	<mark>Category</mark> (科目区分)						
	<mark>Course Title</mark> 授業科目名)	Clinical medicine General remarks					
	<mark>Instructors</mark> (担当者名)	Academic Affairs Chair	<mark>Academic Year</mark> (配当年次)	1			
Ele	uired 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)					
	<mark>Schedule</mark> (開講期間)						
	<mark>ss Date/Period</mark> 講曜日・時間)	_					
Cour	rse Outline/ Cou	<mark>Irse Objectives</mark> (授業の概要・到達目標)					
Gene orgai Deve	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)						
		/ Course Objectives(授業の概要及び到達目標)	Instructor	Department (講座名)			
	(Contents		(担当教員名)	Class Room〔実施場所〕			
	and their abnorma 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]			
2							
	Emergency medical care is an infrastructure for the safety and security of local residents, and in order to build the system, it is necessary to reform the system with the aim of improving the quality of pre-hospital emergency medical care and initial medical care at medical institutions. In addition, further progress in intensive care medicine such as artificial respiration management as organ support and acute blood purification is required to save the lives of critically ill emergency patients. On the other hand, although it has become possible to prolong life due to such advances in medicine, there are cases in which it is difficult to finally save lives in modern medicine, and human dignity is achieved through multidisciplinary						
4	medicine, and human dignity is achieved through multidisciplinary collaboration with other fields such as clinical ethics. There is an urgent need to build a medical supply system that does not impair. In this class, we will explore the issues related to these emergency medicine and intensive care medicine.						
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.						

(Contents of Class) ((授業内容)) nesthesia management is not just about infusion anesthetics to ne patients who undergoing surgery. It is a real-time treatment nat maintains systemic homeostasis while monitoring and agulating respiration, circulation, central nervous system, body uids, and body temperature. It is also a discipline that serves as a ub for a wide range of medical knowledge. In this class, we will xplore the issues related to anesthesia management ediatric surgery is a discipline dealing with pediatric surgical iseases, and the target age is 0 to 15 years old. The main target iseases are neonatal surgical diseases, childhood cancer, ediatric-specific digestive organs, urinary organs, and body surface iseases. In the treatment, not only lifesaving but also surgery and reatment by a specialist considering the growth and development f the child are necessary. he lecture will outline (1) neonatal surgical diseases and (2) reatment of childhood cancer.	(担当教員名) Professor Yukitoshi Niiyama Associate Professor Mizuno Masaru	Class Room [実施場所] Anesthesiolgy [Webclass] Department of Pediatric Surgery [Webclass]
ne patients who undergoing surgery. It is a real-time treatment nat maintains systemic homeostasis while monitoring and egulating respiration, circulation, central nervous system, body uids, and body temperature. It is also a discipline that serves as a ub for a wide range of medical knowledge. In this class, we will explore the issues related to anesthesia management rediatric surgery is a discipline dealing with pediatric surgical iseases, and the target age is 0 to 15 years old. The main target iseases are neonatal surgical diseases, childhood cancer, ediatric-specific digestive organs, urinary organs, and body surface iseases. In the treatment, not only lifesaving but also surgery and reatment by a specialist considering the growth and development f the child are necessary. he lecture will outline (1) neonatal surgical diseases and (2) reatment of childhood cancer.	Yukitoshi Niiyama Associate Professor	(Webclass) Department of Pediatric Surgery
iseases, and the target age is 0 to 15 years old. The main target iseases are neonatal surgical diseases, childhood cancer, ediatric-specific digestive organs, urinary organs, and body surface iseases. In the treatment, not only lifesaving but also surgery and reatment by a specialist considering the growth and development f the child are necessary. he lecture will outline (1) neonatal surgical diseases and (2) reatment of childhood cancer.		Pediatric Surgery
outlines the clinically frequent diseases of cardiovascular disease,		1
nd outlines the surgical treatment methods, assistive measures, nd postoperative complications. As for diseases, we will teach the utline of diseases such as coronary artery disease, valvular isease, and aortic aneurysm, and show the specific surgical methods. While giving lectures on such diseases, we plan to deepen	Associate Professor Takayuki Kadohama	Department of Cardiovascular Surgery [Webclass]
ur awareness of medical problems while discussing the reciousness of life and the way of thinking about death with raduate students.		[webciass]
This course we will understand the nathonny signofy and	Project Associate Professor Kazuhiro Sato	Respiratory Medicine [Webclass]
letabolic disorders such as diabetes and obesity have become andemic due to Westernized diet and lifestyle. Metabolism is the et of life-sustaining chemical reactions in organisms. To learn how ormal metabolism works and maintains is important to understand		Department of Metabolism and Endocrinology [Webclass]
ne pathophysiology of diabetes and obesity which is caused by ailure of normal metabolism. Students will learn about normal and bnormal metabolism and cutting-edge researches.		
ardiovascular disease is an important disease that is the second eading cause of death in Japan. In this course, we will explain the asic matters of diseases such as ischemic heart disease, rrhythmia, and heart failure, which are important among them, occusing on the onset mechanism.	Professor Hiroyuki Watanabe	Department of Cardiovascular Medicine [Webclass]
ecoming diverse. In this way, modern urology tends to be	Professor Tomonori Habuchi Lecture Mitsuru Saito	Department of Urology [Webclass]
	alignant tumors, infections, allergies, and pulmonary dysfunction. hey are increasing and are exacerbating our mortality rate. this course, we will understand the pathophysiology and echanism of bronchial asthma. In particular, understand allergy eatments targeting cytokines. In addition, understand medical atistics that are essential in clinical research. etabolic disorders such as diabetes and obesity have become andemic due to Westernized diet and lifestyle. Metabolism is the eta of life-sustaining chemical reactions in organisms. To learn how ormal metabolism works and maintains is important to understand e pathophysiology of diabetes and obesity which is caused by ilure of normal metabolism. Students will learn about normal and normal metabolism and cutting-edge researches. ardiovascular disease is an important disease that is the second ading cause of death in Japan. In this course, we will explain the usic matters of diseases such as ischemic heart disease, rhythmia, and heart failure, which are important among them, cusing on the onset mechanism. Tology has both surgical and internal medicine aspects. In addition, neology, kidney disease, male reproduction, pediatric urology, eurourology, women's urology, infectious diseases, etc. are ecoming diverse. In this way, modern urology tends to be abdivided. Students are expected to have a general understanding these issues, as well as gain deep expertise in the fields of	alignant tumors, infections, allergies, and pulmonary dysfunction. hey are increasing and are exacerbating our mortality rate. this course, we will understand the pathophysiology and echanism of bronchial asthma. In particular, understand allergy eatments targeting cytokines. In addition, understand medical atistics that are essential in clinical research. etabolic disorders such as diabetes and obesity have become indemic due to Westernized diet and lifestyle. Metabolism is the tot of life-sustaining chemical reactions in organisms. To learn how ormal metabolism works and maintains is important to understand e pathophysiology of diabetes and obesity which is caused by ilure of normal metabolism. Students will learn about normal and mormal metabolism and cutting-edge researches. ardiovascular disease is an important disease that is the second ading cause of death in Japan. In this course, we will explain the sic matters of diseases such as ischemic heart disease, rhythmia, and heart failure, which are important among them, cusing on the onset mechanism. roology has both surgical and internal medicine aspects. In addition, necology, kidney disease, male reproduction, pediatric urology, surourology, women's urology, infectious diseases, etc. are professor tomonori Habuchi Lecture

	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〕
	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.	Professor Tsutomu Takahashi	Pediatrics (Webclass)
	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 pathomechanism.	Professor Michihiro KONO	Department of Dermatology and Plastic Surgery (Webclass)
27 28	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	Professor Hiroaki Shimizu	Neurosurgery [Webclass]
	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 Hiroshi Uchinami	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]
33	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]
35	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	Professor	Department of

	Course Outline/ Course Objectives(授業の概要及び到達目標) (Contents of Class) ((授業内容))	<mark>Instructor</mark> (担当教員名)	Department (講座名) Class Room 〔実施場所〕			
36	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.	Takeshi Iwase	(Webclass)			
37	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, fractures and falls are the most common causes of bedridden patients. In this program,	Associate Professor Yuji Kasukawa Lecturer	Orthopedic Surgery [Webclass]			
38	we outline the prevention and treatment of fractures and falls, which contribute to the maintenance and improvement of quality of life.	Koji Nozaka				
39	<ol> <li>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)</li> <li>Many neurological diseases are intractable diseases that progress chronically and are difficult to treat, but there are many</li> </ol>	Associate Professor Takashi GOTO	Gastroenterology• Neurology			
40	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 outlined. (Sugawara)	ne Lecturer	[Webclass]			
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	guest professor	[Webclass]			
42	understanding the disease of stroke, as well as treatment methods for 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				
Grac	<mark>Jing Criteria</mark> (成績評価の基準と方法)					
Grading is based on the viewing of lectures and reports.						
Cont	Contact 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						
<u>Coment</u> (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.