

Basic Coloproctological Clinical Training at TMDU

Code:4773

Credit: 20 units

Attendance hours	900
No attendance hours	0
Total hours	900

1. Instructors

Name	Position	Department	Contact Information
KINUGASA Yusuke	Professor	Gastrointestinal Surgery	kinugasa.srg1@tmd.ac.jp
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TAKAOKA Ayumi	Assistant Professor	Gastrointestinal Surgery	takaoka.srg1@tmd.ac.jp

2. Classroom/Lab Lecture

Class locations vary by course program and classroom activity. Please contact the instructor for details prior to attending class.

3. Course Purpose and Outline

- Acquire basic knowledge of the development, anatomy, and pathology of the colon, rectum, and anus and master the core skills to systematically apply that knowledge to research in this field.
- To better understand the pathogenesis of functional disorders induced by surgery, acquire anatomical and physiological knowledge of the autonomous nervous system.
- To gain a better understanding of effective multimodal therapies for recurrent and un-resectable colorectal cancers, acquire knowledge of anti-cancer agents, including their mechanisms of action and adverse events.
- Through drills utilizing Dry-box and simulators, master the hand-eye coordination, ligation, and suturing skills required for laparoscopic surgery. These are fundamental prerequisites for advanced training in colon, rectal and anal surgery.
- Assimilate knowledge in fields ranging from pathology, molecular biology, genetics, and epidemiology to public health, clinical research, and biostatistics and cultivate the ability to apply that knowledge to this field.

4. Course Objectives

- Understand the development, clinical anatomy, and pathology of diseases of the colon, rectum and anus.
- Comprehend the basic procedures and techniques involved in abdominal and laparoscopic surgery for colorectal cancer.
- Gain familiarity with the principles of anatomy and physiology that form the foundation for optimal therapies with consideration for curability and functional disorders.
- Comprehend the mechanisms of action and adverse events associated with anti-cancer agents and radiotherapy utilized in the treatment of recurrent and un-resectable colorectal cancer.

5. Format

Clinical practice: Diagnose patient disorders and observe surgical operations at Medical Hospital, Tokyo Medical and Dental University. Delve more deeply into problem areas through discussions with supervising instructors and, through dialogue with peers in a small-group setting, gain experience with research paper preparation as well as presentations and discussions in front of a larger audience.

Course Description and Timetable

Acquire general knowledge and master the techniques of diagnostic methods and treatment regimens for diseases of the colon, rectum and anus through the examination of clinical cases. Gain hands-on experience through workshops on the latest technologies and treatment strategies for the solution of problems as well as the combined application of chemotherapy and radiotherapy.

Attending round: daily

Research paper presentations: as necessary

Surgical observation sessions: as necessary

This course aims to equip students with an understanding of diagnostic procedures and treatment plans for diseases of the colon, rectum and anus. To provide active, focused training for future generations of physicians involved in this field of medical care, it comprises a comprehensive curriculum of education and research activities that cover subject matter in related fields.

Graduate school (special) lectures & seminars: as necessary

Conferences on pre- and post-operative care: 7:30-9:00 a.m. every Monday and Thursday

Paper reading and study sessions: as necessary

Timetable

No.	Date	Class Content
1.	Weeks 1-4	Perioperative management of colon, rectal and anal surgery ①
2.	Weeks 5-8	Perioperative management of colon, rectal and anal surgery ②
3.	Weeks 9-12	Introduction to endoscopic surgery
4.	Weeks 13-16	General overview of colon, rectal and anal surgery
5.	Weeks 17-20	Surgery of the colon ①
6.	Weeks 21-24	Surgery of the colon ②
7.	Weeks 25-28	Colon cancer and its treatment
8.	Weeks 29-32	Surgery of the rectum ①
9.	Weeks 33-36	Surgery of the rectum ②
10.	Weeks 37-40	Postoperative adjuvant chemotherapy
11.	Weeks 41-44	Treatment of recurrent cancers
12.	Week 45	Summary of Clinical Basic Training

6. Grading System

Final grades are comprehensively assessed on the basis of participation and performance in lectures, conferences, workshops, and study sessions as well as research content (research reports, conference presentations, etc.).

7. Prerequisite Reading

It is recommended that students enroll in this course after acquiring a certain measure of understanding and skill in basic surgical techniques, diagnostic techniques, and the diagnosis and treatment of disorders.

8. Reference Materials

None

9. Important Course Requirements

None

10. Availability in English

11. Office Hours

Contact instructor for details.

KINUGASA Yusuke kinugasa.srg1@tmd.ac.jp

12. Note(s) for Students

Be prepared to actively engage in class discussions as well as ask and answer relevant questions.