

Basic Clinical Training in Upper Digestive Surgery at TMDU

Code:4763

Credit: 20 units

| | |
|---------------------|-----|
| Attendance hours | 900 |
| No attendance hours | 0 |
| Total hours | 900 |

1. Instructors

| Name | Position | Department | Contact Information |
|-------------------|----------------------------|--------------------------|---------------------------|
| TOKUNAGA Masanori | Associate Professor | Gastrointestinal Surgery | tokunaga.srg1@tmd.ac.jp |
| KAWADA Kenro | Junior Associate Professor | Gastrointestinal Surgery | kawada.srg1@tmd.ac.jp |
| FUJIWARA Hisashi | Junior Associate Professor | Gastrointestinal Surgery | hfujiiwara.srg1@tmd.ac.jp |

2. Classroom/Lab Lecture

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

3. Course Purpose and Outline

- Acquire basic knowledge of the embryology, anatomy, and pathology of the upper digestive tract 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 autonomic nervous system.
- To gain a better understanding of effective multimodal therapies for recurrent and un-resectable cancers of the stomach and esophagus, 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 upper digestive tract 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 embryology, clinical anatomy, and pathology of upper digestive tract diseases.
- Comprehend the basic procedures and techniques involved in abdominal and laparoscopic surgery for cancers of the upper digestive tract.
- 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-resettable disorders.

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.

6. Course Description and Timetable

Acquire general knowledge and master the techniques of diagnostic methods and treatment regimens for specific disorders 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 specific disorders. 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 | Clinical anatomy of upper digestive tract (esophagus) |
| 2. | Weeks 5-8 | Clinical anatomy of upper digestive tract (stomach) |
| 3. | Weeks 9-12 | Open esophageal surgery (benign lesions) |
| 4. | Weeks 13-16 | Open esophageal surgery (malignancies) |
| 5. | Weeks 17-20 | Open surgery for gastric cancer |
| 6. | Weeks 21-24 | Laparoscopic surgery for stomach disorders |
| 7. | Weeks 25-28 | Laparoscopic surgery for gastric cancer |
| 8. | Weeks 29-32 | Postoperative complications of esophageal cancer surgery |
| 9. | Weeks 33-36 | Postoperative complications of gastric cancer surgery |
| 10. | Weeks 37-40 | Chemotherapy for esophageal cancer |
| 11. | Weeks 41-44 | Chemotherapy for gastric cancer |
| 12. | Week 45 | Summary of Clinical Basic Training for upper digestive tract |

7. Grading System

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

8. 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.

9. Reference Materials

None

10. Important Course Requirements

None

11. Availability in English**12. Office Hours**

Contact instructor for details.

TOKUNAGA Masanori E-mail : tokunaga.srg1@tmd.ac.jp

13. Note(s) to Students

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