

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

MODERN IMAGING TECHNIQUES OF PATIENT EVALUATION AND MONITORING

LEARNING OUTCOMES

KNOWLEDGE

- ACQUISITION OF THE BASIC CONCEPTS RELATED TO IMAGING INVESTIGATION METHODS, ACQUISITION OF THE MAIN INDICATIONS AND CONTRAINDICATIONS OF CONVENTIONAL RADIOLOGICAL, CT, ULTRASONOGRAPHIC, MAGNETIC RESONANCE AND RADIOISOTOPE EXAMINATIONS

Skills

- INTERPRETATION IN A CLINICAL CONTEXT OF THE IMAGES OBTAINED BY CONVENTIONAL RADIOLOGY, CT, ULTRASONOGRAPHY, MRI
- OPERATING WITH PROGRAMS DIGITAL DOCUMENTATION AND COMMUNICATION IN A LANGUAGE OF INTERNATIONAL CIRCULATION
- ORGANIZATION OF QUANTITATIVE AND QUALITATIVE CORRELATION ACTIVITIES OF SPECIFIC MEDICAL IMAGING WITH DIFFERENT LEVELS OF TRAINING UNDER CONDITIONS OF QUALIFIED ASSISTANCE

COMPETENCES

- RESPECTING THE NORMS OF PROFESSIONAL ETHICS AND DEONTOLOGY
- COMPLETING WORK TASKS IN CONDITIONS OF EFFICIENCY AND EFFECTIVENESS FOR THE ORGANIZATION
- RESPECTING THE NORMS OF PROFESSIONAL ETHICS AND DEONTOLOGY
- ACQUISITION OF ORAL AND WRITTEN COMMUNICATION SKILLS WITH PATIENTS

ECTS CREDITS

2 ECTS

Theoretical courses	Teaching Methodology	Number of hours
Historical data. Radiations X The properties of X -ray, Roentgen Diagnostic equipment, dosimetry, radiology protection, radiological image formation and laws. Formation of the computer image. The principle of image formation in ultrasound. The principle of imaging exploration through Magnetic Resonance.	Oral presentation + multimedia, E- learning. Online platform	1
Pleurpulmonary radioimagistics: congenital malformations, bronchitis, pneumonia, bronchopneumons, suppurations, pneumoconiosis, tuberculosis, primary pulmonary tumors secondary; radiodiagnosis of pleural disorders	Oral presentation + multimedia, E- learning. Online platform	1
Radioimagistics of mediastinum and diaphragm: mediastinum, medium, posterior pathology. Relaxation, diaphragmatic hernia. Pneumoperitoneum. Subfrenic abuse.	Oral presentation + multimedia, E- learning. Online platform	1





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Oral presentation + multimedia, E-	1
learning. Online platform	
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Practical activities	Teaching Methodology Number of hours	
Visiting the workstations	Practical demonstrations, Case	1
	discussions from the laboratory casuistry	
Cases from pleuropulmonary pathology: pneumonia, TB,	Practical demonstrations, practical	1
pulmonary tumors, pleurisy, malformations, atelectasis,	manoevreus characteristics for	
emphysema, pneumothoracic	pleuropulmonary pathology. Virtual	
	laboratory	
Cases of mediastinal pathology and diaphragm: thymus	Practical demonstrations, practical	1
hyperplasia, goiter, Hodgkin's disease, mature teratoma,	manoevreus characteristics for	
sarcoidosis, tumors of nervous origin, diaphragmatic	mediastinal pathology and diaphragm.	
hernias, pneumoperitoneum, underfrenal abscess	Virtual laboratory	
Stenosis/ insufficiency/ mitral disease, stenosis/	Practical demonstrations, practical	1
insufficiency/ aortic disease, pericarditis, coronary stenosis,	manoevreus characteristics for	
tetralogy Fallot, aorta coarctation, aorta aneurysms, aorta	Cardiological pathology. Virtual	
dissection, pulmonary thrombolia	laboratory	
Megaesophagus, esophageal diverticuli, post -caustic	Practical demonstrations, practical	1
stenosis, esophageal cancer, gastric ulcer, gastric cancer,	manoevreus characteristics for the	
duodenal ulcer, Crohn disease, Hirschprung disease, colon	digestive tract. Virtual laboratory	
polyposis, intestinal occlusion, hepatic steatosis, hepatic		
cirrhosis, hepatic hemagioma, hepatocellular carcinoma,		

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liver stasis, biliary lithiasis, acute pancreatitis, pancreatic		
cancer		
Renal lithiasis, renal cysts, hydronephrosis, acute and chronic pyelonephritis, renal TB, renal cancer, horseshoe kidney, bladder tumors, adrenal adenoma, uterine fibroleiomyoma, ovarian cancer, prostate adenoma, prostate cancer, urinary bladder tumors, adrenal adenoma, uterine fibroleiomyoma, ovarian cancer, prostate adenoma, prostate cancer	Practical demonstrations, practical manoevreus characteristics for the urogenital pathology. Virtual laboratory	1
Fractures, dislocations, meniscus lesions, tendons and ligaments, coxarthrosis, gonarthrosis, spondylosis, rheumatoid polyarthritis, anchylopoetic spondylaty, benign and malignant bone tumors	Practical demonstrations, practical manoevreus characteristics for the musculoskeletal pathology. Virtual laboratory	1

References
1. R.Weissleder, J.Wittenberg, M.Harishingani, J.Chen-Primer of diagnostic imaging-Elsevier Mosby, 2011.

Evaluation	
Course activities – percent of the final grade - 50%	Practical activities – percent of the final grade - 50%
Final mark	

	Training Methods	
-	Lectures Independent Study	
		Innovative Digital Training Methods
-	Virtual laboratory	
-	Online platform	
-	E–learning	

