

FACULTATEA DE MEDICINĂ

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UMF
UNIVERSITATEA DE
MEDICINĂ ȘI FARMACIE
IULIU HAȚIEGANU
CLUJ-NAPOCA



Proposed topics for bachelor's/master's theses and scientific circles

Discipline	Proposed topics for bachelor's/master's theses and scientific circles
Pathological anatomy	<ol style="list-style-type: none">1. Endometrial tumors in biopsy material from the Cluj-Napoca County Emergency Clinical Hospital2. HER2 expression in malignant tumors of the female genital tract3. Evaluation of RHAMM immunohistochemical expression in ovarian epithelial tumors4. Histopathological lesions of the placenta observed in first trimester spontaneous abortion5. Soft tissue reaction to allograft materials: an experimental histopathological study6. Vasculitis in children7. Esophagitis in children8. Metabolic bone disease in children: the local experience9. The study of the cell cycle in the normal liver since childhood
Anatomy and embryology	<ol style="list-style-type: none">1. Study of peripheral nerve structures – ganglia2. Changes in nerve structures caused by aging (MRI)3. Post-COVID nerve changes4. Changes in the olfactory mucosa/olfactory pathway/olfactory areas caused by viral infections5. Changes in central nervous structures in chronic pathologies (e.g., diabetes mellitus)6. Morphological study of connective structures7. Endometriosis: Risk factors and common symptoms8. The influence of lifestyle on the management of endometriosis9. The impact of digital technologies on anatomy learning: Advantages and challenges

	<ol style="list-style-type: none"> 10. Changes in oxidative stress and vascular reactivity in experimental heart failure 11. The effects of natural extracts as adjuvants in skin wound healing 12. The impact of nanotechnologies in experimental pathology 13. Studies on the biocompatibility and toxicity of gold nanoparticles on the heart and blood vessels 14. Studies of experimental photodynamic therapy 15. The protective effect of natural compounds in experimental Parkinson's disease 16. Ultrasonography – clinical and experimental techniques 17. Correlations between ultrasound and clinical parameters in experimental ultrasound therapy 18. Advanced techniques for learning anatomy 19. Prostate cancer – molecular markers with prognostic role 20. Comparative results of open inguinal lymphadenectomy and 3D endoscopic approach in penile cancers 21. Quality of life after 3D laparoscopic surgery in urological cancers 22. Short-, medium- and long-term postoperative results in radical salvage cystectomy using a 3D laparoscopic approach 23. Anatomical landmarks in oral implantology 24. The role of digital technologies in dental implantology 25. Anatomical landmarks in oro-maxillofacial radiology 26. The role of anatomy in clinical education
ATI 1	<ol style="list-style-type: none"> 1. Preventing medication errors in critically ill patients—dissertation 2. Incidence of nosocomial infections in intensive care—bachelor's thesis 3. The experience of patients admitted to intensive care. Memories recounted upon discharge
Medical biochemistry	<p>RO:</p> <ol style="list-style-type: none"> 1. Ionogram and metabolic balance 2. Hormonal changes in thyroid pathology 3. Lipid metabolism in diabetes mellitus

	<ol style="list-style-type: none"> 4. The role of vitamin B12 and folic acid in metabolism 5. Implications of premature placental calcification 6. Inflammatory status and vitamin D metabolism before and after cancer treatment in lung cancer patients 7. Detection of EGFR mutations in lung cancer 8. Assessment of lipid profile and atherosclerotic risk in smokers of conventional and electronic cigarettes 9. Effects of vegetarian and vegan diets on serum nutritional parameters <p>ENG:</p> <ol style="list-style-type: none"> 1. Electrolytes and the metabolic balance 2. Hormonal changes in thyroid pathology 3. Lipid metabolism in diabetes mellitus 4. The role of vitamin B12 and folic acid in metabolism 5. Implications of premature placental calcification 6. Inflammatory status and vitamin D metabolism before and after the oncological treatment in patients with lung cancer 7. Detection of EGFR mutations in patients with lung cancer 8. Assessment of lipid profile and atherosclerotic risk in smokers of classic and electronic cigarettes. 9. Effects of vegetarian and vegan diet on serum nutritional parameters
Cellular and molecular biology	<ol style="list-style-type: none"> 1. Molecular diagnosis of congenital anemias due to cytoskeletal defects 2. Molecular diagnosis of hemoglobinopathies 3. Molecular diagnosis of glycosylation defects 4. Molecular diagnosis of HPV infections 5. Molecular diagnosis of viral hepatitis B, C, and D* 6. Determination of DNA and HLA profiles in forensic filiation testing* 7. Establishment of HLA profiles in the population and their association with various pathological conditions* 8. Molecular diagnosis of sexually transmitted diseases (STDs) 9. Study of mutations in the CFTR gene in patients with cystic fibrosis of the pancreas

	<ol style="list-style-type: none"> 10. Ultrastructural aspects of animal and human tissues in various experimental or pathological conditions 11. Study of water transport through the membrane of erythrocytes and cells isolated from various tissues and organs under different experimental conditions 12. Ultrastructural aspects of material particles emitted by various sources of pollution 13. Biochemical diagnosis of certain genetic metabolic diseases. 14. Implications in physiological and pathophysiological processes of certain polymorphisms (and mutations) in the genes of interleukins, serotonin transporter (SERT), COMT, BDNF, CRHR1, α1-antitrypsin, oxytocin receptor, glucocorticoid receptor. 15. Genetic causes of hyperammonemia. 16. Biochemical determinations for salivary markers with implications in neuroscience. 17. Pharmacogenetic studies. 18. Telomere biology.
Infectious diseases. Epidemiology	<ol style="list-style-type: none"> 1. HIV infection 2. Childhood rash diseases 3. Acute viral hepatitis 4. Acute meningitis 5. Infectious mononucleosis 6. Diarrhea caused by Clostridium difficile 7. Antibiotic resistance 8. Sexually transmitted infections 9. Reproductive health 10. Screening programs 11. Traveler's health 12. Basic aspects of nutrition 13. Healthcare-associated infections 14. Addictions
Cardiology Recovery	<ol style="list-style-type: none"> 1. The correlation between D-dimers and the presence of atrial stasis in patients with atrial fibrillation - Prof. Dr. DANA POP

	<ol style="list-style-type: none"> 2. Post-conversion evolution of atrial fibrillation depending on antiarrhythmic medication - Conf. Dr. ROȘU RADU 3. Comparison between ivabradine and beta-blockers in post-ablation sinus tachycardia – Senior Lecturer Dr. CISMARU GABRIEL 4. Sensitivity of Smartwatch compared to Holter ECG in detecting cardiac arrhythmias – Head of Department Dr. CISMARU GABRIEL 5. Intravenous beta-blocker treatment in reducing post-electrical conversion AF recurrence – Head of Department Dr. CISMARU GABRIEL 6. Rhythm and conduction disorders in patients with chronic kidney disease – assistant professor Dr. CALOIAN BOGDAN 7. The association between ischemic coronary artery disease and atrial fibrillation – assistant professor Dr. CALOIAN BOGDAN 8. Rhythm disorders in patients with mitral valve disease - Assistant Professor Dr. FRÎNGU FLORINA 9. Echocardiographic parameters and post-ablation evolution of atrial fibrillation - Assistant Professor Dr. FRÎNGU FLORINA 10. Echocardiographic evaluation of the right heart after atrial fibrillation conversion – assistant professor FRÎNGU FLORINA 11. The influence of coronary artery disease on the recurrence of atrial fibrillation after ablation – assistant professor COMȘA HORAȚIU 12. Particularities of heart failure in women – Assistant Professor IRIMIE DIANA 13. Cardiac amyloidosis – clinical and paraclinical profile – Assistant Professor IRIMIE DIANA
Surgery I	<ol style="list-style-type: none"> 1. Experimental surgery and education in microsurgery 2. Gastric cancer 3. Bariatric surgery 4. Colorectal cancer 5. Hiatus hernias 6. Abdominal wall pathology 7. Traumatology

	<ol style="list-style-type: none"> 8. Long-term survival after surgical treatment of colorectal cancer - CME vs standard resection 9. Localization of digestive tract tumors using RFID tags 10. Perioperative analgesia via properitoneal wound catheter 11. Analysis of tumor biomarkers in colorectal and breast cancer 12. Tumor microenvironment in neoplasms 13. Sentinel lymph node identification techniques, methods for locating breast lesions
Plastic and reconstructive surgery	<ol style="list-style-type: none"> 1. Hand surgery (hand trauma, chronic pathology) 2. Covering post-traumatic and post-excision tissue defects on the body surface 3. Post-mastectomy breast reconstruction 4. Treatment of post-traumatic and post-excision skin scarring
Dermatology	<ol style="list-style-type: none"> 1. Quality of life in patients with psoriasis in special areas 2. Psoriasis and associated comorbidities 3. Diet and lifestyle in patients with psoriasis 4. Systemic therapy in atopic dermatitis 5. Systemic therapy in chronic spontaneous urticaria 6. Sun exposure and photoprotection in young adults 7. Quality of life in patients with basal cell carcinoma 8. Quality of life in patients with androgenetic alopecia
Diabetes and nutritional diseases	<ol style="list-style-type: none"> 1. The effectiveness of new medications in the clinical management of type 2 diabetes mellitus 2. The effectiveness of continuous glucose monitoring systems and insulin pumps in type 1 diabetes mellitus 3. Assessment of acute and chronic complications in diabetes mellitus 4. Assessment of comorbidities of diabetes mellitus, obesity, and dyslipidemia 5. Nutritional interventions in diabetes mellitus, obesity, and dyslipidemia 6. Cardiovascular risk in diabetes mellitus, obesity, and dyslipidemia: assessment, markers, management 7. Nutritional status in diabetes mellitus, obesity, and dyslipidemia 8. Nutritional and lifestyle interventions in diabetes mellitus, obesity, dyslipidemia, prevention in the general population

Physiology	<ol style="list-style-type: none"> 1. Experimental studies on Erlich ascites animal models. 2. Photodynamic therapy – experimental studies. 3. The protective effect of natural or synthetic compounds in surgical ovariectomy. 4. Assessment of cognitive functions in various pathologies through behavioral tests. 5. Experimental study of chronic liver diseases caused by the administration of hepatotoxins. 6. Experimental study of cholestatic liver diseases performed by ligation of the bile ducts. 7. Experimental models of peripheral and cerebral ischemia. 8. Stem cells in regenerative medicine. 9. Experimental models of neurological damage following stereotactic lesioning of nerve structures.
Pathophysiology	<ol style="list-style-type: none"> 1. Intestinal microbiota and obesity 2. Intestinal microbiota and type 2 diabetes mellitus 3. Oxidative stress and chronic inflammation in obesity 4. Experimental and clinical applications of pathophysiological mechanisms 5. Pathophysiology and treatment of psoriasis vulgaris 6. Pathophysiology and treatment of androgenic alopecia in women 7. Topical or laser-induced hair growth in an animal model 8. The role of oxidative stress and inflammation in the progression of metabolic syndrome 9. Obesity as an etiological factor in endometrial cancer. Experimental study 10. Learning methods adapted to medical education in the flipped classroom approach 11. Game-based learning in medical education 12. Pathophysiological mechanisms of pulp pathologies and their complications 13. The hepatoprotective role of Fucoxanthin on methotrexate-induced hepatopathy. 14. The impact of sodium-glucose cotransporter-2 inhibitors (SGLT-2i) on the intestinal microbiota 15. The hepatoprotective effects of Diacerein on liver injury in experimentally induced diabetes mellitus 16. The effects of Hesperidine on acute pancreatitis induced by L-arginine.

	<p>17. The role of multi-omics in the diagnosis of prenatal exposure to endocrine disruptors</p> <p>18. Systemic diseases with oral symptoms—clinical implications</p> <p>19. The relationship between microbiota and renal failure</p>
Hygiene	<ol style="list-style-type: none"> 1. The relationship between the quality of the physical environment (water, air, radiation, noise, soil, built habitat, food) and human health; 2. Assessment of the nutritional status of different population groups. Dietary patterns; 3. Assessment of health risks and development of prevention and control strategies applied to the environment and human communities. 4. Physical development of children and young people in relation to health status 5. Prevention of risky behaviors among children, adolescents, and young people. Health education in schools
Immunology and allergology	<p>ergen sensitization in allergic rhinitis: clinical and therapeutic implications - Conf. Dr. a Muntean</p> <p>reatment with omalizumab in chronic spontaneous urticaria: efficacy and predictors of eutic response - Conf. Dr. Adriana Muntean</p> <p>ative prognostic factors in common variable immunodeficiency - Conf. Dr. Irena Nedelea</p> <p>ative prognostic factors in selective IgA deficiency - Conf. Dr. Irena Nedelea</p> <p>erapeutic characteristics in hereditary angioedema - Conf. Dr. Irena Nedelea</p> <p>munological profile of patients with colon cancer - Conf. Dr. Claudia Burz</p> <p>onoclonal antibody therapy in breast cancer. Efficacy and predictive factors. - Conf. Dr. a Burz</p> <p>munotherapy in lung cancer, efficacy and immune-mediated toxicity - Conf. Dr. Claudia</p> <p>orrelations between quality of life impairment and inflammation in chronic spontaneous ia - Asst. Dr. Carmen Teodora Dobrican Baruta</p>
Medical IV	<ol style="list-style-type: none"> 1. Types of liver damage in chronic alcohol consumption – Prof. Dr. Olga Orășan 2. Adverse effects of immunotherapy – Prof. Dr. Olga Orășan 3. Inflammatory bowel diseases – risk factors and delayed diagnosis – Prof. Dr. Alina Tanțău 4. Primary liver neoplasm in patients with chronic liver disease – Prof. Dr. Alina Tanțău

	<ol style="list-style-type: none"> 5. Post-COVID cardiovascular damage – Assoc. Prof. Dr. Angela Cozma 6. Cardiac dysfunction in metabolic syndrome – Assoc. Prof. Dr. Angela Cozma 7. Chronic kidney disease in diabetic patients – Assoc. Prof. Ioana Para 8. Chronic kidney disease in hypertensive patients – Assoc. Prof. Ioana Para 9. Chronic kidney disease in the elderly – Assoc. Prof. Ioana Para 10. Compliance with good practice guidelines in COPD – Head L. Dr. Teodora Alexescu 11. Compliance with good practice guidelines in hypertension – Head L. Dr. Teodora Alexescu 12. Compliance with good practice guidelines in bronchial asthma – Head L. Dr. Teodora Alexescu 13. Qualified nursing care in internal medicine diseases – Head L. Dr. Lorena Ciumărnean 14. Quality of life for patients with internal medicine conditions – Head L. Dr. Lorena Ciumărnean 15. Abdominal obesity – implications in the pathogenesis of atherosclerotic cardiovascular disease – Head L. Dr. Florin Casoinic 16. Particularities in the care of patients with diabetic foot – Head L. Dr. Florin Casoinic 17. Diastolic function in patients with diabetes mellitus – Head L. Dr. Călin Vlad 18. Gastroesophageal reflux in diabetics - Head L. Dr. Călin Vlad 19. Assessment of vitamin D status in patients with sepsis - Head L. Dr. Adela Sitar 20. The impact of diabetes mellitus on quality of life - Head L. Dr. Adela Sitar 21. Improving the quality of life of patients through special nursing care - Assistant Professor Mircea Milaciu, PhD 22. Quality of life of patients with metabolic and liver disorders - Assistant Professor Mircea Milaciu, PhD 23. Special nursing care for patients with chronic liver disease - Assistant Professor Mirela Perne 24. Improving the quality of life of patients with digestive neoplastic diseases - Assistant Professor Mirela Perne 25. The role of myocardial fibrosis markers in heart failure - Assistant Professor George Ciulej, PhD
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	<p>26. The use of cardiotrophin-1 in monitoring the treatment of hypertension - Assistant Professor George Ciulei, PhD</p> <p>27. Impaired quality of life in patients with atrial fibrillation - Assistant Professor Codruța Pocol, PhD</p> <p>28. Impaired quality of life in patients with heart failure - Assistant Professor Codruța Pocol, PhD</p>
Emergency medicine	<ol style="list-style-type: none"> 1. Tools for optimizing triage 2. Biomarkers in creating prediction goals in emergencies 3. Clinical-imaging correlations for early diagnosis in emergencies 4. Clinical audit on critical activities in emergency medical care processes 5. Simulation in emergency practice and education strategies in disaster conditions
Forensic medicine	<ol style="list-style-type: none"> 1. Forensic examination of sudden death cases, the value of complementary examinations 2. The incidence of cardiovascular disease in sudden adult death 3. Forensic aspects of suicide in mental illness
Occupational medicine	<ol style="list-style-type: none"> 1. Applied ergonomic approaches. Motivation and consequences. 2. Occupational toxicology. Health implications of low occupational exposures. 3. New trends in occupational toxicology. 4. Innovative diagnostic methods in silicosis. 5. Occupational musculoskeletal pathology: assessment methods, preventive actions. 6. Assessment of workplace ergonomics for medical sector personnel and the impact on the osteo-muscular-articular system. 7. The effects of noise on the health of musicians: from hearing loss to general health problems. 8. The relationship between occupational hypertension and occupational exposure to noise: incidence, risk factors, and progression. 9. The importance of blood counts in the prognosis of chronic obstructive pulmonary disease. 10. Monitoring lung function in operating room personnel..
Palliative medicine	<ol style="list-style-type: none"> 1. Total pain – from assessment to a multidisciplinary approach. 2. Using multidimensional assessment in organ failure.

	<ol style="list-style-type: none"> 3. Barriers to integrating palliative care into the management of non-oncological conditions. 4. Total pain management in bone metastases. 5. Non-invasive palliative ventilation in patients with respiratory diseases. 6. Palliative care in patients with neurodegenerative diseases. 7. Opioids and refractory dyspnea. 8. Refractory chronic cough and pharmacological treatment. 9. Opioids in the treatment of heart failure. 10. Frailty and palliative care. 11. Difficult communication in medical practice. 12. The spiritual/religious dimension in palliative medicine. 13. The importance of the psycho-emotional dimension in palliative care. 14. The role of the physician/nurse in the early integration of palliative care. 15. Prognosis and timing of initiating palliative care in non-oncological/oncological conditions. 16. Models for integrating palliative care in organ failure. 17. Rehabilitation – an integral part of the management of patients with chronic conditions. 18. The role of the nurse in improving the quality of life of patients with chronic conditions (oncological or non-oncological). 19. Complementary therapies and their role in palliative care. 20. Alteration of body image and quality of life.
Microbiology	<ol style="list-style-type: none"> 1. Biofilms—a new barrier to the successful treatment of bacterial infections. 2. The haunted house: how parasites infect our bodies. 3. Trick or treat: multiple drug resistant bacteria
Neonatology	<ol style="list-style-type: none"> 1. Risks to newborns from multiple pregnancies 2. The impact of perinatal inflammation on premature newborns 3. Immediate complications in children with intrauterine growth restriction 4. Peripherally inserted central venous catheterization in newborns 5. The role of biomarkers in the assessment of premature newborns
Obstetrics and Gynecology I	<ol style="list-style-type: none"> 1. Pathological obstetrics

	<ol style="list-style-type: none"> 2. Gynecological pathology 3. Minimally invasive surgery 4. Neonatology
Obstetrics and Gynecology II	<ol style="list-style-type: none"> 1. Maternal anemia and birth outcomes in adolescent mothers: a retrospective study in Romanian hospital 2. Conservative and surgical management of unruptured ectopic pregnancy – a systematic review 3. Benign ovarian tumor and endometriomas pathology and treatment 4. Endometriosis and adverse pregnancy outcomes 5. New approach in polycystic ovaries 6. The impact of maternal age on newborn health: A comparison between adolescent and adult mothers 7. Maternal complications after vaginal delivery 8. The effect of local estrogen treatment in patients with pelvic floor dysfunction 9. Premature rupture of membranes before term: incidence, risk factors, and the socioeconomic impact of premature birth
Ophthalmology	<ol style="list-style-type: none"> 1. Optical coherence tomography and angiotomography in macular diseases 2. Optical coherence tomography and angiotomography in primary open-angle glaucoma 3. Clinical-morphological-functional correlations in optic nerve disorders 4. Clinical-morphological-functional correlations in retinal disorders 5. Vitreoretinal surgery 6. Prognostic factors in cataract surgery 7. Ocular traumatology 8. Functional explorations in ophthalmology 9. Artificial intelligence in ophthalmology
Medical oncology	<ol style="list-style-type: none"> 1. Immunotherapy in extensive/metastatic microcellular bronchopulmonary cancer 2. First-line immunotherapy in metastatic non-microcellular bronchopulmonary cancer 3. Adjuvant immunotherapy in locally advanced non-microcellular bronchopulmonary cancer—results and toxicities 4. New therapeutic strategies in advanced hepatocellular carcinoma

	<ol style="list-style-type: none"> 5. Gastro-entero-pancreatic neuroendocrine tumors—first-line therapeutic strategies 6. Triple perioperative chemotherapy in non-metastatic gastric cancer: results and toxicities 7. Immunotherapy in metastatic bladder cancer – efficacy and safety profile 8. Treatment in locoregional advanced bladder cancer 9. Androgen receptor pathway inhibitors in metastatic prostate cancer 10. Biochemical recurrence in operated prostate cancer 11. Efficacy of the IO+TKI combination in advanced renal cancer 12. Chemotherapy antibody conjugates in the treatment of patients with metastatic colorectal cancer 13. DPYD testing in the assessment of fluoropyrimidine toxicities in patients with digestive tumors 14. Clinical and prognostic impact of brain metastases in patients with stage IV gastric cancer 15. Clinical and histopathological characteristics of pancreatic cancer in long-term survivors 16. Evaluation of the TILs (tumor-infiltrating lymphocytes) score in patients with stage II colorectal cancer
Oncology Radiotherapy	<ol style="list-style-type: none"> 1. Radiotherapy in childhood tumors 2. Melanoma - prognostic factors 3. Genetic factors in cytostatic toxicity - review
ENT	<ol style="list-style-type: none"> 1. Management of glottic cancer 2. Management of chronic polypous rhinosinusitis 3. Management and treatment of peripheral vestibular syndrome 4. Epistaxis and oral anticoagulant treatment
Pediatrics I	<ol style="list-style-type: none"> 1. Supraventricular arrhythmias with neonatal onset 2. Diagnosis and treatment of acute myocarditis in children 3. Incidence of cardiac arrhythmias in newborns 4. Causes of aortic dilatation in children

	<ol style="list-style-type: none"> 5. Study of hematological parameters in essential hypertension in children and adolescents 6. Cardiovascular impairment in patients with microdeletions 7. Tetralogy of Fallot – diagnosis, evolution, treatment 8. ECG changes in children with seizures 9. Epidemiology of diabetes mellitus in children. 10. Autoimmune diseases associated with Down syndrome 11. Autoimmune thyroid pathology in children 12. Therapeutic options in X-linked hypophosphatemic rickets in children 13. Tetrahydrobiopterin (BH4) deficiency 14. Etiology and treatment of ENT pathology in children 15. Diagnostic and therapeutic trends in cystic fibrosis
Pulmonology	<ol style="list-style-type: none"> 1. Bronchial asthma 2. Chronic obstructive pulmonary disease 3. Sleep apnea syndrome 4. Smoking 5. Diffuse interstitial lung disease/pulmonary fibrosis 6. Sarcoidosis 7. Pleurisy 8. Pulmonary tuberculosis 9. Bronchiectasis 10. Primary/secondary lung abscess 11. Bronchopulmonary cancer 12. Benign lung tumors/solitary pulmonary nodule
Medical Psychology and Psychiatry	<ol style="list-style-type: none"> 1. Mental health and the biopsychosocial factors involved 2. Prevention in mental health 3. Stress 4. Depression 5. Exposure to traumatic events

	<ol style="list-style-type: none"> 6. Resilience 7. Mental health of young people 8. Suicide prevention
Radiology and Imaging	<ol style="list-style-type: none"> 1. Computed tomography aspects in liver metastases 2. MRI aspects in cerebral meningiomas 3. MRI aspects of multiple sclerosis at the cerebral level 4. Native MRI aspect in lumbar disc pathology 5. Temporal bone morphology in CT section 6. CT aspects in intracranial calcifications 7. Observations on the application of radiation protection measures in the workplace (radiodiagnostic laboratory) 8. The degree of irradiation of patients depending on the technique used and the type of CTMD device (multidetector computed tomography) 9. Brain lesions in poisoning with various substances (CT, MRI imaging aspects) 10. Comparative study of acute multiple sclerosis lesions using diffusion MRI versus injectable contrast agent 11. Adverse effects of paramagnetic substances in MRI investigations 12. Adverse reactions to organo-iodinated contrast agents in computed tomography 13. MRI appearance using diffusion techniques in the main brain tumors 14. The contribution of 3D bone reconstructions in the diagnosis of craniocerebral trauma 15. The contribution of multidetector CT in the evaluation of temporal bone fractures 16. MRI appearance of arachnoid cysts 17. Morphological correlation of lung tumors with the presence of adrenal gland metastases on CT examination 18. The comparative role of ultrasound and mammography in breast pathology 19. Sonoelastography in breast pathology 20. Imaging assessment of breast fibroadenomas 21. Mammography and ultrasound evaluation of breast calcifications 22. Radiological aspects in cosmetic and reconstructive breast surgery <p>Head CT in emergency</p>

23. Calcifications in mammographic imaging
24. Radiological aspects of invasive lobular carcinoma
25. Artifacts and sources of error in mammography
26. Radiological aspects of papillary breast lesions
27. Mammographic aspects in breast cancer
28. Ultrasound aspects in breast cancer
29. MRI aspects in breast cancer
30. Complications of breast augmentation and reconstruction. Imaging examination
31. The treatment of prostate adenoma by embolization
32. The value of Mri in the Diagnosis of Breast cancer
33. The value of tomosynthesis in breast screening
34. Ultrasound examination of the secreting nipple
35. Radiological imaging aspects in invasive ductal carcinomas
36. Ultrasound aspects in breast cystic lesions
37. 2D, Doppler, and elastographic ultrasound aspects in benign breast lesions
38. Tomosynthesis in breast pathology
39. Ultrasonographic study of peripheal vein disease complications
40. Ultrasound examination of cervical nerve structures
41. Imaging protocols for kidney examination
42. Computerized processing of elastographic kinematic sequences in the diagnosis of breast nodular pathology
43. Clinical manifestations and MRI findings in multiple sclerosis
44. The utility of magnetic resonance imaging in the diagnosis and Folow up of Cerebral Tumors
45. CT and MRI aspects in renal cancer
46. Contribution of magnetic resonance imaging to the diagnosis of cerebral ischemic accident
47. Diagnostic contribution of imaging in unusual giant aneurysmal pathologies
48. Imaging results in acute non-traumatic chest pain
49. The appearance of renal trauma on radiological imaging
50. The appearance of pulmonary embolism on imaging

	<p>51. The contribution of an adapted MRI protocol based on increased spatial resolution and contrast resolution in the intra- or extra-axial localization of cerebral tumor lesions</p> <p>52. Causes of errors in breast cancer diagnosis</p> <p>53. Role of MR angiography and CT angiography in the diagnosis of cerebral aneurysms</p>
Radiology and imaging. Nuclear medicine	<ol style="list-style-type: none"> 1. Assessment of liver cirrhosis using magnetic resonance imaging 2. Invasion of perirectal venous plexuses as a prognostic factor for the development of liver metastases in patients with rectal cancer 3. Sensitivity and specificity of prostate MRI with synthetic diffusion sequence in the diagnosis of prostate adenocarcinoma 4. Sensitivity of MRI in the differential diagnosis of small renal tumors 5. MRI in the diagnosis of biliary tract pathology 6. Distribution of demyelinating lesions in the cerebral parenchyma in patients with multiple sclerosis 7. The role of MRI in guiding fusion biopsies in patients with prostate adenocarcinoma 8. There is a correlation between the diameter of the hepatic artery, as assessed by CT, and response to therapy in patients with liver metastases 9. Sensitivity of multiparametric renal MRI in the differential diagnosis of small renal tumors 10. MRI vs. PET-CT in the diagnosis of adenopathies originating in the gynecological sphere 11. Contribution of apparent diffusion coefficient (ADC) to the characterization of focal hepatic lesions 12. Non-invasive assessment of hepatic fibrosis in MASLD using elastographic techniques 13. MRI examination in rotator cuff pathology 14. Correlation between degenerative aortic stenosis and coronary atheromatosis using cardiac CT 15. Correlations between calcium score and ischemic coronary artery disease
Medical rehabilitation	<ol style="list-style-type: none"> 1. Rehabilitation of patients with cardiovascular disease 2. Rehabilitation of patients with respiratory disorders

	<ol style="list-style-type: none"> 3. Rehabilitation of patients with orthopedic disorders 4. Rehabilitation of patients with neurological disorders 5. Rehabilitation of patients with urogenital disorders 6. Rehabilitation of patients with endocrine and metabolic disorders
Rheumatology	<ol style="list-style-type: none"> 1. Clinical characteristics 2. Complications/comorbidities 3. Management of patients with systemic scleroderma 4. Systemic lupus erythematosus 5. Inflammatory autoimmune myositis 6. Sjögren's syndrome 7. Systemic vasculitis 8. Rheumatoid arthritis 9. Spondyloarthritis 10. Other rare diseases
Humanities and Social Sciences	<p>Medical communication</p> <ol style="list-style-type: none"> 1. Quality of life in different categories of patients 2. Medical students' attitudes towards various ethical issues 3. Academic stress 4. Choice of specialty and career path 5. Stress and other risk factors for burnout among medical students 6. Analysis of the impact of stress management strategies on quality of life and mental health in cancer patients 7. The impact of lifestyle on the level of academic distress in medical students 8. The link between personality, emotional regulation, and irritable bowel syndrome 9. The link between emotional intelligence, psychological well-being, and academic performance in medical students <p>History of Medicine</p> <ol style="list-style-type: none"> 1. The participation of Romanian doctors in World War I and World War II 2. The history of Romanian pathological morphology in the 19th century

	<p>3. Doctors - victims of dictatorial systems in Romania</p> <p>Bioethics</p> <ol style="list-style-type: none">1. Ethical issues related to the beginning of human life2. Ethical issues related to the end of human life3. Ethical aspects of cognitive bio-improvement <p>Medical Sociology</p> <ol style="list-style-type: none">1. Promoting a healthy lifestyle among rural adolescents2. Health concepts among disadvantaged populations3. Education for the prevention and treatment of various socio-medical diseases <p>Legal aspects of the profession. Social and professional legislation. Career guidance</p> <ol style="list-style-type: none">1. Practicing the profession as a liberal profession2. Situations that remove the doctor's liability3. Professional liability insurance contract
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