

Full Neurosurgery Training Course

Keyhole Surgery, Endo-Skull Base, Bypass Surgery & Endoscopic Spine

September 15-18, 2020
Special Course for Young Neurosurgeons



Chairman

Min Ho Huang

Show Chwan Memorial Hospital
Changhua, Taiwan



President

Jacques Marescaux

President, IRCAD
University of Strasbourg,
France

Director

Wayne Huang

Director, IRCAD-Taiwan
Show Chwan Memorial Hospital,
Changhua, Taiwan

Objectives

- To provide an overview of the complex anatomy of the skull base
- To cover a broad spectrum of the skull base approaches and describe the technical steps of each specific approach
- To discuss indications of skull base approaches and surgical strategies
- To provide hands-on session on cadaveric specimens and improve skills
- To become more familiar with endoscopic endonasal approaches
- To understand the rationale and challenge of endoscopic endonasal approaches to the skull base
- To allow discussion between expert in the field of skull base surgery and trainees

Educational Methods

- Interactive theoretical and video sessions between faculty and course participants.
- Practical training on anatomical specimen



MIS Keyhole & Endoscopic Skullbase Faculty

楊大羽 Dar-Yu YANG (彰濱秀傳)	張維傑 Wei-Chieh CHANG (彰濱秀傳)
沈炯祺 Chiung-Chyi SHEN (台中榮總)	黃博浩 Abel Po-Hao HUANG (台大醫院)
顏玉樹 Yu-Shu YEN (台北榮總)	林志峰 Chih-Feng LIN (台大醫院)
鄭澄懋 Cheng-Mao CHENG (台中榮總)	楊士弘 Shih-Hung YANG (台大醫院)
楊孟寅 Meng-Yin YANG (台中榮總)	許皓淳 Hao-Chun HSU (雲林台大)
陳建民 Chien-Min CHEN (彰基)	辛明泰 Ming-Tai HSING (彰基)
湯其暉 Chi-Tun TANG (三軍總)	唐健綸 Chien-Lun TANG (嘉義榮總)
王緯歆 Wei-Hsin WANG (台北榮總)	

Bypass, Vascular Surgery, Thrombectomy Faculty

楊順泰 Shun-Tai YANG (衛福部雙和)	取栓
陳春忠 Chun-Chung CHEN (中國醫大)	白景州 Ching-Chou PAI (彰化秀傳)
林俊甫 Chun-Fu LIN (台北榮總)	陳致霖 Chih-Lin CHEN (彰濱秀傳)
莊銘榮 Jimmy Ming-Jung CHUANG (高雄長庚)	李崇新 Chung-Hsin LEE (台中榮總)
謝博全 Po-Chuan HSIEH (土城醫院)	

MIS Endoscopic Spine Surgery Faculty

邱正迪 Cheng-Di CHIU (中國醫大)	李企桓 Chi-Huan LEE (彰濱秀傳)
楊孟寅 Meng-Yin YANG (台中榮總)	陳斯逸 Se-Yi CHEN (中山醫大)
陳建民 Chien-Min CHEN (彰基)	吳聖文 Sheng-Wen WU (衛福部苗栗)
葉坤傑 Kun-Chieh YEH (國軍新竹)	



Keyhole Surgery

Day 1 - Tuesday, September 15th, 2020

MORNING

07.45 AM Registration

08.15 AM Opening Remark & Introduction of Course

D.Y. Yang 楊大羽
& Y.S. Yen 顏玉樹

08.30 AM LECTURES SESSION: KEYHOLE APPROACH IN NEUROSURGERY

08.30-10.20 Basic technical aspects

- FTOZ
- Frontal keyholes
- Trans-orbital
- Pterion keyhole
- Subtemporal approach
- Jannetta procedure

W.C. Chang 張維傑
S.H. Yang 楊士弘
W.C. Chang 張維傑
M.Y. Yang 楊孟寅
C.T. Tang 湯其暉
M.Y. Yang 楊孟寅

10.20-10.30 Coffee Break

10.30 AM PRACTICAL SESSION IN EXPERIMENTAL LABORATORY

10.30-12.00 **Hand-on practice on cadavers**
● FTOZ

12.00-13.00 Lunch

AFTERNOON

13.00 PM PRACTICAL SESSION IN EXPERIMENTAL LABORATORY

13.00-18.00 **Hand-on practice on cadavers**
● Keyhole approach

18.00 pm End of the session - Shuttle-bus from IRCAD to hotel

Endo-Skullbase Surgery

Day 2 - Wednesday, September 16th, 2020

MORNING

08.00 AM LECTURES SESSION: KEYHOLE APPROACH IN NEUROSURGERY

- Keyhole concepts C.C. Shen 沈炯祺

08.30 AM LECTURES SESSION: ENDOSCOPIC SKULL BASE APPROACH

- 08.30-10.20 Basic technical aspects
- Concepts of endoscopic skull base surgery Y.S. Yen 顏玉樹
 - Anatomy and approach M.T. HSING 辛明泰
 - Anterior skull base surgery & reconstruction C.F. LIN 林志峰
 - Lateral skull base P.H. Huang 黃博浩
 - Transclival approach W.H. Wang 王緯歆
 - Reviews W.C. Chang 張維傑

10.20-10.30 Coffee Break

10.30 AM PRACTICAL SESSION IN EXPERIMENTAL LABORATORY

10.30-12.00 **Hand-on practice on cadavers**

12.00-13.00 Lunch

AFTERNOON

13.00 PM PRACTICAL SESSION IN EXPERIMENTAL LABORATORY

13.00-18.00 **Hand-on practice on cadavers**

18.00 pm End of the session - Shuttle-bus from IRCAD to hotel

Bypass Surgery

Day 3 - Thursday, September 17th, 2020

MORNING

08.30 AM LECTURES SESSION: ANASTOMOSIS IN NEUROSURGERY

- | | | |
|-------------|---|---------------------------------------|
| 08.30-10.20 | <ul style="list-style-type: none"> ● Basic technique ● Decision making, planning and rescue in cerebral revascularization | <p>S.T. Yang 楊順泰
C.F. Lin 林俊甫</p> |
| | <ul style="list-style-type: none"> ● Case sharing: "Unplanned" vessel sacrifice - Intraoperative decision making on graft vessel selection and possible strategy | <p>P.C. Hsieh 謝博全</p> |
| | <ul style="list-style-type: none"> ● Case sharing: Pediatric moyamoya disease with alagille syndrome | <p>M.J. Chuang 莊銘榮</p> |

10.20-10.30 Coffee Break

10.30 AM PRACTICAL SESSION IN EXPERIMENTAL LABORATORY

- | | |
|-------------|--|
| 10.30-12.00 | <p>Hand-on practice on anastomosis</p> <ul style="list-style-type: none"> ● Models & Live Tissue (Rat) |
|-------------|--|

12.00-13.00 Lunch

AFTERNOON

13.00 PM LECTURE SESSION: INTRA-CRANIAL VESSELS

- | | | |
|-------------|---|----------------------|
| 13.00-14.00 | <ul style="list-style-type: none"> ● Technique for dissection STA, MCA, Acom, Pcom, and Aneurysm | <p>C.C. Chen 陳春忠</p> |
| | <p>Special lecture – Emergent Thrombectomy</p> <ul style="list-style-type: none"> ● Acute stroke demo | <p>C.L. Chen 陳致霖</p> |

14.00 PM PRACTICAL SESSION IN EXPERIMENTAL LABORATORY

- | | |
|-------------|---|
| 14.00-18.00 | <p>Hand-on practice on anastomosis</p> <ul style="list-style-type: none"> ● Cadaver dissection for vessels <p>Demo – interventional thrombectomy (Porcine)</p> |
| 18.00 PM | <p>End of the session - Shuttle-bus from IRCAD to hotel</p> |

Endoscopic Spine Surgery

Day 4 - Friday, September 18th, 2020

MORNING

08.30 AM LECTURES SESSION: ENDOSCOPIC SPINE SURGERY

08.30-09.20	<ul style="list-style-type: none">● PELD concepts and basic technique● Case sharing● Case sharing● Advanced endoscopic spine surgery	C.D. Chiu 邱正迪 S.Y. Chen 陳斯逸 S.W. Wu 吳聖文 C.M. Chen 陳建民
-------------	---	--

09.20-09.30 Coffee Break

09.30 AM PRACTICAL SESSION IN EXPERIMENTAL LABORATORY

09.30-12.00	Operative Technique (Hands-on Cadaver Dissection) Step-by-step localization
-------------	---

12.00-13.00 Lunch

AFTERNOON

13.00 PM PRACTICAL SESSION IN EXPERIMENTAL LABORATORY

13.00-17.00	Operative Technique (Hands-on Cadaver Dissection) <ul style="list-style-type: none">● Lumbar canal medial stenosis at L45 and L5S1 central● Lateral stenosis● Interlaminar and transforaminal access● Transfacet access
17.00 pm	End of the course – Shuttle-bus from the IRCAD – Taichung HSR Station- Hotel