

SISR 603 (4833) Basic Surgical Endoscopy

(Code: 4833, 1st~2nd year, 1 units)

(Course ID: GS-c4833-L)

1. Instructors

Name	Position	Department	Contact Information
Jirawat Swangsri	Chief Instructor/ Assistant Professor Dr.	Division of General Surgery, Department of Surgery	Jirawat.swa@mahidol.ac.th
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Julajak Limsrivilai	Instructor	GI Med unit, Department of Medicine	
Manus Rujivarodom	Instructor	GI Med unit, Department of Medicine	
Kotchakorn maipeng	Instructor	GI Med unit, Department of Medicine	
Nicha Srisuvoranan	Instructor	GI Med unit, Department of Medicine	
Uayporn Siriyuyuen	Instructor	GI Med unit, Department of Medicine	
Kawada Kenro	Associate Professor	Esophageal Surgery, TMDU	kawada.srg1@tmd.ac.jp

2. Classroom/Lab Lecture

Lecture: Division of General Surgery, 12th floor Syamindra Building, Siriraj Hospital

Ward round: Surgical ward, 7th floor 72th year Building, Siriraj Hospital

Operating theatre: 5th floor Syamindra Building, Siriraj Hospital

3. Course Purpose and Outline

At the end of the course, students will be able to:

- Understand common diseases in the field of Endoscopic and minimally invasive surgery
- Understand treatment and operations Endoscopic and minimally invasive surgery
- Develop research questions relating to Endoscopic and minimally invasive surgery and their treatment.
- Generate idea in innovations relating treatment of Endoscopic and minimally invasive surgery.
- Obtain view of basic sciences including molecular biology and metabolomics methods in applying for research in Endoscopic and minimally invasive surgery.

4. Course objectives

This course provides a general introduction to Endoscopic and minimally invasive surgery. Common

Endoscopic and minimally invasive surgery conditions will be thoroughly explored by means of lecture and

clinical experience. Common Endoscopic and minimally invasive operations and procedures will be

demonstrated through the course. Selected case studies will be discussed during group discussion.

Integration of basic knowledge and innovative procedure including Advanced imaging endoscopy and high

technology procedure such as endoscopic surgery, laparoscopic until Robotic assisted for implement to

cancer related research.

5. Format

- Lecture: essential topics in Endoscopic and minimally invasive surgery
- Clinical practice: participate in operating theatre, ward round and out-patient encounters in Minimally invasive Surgery Unit, Siriraj Hospital
- Conference and journal club: presentation and participation in discussion
- Group discussion: in-depth discussion with supervisors

6. Course Details

Ward round (7th floor 72yr building): Monday - Friday 7.00-8.00

Operating theater (OR, 5th floor Syamindra building): Monday – Thursday 9.00-16.00

Grand round (12th fl Syamindra building): Thursday 14.00-16.00

Conference and group discussion: to be announced

NO	Date	Topic/Details	Instructors
1	6 NOV 2023	Principle of laparoscopic and robotic surgery	Assoc. Prof. Dr. Vitoon Chinswangwatanakul
2	13 NOV 2023	Basic principle of endoscopy and innovation	Prof. Thawatchai Akaraviput
3	20 NOV 2023	Minimally invasive of hernia surgery	Assoc. Prof. Dr.Asada Methasate
4	27 NOV 2023	History and principle of esophageal cancer treatment	Assist. Prof. Dr.Jirawat Swangsri
5	4 DEC 2023	Early upper GI cancer detection	Dr. Kumagai Youichi
6	11 DEC 2023	Role of AI in GI malignancy detection	Dr. Hirasawa Toshiaki
7	18 DEC 2023	Principle of ESD for early cancer treatment	Dr. Kawada Kenro
8	25 DEC 2023	Minimally invasive surgery for esophageal cancer	Dr. Yutaka Tokairin
9	1 JAN 2024	Minimally invasive surgery for gastric cancer	Assist. Prof. Thammawat Parakonthon
10	8 JAN 2024	Principle of EUS for subepithelial tumor detection	Assoc. Prof. Nonthalee Pausawasdi
		Midterm Examination	
11	15 JAN 2024	Management of GI subepithelial tumor	Assoc. Prof. Prasit Mahawongkajit
12	22 JAN 2024	Approach to small bowel lesion	Lecturer Julajak Limsrivilai
13	29 JAN 2024	ERCP and innovation	Lecturer Manus Rujivarodom
14	5 FEB 2024	Principle of bariatric endoscopy	Dr. Kotchakorn
15	12 FEB 2024	Role of minimally invasive bariatric surgery	Assist. Prof. Voraboot Taweerutchana
16	19 FEB 2024	Role of minimally invasive endocrine surgery	Lecturer Nicha Srisuvoranan
17	26 FEB 2024	IEE for colon lesion detection	Dr. Uayporn Siriyuyuen
18	4 MAR 2024	Minimally invasive for pelvic floor	Lecturer Siriluck Prapasrivorakul

19	11 MAR 2024	Principle of laparoscopic treatment of colon cancer	Assoc. Prof. Auttaporn Trakarnsanga
20	18 MAR 2024	Minimally invasive for Linear surgery	Assist Prof. Wethit Dumronggittigule
21	25 MAR 2024	Minimally invasive for Pancreatic surgery	Lecturer Pholasith Sangserestid
Final Examination			

7. Assessment

Grades are based on attendance of lectures, performances on assignments, and levels of attitude, skills and knowledge

8. Prerequisite Reading

When reading materials are distributed or specified in advance, participants are expected to read those materials beforehand.

9. Reference Materials

Jarnagin WR, Allen PJ, Chapman WC, D'Angelica MI, DeMatteo RP, Do RKG, Vauthey JN. Blumgart's Surgery of the Liver, Biliary Tract, and Pancreas. 6th Edition. Philadelphia, PA: Elsevier, 2017.

Further reference will be announced before class.

10. Language used

All classes are conducted in English.

11. Office Hours

Mon – Fri: 9:00 AM – 17:00 PM

Contact: Assistant Professor Dr. Jirawat Swangsri Tel: +662-419-8005

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Please contact the instructor regarding questions or consultations.

12. Note(s) to Students

None.