	Category			
	(科目区分)	Basic subjects		
	<mark>Course Title</mark> 授業科目名)	Clinical medicine General remarks		
	Instructors (担当者名)	Academic Affairs Chair	Academic Year (配当年次)	1
El	juired Course / ective Course 〔必修/選択〕	Required Course	<mark>Credits</mark> (単位数)	4
	<mark>Class Format</mark> (授業形態)	WebClass(on demand)		
	Schedule (開講期間) From around late April 2025 to December 31, 2025			
	<mark>ss Date/Period</mark> 講曜日・時間)	_		
Cou	rse Outline/ Cou	ırse Objectives (授業の概要・到達目標)		
Clinical medicine requires solid medical knowledge, skills, comprehensive diagnostic ability, and humanity. General lectures on clinical medicine will be given on internal medicine, surgery, neuromotorology, sensory organs, reproductive development medicine, and comprehensive medicine, and basic knowledge will be taught. Develop the ability to grasp the current state of modern medicine and raise problems to be solved. Course Planning (授業計画)				
	(Contents	/ Course Objectives(授業の概要及び到達目標) of Class) ((授業内容))	<mark>Instructor</mark> (担当教員名)	Department (講座名) Class Room 〔実施場所〕
1	and their abnorm significance of ps epidemiology of n	n basic knowledge about human mental functions alities (psychiatric symptoms). To understand the ychiatry and psychiatric research by studying the nental disorders in Japan and public health issues health such as depression, suicide, and dementia.	Professor Kazuo Mishima	Department of Neuropsychiatry [Webclass]
3	security of local i necessary to refo quality of pre-ho care at medical ir	cal care is an infrastructure for the safety and residents, and in order to build the system, it is form the system with the aim of improving the spital emergency medical care and initial medical institutions. In addition, further progress in edicine such as artificial respiration management		

	Course Outline/ Course Objectives(授業の概要及び到達目標)	<mark>Instructor</mark> (担当教員名)	Department (講座名)
	(Contents of Class) ((授業内容))	(担ヨ教員石)	Class Room〔実施場所〕
5	Student should gain a basic understanding of surgery for resolving the clinical problems. In addition, the student must learn appropriate ethics, attitude, and custum to meet national expectations. As instructional objective in this class, the student will understand the anatomy, structure and function of the respiratory organs, and learn about the cause, pathophysiology, symptomatology, diagnosis and treatment of the chest surgery.	Associate Professor Kazuhiro Imai	Thoracic Surgery [Webclass]
7	Anesthesia management is not just about infusion anesthetics to the patients who undergoing surgery. It is a real-time treatment that maintains systemic homeostasis while monitoring and regulating respiration, circulation, central nervous system, body fluids, and body temperature. It is also a discipline that serves as a hub for a wide range of medical knowledge. In this class, we will explore the issues related to anesthesia management	Professor Yukitoshi Niiyama	Anesthesiolgy [Webclass]
9 10	Pediatric surgery is a discipline dealing with pediatric surgical diseases, and the target age is 0 to 15 years old. The main target diseases are neonatal surgical diseases, childhood cancer, pediatric-specific digestive organs, urinary organs, and body surface diseases. In the treatment, not only lifesaving but also surgery and treatment by a specialist considering the growth and development of the child are necessary. The lecture will outline (1) neonatal surgical diseases and (2) treatment of childhood cancer.	Associate Professor Mizuno Masaru	Department of Pediatric Surgery [Webclass]
11	It outlines the clinically frequent diseases of cardiovascular disease, and outlines the surgical treatment methods, assistive measures, and postoperative complications. As for diseases, we will teach the outline of diseases such as coronary artery disease, valvular disease, and aortic aneurysm, and show the specific surgical methods. While giving lectures on such diseases, we plan to deepen our awareness of medical problems while discussing the preciousness of life and the way of thinking about death with graduate students.	Professor Hiroyuki Nakajima	Department of Cardiovascular Surgery [Webclass]
13	Respiratory diseases include a wide range of diseases such as malignant tumors, infections, allergies, and pulmonary dysfunction. They are increasing and are exacerbating our mortality rate. In this course, we will understand the pathophysiology and mechanism of bronchial asthma. In particular, understand allergy treatments targeting cytokines. In addition, understand medical statistics that are essential in clinical research.	Project Associate Professor Kazuhiro Sato	Respiratory Medicine [Webclass]
14 15	Metabolic disorders such as diabetes and obesity have become widespread due to the Westernized diet and lifestyle. Metabolism refers to the set of life-sustaining chemical reactions in organisms. Understanding how normal metabolism functions and is regulated is essential for comprehending the pathophysiology of diabetes and obesity, both of which result from metabolic dysfunction. Students will explore both normal and abnormal metabolism, as well as cutting-edge research in the field.	Professor Hironori Waki Associate Professor Hiroki Fujita	Department of Metabolism and Endocrinology [Webclass]

	Course Outline/ Course Objectives(授業の概要及び到達目標)	• · ·	Department (講座名)
	(Contents of Class) ((授業内容))	<mark>Instructor</mark> (担当教員名)	Class Room 〔実施場所〕
16	Cardiovascular disease is an important disease that is the second leading cause of death in Japan. In this course, we will explain the basic matters of diseases such as ischemic heart disease, arrhythmia, and heart failure, which are important among them, focusing on the onset mechanism.	Professor Hiroyuki Watanabe	Department of Cardiovascular Medicine [Webclass]
17 18	Urology has both surgical and internal medicine aspects. In addition, oncology, kidney disease, male reproduction, pediatric urology, neurourology, women's urology, infectious diseases, etc. are becoming diverse. In this way, modern urology tends to be subdivided. Students are expected to have a general understanding of these issues, as well as gain deep expertise in the fields of interest and find issues for future problem solving.	Professor Tomonori Habuchi Lecture Mitsuru Saito	Department of Urology [Webclass]
19 20	Typical diseases and their treatment methods are the functional significance of sensory organs such as hearing, balance, taste, and smell, which are handled in the field of otolaryngology, and their position in the QOL of people involved in breathing, vocalization, eating, and swallowing. In addition to giving an overview while touching on, we will also outline the issues in the same area that need to be resolved in the future, such as head and neck cancer diseases.	Professor Takechiyo Yamada Associate Professor Shinsuke Suzuki	Department of Otorhinolaryngology, Head and Neck Surgery [Webclass]
21 22	Recent advances in the treatment of blood disorders are remarkable. Looking at the past, present, and future from molecular targeted therapy to transplantation.	Professor Naoto Takahashi	Department of Hematology, Nephrology, and Rheumatology [Webclass]
23 24	Pediatrics is a field of study and research not only for the diagnosis and treatment of disease, but also for mental hygiene, health, and wellbeing in children. To attain the purpose of Pediatrics, it is important to comprehend such children along with their backgrounds of family, school, social environment, and even genetics. We discuss and understand a field of cancer in children as a practice of Pediatrics.	Associate Professor Manatomo Toyono	Pediatrics [Webclass]
25 26	Currently, with the remarkable development of methods for genetic analysis, more than 200 causative genes of genodermatosis have been identified. In addition, it has been clarified that genetic mutations are related to the pathogenesis of various skin diseases such as atopic dermatitis and psoriasis, which were not previously thought to be genetic diseases. In this part, various genetic skin disorders will be discussed with functions of causative gene and	Professor Michihiro Kono	Department of Dermatology and Plastic Surgery [Webclass]
27 28	pathomechanism. This lecture will focus on one of the main fielad in neurosurgery; surgery for cerebrovascular diseases. Especialy current stutus of reasearch in cerebral aneurysms and revascularization in cerebral ischemia	Associate Professor Yusuke Takahashi	Neurosurgery [Webclass]

Course Outline/ Course Objectives(授業の概要及び到達目標)	Instructor	Department(講座名)
(Contents of Class) ((授業内容))	(担当教員名)	Class Room〔実施場所〕
The safety of surgical techniques for hepatectomy has remarkably advanced over time, and the rate of postoperative complication has been dramatically decreased. This class explains historical evolution of hepatectomy including basic research related to prevention of postoperative liver failure. In addition, current problems in surgery and role of molecular biology in the development of surgical research are also discussed.	Professor Junichi Arita	Gastroenterological Surgery [Webclass]
Laboratory tests such as blood tests and physiological tests are essential for the pathogenesis, diagnosis, and treatment of diseases. Due to the remarkable progress in medicine, clinical tests have become more extensive and specialized knowledge is required. In this lecture, the significance, usefulness, and clinical position of clinical laboratory tests will be presented. Novel methods and biological markers will be introduced, including those in our department.	Professor Shigeharu Ueki, Associate Professor Yuki Moritoki,	General Internal Medicine and Clinical Laboratory Medicine [Webclass]
We give lectures related to radiation physics and biology important for understanding radiology. By the end of class, you will understand the basics of current radiological diagnosis and radiotherapy	Lecturer Yuki Wada	Radiology [Webclass]
The eye as a sensory organ maintains its function by a special mechanism not found in other organs. Explains how transparent tissue without blood vessels maintains its transparency, the pathophysiology and disease concept of glaucoma, which is a typical disease of ophthalmology. We outline the neuroprotective treatment of the optic nerve, which ultimately causes visual field dysfunction in glaucoma.	Professor Takeshi Iwase	Department of Ophthalmology [Webclass]
In advanced aging society, healthy life expectancy, defined as the period which a person can survive in an independent and active state of mind and body, is important. Orthopedic surgery treats a wide range of diseases such as degenerative diseases of joints and spine, musculoskeletal tumor, and various efforts are being made to maintain healthy life expectancy. In particularly, falls and fractures are the most common causes of bedridden patients. In this program, we outline the prevention and treatment of falls and fractures, which contribute to the maintenance and improvement of quality of life.	Associate Professor Yuji Kasukawa Associate Professor Koji Nozaka	Orthopedic Surgery [Webclass]
 Most of the causes of liver cancer in Japan are due to HBV and HCV. HBV and HCV treatment is important for eradicating liver cancer. Therefore, we will outline the epidemiology, diagnosis, and latest treatment of chronic hepatitis, cirrhosis, and liver cancer caused by hepatitis virus in Japan. (Goto) Many neurological diseases are intractable diseases that progress chronically and are difficult to treat, but there are many diseases that have been elucidated and can be treated. The theme is neuroimmune diseases such as multiple sclerosis and myasthenia gravis, and the pathophysiology, symptoms, and treatment are 	Associate Professor Takashi Goto Lecturer Masashiro Sugawara	Gastroenterology• Neurology [Webclass]
	(Contents of Class) (授業内容)) The safety of surgical techniques for hepatectomy has remarkably advanced over time, and the rate of postoperative complication has been dramatically decreased. This class explains historical evolution of hepatectomy including basic research related to prevention of postoperative liver failure. In addition, current problems in surgery and role of molecular biology in the development of surgical research are also discussed. Laboratory tests such as blood tests and physiological tests are essential for the pathogenesis, diagnosis, and treatment of diseases. Due to the remarkable progress in medicine, clinical tests have become more extensive and specialized knowledge is required. In this lecture, the significance, usefulness, and clinical position of clinical laboratory tests will be introduced, including those in our department. We give lectures related to radiation physics and biology important for understanding radiology. By the end of class, you will understand the basics of current radiological diagnosis and radiotherapy The eye as a sensory organ maintains its function by a special mechanism not found in other organs. Explains how transparent tissue without blood vessels maintains its transparency, the pathophysiology and disease concept of glaucoma, which is a typical disease of ophthalmology. We outline the neuroprotective treatment of the optic nerve, which ultimately causes visual field dysfunction in glaucoma. In advanced aging society, healthy life expectancy, defined as the period which a person can survive in an independent and active state of mind and body, is important. Orthopedic surgery treats a wide range of diseases such as degenerative diseases of joints and spine, musculoskeletal tumor, and various efforts are b	(Contents of Class) (授業内容) (提当教貞名) The safety of surgical techniques for hepatectomy has remarkably advanced over time, and the rate of postoperative complication has been dramatically decreased. This class explains historical evolution of hepatectomy including basic research related to prevention of postoperative liver failure. In addition, current problems in surgery and role of molecular biology in the development of surgical research are also discussed. Professor Junichi Arita Laboratory tests such as blood tests and physiological tests have become more extensive and specialized knowledge is required. In this lecture, the significance, usefulness, and clinical position of clinical laboratory tests will be presented. Novel methods and biological markers will be introduced, including those in our department. Professor Shigeharu Ueki, Associate Professor Yuki Moritoki, We give lectures related to radiation physics and biology important for understanding radiology. Lecturer Yuki Wada By the end of class, you will understand the basics of current radiological diagnosis and radiotherapy Professor Takeshi Iwase The eye as a sensory organ maintains its function by a special mechanism not found in other organs. Explains how transparent tissue without blood vessels maintain is transparency, the pathophysiology and disease concept of glaucoma, which is a typical disease of ophthalmology. We outline the neuroprotective treatment of the optic nerve, which ultimately causes visual field dysfunction in glaucoma. Associate Professor Yuji Kasukawa Associate Professor Koji Nozaka In advanced aging society, healthy life expectancy, defined as the period which a person can s

1	Course Outline/ Course Objectives(授業の概要及び到達目標)		Demonstrate (講应名)	
		Instructor (担当教員名)	Department(講座名)	
	(Contents of Class) ((授業内容))	(担当教員石)	Class Room〔実施場所〕	
41	Stroke is one of the three major illnesses and is a clinically important illness. It is a disease that is closely related to aging and general lifestyle– related diseases, and is rarely discussed comprehensively because it spans many fields. In the treatment, prevention, pre-illness medical care system, and social infrastructure are widely involved in the life period including long-term care after stroke. Learn the physiology and pathophysiology of the central nervous system and related cerebral circulation necessary for understanding the disease of stroke, as well as treatment methods for	Guest Professor	[Webclass]	
42	stroke, and consider measures to reform the medical care system related to stroke and enhance the social infrastructure. Develop the ability to raise issues to be solved and to consider solutions in the process.	Tatsuya Ishikawa		
Grad	ling Criteria (成績評価の基準と方法)			
Grading is based on the viewing of lectures and reports.				
Cont	:act Information (問い合わせ先(氏名,メールアドレス等))			
Name: Academic Affairs Chair / E-mail: gakumu-in@jimu.akita-u.ac.jp				
Comment (その他特記事項)				
Information about the course of study : Please watch the lectures by yourself via WebClass. Viewing period: Late April – December 31 Textbooks and references: None in particular Study content during self-study time: It is advisable to conduct preparatory study according to the achievement objectives and class content.				