2.6 Technique of enema placement** 1. Indications, contraindications, possible complications of rectal catheter placement. 2. Equipment and technique of rectal catheter placement. 3. Indications, contraindications, possible complications of various types of enemas. 4. Equipment and technique of various types of enemas (cleansing, siphon enema, medicinal enema).
Lesson 7 (3 h) 12.10-17.10.2026	**Theme 2.7 Assessment of practical skills in the form of OSCE**
Lesson 8 (3 h)	**Topic 2.8 Caring for patients with diseases of the urinary system** 1. The main complaints of patients with kidney and urinary tract diseases.

19.10- 24.10.2026	2. Observation of changes in diuresis and urine properties. 3. Care of patients with acute urinary retention, urinary incontinence, renal colic, edema. 4. Peculiarities of care for patients with kidney and urinary tract diseases, therapeutic nutrition. 5. Laboratory and instrumental methods of research in diseases of urinary system organs
Lesson 9 (3 h) 26.10- 31.10.2026	**Topic 2.9 Bladder catheterization** 1. Bladder catheterisation, indications, contraindications, possible complications. 2. Equipment and technique of bladder catheterisation using urological catheter Nelaton. 3. 3. Removal of urine from the bladder. Collection of urine for laboratory examination using catheter. 4. Bladder catheterisation using a urological Foley catheter. 5. Use of different types of urine catheters for urine collection. 6. Caring for a urological catheter and urinary catheter placed for prolonged periods of time. Administration of medication into the bladder.
Lesson 10 (3 h) 02.11- 07.11.2026	**Topic 2.10 Assessment of practical skills in the form of OSCE**
Lesson 11 (3 h) 09.11- 14.11.2026	**Topic 2.11 Dressing room** 1. Documentation, equipment and preparation of the dressing room for performing dressings. 2. Purpose and methods of sterilization of reusable medical devices. 3. 3. Requirements for dressing materials and medical instruments. Preparation of dressing material. 4. Packaging of dressing material and other reusable medical devices for sterilization. 5. Packaging dressings and other reusable medical devices for sterilization. 6. Hygienic treatment of hands during medical manipulations in the dressing room. Rules of gloves use in the dressing room. 7. Collection and packaging of medical waste in the dressing room.
Lesson 12 (3 h) 16.11- 21.11.2026	**Topic 2.12 Operating theatre. Preoperative preparation** 1. Main and auxiliary rooms of the operating theatre. 2. Areas of the operating theatre. Equipment, apparatus and facilities of the operating theatre. 3. Sanitary and epidemiological regime of the operating theatre. Types of cleaning of the operating theatre. Quality control of sterilization of reusable medical devices. 4. 4. Transport of patients to and from the operating theatre. Peculiarities of transporting a patient with drains, with systems for intravenous infusion. 5. Methods of surgical hand treatment before surgery. Putting on a sterile gown, gloves independently and with the help of a nurse. 6. Concept of surgery, types of surgery and basic indications for surgery. 7. Preoperative preparation of the patient, its stages. Features of preoperative preparation in conditions of emergency and planned operations. 8. Psychological preparation of patients. Features of preoperative preparation of pregnant women and elderly and elderly patients. 9. Preparation of the surgical field. The concept of premedication.
Lesson 13 (3 h) 23.11- 28.11.2026	**Topic 2.13 Patient care in the postoperative period** 1. Concept of the postoperative period. Preparation of ward, bed and care items for the patient after surgery. 2. Observation of patients in the first day after surgery (dressing, skin, body temperature, cardiovascular system, respiratory system, urinary system).

	3. Peculiarities of postoperative management of pregnant women and elderly and senile patients. 4. Organization of nutrition of patients after surgical interventions. Diet and regime of parenteral nutrition. 5. Postoperative complications (early and late), their prevention. Assistance in case of vomiting. Use of rectal catheter. Pain relief. Care of drains of the abdominal cavity and pleural cavity. Control and registration of the amount and nature of the discharge on the drains. The concept of stomas. Care for tracheostoma. Care of gastro-, ileo-colo- and cystostomy.
Lesson 14 (3 ч) 30.11- 05.12.2026	**Topic 2.14 Care of patients with mechanical and thermal injuries** 1. Observation and medical care of patients with different types of wounds. Methods and techniques of dressing (removing the dressing, examining the wound, making a wound toilet, applying and fixing a clean dressing). Care of drains. Removal of drains. How often the dressing should be changed 2. Types of thermal lesions. Medical care of patients with thermal burns. 3. Medical care of patients with chemical burns. 4. Medical care of patients with electrical trauma. 5. Medical care of patients with cold injury. 6. Features of sanitary and hygienic regime in the treatment of patients with thermal injuries.
Lesson 15 (3 h) 07.12- 12.12.2026	**Topic 2.15 Patient care in traumatological department** 1. Peculiarities of the position of patients with skeletal traction in bed. 2. Advantages and disadvantages of plaster bandages. Preparation of plaster bandages and bandages. 3. Types and rules of plaster bandages. 4. Complications of improper application of plaster casts. 5. Features of hygienic care of the skin of the body and perineum in long-lying patients. Rules of skin care in the areas of spokes.
Lesson 16 (3 h) 14.12- 19.12.2026	**Topic 2.16 Patient care in the department of purulent surgery** 1. Requirements for sanitary and hygienic regime in septic surgery departments. 2. Measures aimed at preventing infections associated with the provision of medical care. 3. The order of wet cleaning and ultraviolet bactericidal irradiation in the wards of the department of purulent surgery. 4. Medical care of patients with pressure sores. 5. The main types of drainage of purulent cavities. Medical care in vacuum therapy of wounds, flow-aspiration drainage. 6. The concept of acute purulent non-specific infection.
Lesson 17 (3 h) 21.12- 26.12.2026	**Topic 2.17 Concluding lesson**

Начальника симуляционно-
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