

**SYLLABUS**

**concerning the cycle of education 2019-2025**

(date range)

**1.1. BASIC INFORMATION CONCERNING THIS SUBJECT / MODULE**

|  |  |
|--|--|
| Subject / Module                           | <b>Transplantology</b>                       |
| Course code / module *                     | <b>Tr/F</b>                                  |
| Faculty of (name of the leading direction) | <b>Medical College of Rzeszów University</b> |
| Department Name                            | <b>Medical College of Rzeszów University</b> |
| Field of study                             | <b>medical direction</b>                     |
| Level of education                         | <b>uniform master's studies</b>              |
| Profile                                    | <b>practical</b>                             |
| Form of study                              | <b>stationary / extramural</b>               |
| Year and semester                          | <b>year IV, semester VII</b>                 |
| Type of course                             | <b>Clinical clinical sciences</b>            |
| Coordinator                                | <b>Dr K Widenka, Prof. P.Kaliciński</b>      |
| First and Last Name of the Teacher         |  |

\* - According to the resolutions of the Faculty of Medicine

**1.2. Forms of classes, number of hours and ECTS**

| Lecture | Exercise | Conversation | Laboratory | Seminar | ZP | Practical | Self-learning | Number of points ECTS |
|---------|----------|--------------|------------|---------|----|-----------|---------------|-----------------------|
| 15      | 15       | -            | -          | 15      | -  | -         | -             | <b>2</b>              |

**1.3. The form of class activities**

classes are in the traditional form

classes are implemented using methods and techniques of distance learning

**1.4. Examination Forms / module** (exam, **credit with grade** or credit without grade)

**2. REQUIREMENTS**

Knowledge of human physiology, anatomy, cell biology and biochemistry, basic medical ethics

**3. OBJECTIVES, OUTCOMES, AND PROGRAM CONTENT USED IN TEACHING METHODS**

### 3.1. Objectives of this course/module

|    |  |
|----|--|
| C1 | Mastering theoretical knowledge in the field of transplantology and the possibility of its application in clinical practice. Presentation of legal, ethical aspects of organ transplantation from living and deceased donors as well as organization of transplants (POLTRANSPLANT). Gaining knowledge about the patient's quality of life after transplantation, using immunosuppressive therapy and the ability to recognize and fight complications after organ transplantation |
|----|--|

### 3.2 OUTCOMES FOR THE COURSE / MODULE (TO BE COMPLETED BY THE COORDINATOR)

| EK (the effect of education) | The content of the learning effect defined for the subject (module)   | Reference to directional effects (KEK) |
|------------------------------|---|--|
| EK_01                        | He knows the basic issues of surgical transplantology, indications for transplantation of irreversibly damaged organs and tissues and related procedures; | F.W14                                  |
| EK_02                        | He knows the principles of suspicion and the recognition of brain death.  | F.W15.                                 |
| EK_03                        | He knows the legal obligations of the doctor in the field of death;   | G.W8                                   |
| EK_04                        | He knows the regulations regarding the medical experiment and conducting other medical tests;   | G.W9                                   |
| EK_05                        | He knows legal regulations regarding transplants, artificial procreation, abortion, aesthetic procedures, palliative treatment, and mental diseases;      | G.W10.                                 |
| EK_06                        | Evaluates the condition of unconscious patients in accordance with the applicable international point scales;   | F.U21.                                 |
| EK_07                        | Explains to people using medical services their basic rights and the legal basis for granting these benefits;   | G.U3                                   |
| EK_08                        | In practice, he applies legal regulations regarding the issue medical certificates for the needs of patients, their families and external institutions;   | G.U4.                                  |
| EK_09                        | He is guided by the good of the patient, placing them in the first place  | K.02.                                  |

### 3.3 CONTENT CURRICULUM (filled by the coordinator)

#### A. Lectures

|                            |
|----------------------------|
| <b>Course contents</b>     |
| History of transplantology |

|   |
|---|
| Transplantation status in Poland and in the world, prospects for transplantology development, |
| The concept and criteria for brain death  |
| Surgical techniques for kidney, liver and heart transplantation                               |
| Surgical and internal complications, treatment after transplantation.                         |

## B. Exercises

|   |
|---|
| <b>Course contents</b>  |
| Practical elements of kidney transplantation - surgical technique |
| Practical elements of liver transplantation - surgical technique  |
| Practical elements of heart transplantation - surgical technique  |
| Practical elements of stem cell transplantation                   |
| Complications and treatment after transplantation                 |

## C. Seminars

|   |
|---|
| <b>Course contents</b>  |
| History of transplant medicine  |
| Legal regulations for transplantology in Poland,                                    |
| Organizational structure of organ procurement and transplantation.<br>Poltransplant |
| The concept and criteria for brain death part 1                                     |
| The concept and criteria for brain death part 2                                     |

### 3.4 TEACHING METHODS

**Lecture:** multimedia presentation.

**Exercises:** practical exercises, demonstration, lecture form.

**Seminars:** multimedia presentation, lecture form.

**Student's own work:** work with a book

## 4 METHODS AND EVALUATION CRITERIA

### 4.1 Methods of verification of learning outcomes

|                  |  |                 |
|------------------|--|-----------------|
| Symbol of effect | Methods of assessment of learning outcomes (Eg.: tests, oral exams, written exams, project reports, observations during classes) | Form of classes |
|------------------|--|-----------------|

|  |                |                   |
|--|----------------|-------------------|
| EK_01,<br>EK_02,<br>EK_03,<br>EK_04,<br>EK_05, | Written test   | Lecture, Seminars |
| EK_06,<br>EK_07,<br>EK_08,<br>EK_09            | Practical pass | Exercises         |

#### 4.2 Conditions for completing the course (evaluation criteria)

##### **Lecture (EK\_01, EK\_02, EK\_03, EK\_04, EK\_05):**

1. test pass and open questions:

A: Questions in the field of messages to remember;

B: Questions in the field of speech to understand;

C: Solving a typical written task;

D: Solving an atypical writing task;

- insufficient solution of tasks only from areas A and B =

rating 2.0

- for solving tasks only from areas A and B the possibility of obtaining

max. rating 3.0

- for the solution of tasks from the A + B + C area, the possibility of obtaining

max. evaluation 4.0

- for solving tasks from the A + B + C + D area

to obtain a rating of 5.0

##### **Written test**

5.0 - has knowledge of each of the contents of education at the level of 90% -100%

4.5 - has knowledge of each of the content of education at the level of 84% -89%

4.0 - has knowledge of each of the content of education at the level of 77% -83%

3.5 - has knowledge of each of the content of education at the level of 70% -76%

3.0 - has knowledge of each of the content of education at the level of 60% -69%

2.0 - has knowledge of each of the contents of education below 60%

##### **Exercises and Seminars (EK\_06, EK\_07, EK\_08):**

- pass with an assessment including:

|  |
|--|
| - attendance,  |
| - activity on exercises,   |
| - grades from partial tests  |
| 5.0 - the student actively participates in the classes, is well prepared, correctly interprets the dependencies and is able to draw the right conclusions, performs simple functional tests assessing the human body without errors  |
| 4.5 - the student actively participates in classes, with little help from the teacher, correctly interprets the occurring phenomena, performs simple functional tests assessing the human body with a small teacher's help   |
| 4.0 - the student actively participates in classes, with more help from the teacher, is improved, not always able to solve the problem and perform simple functional tests assessing the human body  |
| 3.5 - the student participates in classes, his scope of preparation does not allow for a comprehensive presentation of the discussed problem, he draws incorrect conclusions without help and incorrectly performs simple functional tests assessing the human body              |
| 3.0 - the student participates in classes, formulates conclusions requiring correction from the teacher, but commits minor mistakes, not fully understanding the causal relationships and causality, often incorrectly performs simple functional tests assessing the human body |
| 2.0 - the student passively participates in the classes, the statements are incorrect in substance, do not understand the problems and cannot perform simple functional tests assessing the body   |

#### 5. Total student workload required to achieve the desired result in hours and ECTS credits

| Activity  | Hours / student work |
|---|----------------------|
| Hours of classes according to plan with the teacher | 45                   |
| Preparation for classes                             | 10                   |
| Participation in the consultations                  | 2                    |
| The time to write a paper / essay                   | -                    |
| Preparation for tests                               | 5                    |
| Participation in colloquia                          | -                    |
| Other (e-learning)                                  | -                    |
| <b>SUM OF HOURS</b>                                 | <b>62</b>            |
| <b>TOTAL NUMBER OF ECTS</b>                         | <b>2</b>             |

#### 6. TRAINING PRACTICES IN THE SUBJECT / MODUL

|                                   |   |
|-----------------------------------|---|
| Number of hours                   | - |
| Rules and forms of apprenticeship | - |

## 6. LITERATURE

### READING:

1. Wojciech Rowiński, Janusz Wałaszewski, Leszek Pączek. Transplantologia Kliniczna. Wydawnictwo Lekarskie PZWL, W
2. Gabriel M. Danovitch Podręcznik transplantacji nerek. Pod redakcją Leszka Pączka i Grzegorza Senatorskiego. Wydawnictwo Czelej, Lublin 2007W arszawa 2004
3. Transplantologia praktyczna. Tom 1. Odrzucanie przeszczepu. Red. L. Pączek, K. Mucha, B. Foroniewicz. Wydawnictwo Czelej 2008.
4. Transplantologia praktyczna. Tom 2. Nowotwory po przeszczepieniu narządów. Red. L. Pączek, B. Foroniewicz, K. Mucha. Wydawnictwo Naukowe PWN 2009.

Acceptance Unit Manager or authorized person