

PROGRAM

ASIA IRCAD - TAIWAN

PRECISION ENDOCRINE SURGERY: FROM FLUORESCENCE-GUIDED SURGERY TO ARTIFICIAL INTELLIGENCE

SEPTEMBER 19 - 20, 2026



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Jacques MARESCAUX

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University of Pisa, Italy*

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*Honorary, Dean, IRCAD
Taiwan/AITS, Show Chwan
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Changhua, Taiwan*

OBJECTIVES

- Cover a comprehensive spectrum of minimally invasive and advanced endocrine surgical procedures.
- Provide clear indications for surgical treatment and review potential operative complications.
- Highlight key technical aspects of minimally invasive thyroidectomy and parathyroidectomy through live or pre-recorded demonstrations.
- Facilitate real-time interaction and discussion between faculty and participants during operative broadcasts.
- Offer hands-on training using anatomical specimens under expert guidance to improve surgical technique and procedural confidence.
- Describe practical approaches and decision-making strategies for thyroid and parathyroid surgery.

EDUCATIONAL METHODS

- Interactive theoretical and video-based sessions with active exchange between faculty and participants
- Live and pre-recorded demonstrations of operative techniques
- Cadaver-based hands-on training to practice minimally invasive thyroid and parathyroid approaches
- Case discussions to support clinical reasoning and procedural planning

TARGET AUDIENCE

- General Surgeons
- Endocrine Surgeons
- Surgeons interested in minimally invasive thyroid and parathyroid surgery

INVITED INTERNATIONAL FACULTY

- | | |
|-------------------------------|---|
| ✚ Quan-Yang DUH (USA) | ✚ Miguel MENDOZA (Philippines) |
| ✚ Paolo MICCOLI (Italy) | ✚ Brian Hung-Hin LANG (Hong Kong) |
| ✚ Gabriele MATERRAZZI (Italy) | ✚ Nobuhiro FUKUNARI (Japan) |
| ✚ Piermarco PAPINI (Italy) | ✚ Kiyomi HORIUCHI (Japan) |
| ✚ Angkoon ANUWONG (Thailand) | ✚ Jacques MARESCAUX (France) -
videoconference |
| ✚ Hoon Yub KIM (South Korea) | |
| ✚ Jin Wook YI (South Korea) | |

INVITED TAIWAN FACULTY

- | | |
|--------------------------------------|-------------------------------------|
| ✚ 陳瑞裕 Jui-Yu CHEN - 臺北榮民總醫院 | ✚ 洪崇傑 - 成大醫院 |
| ✚ 李建賢 Chen-Hsen LEE - 臺北榮民總醫院 | ✚ 紀順裕 Shun-Yu CHI - 高雄長庚紀念醫院 |
| ✚ 鄭世平 Shih-Ping CHENG - 馬偕紀念醫院 | ✚ 梁宗榮 Tsung-Jung LIANG - 高雄榮民總醫院 |
| ✚ 吳明勳 Ming-Hsun WU - 臺大醫院 | ✚ 劉絮穎 Shih-Inn LIU - 高雄榮民總醫院 |
| ✚ 陳坤源 Kuen-Yuan CHEN - 臺大醫院 | ✚ 陳華宗 CHEN - 花蓮慈濟醫院 |
| ✚ 施銘朗 Ming-Lang SHIH - 三軍總醫院 | ✚ 吳鴻昇 James Hurng-Sheng WU - 秀傳紀念醫院 |
| ✚ 伍希元 Si-Yuan WU - 三軍總醫院 | ✚ 黃士銘 Shih-Ming HUANG - 秀傳紀念醫院 |
| ✚ 黃實宏 Shih-Horng HUANG - 天主教輔仁大學附設醫院 | ✚ 李岳聰 Yueh-Tsung LEE - 秀傳紀念醫院 |
| ✚ 陳育賢 Yu-Hsien CHEN - 基隆長庚醫院 | ✚ 楊力衡 YANG - 秀傳紀念醫院 |
| ✚ 趙子傑 Tzu-Chieh CHAO - 中山醫學大學附設醫院 | |

Course Manager	柯宜汝 Sara 0937-929-310
Location	彰濱秀傳亞洲遠距微創手術中心 IRCAD-Taiwan (Asian Institute of TeleSurgery) https://www.ircadtaiwan.com/en-us/
Address	505 彰化縣鹿港鎮鹿工路 6-1 號 No. 6-1, Lugong Rd., Lukang Township, Changhua County, 505 https://maps.app.goo.gl/rLLajKYJR2KVdT3X9
Tel	+886-4-781-2988

Day 1 - Saturday, September 19th, 2026

08.00 am Faculty & Participant Shuttlebus from Hotel to IRCAD Taiwan

08.15 am Registration & Take Photo for Course Booklet

MORNING

LIVE SURGERY – 1F Auditorium

08.30 am **Welcome to participants** 黃士維 W. HUANG & 吳鴻昇 J. WU

Chairman: 黃士銘 S.M. HUANG, Q.Y. DUH, P. MICCOLI

08.40-13.00 **LIVE OR PRE-RECORDED OPERATIVE DEMONSTRATIONS**

✚ Live Surgery & Technology Integration (cases to be determined)

Technology Highlights

- ✓ ICG Fluorescence Imaging
- ✓ Parathyroid Autofluorescence
- ✓ Continuous and / or Neuromonitoring
- ✓ Intraoperative I-PTH Monitoring
- ✓ Advanced Energy Devices
- ✓ Precision Endocrine Surgery

Case 1: MIVAT

P. MICCOLI

✚ Video-Assisted Thyroidectomy in the Era of Precision Surgery

Case 2: TOETVA

A. ANUWONG

✚ Natural Orifice Thyroid Surgery:

✚ Current Evidence and Technical Pearls

Case 3: da Vinci SP

✚ Single-Port Remote Access Thyroidectomy: A New Frontier

Case 4: da Vinci Xi

✚ Robotic Thyroidectomy: Standardization and Complex Cases

13.00-14.00 Lunch (1F Cafeteria)

AFTERNOON


















THEORETICAL SESSION – 1F Auditorium

Chairman: K. HORIUCHI, 陳瑞裕 J.Y. CHEN, 施銘朗 M.L. SHIH

Session I: Evolution of Minimally Invasive Thyroid Surgery

14.00-14.15 ✚ MIVAT: Thirty Years of Experience and Future Perspectives (15 min) P. MICCOLI

14.20-14.35 ✚ TOETVA: How to Avoid Pitfalls and Complications (15 min) A. ANUWONG

14.40-14.55	 Robotic Thyroidectomy: Single-Port versus Multi-Port Platforms (15 min)	TBD
<u>Session II: Fluorescence-Guided Endocrine Surgery</u>		
15.00-15.15	 Beyond Visual Identification: Autofluorescence and ICG Fluorescence in Parathyroid Preservation (15 min)	TBD
15.20-15.35	 Quantitative Assessment of Parathyroid Perfusion: Can We Prevent Permanent Hypoparathyroidism? (15 min)	TBD
<u>Session III: Advanced Imaging and Navigation</u>		
15.40-15.55	 4D-CT, 3D Reconstruction and Augmented Reality for Difficult Endocrine Surgery (15 min)	吳鴻昇 J. WU
16.00-16.15	 Precision Localization: When Conventional Imaging Is Not Enough (15 min)	TBD
16.20-16.50	Coffee Break (1F Cafeteria)	
<u>Session IV: Oncology and Innovation</u>		
16.50-17.05	 Precision Thyroid Oncology: Key Updates from ATA 2025 and NCCN 2026 (15 min)	N. FUKUNARI or Q.Y. DUH
17.10-17.15	 Regulations, Ethics and Governance of Surgical Innovation (15 min)	Q.Y. DUH
17.20-17.35	 Artificial Intelligence in Endocrine Surgery: From Decision Support to Autonomous Navigation (15 min)	TBD
<u>Session V: Emerging Treatments Beyond Surgery</u>		
17.40-17.55	 Radiofrequency Ablation for Low-Risk PTMC: Active Biological Control Between Surveillance and Surgery (15 mins)	N. FUKUNARI
18.00-18.15	 Japanese Guidelines for Medullary Thyroid Cancer (15 mins)	K. HORIUCHI
18.20-18.35	 Primary Hyperparathyroidism  Pheochromocytoma  Genetic Screening  MEN1: Optimal Timing of Parathyroidectomy and Gland Preservation Strategies (15 min)	Q.Y. DUH
<u>Expert Panel Discussion</u>		
18.35-18.50	 Future of Endocrine Surgery: How Technology Will Transform the Next Decade (15 min)  Moderator: 吳鴻昇 J. WU  Panellists: P. Miccoli, A. Anuwong, International Faculty	
18.50 pm	End of session Evaluation of the day at reception desk (1F)	
19.00 pm	Faculty & Participant Shuttlebus from IRCAD Taiwan to Congress Dinner	

19.30 pm Congress Dinner

Day 2 - Sunday, September 20th, 2026

08.30 am Faculty & Participant Shuttlebus from Hotel to IRCAD Taiwan

MORNING

PRE-LAB – 1F Auditorium

09.00-09.15 **Introduction to Cadaver Laboratory** International Faculty

Learning Objectives:

- ✚ Safe application of new technology
- ✚ Fluorescence-guided surgery
- ✚ Neuromonitoring-guided dissection
- ✚ Remote-access thyroid surgery
- ✚ Radiofrequency ablation techniques

09.15-09.45 **Pre-Lab Technical Session** A. ANUWONG

TOETVA:

- ✚ Patient Selection, Port Placement and Critical Steps
- ✚ Working space creation
- ✚ Midline approach
- ✚ RLN identification
- ✚ Parathyroid preservation
- ✚ Specimen retrieval
- ✚ Complication avoidance

EXPERIMENTAL LABORATORY (Option C: Cadaver Lab) – 3F Laboratory

10.00-12.00 Hands-On Session on Cadaver ALL FACULTIES

Training Procedures:

Station A: Radiofrequency Ablation Master Table

Faculty Demonstration:

- ✚ Thyroid nodule targeting
- ✚ Hydrodissection
- ✚ Moving-shot technique
- ✚ Ablation margin control
- ✚ Prevention of recurrent laryngeal nerve injury

Station B: TOETVA Master Table

Faculty Demonstration:

- ✚ Vestibular port placement
- ✚ Working space creation

A. ANUWONG

This program may be subject to modification.

- + Central neck dissection
- + Thyroid lobectomy
- + Total thyroidectomy

Station C: Cadaver Wet Lab

Remote Access Thyroid Surgery Training Modules:

1. MIVAT

P. MICCOLI

- + Skin incision design
- + Endoscopic exposure
- + RLN identification
- + Parathyroid preservation

2. TOETVA

- + Vestibular approach
- + Working space development
- + Thyroid dissection
- + Specimen

3. Robotic Thyroidectomy (da Vinci Xi) (pending)

- + Docking
- + Instrument positioning
- + Thyroid lobectomy
- + Central compartment dissection

4. Robotic Single-Port Thyroidectomy (pending)

12.00-13.00 Lunch (1F Cafeteria)

EXPERIMENTAL LABORATORY
(Option C: Cadaver Lab) – 3F Laboratory

13.00-15.00 Hands-On Session on Cadaver

Continuation of Morning Lab

15.15-15.30 Certificate Ceremony
Presentation of Certificates
Closing Remarks15.30 pm End of the course
Delivery of certificate of attendance

15.45 pm Participant & Faculty Shuttlebus from IRCAD-Taiwan to Hotel & Taichung HSR Station


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交通車時刻表 Shuttlebus Time Schedule


出發時間 Departure Time	路線 Route
Day 1: September 19 (星期六 Saturday)	
08:00	鹿港永樂酒店 → 彰濱秀傳微創手術中心 Lukang Union House → IRCAD-Taiwan
19:00	彰濱秀傳微創手術中心 → 鹿港永樂酒店 / 大會晚宴 IRCAD-Taiwan → Lugang Union House / Congress Dinner
21:30	大會晚宴 → 樂活紓壓俱樂部 Congress Dinner → Lugang Lohas Relaxing Club
Day 2: September 20 (星期日 Sunday)	
08:30	鹿港永樂酒店 → 彰濱秀傳微創手術中心 Lukang Union House → IRCAD-Taiwan
15:45	彰濱秀傳微創手術中心 → 鹿港永樂酒店 → 高鐵台中站 IRCAD-Taiwan → Union House Lukang → Taichung HSR Station  高鐵接駁車將從 IRCAD 直接出發，請您於早上退房後，將行李一併帶至 IRCAD 報到。 <i>*The HSR shuttle will depart directly from IRCAD-Taiwan.</i> <i>Please check out of your hotel in the morning and bring your luggage with you to IRCAD.</i>

 行李寄放：退房後請將行李帶至 IRCAD，櫃台後方備有行李間。

Luggage: After check-out, please bring your luggage to IRCAD. A storage area is available behind the front desk.

 停車：可停放於醫院停車格，課程結束後至 IRCAD 櫃台領取免費停車券。

Parking: Park in the hospital lot and get a free parking voucher at the IRCAD front desk after the course.

 計程車：若需叫車，請提前告知工作人員協助安排。

Taxi: Let our staff know in advance if you need a taxi, and we'll assist with booking.

Hotel Information	鹿港永樂酒店 Yong Le Lukang, a Tribute Portfolio Hotel (UNION HOUSE Lukang) https://www.yonglelukang.com.tw/
Address	505 彰化縣鹿港鎮三民路 152 號 No. 152, Sanmin Road, Lukang Township, Changhua County, 505 https://goo.gl/maps/xVGxf1XecPLAd4z4A
Tel	+886-4-776-2999

彰濱秀傳醫療園區地圖

Map of Chang Bing Show Chwan Health Park



Hotel Information	樂活紓壓俱樂部 LOHAS RELAXING CLUB Lukang https://www.facebook.com/lukanglohas
Address	505 彰化縣鹿港鎮鹿工路 6 號 (彰濱秀傳心理健康大樓 2F) 2F, No. 6-2, Lugong Road, Lukang Township, Changhua County, 505 (Chang Bing Show Chwan Memorial Hospital, Mental Health Building 2F) https://maps.app.goo.gl/9JDCZZjYwPuC4g1M7
Tel	+886-4-781-1163

Local Dining Options	
LeeLi's	Taiwanese-Western Fusion Bistro
海味珍海鮮餐廳	Hai Wei Zhen Seafood
水生海鮮會館	Mu Sheng Seafood
王岡麵線糊	Wang Wang Noodle
永香民俗小吃	Yong Xiang Taiwan Snack
掬翠拾煙蔬食創作料理 (素)	Ju Cui Shi Yan (Vegetarian)
勝豐吧	Sheng Feng Bar