

## NURSING DIAGNOSIS AND THERAPEUTIC APPROACH IN RESPIRATORY DISEASES

### LEARNING OUTCOMES

#### KNOWLEDGE

- KNOWLEDGE OF THE MECHANISMS OF ACTION, INDICATIONS, CONTRAINDICATIONS AND ADVERSE EFFECTS OF THE DRUGS USED IN THE THERAPY OF LUNG DISEASES AND AT THE SAME TIME DEEPENING THE FIRST AID MEASURES.
- KNOWLEDGE OF THE MAIN PREVENTION METHODS, THEIR APPLICATION AND THE USE OF MEDICAL DEVICES IN THE DEPARTMENT

#### SKILLS

- ESTABLISHING AND APPLYING THE APPROPRIATE TREATMENT PLAN FOR THE DIAGNOSED LUNG DISEASE.
- THE CORRECT INTERPRETATION OF CLINICAL AND PARACLINICAL DATA AND THE CORRECT USE OF PROTOCOLS TO DEVELOP A THERAPEUTIC PLAN CORRESPONDING TO THE SEVERITY OF THE PATHOLOGY.
- EVALUATION OF INDIVIDUAL RISK FACTORS IN THE DEVELOPMENT OF LUNG PATHOLOGIES OR THE POSSIBILITY OF THE DISEASE OCCURRING IN THE COMMUNITY, THE CHOICE OF APPROPRIATE PREVENTION METHODS AND THEIR APPLICATION.
- PRESENTATION OF A CLINICAL CASE IN RESPIRATORY DISEASES

#### COMPETENCES

- RECOGNIZING ASSIGNED TASKS, INTERPRETING AND FULFILLING THEM, DEVELOPING RELATIONSHIPS WITH PATIENTS AND COLLEAGUES BOTH PROFESSIONALLY AND OUTSIDE OF IT.
- DEVELOPING THE ABILITY TO WORK IN A MULTIDISCIPLINARY TEAM IN A PREDETERMINED POSITION AND DEVELOP A COMMON PLAN.
- ELABORATION OF A SYNTHESIS PAPER ON A CURRENT TOPIC WITH SUBSEQUENT TRANSLATION INTO A FOREIGN LANGUAGE.
- APPLYING THE PRINCIPLES OF ETHICS AND PROFESSIONAL ETHICS IN THE FIELD

### ECTS CREDITS

2 ECTS

<i>Theoretical courses</i>	<i>Teaching Methodology</i>	<i>Number of hours</i>
Nursing diagnosis and therapeutic approach in the respiratory system – anatomy integrated with pulmonary clinical pathology: Rib cage and contained organs, Restrictive ventilatory dysfunction by affecting the ribcage, Upper and lower respiratory tract - complex pathologies, Lung vascularization, Lung and pleural functions, Production mechanisms of pleural collections	<i>Oral presentation + multimedia, E-learning. Online platform</i>	2
The assistant nurse's role in investigations for pulmonary diseases: Harvesting pathological products (Sputum examination, pharyngeal secretion, COVID tests, Collection	<i>Oral presentation + multimedia, E-learning. Online platform</i>	2



Project Number: 2022-1-RO01-KA220-HED-000087854

for Koch bacillus examination, Pleural fluid), Participation in Spirometry, plethysmography, pulse oximetry, gasometry, Imaging investigation – chest X-ray		
The assistant nurse's role in investigations for pulmonary diseases: Imaging investigation in pulmonology - Thoracic ultrasound, Plain and contrast CT, MRI, PET - CT	<i>Oral presentation + multimedia, E-learning. Online platform</i>	2
The assistant nurse's role in investigations for pulmonary diseases: Bronchoscopy - bronchial biopsy and bronchoalveolar lavage, Endobronchial ultrasound	<i>Oral presentation + multimedia, E-learning. Online platform</i>	2
Nursing diagnosis and therapeutic approach in Respiratory medical emergencies (1): Bronchial asthma in crisis, Exacerbation of COPD, Hemoptysis, Pneumothorax, Pneumonia and pleurisy	<i>Oral presentation + multimedia, E-learning. Online platform</i>	2
Nursing diagnosis and therapeutic approach in Respiratory medical emergencies (2): Respiratory failure (mechanisms of occurrence, symptoms, diagnosis, treatment), Acute pulmonary edema, Pulmonary embolism	<i>Oral presentation + multimedia, E-learning. Online platform</i>	2
The harmful effects of smoking on the body - Effects on respiratory, cardiovascular, digestive, renal, genital system, effects on the newborn, on the CNS, endocrine glands, etc.), Nicotine addiction, Passive "secondhand" smoking, "Third hand" smoking, Anti-smoking education, Support medication	<i>Oral presentation + multimedia, E-learning. Online platform</i>	2

<b>Practical activities</b>	<b>Teaching Methodology</b>	<b>Number of hours</b>
Functional tests useful in the diagnosis of respiratory system disorders: Spirometry, plethysmography, pulse oximetry, gasometry, 6-minute walk test, EKG in pulmonology, CAT questionnaire - COPD assessment test, ACT questionnaire - Asthma Control Test	Practical demonstrations, practical manoeuvres characteristics for respiratory system disorders. Virtual laboratory	4
Symptoms and signs frequently encountered in pulmonary diseases: Cough, Expectorations, Dyspnea, Chest pain, Patient attitude - anti-dyspneic positions, Hemoptysis	Practical demonstrations, practical manoeuvres characteristics for respiratory system disorders. Virtual laboratory	4
Symptoms and signs frequently encountered in pulmonary conditions: Cyanosis, Fever, Nutritional status, Edema, Adenopathy, Digital clubbing, Alertness/ excessive sleepiness	Practical demonstrations, practical manoeuvres characteristics for respiratory system disorders. Virtual laboratory	4
Symptoms and signs frequently encountered in pulmonary diseases: Sleep apnea, S. Obesity – hypoventilation,	Practical demonstrations, practical	4



Project Number: 2022-1-RO01-KA220-HED-000087854

Polygraphy and ventilatory polysomnography Excessive daytime sleepiness assessment questionnaire: Q. Berlin, Q. Epworth	manoevres characteristics for respiratory system disorders. Virtual laboratory	
Treatments specific to the respiratory tract: a) Respiratory rehabilitation techniques: General measures, Rehabilitation principles, Respiratory physiotherapy, Physical exercise, Specific diet in pneumophthisiology, Bronchial drainage b) Treatment with CPAP and NIV	Practical demonstrations, practical manoevres characteristics for respiratory system disorders. Virtual laboratory	4
Specific treatments in pneumophthisiology: Administration of respiratory/ inhalation drugs (bronchodilators, inhaled corticosteroids, antibiotics, mucolytic), oxygen therapy	Practical demonstrations, practical manoevres characteristics for respiratory system disorders. Virtual laboratory	4
Specific measures for the care of respiratory patients: General measures for respiratory patients, TB patient care, Health education, Care during the COVID pandemic of respiratory patients, Anti-infectious prevention measures	Practical demonstrations, practical manoevres characteristics for respiratory system disorders. Virtual laboratory	4

#### References

1. Dame Parveen J Kumar and Michael L Clark (revisors) in Adam Feather, David Randall, Mona Waterhouse (editors) in Kumar and Clark Clinical Medicine tenth Edition, Elsevier, London New York Oxford Philadelphia St Louis Sydney 2021

#### Evaluation

<i>Course activities – percent of the final grade - 50%</i>	<i>Practical activities – percent of the final grade - 50%</i>
<i>Final mark</i>	

#### Training Methods

- Lectures
- Independent Study
- Clinical stages

#### Innovative Digital Training Methods

- Virtual laboratory
- Online platform
- E-learning

