



UNIVERSITY OF WARMIA AND MAZURY IN OLSZTYN
Faculty of Medicine

Course syllabus – part A

USOS Code: 48SJ-SUCS5

ECTS: 4.00

Cycle: 2026L

Summer Clerkship 5/5 Summer Clerkship 5/5

SUBJECT MATTER CONTENT:

Practical training – After completion of the 5th year, the student is required to complete a 2-week summer clerkship (60 hours) in intensive care, carried out in an Intensive Care Unit (ICU). The internship includes familiarization with the organization and specific nature of work in the ICU, as well as with the basic procedures applied in the unit and the competencies of the medical staff working there. Participation in maintaining medical documentation related to the admission, hospitalization, and discharge of a patient requiring intensive medical care, in accordance with applicable regulations and procedures. Participation in the preparation and implementation of medical orders – familiarization with, monitoring, and completion (under physician supervision) of individual order charts, administration of medications, and participation in planning therapeutic management. Participation in the diagnosis and nursing care of patients requiring intensive medical care. Discussion of basic vital parameters of ICU patients (including blood pressure, heart rate, temperature, urine output, bowel movements, parameters and characteristics of secretions), the patient's general condition, and progress of the diagnostic and therapeutic process during medical ward rounds. Participation in arterial blood sampling for blood gas analysis and practical interpretation of arterial blood gas results. Familiarization with the principles of correction of acid–base and fluid–electrolyte disturbances. Familiarization with the principles of operation of medical equipment used in the ICU (including mechanical ventilators, defibrillators, cardiac monitors, infusion pumps). Participation in qualification and preparation of patients for diagnostic procedures (invasive and non-invasive), interventions, and surgeries—elective or life-saving—as well as participation in anesthesia and observation of patients after diagnostic procedures/interventions/surgeries. Knowledge of the etiology and pathophysiology of basic disease entities, with particular emphasis on emergency conditions. Knowledge of causes, symptoms, diagnostic principles, and therapeutic management of the most common bacterial, viral, parasitic, and fungal diseases, as well as viral hepatitis, sepsis, and hospital-acquired infections. Participation in spirometry testing, oxygen therapy, assisted and mechanical ventilation. Participation in urinary bladder catheterization. Participation in peripheral and central venous catheter placement, subcutaneous and intramuscular injections. Familiarization with central venous access systems and their use in various clinical settings. Knowledge of principles of care of catheter insertion sites, signs of insertion-site infection, and other

Legal acts specifying learning outcomes:
672/2020;

Discipline: Medicine

Course status: Obligatory

Group of courses: B - major course

ISCED Code: 0912

Field of studies: Medicine

Field: Medicine

Learning profile: -

Form of studies: full-time

Level of studies: uniform master's studies

Year/Semester: 5th year 10th semester,
Medicine in English

Classes types: Practical training;

Classes: Practical training (120h);

Language: ANG

Introductory subject: Anatomy, Biochemistry, Physiology, Pathophysiology, Anesthesiology and Intensive Care, Gynecology and Obstetrics, Laboratory Diagnostics, Diagnostic Imaging, Hygiene and Epidemiology, Pharmacology with Toxicology, Pathology, Pre-hospital First Aid in Emergency Situations, Medical Ethics, Elements of Professionalism, Medical Communication.

Prerequisites: Achievement of the learning outcomes to date as specified in the study curriculum.

Organized by the unit:

Coordinators responsible for the course:

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related complications. Participation in emergency medical procedures in life-threatening conditions. Familiarization with the principles of suspicion and diagnosis of brain death. Familiarization with the principles of management of shock. After completion of the 5th year, the student is also required to complete a 2-week summer clerkship (60 hours) in gynecology and obstetrics, carried out in a gynecology and obstetrics ward. The internship includes familiarization with the organization and specific nature of work in the gynecology ward, obstetrics ward, and labor and delivery unit. Familiarization with basic procedures applied in the ward and with the competencies of the medical staff. Participation in maintaining medical documentation related to the admission, hospitalization, and discharge of gynecological patients. Participation in the admission of patients for elective delivery, emergency delivery, or women in labor. Performance of activities related to initiation of medical documentation and perineal hygiene of the laboring woman. Participation in preparation and implementation of medical orders – familiarization with, monitoring, and completion (under physician supervision) of individual order charts, and participation in planning therapeutic management. Measurement and monitoring of basic vital parameters of the fetus, newborn, and mother (blood pressure, heart rate, temperature, cardiotocography [CTG], blood glucose levels, pulse oximetry, cardiac monitoring, Apgar score). Participation in preparation of patients for diagnostic procedures (invasive and non-invasive) and knowledge of principles of collection and handling of specimens for diagnostic testing. Participation in gynecological examination per vaginam in pregnant and non-pregnant women. Participation in physical examination of the breasts, abdomen, and pelvis. Interpretation of laboratory and imaging test results. Participation in diagnosis of gynecological patients and ability to assess life-threatening conditions for the fetus and the mother. Participation in perinatal care. Familiarization with principles of breastfeeding and contraception. Participation in childbirth, conducting deliveries under supervision, and participation in peripartum procedures. Qualification of patients for cesarean section or other elective or life-saving surgical procedures and participation in these procedures. Participation in preparation of patients for childbirth, procedures, or surgeries—elective or life-saving—and participation in the procedures. Participation in post-delivery, post-procedure, or post-operative observation, as well as observation after diagnostic procedures. Participation in assessment of the placenta after delivery. Knowledge of the etiology and pathophysiology of the most common gynecological diseases. Familiarization with principles of cancer prevention of the breast and female reproductive organs.

Additional notes:

TEACHING OBJECTIVE:

The summer clerkship primarily enables the improvement and consolidation of practical skills and learning outcomes acquired during the academic year, particularly those related to the performance of routine medical duties. In addition, the summer clerkship both enables and requires active participation in medical procedures and professional responsibilities.

DESCRIPTION OF THE LEARNING OUTCOMES OF THE COURSE IN RELATION TO THE DESCRIPTION OF THE CHARACTERISTICS OF THE SECOND LEVEL LEARNING OUTCOMES FOR

**QUALIFICATIONS AT LEVELS 6-8 OF THE POLISH
QUALIFICATION FRAMEWORK IN RELATION TO THE SCIENTIFIC
DISCIPLINES AND THE EFFECTS FOR FIELDS OF STUDY**

Symbols for outcomes related to the discipline:

M/NM+++++, M/NMA_P7S_KO++++
++++, M/NMA_P7S_KR++++, M/NMA_P7S_UW++++
++++, M/NMA_P7S_WG++++

Symbols for outcomes related to the field of study:

M/NM_K.8.+ , M/NM_K.9.+ , M/NM_K.11.+ , KA7_KR1+ , K.1.+ , K.
2.+ , K.3.+ , K.4.+ , K.5.+ , F.U5.+ , F.U10.+ , F.U11.+ , F.U12.+ ,
F.U13.+ , F.U14.+ , F.U15.+ , F.U16.+ , F.U18.+ , F.U21.+ , F.U17.+ ,
F.U22.+ , G.U6.+ , M/NM_FW4.+ , M/NM_FW5.+ , M/NM_FW7.+ ,
M/NM_FW9.+

LEARNING OUTCOMES:

Knowledge (W1) – The student knows and understands: - legal regulations regarding medical confidentiality, keeping medical records, criminal, civil and professional liability of a doctor; - basics of disinfection, sterilization and aseptic procedures; - basic principles of pharmacotherapy; - individual groups of therapeutic agents; basic principles of pharmacotherapy; major drug side effects, including drug interactions; groups of drugs, the abuse of which can lead to poisoning; - the importance of verbal and non-verbal communication in the process of communicating with the patient and the concept of trust in interaction with the patient; - principles of nutrition for healthy and sick children, including natural feeding, preventive vaccinations and keeping a health balance of the child; the consequences of improper nutrition, including prolonged starvation, excessive eating and the use of an unbalanced diet, and disorders of digestion and absorption of digestive products; - principles of perioperative safety, patient preparation for surgery, general and local anesthesia and controlled sedation; - postoperative treatment with analgesic therapy and postoperative monitoring; - principles of diagnosis and therapeutic management in the most common problems of palliative medicine, including: 1) symptomatic treatment of the most common somatic symptoms, 2) treatment of neoplastic cachexia and the prevention and treatment of pressure ulcers,) the most common emergencies in palliative medicine; - principles of motivating the patient to pro-health behaviors and informing about unfavorable prognosis;

Skills (U1) – The student is able to indicate the rights of the patient, can provide care with respect for the patient's dignity. The student can: - keep the patient's medical records. - follow the rules of asepsis and antisepsis; - prepare a written and oral report on the patient's condition and applied medical and emergency measures, report to the supervisor and the interdisciplinary team; - conduct a medical interview with an adult patient; - perform basic procedures and medical treatments, including: 1) body temperature measurement (superficial and deep), pulse measurement, non-invasive blood pressure measurement, 2) monitoring of vital signs with a cardiomonitor, pulse oximetry, - plan diagnostic, therapeutic and prophylactic procedures - perform simple pharmacokinetic calculations; select drugs in appropriate doses in order to correct pathological phenomena in the body and in individual organs; - put on a peripheral puncture; dress a straight wound, put on and change a sterile surgical dressing; assess pressure ulcers and apply appropriate dressings; - act in case of injuries (apply a dressing or immobilize, dress and suture the wound); perform temporary immobilization of the limb, select the type of immobilization necessary for use in typical clinical situations and control the correctness of blood supply to the limb after applying the immobilizing dressing; supply external bleeding; - apply nutritional treatment, including enteral and parenteral nutrition; - monitor the patient's condition in the postoperative period based on vital parameters; - demonstrate responsibility for improving their qualifications and transferring knowledge to others;

Social competences (K1) – Student establishes and maintains deep and respectful contact with the patient, is guided by the good of the patient, observes the principles of academic and professional ethics, knows the rules for formulating conclusions from his own measurements or observations; is able to formulate opinions, able to implement the principles of professional camaraderie and cooperation in a team of specialists, including representatives of other medical professions, also in a multicultural and multinational environment; able to take responsibility for decisions made in the course of professional activity, including in terms of one's own safety and that of others. Observes medical confidentiality. Takes action towards the patient based on ethical principles. It promotes health-promoting behavior.

Symbols for outcomes related to the field of study:

Practical training – ['K1', 'U1', 'W1'] – Forms and Teaching Methods: Internships – ['K1', 'W1', 'U1', 'W2', 'U2', 'U3', 'U4', 'W4', 'W5', 'K2', 'K3', 'W3'] Internships (W1; U1; K1): Summer internships.

FORM AND CONDITIONS OF VERIFYING LEARNING OUTCOMES:

Practical training (Report) – ['K1', 'U1', 'W1'] – Form and Conditions for Verification of Learning Outcomes: Internships (Report) – ['K1', 'W1', 'U1', 'U2', 'W2', 'K2', 'K3', 'W3', 'U3', 'W4']
The student is required to submit a completed Internship Logbook to the Dean's Office of the Faculty of Medicine within the deadline specified in the academic year schedule. In the Internship Logbook, the student is obliged to record all skills acquired and improved during the internship, as well as activities not included in the official list of practical skills for the internship. Performance of the skills listed in the internship skills checklist and in the professionalism and social competencies assessment form must be confirmed by the signature of the internship supervisor. The grading scale and scoring for acquired skills are specified individually for each internship scope in the respective sections of the Internship Logbook. The final grade for the internship is awarded by the internship coordinator (the academic supervisor for the given year of the uniform Master's degree program in Medicine) and is confirmed by entry into the USOS system.

REQUIRED LITERATURE:

1. Tintinalli's Emergency Medicine: A Comprehensive Study Guide

Judith E. Tintinalli, J. Stephan Stapczynski, O. John Ma, Tintinalli's , 1) Judith E. Tintinalli, J. Stephan Stapczynski, O. John Ma; McGraw-Hill; 2019; Pages: -; Tome: -;

COMPLIMENTARY LITERATURE:



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Detailed description of ECTS credits awarded - part B

USOS Code: 48SJ-SUCS5

ECTS: 4.00

Cycle: 2026L

Summer Clerkship 5/5

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1. Contact hours with the academic teacher:

- participation in: Practical training	120 h
- consultation	2 h
	Total: 122 h

Independent work of a student:

-	0.00 h
	Total: 0.00 h

contact hours + independent work of a student Total: 122.00 h

1 ECTS credit = 25-30 h of an average student's work, number of ECTS

ECTS Points = 122.00 h : 25 h/ECTS = 4.00 ECTS

Average: 4.00 ECTS

- including the number of ECTS credits for contact hours with the direct participation of an academic teacher - 4.00 ECTS pts

- including the number of ECTS credits for hours of independent work of a student - 0.00 ECTS pts