

Ophthalmology

Educational subject description sheet

Basic information

Department Faculty of Medicine Field of study Medical Program Study level long-cycle master's degree program Study form full-time Education profile general academic Disciplines Medical science		Didactic cycle 2016/17 Realization year 2019/20 Lecture languages English Block obligatory for passing in the course of studies Mandatory obligatory Examination examination Standard group F. Clinical procedural sciences
Subject coordinator	Izabella Karska-Basta	
Lecturer	Bożena Romanowska-Dixon, Izabella Karska-Basta, Agnieszka Kubicka-Trząska, Anna Markiewicz, Agnieszka Filemonowicz-Skoczek, Katarzyna Żuber-Łaskawiec, Weronika Pocij-Marciak	

Periods Semester 7, Semester 8	Examination examination Activities and hours lecture: 20, classes: 40	Number of ECTS points 4.0
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Goals

C1	The aim of education is to acquire knowledge about and the ability to recognize eye diseases, provide first aid in the case of eye injuries, recognize symptoms that require immediate specialist assistance, as well as the selection of diagnostic tests and interpretation of the results of ophthalmologic consultations.
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Subject's learning outcomes

Code	Outcomes in terms of	Effects	Examination methods
Knowledge - Student knows and understands:			
W1	symptoms and course of diseases	O.W2	written examination, practical colloquiums
W2	methods of diagnostic and therapeutic procedures appropriate for specific disease states	O.W3	written examination, practical colloquiums
W3	issues related to diseases of the visual system, in particular: 1) the causes, symptoms, principles of diagnosis and therapeutic management of the most common ophthalmic diseases, 2) ophthalmic complications of systemic diseases and their ophthalmic symptomatology, and correct methods of dealing with these cases, 3) surgical management of specific eye diseases, 4) the main groups of drugs used in ophthalmology, their adverse reactions and interactions, 5) the groups of generally used medicines with complications and ophthalmic contraindications and their mechanism	F.W11	written examination, practical colloquiums
Skills - Student can:			
U1	identify medical problems and prioritize medical management	O.U1	written examination, practical colloquiums
U2	perform ophthalmic screening tests	F.U19	written examination, practical colloquiums
U3	recognize ophthalmologic conditions requiring immediate specialist help and provide preliminary, qualified help in cases of physical and chemical injuries of the eye	F.U20	written examination, practical colloquiums
Social competences - Student is ready to:			
K1	to establish and maintain deep and respectful contact with patients and to show understanding for differences in world views and cultures	O.K1	practical colloquiums
K2	respect medical confidentiality and patients' rights	O.K3	practical colloquiums
K3	to be guided by the well-being of a patient	O.K2	practical colloquiums
K4	take actions towards the patient on the basis of ethical norms and principles, with an awareness of the social determinants and limitations of the disease	O.K4	practical colloquiums
K5	perceive and recognize own limitations and self-assessing educational deficits and needs	O.K5	practical colloquiums
K6	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	O.K9	practical colloquiums
K7	formulate conclusions from own measurements or observations	O.K8	practical colloquiums

Calculation of ECTS points

Activity form	Activity hours*
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lecture	20
classes	40
preparation for classes	20
preparation for examination	25
practice	15
Student workload	Hours 120
Workload involving teacher	Hours 60
Practical workload	Hours 55

* hour means 45 minutes

Study content

No.	Course content	Subject's learning outcomes	Activities
1.	Lectures are primarily of an informative nature, although the lecturer can also conduct lectures in an interactive form, engaging students in the discussed problem based on previously acquired knowledge; e.g. news on the anatomy and physiology of the eye. During lectures, basic eye diseases are discussed, manifested as "Red eye", diseases that cause sudden deterioration of vision ("acute ophthalmologic conditions"), and chronic ophthalmologic conditions that cause vision loss (cataracts, glaucoma, retinal and macular diseases, uveitis). The topics of lectures also include discussion of ophthalmic conditions associated with systemic diseases (e.g. diabetes, uveitis, Lyme disease) that require interdisciplinary management. Clinical division, diagnostics and treatment of strabismus, as well as issues related to neuroscience are also presented.	W1, W2	classes, lecture
2.	Classes are interactive, clinical case analysis is conducted during classes, and a didactic discussion on the discussed problem is conducted.	W3	classes

3.	<p>Exercises: Understanding the most important diagnostic methods of the visual system (visual acuity assessment, refractive defect test, tonometry, anterior segment and fundus examination), including imaging (USG, OCT, fluorescein angiography, angio-OCT). Demonstration of patients with various ophthalmic diseases; collecting ophthalmic history, assessing the anterior segment of the eyeball in the slit lamp and the fundus using an ophthalmic speculum. Knowledge of recognition and management of ophthalmic emergencies, ability to provide first ophthalmic aid (conjunctival sac rinsing, inversion of eyelids, removal of foreign bodies from the conjunctival sac), learning to apply ointments, drops into the conjunctival sac and putting on an eye dressing in outpatient and / or hospitalized patients in the Ward.</p> <p>Students during practical classes have the opportunity to observe ophthalmic procedures "live" directly in the operating room or via multimedia in the lecture room.</p>	U1, U2, U3, K1, K2, K3, K4, K5, K6, K7	classes
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Course advanced

Teaching methods:

case study, classes / practicals, clinical classes, discussion, lecture, educational film, group work, seminar, lecture, practical classes

Activities	Examination methods	Credit conditions
lecture	written examination	The exam in the form of a multiple-choice test, consisting of 35 questions. A condition for admission to the theoretical exam in ophthalmology is attendance at all seminars and exercises and obtaining credit for practical classes (passed practical exam) at the assistant training subgroup.
classes	practical colloquiums	Checking the skills of visual acuity testing using Snellen charts, assessment of the anterior segment of the eyeball in the slit lamp, basics of fundus examination, conjunctival sac flushing, placing the drops into the conjunctival sac, inverting the eyelids.

Entry requirements

Anatomy and physiology of the eye.

Literature

Obligatory

1. The Little Eye Book. A Pupil's Guide to Understanding Ophthalmology-Janice K. Ledford, Roberto Pineda, Publisher Slack INC., 1 st edition (January 2002), ISBN 1556425600
2. Basic Ophthalmology for Medical Students and Primary Care Residents- Cynthia A. Bradford (Editor), Paperback 7 th edition (October 1998), American Academy of Ophthalmology; ISBN 1560550988

Standard effects

Code	Content
F.U19	perform ophthalmic screening tests
F.U20	recognize ophthalmologic conditions requiring immediate specialist help and provide preliminary, qualified help in cases of physical and chemical injuries of the eye
F.W11	issues related to diseases of the visual system, in particular: 1) the causes, symptoms, principles of diagnosis and therapeutic management of the most common ophthalmic diseases, 2) ophthalmic complications of systemic diseases and their ophthalmic symptomatology, and correct methods of dealing with these cases, 3) surgical management of specific eye diseases, 4) the main groups of drugs used in ophthalmology, their adverse reactions and interactions, 5) the groups of generally used medicines with complications and ophthalmic contraindications and their mechanism
O.K1	to establish and maintain deep and respectful contact with patients and to show understanding for differences in world views and cultures
O.K2	to be guided by the well-being of a patient
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O.K5	perceive and recognize own limitations and self-assessing educational deficits and needs
O.K8	formulate conclusions from own measurements or observations
O.K9	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
O.U1	identify medical problems and prioritize medical management
O.W2	symptoms and course of diseases
O.W3	methods of diagnostic and therapeutic procedures appropriate for specific disease states