

Course description

Part 1

Informacje ogólne o przedmiocie / General information about the course	
1. Major of study: medicine	2. Study level: unified MSc 3. Form of study: intramural
4. Year: VI	5. Semester: XI
6. Course name: Ophtalmology – Family Practice Sub-I	
7. Course status: required	
8. Course contents and assigned learning outcomes Basic knowledge about diagnosing and treatment in ophthalmology Visual acuity examination (Snellen cards, preferential looking test, color vision) Visual field examination (static perimetry, kinetic perimetry) Head of the optic nerve examination using ophthalmoscope and Volk lens Anterior and posterior chamber of the eyeball disease Proceedings in the ocular trauma Learning outcomes / reference to learning outcomes indicated in the standards For knowledge – student knows and understands: Knows the causes, symptoms, principles of diagnosis and therapeutic treatment in the most common ophthalmologic diseases Knows ophthalmologic complications of systemic diseases along with their ophthalmologic symptomatology and correct management of those issues Knows surgical procedures in particular eye diseases Knows basic groups of drugs used in ophthalmology General knowledge of groups of ophthalmic drugs, their mechanism of action, complications and contraindications Recognizes emergencies in ophthalmology, requiring immediate ophthalmic help and providing initial qualified help in cases of physical and chemical eye injuries Knows physiology and conditions for the proper development of vision and prevention of amblyopia and the most common eye diseases genetically determined Knows methods of undertaking case history, basic methods of examining the eye, especially visual acuity and the anterior and posterior segment of the eye For skills student can do: Can recognize the most common ophthalmologic diseases, choose diagnostic tests and plan therapeutic procedures Can recognize ophthalmologic complications of systemic diseases along with their ophthalmologic symptomatology and correct methods of proceed to those issues Can indicate diseases that require surgical treatment in ophthalmology, can discuss general principles of basic ophthalmological procedures Can discuss the basic groups of drugs used in ophthalmology Can name the groups of drugs used in general, which are associated with complications and contraindications of the eye and explain their mechanism in relation to the cornea, lens, retina and optic nerve Can recognize ophthalmologic emergencies requiring immediate specialist help and can give preliminary qualified help in cases of physical and chemical eye injuries; can flush the conjunctival sac, turn the eyelids, administer drugs to the conjunctival sac, put on a dressing; knows the rules of transporting a patient with an eye injury	

Can assess the conditions for the proper development of vision , perform tests aimed at prevention of amblyopia; can recognize the symptoms of the most common genetic diseases genetically determined
Can undertake medical case history and examine visual acuity, approximate field of view, approximate intraocular pressure and the anterior and posterior segment of the eye

For social competencies student is ready to:

Establish and maintain a proper and respectful contact with the patient

Guide the good of the patient, placing them in the first place

Respect medical confidentiality and patient's rights

Possess knowledge of own limitations and the ability to up to date skills.

9. Number of hours for the course		28
10. Number of ECTS points for the course		1,5
11. Methods of verification and evaluation of learning outcomes		
Learning outcomes	Methods of verification	Methods of evaluation*
Knowledge	Written evaluation – open questions Grade credit – MCQ	* Oral test
Skills	Report Observation Practical exam	* Practical exam
Competencies	Observation	* Observation

* The following evaluation system has been assumed:

Very good (5,0) – the assumed learning outcomes have been achieved and significantly exceed the required level

Better than good (4,5) – the assumed learning outcomes have been achieved and slightly exceed the required level

Good (4,0) – the assumed learning outcomes have been achieved at the required level

Better than satisfactory (3,5) – the assumed learning outcomes have been achieved at the average required level

Satisfactory (3,0) – the assumed learning outcomes have been achieved at the minimum required level

Unsatisfactory (2,0) – the assumed learning outcomes have not been achieved

Course description

Part 2

Other useful information about the course		
12. Name of Department, mailing address, e-mail: Department of Ophthalmology, Faculty of Medical Sciences in Katowice, Medical University of Silesia, Katowice, Poland		
13. Name of the course coordinator: Prof. dr hab. n. med. Dorota Pojda-Wilczek, pojda-wilczek@wp.pl		
14. Prerequisites for knowledge, skills and other competencies: Knowledge of the causes, symptoms, principles of diagnosis and therapeutic treatment in the most common ophthalmologic diseases. Knowledge of ophthalmologic complications of systemic diseases with their ophthalmologic symptomatology and correct ways to proceed to those issues. Knowledge of surgical procedures in particular eye diseases. Knowledge of the basic groups of drugs used in ophthalmology. Knowledge of groups of drugs used in general, which are associated with complications and contraindications of ophthalmology and the ability to explain their mechanism. Ability to recognize emergencies in ophthalmology, requiring immediate ophthalmic help and providing initial qualified help in cases of physical and chemical injuries of the eye. Knowledge of physiology and conditions for the proper development of vision and prevention of amblyopia and the most common eye diseases genetically determined. Knowledge of undertaking case history, basic methods of examining the eye, especially visual acuity and the anterior and posterior segment of the eye.		
15. Number of students in groups	In accordance with the Senate Resolution	
16. Study materials	Lectures	
17. Location of classes	Department of Ophthalmology, Faculty of Medical Sciences in Katowice, Medical University of Silesia, Katowice, Poland	
18. Location and time for contact hours	Department of Ophthalmology, Faculty of Medical Sciences in Katowice, Medical University of Silesia, Katowice, Poland 7:30 am – 3:00 pm	
19. Learning outcomes		
Number of the course learning outcome	Course learning outcomes	Reference to learning outcomes indicated in the standards
	knowledge	
P_W01 / C_K01	Knows the causes, symptoms, principles of diagnosis and therapeutic treatment in the most common ophthalmologic diseases	
P_W02 / C_K02	Knows ophthalmologic complications of systemic diseases along with their ophthalmologic symptomatology and correct methods of proceed to those issues	
P_W03 / C_K03	Knows surgical procedures in particular eye diseases	
P_W04 / C_K04	Knows basic groups of drugs used in ophthalmology	
P_W05 / C_K05	Knows groups of drugs used in general, which are associated with complications and contraindications of ophthalmology and the ability to explain their mechanism	

P_W06 / C_K06	Recognizes emergencies in ophthalmology, requiring immediate ophthalmic help and providing initial qualified help in cases of physical and chemical injuries of the eye	
P_W07 / C_K07	Knows physiology and conditions for the proper development of vision and prevention of amblyopia and the most common eye diseases genetically determined	
P_W08 / C_K08	Knows methods of undertaking case history, basic methods of examining the eye, especially visual acuity and the anterior and posterior segment of the eye	
	skills	
P_U01 / C_S01	Can recognize the most common ophthalmologic diseases, choose diagnostic tests and plan therapeutic procedures	
P_U02 / C_S02	Can recognize ophthalmologic complications of systemic diseases along with their ophthalmologic symptomatology and correct methods of proceed to those issues	
P_U03 / C_S03	Can indicate diseases that require surgical treatment in ophthalmology, can discuss general principles of basic ophthalmological procedures	
P_U04 / C_S04	Can discuss the basic groups of drugs used in ophthalmology	
P_U05 / C_S05	Can name the groups of drugs used in general, which are associated with complications and contraindications of the eye and explain their mechanism in relation to the cornea, lens, retina and optic nerve	
P_U06 / C_S06	Can recognize ophthalmologic emergencies requiring immediate specialist help and can give preliminary qualified help in cases of physical and chemical eye injuries; can flush the conjunctival sac, turn the eyelids, administer drugs to the conjunctival sac, put on a dressing; knows the rules of transporting a patient with an eye injury	
P_U07 / C_S07	Can assess the conditions for the proper development of vision , perform tests	
P_U08 / C_S08	Can undertake medical case history and examine visual acuity, approximate field of view, approximate intraocular pressure and the anterior and posterior segment of the eye	
20. Forms and topics of classes Lectures and multimedia lectures Practical classes in the study room Practical classes in the diagnostic laboratory Clinical cases presentation Observation of surgical procedures through live transmission from the operating room		Number of hours
21.1. Lectures		
The most common eye diseases current knowledge and hopes for the future: Diseases of the eyelids, conjunctiva, cornea.		
The most common eye diseases: Glaucoma - a silent sight killer - what we should know about it. Lasers in ophthalmology - current knowledge and hopes for the future.		
The most common eye diseases: Cataract, surgical methods and intraocular lenses - past, present and future.		
The effect of drugs used in general on the eye. Sight and general diseases.		
Injuries of the eye. Children's ophthalmology.		
22.2. Seminars		
Ophthalmic optics, refractive errors, visual acuity.		

Corneal, sclera and tear disorders. Dry eye syndrome.	
Diseases of eye socket, eyelids and conjunctiva.	
Ophthalmic examination of children. Strabismus. The development of vision, amblyopia in children. Nystagmus	
Disorders of the choroid and lens.	
Glaucoma and other neuropathies of the optic nerve: ischemic, inflammatory, and compressive.	
Retinal diseases: inflammation, detachment, degeneration (AMD), embolism and retinal blood clots. Changes of the fundus in hypertension, diabetes and atherosclerosis.	
Introduction to ophthalmic surgery.	
Diseases of the sight in children. Retinopathy of prematurity.	
Injuries of the eye. Toxic neuropathies of the optic nerve. Occupational diseases.	
23.3. Labs	
Examination of visual acuity and refraction, principles of the glass optometry, methods of refractive errors correction.	
Examination of abnormalities of the eye position and eye movement . Binocular vision. Double vision.	
Examination of eye position in the orbit, examination of the anterior segment of eye, eyelids inversion and examination of eye fundus. Flushing the conjunctival sac, medication administration. Ophthalmic drugs.	
Corneal epithelial continuity test, fluorescein test, Schirmer test, probing tear ducts.	
Diagnosis of optic opacity. Examination in transmitted light.	
Glaucoma- diagnostic and therapeutic procedures. Types of perimetry. Color vision testing.	
The importance of fluorescein angiography. Amsler's test. Fundus examination.	
Surgical treatment in ophthalmology (live surgery - transmission from the operating room)	
Differences of children examination and treatment. Patients presentation.	
Conjunctival and corneal foreign body removal, first aid in eye burns and appendages, rules of eye injuries dressings.	
24. Readings	
1. J. Kanski Clinical Ophthalmology, 2. Babineau MR, Sanchez LD. Ophthalmic procedures in the emergency department. Emerg Med Clin Nothe Am. 2008 Feb; 26(1):17-37	
25. Detail evaluation criteria	
In accordance with the recommendations of the inspection bodies Completion of the course – student has achieved the assumed learning outcomes Detail criteria for completion and evaluation of the course are specified in the course regulations	