

**Medical care and Manipulation Technique (MC&MT)**  
**Thematic plan of practical classes for the spring semester**  
**2023/2024**

Class number	Topic, study questions
<b>Lesson 1</b> (3 h.) 12.02- 17.02	<b>Topic 2.1 Hypo- and hyperthermia patient care</b> 1. Body temperature. 2. Rules of thermometry, assessment of the result. 3. Stages of fever. 4. Observation and medical care of patients in fever depending on the stage. 5. Application of heating pad, ice bubble. 6. Heat stroke, sunstroke. 7. Medical care of the patient with hyperthermia. 8. Physical methods of cooling. 9. General hypothermia. 10. Medical care of the patient in hypothermia.
<b>Lesson 2</b> (3 h.) 19.02- 24.02	<b>Theme 2.2 Principles of therapeutic nutrition</b> 1. Basic principles of therapeutic nutrition. 2. Dietary regime. 3. Standard diets. 4. Feeding of patients with self-care deficit. 5. Types of enteral nutrition. 6. Parenteral nutrition.
<b>Lesson 3</b> (3 h.) 26.02- 02.03	<b>Theme 2.3 Care of patients with circulatory system diseases</b> 1. Features of observation and care of patients with diseases of the circulatory system. 2. Main complaints of patients with diseases of the circulatory system. 2. 3. Medical care of patients with edema. 4. Medical care of patients with dyspnea, circulatory insufficiency, pulmonary edema. 5. Medical care of patients with hypertensive crisis, angina attack, myocardial infarction, acute vascular insufficiency. 6. Observation of pulse. Properties of pulse. 7. Observation of blood pressure. Classification of blood pressure levels. 8. Methods of determining daily diuresis and estimation of water balance. 9. Technique and methodology of electrocardiogram registration (on the example of portable 12-channel electrocardiograph "Altonik-06"). 10. Dietary therapeutic nutrition in diseases of the circulatory system. 11. Laboratory and instrumental methods of research in diseases of the circulatory system.
<b>Lesson 4</b> (3 h.) 04.03- 09.03	<b>Theme 2.4 Care of patients with digestive diseases</b> 1. Basic complaints of patients with digestive diseases. 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. Dietary therapeutic nutrition for diseases of the digestive organs. 5. Laboratory and instrumental methods of research in diseases of the digestive organs.
<b>Lesson 5</b>	<b>Topic 2.5 Gastric tube insertion</b>

<p>(3 h.) 11.03.- 16.03</p>	<ol style="list-style-type: none"> <li>1. Insertion of an oral probe into the stomach, indications, contraindications, possible complications.</li> <li>2. Gastric lavage, general information.</li> <li>3. Equipment and technique of gastric lavage.</li> <li>4. Introduction of nasogastric tube into the stomach, indications, contraindications, possible complications.</li> <li>5. Equipment and technique of nasogastric tube placement.</li> <li>6. Technique of probe feeding of the patient.</li> </ol>
<p><b>Lesson 6</b> (3 h.) 18.03- 23.03</p>	<p><b>Topic 2.6 Technique of enema placement</b></p> <ol style="list-style-type: none"> <li>1. Indications, contraindications to the placement of a gas drainage tube.</li> <li>2. Equipment and technique of gas drainage tube placement.</li> <li>3. Indications, contraindications for staging cleansing enema.</li> <li>4. Equipment and technique of cleansing enema.</li> <li>5. Indications, contraindications for staging siphon enema.</li> <li>6. Equipment and technique of staging siphon enema.</li> <li>7. Indications, contraindications to the production of medicinal enema.</li> <li>8. Equipment and technique of drug enema.</li> </ol>
<p><b>Lesson 7</b> (3 h.) 25.03- 30.03</p>	<p><b>Theme 2.7 Assessment of practical skills in the form of an OSCE</b></p>
<p><b>Lesson 8</b> (3 h.) 01.04- 06.04</p>	<p><b>Topic 2.8 Caring for patients with diseases of the urinary system</b></p> <ol style="list-style-type: none"> <li>1. Main complaints of patients with kidney and urinary tract diseases.</li> <li>2. Observation of changes in diuresis and urine properties.</li> <li>3. Care of patients with renal and urinary tract diseases.</li> <li>4. Care of patients with acute urinary retention, urinary incontinence, renal colic, edema.</li> <li>5. Dietary therapeutic nutrition in diseases of the urinary system.</li> <li>6. Laboratory and instrumental methods of research in diseases of urinary system organs.</li> </ol>
<p><b>Lesson 9</b> (3 h.) 08.04- 13.04</p>	<p><b>Topic 2.9 Bladder catheterization</b></p> <ol style="list-style-type: none"> <li>1. Bladder catheterization, general information.</li> <li>2. Bladder catheterization with Nelaton catheter, indications, contraindications, possible complications.</li> <li>3. Preparation of the patient for bladder catheterization, equipment.</li> <li>4. Technique of bladder catheterization using the Nelaton urological catheter.</li> <li>5. Bladder catheterization with Foley catheter, indications, contraindications, possible complications.</li> <li>6. Technique of bladder catheterization using urological Foley catheter.</li> <li>7. Urine collection for laboratory examination using the catheter.</li> <li>8. Use of different types of urine catheters for urine collection.</li> <li>9. Care of urological catheter and urinary catheter placed for prolonged periods of time.</li> <li>10. Administration of medication into the bladder.</li> </ol>
<p><b>Lesson 10</b> (3 h.) 15.04- 20.04</p>	<p><b>Topic 2.10 Assessment of practical skills in the form of OSCE.</b></p>
<p><b>Lesson 11</b> (3 h.)</p>	<p><b>Topic 2.11 Dressing room</b></p> <ol style="list-style-type: none"> <li>1. Documentation, equipment and preparation of the dressing room for dressings.</li> <li>2. Purpose and methods of sterilization of reusable medical devices.</li> </ol>

22.04-27.04	<ol style="list-style-type: none"> <li>3. Requirements for dressing materials and medical instruments.</li> <li>4. Preparation of dressing material. Packaging of dressing material and other reusable medical devices for sterilization. Storing dressings and other reusable medical devices for sterilization.</li> <li>5. Hygienic treatment of hands during medical manipulations in the dressing room.</li> <li>6. Rules for the use of gloves in the dressing room.</li> <li>7. Collection and packaging of medical waste in the dressing room</li> </ol>
<b>Lesson 12</b> (3 h.) 29.04-4.05	<b>Topic 2.12 Operating theatre. Preoperative preparation</b> <ol style="list-style-type: none"> <li>1. Main and auxiliary rooms of the operating theatre.</li> <li>2. Areas of the operating theatre.</li> <li>3. Equipment, devices and facilities of the operating theatre. 3.</li> <li>4. Sanitary and epidemiological regime of the operating theatre. Types of cleaning of the operating theatre.</li> <li>5. Quality control of sterilization of reusable medical devices.</li> <li>6. Transportation of patients to and from the operating theatre. Features of transporting a patient with drains, with systems for intravenous infusion, in a lift and when carried on a stretcher.</li> <li>7. Methods of surgical hand treatment before surgery. Putting on a sterile gown, gloves independently and with the help of a nurse.</li> <li>8. The concept of surgery, types of surgery and the main indications for surgery.</li> <li>9. Preoperative preparation of the patient, its stages. Features of preoperative preparation in conditions of emergency and planned operations.</li> <li>10. Psychological preparation of patients. Features of preoperative preparation of pregnant women and elderly and elderly patients.</li> <li>11. Preparation of the surgical field. The concept of premedication.</li> </ol>
<b>Lesson 13</b> (3 h.) 06.05-11.05	<b>Topic 2.13 Patient care in the postoperative period</b> <ol style="list-style-type: none"> <li>1. The concept of the postoperative period.</li> <li>2. Preparation of the ward, bed and care items for the patient after surgery.</li> <li>3. Observation of patients in the first 24 hours after surgery (dressing, skin, body temperature, cardiovascular system, respiratory system, urinary system).</li> <li>4. Features of postoperative management of pregnant women and elderly and elderly patients.</li> <li>5. Organization of nutrition of patients after surgical interventions. Diet and regime of parenteral nutrition.</li> <li>6. Postoperative complications (early and late), their prevention.</li> <li>7. Assistance in case of vomiting.</li> <li>8. Use of rectal catheter. Pain relief.</li> <li>9. Care of drains of the abdominal cavity and pleural cavity. Control, registration of the amount and nature of the discharge on the drains.</li> <li>10. The concept of stomas. Care for tracheostoma. Care for gastro-, ileo-colo- and cystostomy.</li> </ol>
<b>Lesson 14</b> (3 h) 13.05-18.05	<b>Theme 2.14 Care of patients with mechanical and thermal injuries</b> <ol style="list-style-type: none"> <li>1. Observation and medical care of patients with various types of wounds.</li> <li>2. Methods and techniques of dressing (removing the dressing, examining the wound, cleaning the wound, applying and fixing a clean dressing).</li> <li>3. Drainage care. Removal of drains. Frequency of dressing changes.</li> <li>4. Types of thermal lesions.</li> <li>5. Medical care of patients with thermal and chemical burns, electrical trauma, cold injury.</li> <li>6. Features of sanitary-hygienic and sanitary-anti-epidemic regimes in the treatment of patients with thermal lesions.</li> </ol>
<b>Lesson</b>	<b>Topic 2.15 Patient care in traumatological department</b>

<p><b>15</b> (3 h.) 20.05- 25.05</p>	<p>1 Peculiarities of care for traumatological patients. 1. 2 Care of patients with plaster bandages. 3. 3 Peculiarities of care for patients with skeletal traction and after traumatological operations. 4. Peculiarities of hygienic care of the body skin and perineum in patients lying down for a long time.</p>
<p><b>Lesson 16</b> (3 h.) 27.05- 01.06</p>	<p>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 department of purulent surgery. 4. Medical care of patients with pressure sores. 5. The main types of drainage of purulent cavities. Features of medical care during vacuum therapy of wounds, flow-aspiration drainage.</p>
<p><b>Lesson 17</b> (3 h.) 03.06- 08.06</p>	<p><b>Topic 2.17 Concluding lesson</b></p>

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