

## 2024 Akita University Faculty of Medicine Syllabus

<b>Category</b>	: 臨床医学アドバンスコース
<b>Course Title</b>	: Advanced courses in Gastroenterology - アドバンスコース消化器病学 -
<b>Eligible Students</b>	: grade 4 Elective Course
<b>Code</b>	: 71604005
<b>Schedule</b>	: week 13 ~ week 13
<b>Credits</b>	: 1

### 1. Lead Instructor

Junichi Arita (Professor, Department of Gastroenterological Surgery, 6123, Office Hour: 9:00-17:00)

### 2. Instructors

Junichi Arita (Professor, Department of Gastroenterological Surgery, 6123, Office Hour: 9:00-17:00)  
Katsunori Iijima (Professor, Department of Gastroenterology and Neurology, 6573, Office Hour: 9:00-17:00)  
Hiroyuki Shibata (Professor, Department of Clinical Oncology, 6262, Office Hour: 9:00-17:00)  
Naoko Mori (Professor, Department of Radiology, 6302, Office Hour: 9:00-17:00)  
Takashi Goto (Associate Professor, Department of Gastroenterology and Neurology, 6102, Office Hour: 9:00-17:00)  
Yusuke Sato (Hospital Associate Professor, Department of Esophageal Surgery, 6132, Office Hour: 9:00-17:00)  
Go Watanabe (Lecturer, Department of Gastroenterological Surgery, 6215, Office Hour: 9:00-17:00)  
Kenichi Takahashi (Assistant Professor, Department of Gastroenterology and Neurology, 6104, Office Hour: 9:00-17:00)  
Yosuke Shimodaira (Assistant Professor, Department of Gastroenterology and Neurology, 6104, Office Hour: 9:00-17:00)  
Yasuhiko Nakagawa (Assistant Professor, Department of Gastroenterological Surgery, 6215, Office Hour: 9:00-17:00)  
Kouichi Ishiyama (Part-time Lecturer, Akita City Hospital)  
Shigetoshi Ohshima (Part-time Lecturer, Oomagari Kousei Medical Center)  
Yohei Horikawa (Part-time Lecturer, Hiraga General hospital)  
Takahiro Dohmen (Part-time Lecturer, Yuri-Kumiai General hospital)  
Hideaki Miyazawa (Part-time Lecturer, Akita Red-cross hospital)

### 3. Course Description Outline(Course Objectives)

#### 1. 一般目標 (GIO)

消化器病学のトピックス、up-to-date の診断や治療法を知るとともに、基礎医学的知識と研究成果が臨床にどう生かされているかを理解する。

#### 2. 到達目標 (SBOs)

- 1) functional dyspepsia と irritable bowel syndrome の対処法について説明できる (3-1 ~ 3-3)
- 2) 肝胆膵疾患の超音波による鑑別診断の要点を説明できる (3-1 ~ 3-3)
- 3) 炎症性腸疾患の病因、最新治療について説明できる (3-1 ~ 3-3)
- 4) ウィルス性肝炎についての整理された知識を持ち説明できる (3-1 ~ 3-3)
- 5) 遺伝子異常による消化器疾患の研究手法、現況を理解し説明できる (3-1 ~ 3-3)
- 6) 治療内視鏡の意義について説明できる (3-1 ~ 3-3)
- 7) 肝胆膵疾患の画像診断について整理された知識を持ち説明できる (3-1 ~ 3-3)
- 8) 消化器疾患に対する IVR について正しい知識を持ち説明できる (3-1 ~ 3-3)
- 9) 肝癌治療の実践的な選択法を理解し説明できる (3-1 ~ 3-3)
- 10) 周術期栄養療法の現況を理解し説明できる (3-1 ~ 3-3)
- 11) 主な消化器癌手術の要点について正しい知識を持ち説明できる (3-1 ~ 3-3)
- 12) 消化器癌の非手術的治療法の適応と限界について説明できる (3-1 ~ 3-3)
- 13) 消化器癌の化学療法について正しく理解し説明できる (3-1 ~ 3-3)

14) 一般的な消化器疾患に対する治療方針の策定、およびプレゼンテーションができる (2-4 , 3-1 ~ 3-4 , 4-3 ~ 4-5、5-1 ~ 5-3)

#### 1. General Instructive Objectives (GIO)

To understand the topics of gastrointestinal illness, up-to-date diagnosis and treatment methods, and that how basic medical knowledge and research results are applied clinically.

#### 2. Specific Behavioral Objectives (SBOs)

- 1) To understand about how to deal with functional dyspepsia and irritable bowel syndrome (3-1 ~ 3-3 )
- 2) To understand the points of differential diagnosis of hepatobiliary and pancreatic diseases by ultrasound examination (3-1 ~ 3-3 )
- 3) To understand the etiology of inflammatory bowel disease and the latest treatments (3-1 ~ 3-3 )
- 4) To understand viral hepatitis (3-1 ~ 3-3 )
- 5) To understand the research method and current status of gastrointestinal diseases caused by genetic abnormalities (3-1 ~ 3-3 )
- 6) To understand the significance of therapeutic endoscopy (3-1 ~ 3-3 )
- 7) To have organized knowledge about diagnostic imaging of hepatobiliary and pancreatic diseases (3-1 ~ 3-3 )
- 8) To have correct knowledge about IVR for gastrointestinal diseases (3-1 ~ 3-3 )
- 9) To understand practical treatments for liver cancer including treatment choice (3-1 ~ 3-3 )
- 10) To understand the current status of perioperative nutrition therapy (3-1 ~ 3-3 )
- 11) To have correct knowledge about the points of gastrointestinal cancer surgery (3-1 ~ 3-3 )
- 12) To understand the indications and limitations of non-surgical treatments for gastrointestinal cancers (3-1 ~ 3-3 )
- 13) To have correct understanding of chemotherapy for gastrointestinal cancers (3-1 ~ 3-3 )
- 14) To develop treatment plans for gastrointestinal diseases and to give a presentation (2-4 , 3-1 ~ 3-4 , 4-3 ~ 4-5、5-1 ~ 5-3)

#### 4. Textbook/Reference Books

特に指定なし

Not specified

#### 5. Assessment

講義やディベートアワーにおける発表内容・質疑応答等で評価する

Evaluate by presentations, Q&A during lectures and debate hours

#### 6. Out of Class Study/Message

受入人数 30 - 40 人

7月5日(金)の14:20から、ディベートアワーとして、各班より発表してもらいます。

ディベートアワーのグループ指定や症例の配布などは、7月1日(月)10:20から行います。症例データをCD-Rで渡します。パソコンがあると便利と思います。

ディベートアワーの発表のため、授業時間外の学習などが必須です。

Number of students accepted: 30-40

From 14:20 on July 5th (Friday), student group will make a presentation as a debate hour.

Group designation and distribution of teaching materials (assignment case) for debate hours will be at 10:20 on Monday, July 1st. Since teaching materials will be given on a CD-R, it would be convenient to bring a computer.

To prepare the presentation during the debate hour, off hours study is mandatory

Topics and Contents of class, Course Objectives						
	Class Date	Period	Class Format	Topics and Contents of class, Course Objectives	Instructors	Class Room
1	7 / 1 (Mon)	1-2	Lecture	Theme: How to read diagnostic imaging base on human anatomy (解剖から腹部画像診断を理解する) To learn how to read to the X-ray films and CT in relation to anatomy of the organs	Go Watanabe	附属病院第二病棟 2 階 多目的室
2	7 / 1 (Mon)	3-4	Lecture	Theme: Distribution of education materials for debate hour (ディベートアワーの症例配布) Assignment of the groups for debate hour	Go Watanabe	附属病院第二病棟 2 階 多目的室
3	7 / 1 (Mon)	5-6	Lecture	Theme: Cutting edge of esophageal surgery (食道外科の最先端) To understand the frontier treatment of the esophageal cancers	Yusuke Sato	附属病院第二病棟 2 階 多目的室
4	7 / 1 (Mon)	7-8	Lecture	Theme: Gastrointestinal surgery in video presentation (ビデオで見る消化管外科) To understand the actual maneuvers of the surgeons during digestive tract surgery under video presentation	Hideaki Miyazawa	附属病院第二病棟 2 階 多目的室
5	7 / 1 (Mon)	9-10	Lecture	Theme: Summary of viral hepatitis (ウイルス性肝炎の総まとめ) To understand recent treatment for viral hepatitis B and C	Takashi Goto	附属病院第二病棟 2 階 多目的室
6	7 / 2 (Tue)	1-2	Lecture	Theme: Cutting edge of laparoscopic gastrointestinal surgery (腹腔鏡手術の最先端) To understand current status of laparoscopic gastrointestinal surgery	Yasuhiko Nakagawa	附属病院第二病棟 2 階 多目的室
7	7 / 2 (Tue)	3-4		Theme: Preparation for debate hour in student groups (ディベートアワーの発表準備) Group study and discussion about the assigned case		附属病院第二病棟 2 階 多目的室
8	7 / 2 (Tue)	5-6	Lecture	Theme: What can we do by applying ERCP / From diagnosis to treatment (ERCP を応用してできること/診断から治療まで) To understand the indications of ERCP diagnosis and treatment	Kenichi Takahashi	附属病院第二病棟 2 階 多目的室
9	7 / 2 (Tue)	7-8	Lecture	Theme: Summary of surgical treatment for liver cancer (肝癌外科治療の総まとめ) To understand the principles of liver resections for liver cancers.	Junichi Arita	附属病院第二病棟 2 階 多目的室
10	7 / 2 (Tue)	9-10	Lecture	Theme: Significance of chemotherapy in treating gastroenterological cancers (消化器癌化学療法の意義) To learn the current standard of the cancer chemotherapy for gastroenterological cancers	Hiroyuki Shibata	附属病院第二病棟 2 階 多目的室
11	7 / 3 (Wed)	1-2		Theme: Preparation for debate hour in student groups (ディベートアワーの発表準備) Group study and discussion about the assigned case		附属病院第二病棟 2 階 多目的室
12	7 / 3 (Wed)	3-4		Theme: Preparation for debate hour in student groups (ディベートアワーの発表準備) Group study and discussion about the assigned case		附属病院第二病棟 2 階 多目的室
13	7 / 3 (Wed)	5-6	Lecture	Theme: Diagnostic imaging of intestinal obstruction by CT(interactive) (腸閉塞の CT 診断) To understand the principles of diagnosing intestinal obstruction by CT	Kouichi Ishiyama	附属病院第二病棟 2 階 多目的室

Topics and Contents of class, Course Objectives						
	Class Date	Period	Class Format	Topics and Contents of class, Course Objectives	Instructors	Class Room
14	7 / 3 (Wed)	7-8	Lecture	Theme: Imaging diagnosis of upper digestive diseases (上部消化管疾患の画像診断) To understand the diagnosis of upper digestive diseases	Katsunori Iijima	附属病院第 二病棟 2 階 多目的室
15	7 / 3 (Wed)	9-10	Lecture	Theme: Therapeutic endoscopy (治療内視鏡) To understand the recent advancement in endoscopic treatments of digestive tract cancers and indications	Yohei Horikawa	附属病院第 二病棟 2 階 多目的室
16	7 / 4 (Thu)	1-2	Lecture	Theme: Summary of medical treatment for liver cancer (肝臓内科治療の総まとめ) To understand the local ablation therapy for liver cancers	Takahiro Dohmen	附属病院第 二病棟 2 階 多目的室
17	7 / 4 (Thu)	3-4		Theme: Preparation for debate hour in student groups (ディベートアワーの発表準備) Group study and discussion about the assigned case		附属病院第 二病棟 2 階 多目的室
18	7 / 4 (Thu)	5-6		Theme: Preparation for debate hour in student groups (ディベートアワーの発表準備) Group study and discussion about the assigned case		附属病院第 二病棟 2 階 多目的室
19	7 / 4 (Thu)	7-8	Lecture	Theme: Hepatobiliary-pancreatic surgery in video presentation (ビデオで見る肝胆膵外科) To understand the actual maneuvers of the surgeons during hepatobiliary-pancreatic surgery under video presentation	Junichi Arita	附属病院第 二病棟 2 階 多目的室
20	7 / 4 (Thu)	9-10	Lecture	Theme: Imaging diagnosis of lower digestive diseases (下部消化管疾患の画像診断) To understand the diagnosis of upper digestive diseases	Yosuke Shimodaira	附属病院第 二病棟 2 階 多目的室
21	7 / 5 (Fri)	1-2	Lecture	Theme: Ultrasound diagnosis for hepatobiliary-pancreatic diseases (肝胆膵領域における超音波診断) To understand the modern ultrasonographical approach for diagnosing hepatobiliary-pancreatic diseases	Shigetoshi Ohshima	附属病院第 二病棟 2 階 多目的室
22	7 / 5 (Fri)	3-4		Theme: Preparation for debate hour in student groups (ディベートアワーの発表準備) Group study and discussion about the assigned case		附属病院第 二病棟 2 階 多目的室
23	7 / 5 (Fri)	5-6		Theme: Preparation for debate hour in student groups (ディベートアワーの発表準備) Group study and discussion about the assigned case		附属病院第 二病棟 2 階 多目的室
24	7 / 5 (Fri)	7-8	Discussion	Theme: Debate hour / What kind of (which) treatment should be chosen for gastrointestinal cancers? (ディベートアワー/消化器癌治療に何を選ぶか) Group presentations and inter-groups discussion about the treatment strategy for assigned cases	Junichi Arita Katsunori Iijima Hiroyuki Shibata Naoko Mori Yusuke Sato Go Watanabe Yasuhiko Nakagawa	附属病院第 二病棟 2 階 多目的室

Topics and Contents of class, Course Objectives						
	Class Date	Period	Class Format	Topics and Contents of class, Course Objectives	Instructors	Class Room
25	7 / 5 (Fri)	9-10	Discussion	Theme: Debate hour / What kind of (which) treatment should be chosen for gastrointestinal cancers? (ディベートアワー/消化器癌治療に何を選ぶか) Group presentations and inter-groups discussion about the treatment strategy for assigned cases	Junichi Arita Katsunori Iijima Hiroyuki Shibata Naoko Mori Yusuke Sato Go Watanabe Yasuhiko Nakagawa	附属病院第二病棟 2 階 多目的室