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| **Syllabus for academic year: 2021/2022****Training cycle: 2016/2022** |
| **Description of the course** |
| **Course** | Internal diseases -angiology (3) | Group of detailed education results |
| Group codeE | Group nameNoninterventional clinical sciences |
| **Faculty** | Faculty of Medicine |
| **Major**  | medicine |
| **Level of studies** | X uniform magister studies1st degree studies2nd degree studies3rd degree studiespostgraduate studies |
| **Form of studies** | X full-timepart-time |
| **Year of studies** | 6 | **Semester:** | X winterX summer |
| **Type of course** | X obligatorylimited choicefree choice / optional |
| **Language of study** | Polish X English |
| **Number of hours** |
| Form of education |
|  | 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) | Foreign language Course (FLC) | Physical Education (PE) | Vocational Practice (VP) | Directed Self-Study (DSS) | E-learning (EL) |
| **Winter semester:** |
| Department of Angiology, Hypertension and Diabetology |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Direct (contact) education[[1]](#footnote-1) |  |  |  |  | 10 |  |  |  |  |  |  |  |  |
| Distance learning[[2]](#footnote-2) |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **Summer semester:** |
| Department of Angiology, Hypertension and Diabetology |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Direct (contact) education |  |  |  |  | 15 |  |  |  |  |  |  |  |  |
| Distance learning |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **TOTAL per year:** |
| Department of Angiology, Hypertension and Diabetology |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Direct (contact) education |  |  |  |  | 25 |  |  |  |  |  |  |  |  |
| Distance learning |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **Educational objectives** (max. 6 items)C1. Acquiring knowledge about etiopathogenesis, symptomatology, principles of diagnostics and treatment of vascular diseases.C2. Knowledge of preventive measures against cardiovascular diseases.C3. Student should get skills of history taking, the accurate physical examination with proper interpretation of abnormalities found in medical examination in vascular diseases.C4. Acquiring the ability to interpret the results of basic laboratory and diagnostic tests, especially the imaging tests and the interpretation of disclosed abnormalities in vascular diseases .C5. Acquiring the ability to perform differential diagnosis in diseases of the vascular system. Keeping medical records.C6. Development of social competences needed to practice the medical profession, in accordance with graduate’s profile. |
| **Education result for course in relation to verification methods of the intended education result and the type of class:** |
| Number of detailed education result | Student who completes the course knows/is able to | Methods of verification of intended education results | Form of didactic classes |
| E.W1. | **In terms of knowledge the student knows and understands:**the environmental and epidemiological determinants of the angiology diseases; | oral answer | CC |
| E.W7. | the causes, symptoms, principles of diagnosis and therapeutic management of the most common angiological diseases and their complications | oral answer | CC |
| E.U1. | **In terms of skills the student is able to:**conduct anamnesis with the patient with vascular diseases.  | student observation during the patient's examination | CC |
| E.U3. | conduct a complete and focused physical examination of an adult patient with vascular diseases | student observation during the patient's examination | CC |
| E.U12. | perform differential diagnosis of the most common angiological diseases | oral answer | CC |
| E.U16. | plan diagnostic, therapeutic and preventive procedures in the most common vascular diseases | oral answer | CC |
| E.U29. | perform basic medical procedures and treatments including:- heart rate measurement, non-invasive blood pressure measurement, ankle-brachial index | student observation during the patient's examination | CC |
| E.U35. | assess pressure sores/ulcers and apply appropriate dressings; | student observation during the patient's examination | CC |
|  | The student establishes and maintains deep and respectful contact with the patient, and shows understanding for worldview and cultural differences | student observation during the patient's examination | CC |
|  | The student respects medical confidentiality and patient's rights | student observation during the patient's examination | CC |
|  | The student takes actions towards the patient based on ethical principles, with the awareness of social conditions and limitations resulting from the disease | student observation during the patient's examination | CC |
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| **Student's amount of work (balance of ECTS points):** |
| **Student's workload** (class participation, activity, preparation, etc.) | **Student Workload** |
| 1. Number of hours of direct contact: | 25 |
| 2. Number of hours of distance learning: |  |
| 3. Number of hours of student's own work: | 10 |
| 4. Number of hours of directed self-study | n/a |
| Total student's workload | 35 |
| **ECTS points for course** | 8 |
| **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) |
| **Clinical Classes****Winter semester:**1.Chronic, acute and critical lower limb ischemia: etiology, clinical picture, diagnosis and treatment Extracranial carotid and vertebral artery stenosis: etiology, clinical picture, diagnosis and treatment Secondary arterial hypertension due to renal artery stenosis. Renal artery angioplasty: indications and contraindicationsDiabetic foot syndrome Principles of treatment of chronic wounds 2.Chronic venous insufficiency of the lower extremities Superficial thrombophlebitis Venous thromboembolism Thrombophilia: definition, diagnosis and treatment General principles of anticoagulant therapy**Summer semester:**1.Life-threatening conditions in the course of aortic syndromes: - aortic dissection- aortic aneurysmCongenital vascular malformations: etiology, clinical picture, diagnosis and treatment.Vasculitis. Etiology, clinical picture, diagnosis and treatment of selected diseases: - Takayasu's arteritis- Giant -cell arteritis- T[hromboangiitis obliterans](http://emedicine.medscape.com/article/460027-overview) (Buerger’s disease)2.Subclavian steal syndromeThoracic outlet syndrome: pathogenesis, differential diagnosis, treatmentOther vascular compression syndromes:- May-Thurner syndrome- popliteal artery entrapment syndrome- nutcracker syndromeCompletion of the exercises Microcirculation disorders. Raynaud's phenomenonSuperior vena cava syndrome 3.Diseases of the lymphatic system Principles of compression therapy  |
| **Basic literature** (list according to importance):1.“Harrison’s Principles of Internal Medicine”, Publisher: McGraw-Hill Medical; 20th Edition.2. Gerd Herold ,,Internal Medicine” Publisher: lulu. com; First English Edition 2018.3. Macleod’s Clinical Examination. Graham Douglas, Fiona Nicol, Colin Robertson. Edition 14th, 2018.**Additional literature and other materials:**1.2017 ESC Guidelines on the Diagnosis and Treatment of Peripheral Arterial Diseases, in collaboration with the European Society for Vascular Surgery (ESVS https://academic.oup.com/eurheartj/article/39/9/763/40950382. 2014 ESC Guidelines of the diagnosis and treatment of aortic diseases<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC5479414/>3. Venous thromboembolic diseases: the management of venous thromboembolic diseases and the role of thrombophilia testing<http://www.ebm-guidelines.com/ebmg/ltk.free?p_artikkeli=ebm00108> |
| **Preliminary conditions:**(minimum requirements to be met by the student before starting the course)The student should know the basics of anatomy and physiology of the vascular system and know the basics of internal propedeutics and the material in angiology from the previous years of the study. |
| **Conditions to receive credit for the course:**(specify the form and conditions of receiving credit for classes included in the 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)Attention! Attendance can not be a condition for passing the courseFull participation in the exercises (absences in accordance with the study regulations), oral response as well as the subjective and physical examination of the angiological patient for the assessment.  |
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| **Grade:** | **Criteria for courses ending with a grade[[3]](#footnote-3)** |
| Very Good (5.0) | Very good knowledge of issues related to etiopathogenesis, symptomatology, treatment and prevention of vascular diseases is assessed very well, the student interprets medical tests, makes a diagnosis, conducts differential diagnosis, and proposes very good treatment. |
| Good Above (4.5) | Skills and knowledge as above, slight deficiencies in subjects of minor clinical importance. |
| Good (4.0) | Good knowledge of issues related to etiopathogenesis, symptomatology, treatment and prevention of vascular diseases.The student interprets medical examinations, makes a diagnosis, performs a differential diagnosis, and proposes a good treatment. |
| Satisfactory Plus (3.5) | Presentation of knowledge at a basic level, with the correct interpretation of phenomena.Quite good knowledge of issues related to etiopathogenesis, symptomatology, treatment and prevention of the vascular system.The student interprets medical tests, makes a diagnosis, performs differential diagnosis, and proposes basic treatment. |
| Satisfactory (3.0) | Sufficient knowledge of issues related to etiopathogenesis, symptomatology, treatment and prevention of the vascular system, without making mistakes of clinical significance. The student interprets basic medical tests, makes a diagnosis, performs differential diagnosis, and proposes sufficient treatment. |
|  | **Criteria for courses ending with a credit³** |
| Credit |  |
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| **Grade:** | **Criteria for exam³** |
| Very Good (5.0) |  |
| Good Above (4.5) |  |
| Good (4.0) |  |
| Satisfactory Plus (3.5) |  |
| Satisfactory (3.0) |  |
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| **Department in charge of the course:** | [Department of Angiology, Hypertension and Diabetology](http://www.en.umed.wroc.pl/en-angiologia) |
| **Department address:** | ul. Borowska 213, Wrocław  |
| **Telephone:** | 71 733 22 00 |
| **E-Mail:** | ang.nt.diab@umed.wroc.pl, andrzej.szuba@umed.wroc.pl |
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| **Person in charge for the course:** | prof. dr hab. Andrzej Szuba  |
| **Telephone:** | 71 733 22 00 |
| **E-Mail:** | andrzej.szuba@umed.wroc.pl |
| **List of persons conducting specific classes:** |
| Name and surname | Degree/scientific or professional title | Discipline | Performed profession | Form of classes |
| Andrzej Szuba | MD, PhD, Professor | Internal diseases, angiology, hypertensiology | Physician, academic teacher | clinical classes |
| Rafał Małecki  | MD, PhD, Associate Professor | Internal diseases, angiology | Physician, academic teacher | clinical classes |
| Angelika Chachaj  | MD, PhD | Internal diseases,angiology | Physician, academic teacher | clinical classes |
| Maciej Rabczyński  | MD, PhD | Internal diseases, angiology | Physician, academic teacher | clinical classes |
| Marta Wasilewska | MD | Internal diseases, angiology | Physician, academic teacher | clinical classes |
| Jędrzej Fischer | MD | Internal diseases, during specialization in angiology | Physician, academic teacher | clinical classes |
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| **Date of Syllabus development**  | **Syllabus developed by**  |
| 29.06.2021 | Angelika Chachaj, MD, PhD |
| **Signature of Head of teaching unit** |
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**Signature of Faculty Dean**  |
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1. Education conducted with direct participation of university teachers or other academics [↑](#footnote-ref-1)
2. Education with applied methods and techniques for distance learning [↑](#footnote-ref-2)
3. The verification must cover all education results, which are realize in all form of classes within the course [↑](#footnote-ref-3)