

## Subject:

### I. General information

<b>Organization unit</b>	Faculty of Rehabilitation Chair: Rehabilitation Supervisor: Małgorzata Łukowicz Assoc. Prof. PhD, MD
<b>Course name</b>	Clinical physiotherapy in movement disorders and internal diseases - physiotherapy in pulmonology
<b>Subject code</b>	?
<b>Teaching language</b>	English
<b>Type of subject (obligatory/ facultative)</b>	facultative
<b>Level of studies (eg. bachelor, master)</b>	bachelor
<b>Study year</b>	2
<b>Semester</b>	3 / 4
<b>ECTS points</b>	4
<b>Teacher</b>	Agnieszka Lewińska MSc
<b>Studies program in which the subject is realized</b>	PHYSIOTHERAPY
<b>Method of realization (stationary/ distance learning)</b>	Stationary / distance learning
<b>Prerequisites</b>	Knowledge of anatomy, physiology, kinesiology, biomechanics, general physiotherapy

### II. Detailed Information

#### Course aims and objectives

A1	Conduct an appropriate examination of patients with pulmonary dysfunction
A2	Conduct physiotherapy intervention for various pulmonary conditions
A3	Appraise scientific literature in pulmonary physiotherapy

**Learning outcomes**

Learning outcome	Subject's learning outcomes
<b>Knowledge</b>	
<b>Symbol</b>	
K_W14	Recognizes basic indications and contraindications for physiotherapy in respiratory diseases.
K_W16	Understands the determinants of the correct selection of physiotherapeutic treatment methods in respiratory diseases.
<b>Skills</b>	
K_U01	Is able to perform proper airway clearance techniques. Determines the appropriate exercise intensity depending on the clinical condition of the patient. Uses the appropriate auxiliary equipment in the physiotherapy of respiratory diseases.
K_U03	Recognizes respiratory failure symptoms. Knows the basics of clinical differentiation of selected respiratory system diseases.
K_U11	Is able to collect a medical history and interpret the basic parameters of the respiratory system.
K_U16	Can prepare the outline of exercises for patients with respiratory diseases and apply in practice.
<b>Social Competences</b>	
K_K01	Is aware of the need of constant improving the knowledge and skills. Understands the necessity of cooperation with other health professionals.
K_K10	Can apply the adequate health and safety rules.

**Syllabus contents**

No	Title
<b>Classes / Practical classes</b>	
SC1	Functional assessment
SC2	Endurance and resistance training
SC3	Breathing reeducation
SC4	Airway clearance techniques
SC5	Physiotherapy in obstructive lung diseases
SC6	Physiotherapy in the intensive care unit

**1 ECTS point = 30 hours students work (contact + self study)**

TYPES OF CLASSES	HOURS
Contact hours	30
Self study:	30
- preparing for classes	10
- literature review	10
- preparing for an examination	10
<b>Total = 60 hours = 2 ECTS</b>	

## Literature

No	Title
1	Clini E, Holland AE, Pitta F, Troosters T. Textbook of Pulmonary Rehabilitation: Springer International Publishing; 2017.
2	Vogiatzis I, Rochester CL, Spruit MA, Troosters T, Clini EM. Increasing implementation and delivery of pulmonary rehabilitation: key messages from the new ATS/ERS policy statement. The European respiratory journal. 2016;47(5):1336-41.
3	Vogelmeier CF, Criner GJ, Martinez FJ, Anzueto A, Barnes PJ, Bourbeau J, et al. Global Strategy for the Diagnosis, Management and Prevention of Chronic Obstructive Lung Disease 2017 Report. Respirology (Carlton, Vic). 2017;22(3):575-601.
4	Bolton CE, Bevan-Smith EF, Blakey JD, Crowe P, Elkin SL, Garrod R, et al. British Thoracic Society guideline on pulmonary rehabilitation in adults. Thorax. 2013;68 Suppl 2:ii1-30.
5	Garvey C, Bayles MP, Hamm LF, Hill K, Holland A, Limberg TM, et al. Pulmonary Rehabilitation Exercise Prescription in Chronic Obstructive Pulmonary Disease: Review of Selected Guidelines: AN OFFICIAL STATEMENT FROM THE AMERICAN ASSOCIATION OF CARDIOVASCULAR AND PULMONARY REHABILITATION. Journal of cardiopulmonary rehabilitation and prevention. 2016;36(2):75-83.
6	McCarthy B, Casey D, Devane D, Murphy K, Murphy E, Lacasse Y. Pulmonary rehabilitation for chronic obstructive pulmonary disease. Cochrane Database Syst Rev. 2015(2):Cd003793.
7	Puhan MA, Gimeno-Santos E, Cates CJ, Troosters T. Pulmonary rehabilitation following exacerbations of chronic obstructive pulmonary disease. Cochrane Database Syst Rev. 2016;12:Cd005305.
8	McIlwaine M, Bradley J, Elborn JS, Moran F. Personalising airway clearance in chronic lung disease. European respiratory review : an official journal of the European Respiratory Society. 2017;26(143).