



| Syllabus, academic year 2017/2018   |  |  |               |                         |                                   |   |                         |                                       |                                      |   |                               |                                    |                          |                                      |                 |
|---|--|--|---------------|-------------------------|-----------------------------------|---|-------------------------|---------------------------------------|--------------------------------------|---|-------------------------------|------------------------------------|--------------------------|--------------------------------------|-----------------|
| Description of the course   |  |  |               |                         |                                   |   |                         |                                       |                                      |   |                               |                                    |                          |                                      |                 |
| Course Name:  |  | Practical Clinical Teaching – chosen specialty: pediatrics   |               |                         |                                   | Group of detailed education results   |                         |                                       |                                      |   |                               |                                    |                          |                                      |                 |
|   |  |  |               |                         |                                   | Group code (E or F):<br>E   |                         |                                       |                                      | Group name:<br>Clinical nonsurgical                 |                               |                                    |                          |                                      |                 |
| Faculty   |  | Medicine   |               |                         |                                   |   |                         |                                       |                                      |   |                               |                                    |                          |                                      |                 |
| Major   |  | Medicine   |               |                         |                                   |   |                         |                                       |                                      |   |                               |                                    |                          |                                      |                 |
| Specialties   |  | not applicable   |               |                         |                                   |   |                         |                                       |                                      |   |                               |                                    |                          |                                      |                 |
| Level of studies  |  | X Uniform magister studies   |               |                         |                                   |   |                         |                                       |                                      |   |                               |                                    |                          |                                      |                 |
| Form of studies   |  | X full-time X part-time  |               |                         |                                   |   |                         |                                       |                                      |   |                               |                                    |                          |                                      |                 |
| Year of studies:  |  | VI   |               |                         |                                   | Semester:   |                         | X summer (april/may)                  |                                      |   |                               |                                    |                          |                                      |                 |
| Type of course  |  | X obligatory   |               |                         |                                   |   |                         |                                       |                                      |   |                               |                                    |                          |                                      |                 |
| Course  |  | X major  |               |                         |                                   |   |                         |                                       |                                      |   |                               |                                    |                          |                                      |                 |
| Language of instruction   |  | <input type="checkbox"/> Polish <input checked="" type="checkbox"/> English <input type="checkbox"/> other   |               |                         |                                   |   |                         |                                       |                                      |   |                               |                                    |                          |                                      |                 |
| * mark <input type="checkbox"/> with an X   |  |  |               |                         |                                   |   |                         |                                       |                                      |   |                               |                                    |                          |                                      |                 |
| Number of hours   |  |  |               |                         |                                   |   |                         |                                       |                                      |   |                               |                                    |                          |                                      |                 |
| Form of education   |  |  |               |                         |                                   |   |                         |                                       |                                      |   |                               |                                    |                          |                                      |                 |
| Unit teaching the course:   |  | Lectures (L)   | Seminars (SE) | Auditorium Classes (AC) | Major classes - not clinical (MC) | Clinical Classes (CC)   | Laboratory Classes (LC) | Classes in Simulated Conditions (CSC) | Practical Classes with Patient (PCP) | Specialist Classes – master studies (SCM)           | Foreign language Course (FLC) | Physical Education obligatory (PE) | Vocational Practice (VP) | Self-Study (Student's own work) (SS) | E-learning (EL) |
| Winter semester:  |  |  |               |                         |                                   | Not applicable  |                         |                                       |                                      |   |                               |                                    |                          |                                      |                 |
| Summer semester:  |  |  |               |                         |                                   | 180   |                         |                                       |                                      |   |                               |                                    |                          |                                      |                 |
| Total per year:   |  |  |               |                         |                                   | 180   |                         |                                       |                                      |   |                               |                                    |                          |                                      |                 |
| Educational objectives: (max. 6 items)  |  |  |               |                         |                                   |   |                         |                                       |                                      |   |                               |                                    |                          |                                      |                 |
| C1. Ability to perform in vivo and in vitro diagnostic tests of allergic diseases.  |  |  |               |                         |                                   |   |                         |                                       |                                      |   |                               |                                    |                          |                                      |                 |
| C.2 - Characteristics of major allergens, allergens hidden meaning, types and importance of cross-reactions.  |  |  |               |                         |                                   |   |                         |                                       |                                      |   |                               |                                    |                          |                                      |                 |
| C.3 - Principles of performance and interpretation of lung function tests (spirometry, pulse Oscillometry)  |  |  |               |                         |                                   |   |                         |                                       |                                      |   |                               |                                    |                          |                                      |                 |
| C.4 - Understanding the basics of theoretical and practical aspects of aerosoles in respiratory diseases  |  |  |               |                         |                                   |   |                         |                                       |                                      |   |                               |                                    |                          |                                      |                 |
| C.5 - Improving the physical examination of the cardiovascular system, the correct way to measure important parameters of life; performing and describing the ECG |  |  |               |                         |                                   |   |                         |                                       |                                      |   |                               |                                    |                          |                                      |                 |
| C.6 - Rules and exercise, practical information to perform basic screening with echocardiography.   |  |  |               |                         |                                   |   |                         |                                       |                                      |   |                               |                                    |                          |                                      |                 |
| Education results matrix for 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 (E or F group) | Student who completes the course knows/ is able to<br>Please enter from 5 to max. 7 education results – examples of verbs defining the education result in the scope of student's knowledge: uses, performs, resolves  |               |                         |                                   | Methods of verification of intended education results (forming and summarising) |                         |                                       |                                      | Form of didactic class<br>** enter the abbreviation |                               |                                    |                          |                                      |                 |
| S 01  | EU20                                     | Qualifies the patient for home treatment and hospital  |               |                         |                                   | Active participation in classes and test of practical skills                    |                         |                                       |                                      | CC  |                               |                                    |                          |                                      |                 |
| S 02  | EU24                                     | Interprets laboratory tests and identifies the causes of deviations  |               |                         |                                   | Active participation in classes and test of practical skills                    |                         |                                       |                                      | CC  |                               |                                    |                          |                                      |                 |
| S 03  | EU28                                     | Gets research material used in laboratory diagnostics  |               |                         |                                   | Active participation in classes and test of practical skills                    |                         |                                       |                                      | CC  |                               |                                    |                          |                                      |                 |
| S 04  | EU29                                     | Performs basic medical procedures and treatments, including body temperature, heart rate measurement, non-invasive measurement of blood pressure; monitoring of vital signs using a cardio-monitor, pulse oximetry; spirometry, oxygen therapy, assisted ventilation and replacement; Downloads swabs from the nose, throat and skin; standard electrocardiogram test, along with the interpretation |               |                         |                                   | Active participation in classes and test of practical skills                    |                         |                                       |                                      | CC  |                               |                                    |                          |                                      |                 |



|      |      |   |  |    |
|------|------|---|--|----|
| S 05 | EU30 | Assists in carrying out the following procedures : tests epidermal, intradermal tests and scarification tests and interpret their results | Active participation in classes and test of practical skills | CC |
| S06  | EU32 | Plans specialist consultations  | Active participation in classes and test of practical skills | CC |
| S07  | EU38 | Conducts medical records of the patient   | Active participation in classes and test of practical skills | CC |

\*\* L - lecture; SE - seminar; AC – auditorium classes; MC – major classes (non-clinical); **CC – clinical classes**; LC – laboratory classes; SCM – specialist classes (master 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:

Skills: 5

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

|   |                      |
|---|----------------------|
| Student's workload (class participation, activity, preparation, etc.) | Student Workload (h) |
| 1. Contact hours:   | <b>180</b>           |
| 2. Student's own work (self-study):                                   |                      |
| Total student's workload  |                      |
| <b>ECTS points for course</b>   | <b>10,0</b>          |
| 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)

Classes are conducted within the two branches of the Department. If possible, include student self-care for one or more patients. A significant emphasis of the course will be placed on developing skills of independent draw conclusions. An important element of the exercise in the Department of Clinical Pediatrics and Allergology will familiarize participants with the role of allergens in causing the symptoms of allergic diseases. Special consideration should be the clinical relevance of the individual allergens to help students understand that not every allergen is equally important in the pathogenesis and clinical significance is unequal. Participants within the Clinical Department of Cardiology will improve physical examination of the cardiovascular system, perform and describe the EKG, become familiar with the general principles describe ECG and RR and to make known the principles and improve the skills to perform basic projection, image analysis, the study echocardiography, as well as practical exercise and pre-analyze the results of the stress tests.

**Lectures – not applicable**

**Seminars – not applicable**

**Classes**

- 1 A detailed discussion of the role of different allergens and their meaning - introduction to the subject.
2. Allergens of animals (cat, dog, rodents, mosquitoes, horses, birds), perennial allergens (mites, house dust, molds outside the home, inside the home, cockroach, feathers, wool), drug allergens (antibiotics, analgesics, analgesics, ointments, drops), hymenoptera allergens (wasp, bee, hornet, mosquito, ant), pollen allergens (flowers, pollen of trees, grasses, weeds, herbs), food allergens (milk, eggs, citrus fruits, strawberries, nuts hazelnuts, peanuts, fish, meat, etc.).
3. Respiratory function tests (spirometry, Oscillometry, provocation - rules for the implementation and interpretation of research)
4. Aerosolotherapy in respiratory diseases (theoretical basis and practical aspects)
5. Molecular diagnostics of allergic diseases
6. Improving the physical examination of the cardiovascular system (silhouette and waist heart study by palpation-search the heart apex beat, the pulse search to TT. Radial, femoral, iliac)
7. The right way to measure important parameters of life (RR measurement, pulse measurement, pulse -oximetry)
8. Making and describing ECG (diversity in children)
9. Establishment and general principles for describing diagnostic assays (test Holter ECG, RR)
10. Function tests (stress test, tilt test) - practical application and preliminary analysis of the results.
11. Echocardiography - principles of exercise, practical information, the ability to perform basic projection. Common image analysis.

**Other - etc....**

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

Not applicable

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

Not applicable

**Didactic resources requirements:** (e.g. laboratory, multimedia projektor, other...)

Not applicable



**Preliminary conditions:** (minimum requirements to be met by the student before starting the course)

Not applicable

**Conditions to receive credit for the course** (specify the form 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)

**Active participation in classes and test of practical skills**

| Grade:                  | Criteria: (only for courses/module ending with an examination) |
|-------------------------|--|
| Very good (5,0)         | Not applicable   |
| Above good (4,5)        |  |
| Good (4,0)              |  |
| Sufficiently good (3,5) |  |
| Sufficient (3,0)        |  |

|                                      |   |
|--------------------------------------|---|
| <b>Name of unit teaching course:</b> | <b>1st Department of Pediatrics, Allergology and Cardiology</b>                                 |
| Address                              | <b>50-368 Wrocław, Chalubińskiego 2a</b>  |
| Phone                                | <b>secretary: 71 770 30 91, Professor: 71 770 30 90</b>   |
| E-mail                               | <b>andrzej.boznanski@umed.wroc.pl, aboz@pedalergol.am.wroc.pl, karolina.wojcik@umed.wroc.pl</b> |

|                                       |   |
|---------------------------------------|---|
| <b>Person responsible for course:</b> | <b>Professor Andrzej Boznański. MD, PhD</b>                       |
| Phone                                 | <b>71 770 30 90, 71 770 30 91</b>                                 |
| E-mail                                | <b>andrzej.boznanski@umed.wroc.pl, aboz@pedalergol.am.wroc.pl</b> |

| List of persons conducting specific classes: | degree/scientific or professional title | Discipline              | Performer profession | Form of classes |
|--|---|-------------------------|----------------------|-----------------|
| Barbara Sozańska                             | MD, PhD                                 | Pediatrics, allergology | physician; u.t.      | CC              |
| Anna Dębińska                                | MD, PhD                                 | Pediatrics, allergology | physician; u.t.      | CC              |
| Hanna Danielewicz                            | MD, PhD                                 | Pediatrics, allergology | physician; u.t.      | CC              |
| Wanda Balińska -Miśkiewicz                   | MD, PhD                                 | Pediatrics, allergology | physician; u.t.      | CC              |
| Marek Wasicionek                             | MD, PhD                                 | Pediatrics, cardiology  | physician; u.t.      | CC              |
| Ewa Masłowska                                | MD, PhD                                 | Pediatrics, cardiology  | physician; u.t.      | CC              |

**Date of Syllabus development**

24.02.2017 r.

**Syllabus developer by**

*Prof. dr hab. Andrzej Boznański*  
 Uniwersytet Medyczny we Wrocławiu  
**Signature of Head of teaching unit**  
 ALERGOLOGIA I KARDIOLOGIA  
 kierownik  
 prof. dr hab. Andrzej Boznański

**Signature of Faculty Dean**

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 prof. dr hab. Andrzej Hendrich