

講義ユニット名 Title of Lecture	Digestive Organs		所属科目名 Title of Course	Clinical diagnosis and treatment I
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授業方法 Lesson Style	Lectures using Power Point slides.			
概要 Overview	<p>Gastroenterology is a study of the anatomy, functions, and diseases of gastrointestinal tracts (esophagus, stomach, duodenum, small intestine, and large intestine), liver, gallbladder, pancreas and other organs. Many diseases are treated in gastroenterology; including neoplastic disorders (stomach cancer, colon cancer, liver cancer, pancreatic cancer, and etc.), inflammatory diseases (viral hepatitis, inflammatory bowel disease, pancreatitis, and etc.), infectious diseases, and metabolic diseases. In daily clinical practice, you frequently encounter gastrointestinal disorders and therefore it is very important to acquire basic knowledge of these disorders and become familiar with the medical and surgical treatment methods for them. The objective of this unit is to deepen your understanding of gastrointestinal disorders and supply basic knowledge so that you can use it in clinical settings in the future.</p>			

<p>講義ユニットの 到達目標 Academic Goals</p>	<p>Illustrate the positions of digestive organs and their morphology and blood vessels. Explain the relationships between the peritoneum and organs. Explain the basic structures of the esophagus, stomach, small intestine, and large intestine and differences between sites. Explain the mechanism of gastrointestinal motility. Explain the function of autonomic nerves in digestive organs. Explain the structure and function of the liver. Explain the function of gastric juice and the mechanism of its secretion. Explain the function of bile and the control mechanism of gallbladder contraction. Explain the structure of the exocrine pancreatic system and the function of pancreatic juice. Explain digestion and absorption in the small intestine. Explain fecal formation in the large intestine and the mechanism of defecation. Explain the functions of major gastrointestinal hormones. Explain the roles of normal flora in digestive organs. Explain the causes and pathologies of constipation and diarrhea. Explain important points in treating patients with constipation and diarrhea. Explain the causes and pathologies of hematemesis and melena. Explain important points in treating patients with hematemesis and melena. Give an outline of the primary treatment for patients with hematemesis and melena. Explain the causes, symptoms and treatment of bacterial food poisoning. List representative hepatitis screening items and explain the significance. Explain the significance of representative tumor markers (AFP, CEA, and CA19-9) associated with digestive organs. List imaging tests for digestive diseases and explain findings from tests. Explain findings of gastrointestinal endoscopy. Explain the significance and indications of biopsy and cytology. List diseases resulting in hepatomegaly and explain their pathophysiology. Explain important points in conducting medical interviews with patients with hepatomegaly, and diagnosing and treating them. Explain the pathology, macroscopic classification, and staging classification of esophageal cancer. Explain the symptoms, diagnosis, treatment and prognosis of esophageal cancer. Explain the pathophysiology, endoscopic classification, and treatment of esophageal varices. Explain the pathophysiology, symptoms, and diagnosis of gastroesophageal reflux disease (GERD). Give an outline of Mallory-Weiss syndrome.</p>
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Explain the epidemiology, pathology, symptoms, macroscopic classification and staging classification of stomach cancer.

List diagnostic procedures for stomach cancer and explain findings and their significance.

Give an outline of treatment of stomach cancer according to tumor stage.

Explain the causes, symptoms, staging classification, diagnosis and treatment of peptic ulcers.

Explain the diagnosis and treatment of Helicobacter pylori infection.

Explain the pathology and macroscopic classification of gastric polyps.

Explain the concept, diagnosis and treatment of acute gastric mucosal lesions.

Give an outline of chronic gastritis.

Explain the pathophysiology of postgastrectomy syndrome.

Give an outline of hypertrophic pyloric stenosis.

Explain the pathology and classifications (macroscopic, degree of progress, stage) of colon cancer.

Explain the symptoms, diagnosis and treatment of colon cancer.

Explain the classification, symptoms, diagnosis and treatment of colonic polyp.

Explain the symptoms, diagnosis and treatment of acute appendicitis.

Explain the causes, symptoms, diagnosis, and treatment of ileus.

Explain the pathology, symptoms, diagnosis and treatment of inflammatory bowel diseases (ulcerative colitis, Crohn's disease).

Explain the pathologies, symptoms, and diagnoses of hemorrhoid and anal fistula.

Give an outline of irritable bowel syndrome.

Give an outline of intestinal diverticulosis.

Give an outline of drug-induced colitis.

Give an outline of gastrointestinal polyposis.

Give an outline of major congenital diseases of the large intestine (imperforate anus, Hirschsprung's disease).

Give an outline of intussusception.

Give an outline of gastrointestinal carcinoid.

Give an outline of amyloidosis.

Explain the causes, symptoms, diagnosis, and treatment of gallstones.

Explain the causes, pathologies, symptoms, diagnoses, complications, and treatments of cholecystitis and cholangitis.

Explain the pathology, symptoms, diagnosis, and treatment of gallbladder/bile duct cancer.

Give an outline of gallbladder polyp.

Give an outline of congenital biliary dilatation and pancreaticobiliary maljunction.

	<p>Explain the epidemiology, symptoms, diagnosis and treatment, clinical course and prognosis of hepatitis A, B, and C.</p> <p>Explain the definition of acute hepatitis, fulminant hepatic failure, and chronic hepatitis.</p> <p>Explain the causes, pathology, symptoms, diagnosis, and treatment of cirrhosis.</p> <p>Give an outline of complications (portal hypertension and hepatic encephalopathy) of cirrhosis.</p> <p>Explain the causes, pathology, symptoms, diagnosis, and treatment of primary liver cancer.</p> <p>Give an outline of alcoholic liver injury.</p> <p>Give an outline of drug-induced liver injury.</p> <p>Explain the symptoms, diagnosis, and treatment of liver abscess.</p> <p>Give an outline of hemochromatosis.</p> <p>Give an outline of Wilson's disease.</p> <p>Explain the physiopathology, symptoms, diagnosis, and treatment of acute pancreatitis (alcohol-induced, gallstone, and idiopathic).</p> <p>Explain the physiopathology, symptoms, diagnosis, and treatment of chronic pancreatitis (alcohol-induced, idiopathic).</p> <p>Explain the pathology, symptoms and diagnosis of pancreatic cancer.</p> <p>Explain the physiopathology, diagnostic criteria, and treatment of severe acute pancreatitis.</p> <p>Explain the classification and pathology of cystic pancreatic disease.</p> <p>Explain the causes, symptoms, diagnosis, and treatment of peritonitis.</p> <p>Explain the concept and predilection sites for hernia (sliding, incarcerated, and strangulated).</p> <p>Explain the causes, diagnosis, and treatment of inguinal hernia.</p>
<p>講義日程 Class Schedule</p>	See the attached schedule.
<p>出席の取り扱い Class Attendance Policy</p>	<p>Attendance is taken every lecture using the Student Attendance Management System.</p> <p>A student whose attendance is less than two-thirds of all the classes is not eligible for taking the final examination.</p>
<p>評価項目 Evaluation Item</p>	<p>Achievement level of goals (basic understanding and application of knowledge)</p>
<p>評価法 Evaluation Method</p>	Examination (in the form of a national examination)

履修上のアドバイス Advice for Taking the Lecture	
推奨参考書 Recommended Reference Books	[Reference books recommended for purchase] <i>Hyojun Shokakibyogaku (Standard Textbook)</i> . Hayashi N, Hibi, T, Tsubouchi H. ed. Igakushoin [Other references useful for this unit] Sherlock S. <i>Diseases of the Liver and Biliary System (Sherlock Kanzobyogaku)</i> . Omata M. trans-ed. Nishimura Shoten Handouts will be provided during a lecture, if necessary.