



TOTAL per year:												
2nd Department of General and Oncological Surgery		30										
Educational objectives (max. 6 items) C1. To make the student know physiological requirements of the human organism for basic nutrients, pathophysiological mechanisms and clinical picture of malnutrition, and its consequences for health. C2. To make the student understand indications for parenteral and enteral nutrition, and the principles of choosing and making artificial feeding access. C3. To stimulate the student's awareness of recognizing malnutrition and understanding the necessity of preventing its development in illness. C4. To develop the student's skills in planning and administering parenteral and enteral nutrition. C5. To prepare the student to diagnose and treat complications of parenteral and enteral nutrition.												
Education result matrix for module/course in relation to verification methods of the intended education result and the type of class												
Number of course education result	Number of major education result	Student who completes the module/course knows/is able to	Methods of verification of intended education results (forming and summarising)	Form of didactic class <i>**enter the abbreviation</i>								
K 01	B.W18 B.W19 B.W20	explains the organism's requirements for energy and main nutrients, and how they are increased in typical diseases and conditions	oral response, debate, test	SE								
	B.W18 B.W19 B.W20	characterizes the consequences of malnutrition for specific systems and organs, and their influence on patient's health	oral response, debate, test	SE								
K 03	B.W18 B.W19 B.W20	describes the principles of preventing malnutrition associated with surgical and oncological treatment	oral response, debate, test	SE								
K 04	B.W18 B.W19 B.W20	describes the principles of treating and preventing malnutrition	oral response, debate, test	SE								
K 05	B.W18 B.W19 B.W20	names different routes of parenteral and enteral nutrition, and their possible complications	oral response, debate, test	SE								
K 06	B.W18 B.W19 B.W20	discusses the possibilities of treating and preventing malnutrition in hospital and at home	oral response, debate, test	SE								
S 01	E.U25	diagnoses malnutrition and evaluates the risk of its developing, based on the patient's history, physical examination and selected scoring systems	case analysis, debate, test	SE								
S 02	E.U25	fills in medical records of nutritional evaluation and treatment	demonstration, test	SE								
S 03	E.U25	qualifies a patient for nutritional intervention and chooses the adequate route	case analysis, debate, test	SE								
S 04	E.U25	plans the right type and amount of nutritional formula, and the mode of its administration in typical situations	oral response, debate, test	SE								
S 05	E.U25	uses aseptic techniques for parenteral and enteral nutrition	oral response, demonstration, test	SE								
S 06	E.U25	identifies common complications of parenteral and enteral nutrition, and proposes adequate management	oral response, debate, test	SE								



** L - lecture; SE - seminar; AC – auditorium classes; MC – major classes (non-clinical); CC – clinical classes; LC – laboratory classes; SCM – specialist classes (magister studies); CSC – classes in simulated conditions; FLC – foreign language course; PCP practical classes with patient; PE – physical education (obligatory); VP – vocational practice; SS – self-study, EL – E-learning .

Please mark on scale 1-5 how the above effects place your classes in the following categories:

communication of knowledge, skills or forming attitudes:

Knowledge: 5

Skills: 4

Student's amount of work (balance of ECTS points)

Student's workload (class participation, activity, preparation, etc.)	Student Workload (h)
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1. Contact hours:	30
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2. Student's own work (self-study):	9
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Total student's workload	39
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ECTS points for module/course	1,5
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Comments

Content of classes (please enter topic words of specific classes divided into their didactic form and remember how it is translated to intended educational effects)

Lectures

N/A

Seminars

1. Introduction. History of parenteral and enteral nutrition. Contemporary terminology.
2. Different types and causes of malnutrition.
3. Consequences of malnutrition.
4. Evaluation of patient's nutritional status.
5. Indications for nutritional intervention.
6. Demand for energy and nutrients.
7. Refeeding syndrome.
8. Nutrition therapy in different diseases and conditions.
9. Methods of nutritional intervention.
10. Planning nutrition therapy.
11. Oral feeding (dietician consulting, oral nutritional supplements).
12. Indications for enteral nutrition.
13. Different access routes for enteral feeding and principles of their placement.
14. Different types of commercial enteral formulas. The individual choice of enteral formula.
15. Principles of administration of enteral nutrition.
16. Complications of enteral nutrition.
17. Indications for parenteral nutrition.
18. Different types of venous access and principles of their placement.
19. Composition of mixtures for parenteral nutrition and commonly added supplements.
20. Types of products for parenteral nutrition: Ready-To-Use (RTU) multichamber bags vs. individually prepared mixtures.
21. Principles of administration of parenteral nutrition.
22. Complications of parenteral nutrition.
23. Organization of nutrition therapy in hospital and hospice care services. Nutrition Support Teams.



24. Medical records regarding nutrition therapy.
25. Home enteral and parenteral nutrition.
26. Evaluation of nutritional status: sample cases.
27. Planning enteral nutrition: sample cases.
28. Planning parenteral nutrition: sample cases.
29. Demonstration of sample products for enteral and parenteral nutrition, and the method of their administration.
30. Final test.

Practical classes

N/A

Other

N/A

Basic literature (list according to importance, no more than 3 items)

1. Sobotka L (Ed.): Basics in Clinical Nutrition. 4th ed. Galen 2011
2. Garden OJ (Ed.): Principles and Practice of Surgery. Chapter 3. Elsevier 2007, 2012

Additional literature and other materials (no more than 3 items)

1. www.espen.org – the website of European Society for Clinical Nutrition and Metabolism

Didactic resources requirements (e.g. laboratory, multimedia projector, other...)

computer, multimedia projector, Internet

Preliminary conditions (minimum requirements to be met by the student before starting the module/course)

Completed basic theoretical subjects from the initial years of studies

Conditions to receive credit for the course (specify the form, criteria and conditions of receiving credit for classes included in the module/course, admission terms to final theoretical or practical examination, its form and requirements to be met by the student to pass it and criteria for specific grades).

Each absence must be made up, including rector's days or dean's hours.

Participating in the course and obtaining minimum 50% points from the final test.

Grade:	Criteria for course
Very Good (5.0)	100% points from the test
Good Plus (4.5)	At least 87% points from the test
Good (4.0)	At least 75% points from the test
Satisfactory Plus (3.5)	At least 62% points from the test
Satisfactory (3.0)	At least 50% points from the test



Grade:	Criteria for exam (if applicable)
Very Good (5.0)	N/A
Good Plus (4.5)	
Good (4.0)	
Satisfactory Plus (3.5)	
Satisfactory (3.0)	

Name of unit teaching course:	2nd Department of General and Oncological Surgery
Address	Borowska 213, Wrocław
Phone	tel. 71 7343500, 71 7343520
E-mail	renata.mroz@umed.wroc.pl , adam.skalski@umed.wroc.pl

Person responsible for course:	Adam Skalski, MD, PhD
Phone	71 7343520
E-mail	adam.skalski@umed.wroc.pl

List of persons conducting specific classes:	degree/scientific or professional title	Discipline	Performer profession	Form of classes
Adam Skalski	MD, PhD	chirurgia	surgeon	SE

Date of Syllabus development

15.06.2019

Syllabus developed by

Adam Skalski, MD, PhD

Signature of Faculty Dean

Wrocław Medical University
FACULTY OF MEDICINE
VICE-DEAN FOR STUDIES IN ENGLISH
Prof. Andrzej Hendrich, PhD

Signature of Head of teaching unit

Uniwersytet Medyczny we Wrocławiu
II KATEDRA I KLINIKA
CHIRURGII OGÓLNEJ
I CHIRURGII ONKOLOGICZNEJ
kierownik

prof. dr hab. Wojciech Klejan

