

**DESCRIPTION OF COURSE UNIT FOR DOCTORAL STUDIES
AT VILNIUS UNIVERSITY**

Scientific Area/eas, Field/ds of Science	Medical and Health Sciences (M 000): Medicine (M 001)			
Faculty, Institute, Department/Clinic	Faculty of Medicine, Institute of Clinical Medicine, Clinic of Gastroenterology, Nephrourology and Surgery			
Course unit title (ECTS credits, hours)	Hepatic-pancreatic-biliary Surgery 8 credits (212 hours)			
Study method	Lectures	Seminars	Consultations	Self-study
Number of ECTS credits	-	-	2	6
Method of the assessment (in 10 point system)	Oral exam. Consists of three questions.			
PURPOSE OF THE COURSE UNIT				
<p>To acquaint doctoral students with etiopathogenesis, diagnosis and surgical treatment of liver, pancreas and bile duct diseases. To highlight the most relevant diseases and to present the latest fundamental research in this field. To enable doctoral students to properly choose a scientific problem, to successfully analyze and design it with independent scientific (doctoral) work and to encourage clinical research to be linked to fundamental research in Lithuania.</p>				
THE MAIN TOPICS OF COURSE UNIT				
<p>Anatomy of the gallbladder and bile ducts and its abnormalities. Visualisation of bile ducts and clinical interpretation of laboratory tests. Gallstones: prevalence, etiology, pathogenesis, classification, diagnostics, methods of treatment of chronic and acute calculous cholecystitis. Iatrogenic bile duct injury: diagnostics, classification, principles of treatment. Diagnostics, classification and treatment of mechanical jaundice and cholangitis caused by bile duct stone disease. Endoscopic, laparoscopic bile duct surgery. Gallbladder and bile duct cancer: prevalence, etiology, risk factors clinical diagnostics and treatment. Methods of reconstructive bile duct surgery. Malignancy operability criteria and standards for radical surgery. Combinational treatment. Minimally invasive treatments for advanced tumors: endoscopic bile duct stenting, percutaneous transhepatic bile duct drainage. Pocholecystectomy syndrome, its concept and causes, diagnostics, treatment. Anatomy of the pancreas and its circulatory features. Pancreatic physiology. Pancreas visualisation. Clinical interpretation of pancreatic laboratory tests. Acute pancreatitis: etiology, pathogenesis, classification, clinic, emergency diagnostic, principles of treatment and hospitalization, local complications and their treatment. Chronic pancreatitis: etiology, pathogenesis, classifications, clinic, diagnostics, complications, indications for minimally invasive and surgical treatment. Pancreatic tumors: prevalence, risk factors, prevention, clinic, classification, diagnostics, treatment. Criteria for operability of malignant pancreatic tumors, standards for radical surgery, neoadjuvant, adjuvant and combinatory therapy. The role of biomarkers in early diagnostics, prognosis and treatment choice. Minimally invasive treatments for advanced pancreatic malignancies.</p>				

RECOMMENDED LITERATURE SOURCES

1. Strupas K. Monografija „Kepenų transplantacija“ Vilniaus universiteto leidykla. 2013, 144 p.
2. A. Šileikis. Ūminis pankreatitas. Mokslinė monografija. Vilniaus universiteto leidykla, Vilnius, 2008.- 247 p.
3. Neuroendocrine tumors of the pancreas. Yasmin G. Hernandez-Barco, Daniel C. Chung. Wiley Online Library. Chapter 80 2022.
<https://doi.org/10.1002/9781119600206.ch80>
4. Pancreatic cancer. Neoptolemos JP., Urrutia R., Abbruzzese JL., Büchler MW. Springer, 2018, 1661 p. ISBN 978-1-4939-7191-6. <https://doi.org/10.1007/978-1-4939-7193-0>
5. Chronic Pancreatitis. Serrano P, Dąbrowski A, Jurkowska G, Wereszczyńska-Sięmiątkowska U. McMaster Textbook of Internal Medicine. Kraków: Medycyna Praktyczna. 2021.<https://empendium.com/mcmtextbook/chapter/B31.II.5.2>.
6. Acute pancreatitis management: Concise Guide on Acute Pancreatitis Maintenance and Control. Macbeth A. 2022 41 p. ISBN-13 : 979-8439471393
7. Diseases of the gallbladder and biliary tree. Johnson c., Wright M. Oxford University Press. 2020. ISBN-13: 9780198746690. DOI: 10.1093/med/9780198746690.001.0001
8. Liver et portavenal system. Doherty G.M. Current diagnosis & treatment: surgery 14 edition Chapter 24 2015; The McGraw-Hill Education.
<http://accesssurgery.mhmedical.com/content.aspx?bookid=1202§ionid=71520741>.
9. Liver. Brunicardi F.C. et al. Schwartz's Principles of Surgery, 10 Edition, Chapter 31 2015; The McGraw-Hill Education.
<http://accessmedicine.mhmedical.com/content.aspx?sectionid=59610873&bookid=980&jumpsectionID=100401191&Resultclick=2>

CONSULTING LECTURERS

1. Coordinating lecturer: Kęstutis Strupas (Prof. Habil. Dr.).
2. Lecturer Audrius Šileikis (Prof. Dr.).
3. Lecturer Vitalijus Sokolovas (Assoc. Prof. Dr.).

APPROVED:

By Council of Doctoral School of Medicine and Health Sciences at Vilnius University:
29th of September 2022

Chairperson of the Board: Prof. Janina Tutkuvienė