

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)	王緯歆 Wei-Hsin WANG (台北榮總)
顏玉樹 Yu-Shu YEN (台北榮總)	黃博浩 Abel Po-Hao HUANG (台大醫院)
鄭澄懋 Cheng-Mao CHENG (台中榮總)	林志峰 Chih-Feng LIN (台大醫院)
楊孟寅 Meng-Yin YANG (台中榮總)	楊士弘 Shih-Hung YANG (台大醫院)
陳建民 Chien-Min CHEN (彰基)	許皓淳 Hao-Chun HSU (雲林台大)
湯其暉 Chi-Tun TANG (三軍總)	辛明泰 Ming-Tai HSING (彰基)

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 主任 (彰化秀傳)
林俊甫 Chun-Fu LIN (台北榮總)	陳致霖 主任 (彰濱秀傳)
楊道杰 Tao-Chieh YANG (中山醫大)	李崇新 Zack LEE (台中榮總)
莊銘榮 Jimmy Ming-Jung CHUANG (高雄長庚)	
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 主任 (彰濱秀傳)
楊孟寅 Meng-Yin YANG (台中榮總)	施育彤 主任 (仁愛醫院)
陳建民 Chien-Min CHEN (彰基)	陳斯逸 Se-Yi CHEN (中山醫大)
高定憲 Ting-Hsien KAO (林新醫院)	吳宗洋 醫師 (彰化秀傳)
葉坤傑 Kun-Chieh YEH (國軍新竹)	吳聖文 Sheng-Wen WU (衛福部苗栗)
趙紹清 Shao-Ching CHAO (衛福部彰化)	



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

- Keyhole concepts
- OZ
- Frontal keyholes
- Trans-orbital
- Pterion keyhole
- Jannetta procedure

C.C. Shen 沈炯祺
W.C. Chang 張維傑
S.H. Yang 楊士弘
W.C. Chang 張維傑
M.Y. Yang 楊孟寅
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

08.30 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 and reconstruction	C.F. LIN 林志峰
	● Lateral skull base	P.H. Huang 黃博浩
	● Transclival approach	W.H. Wang 王緯歆
	● Closure technique	C.F. Lin 林志峰
	● 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 	S.T. Yang 楊順泰 C.F. Lin 林俊甫
	<ul style="list-style-type: none"> ● Case sharing 	T.C. Yang 楊道杰
	<ul style="list-style-type: none"> ● Case sharing: Pediatric moyamoya disease with alagille syndrome 	M.J. Chuang 莊銘榮

10.20-10.30 Coffee Break

10.30 AM PRACTICAL SESSION IN EXPERIMENTAL LABORATORY

10.30-12.00	Hand-on practice on anastomosis <ul style="list-style-type: none"> ● Models & Live Tissue (Rat)
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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 	C.C. Chen 陳春忠
	Special lecture – Emergent Thrombectomy <ul style="list-style-type: none"> ● Acute stroke demo 	C.L. Chen 陳致霖

14.00 PM PRACTICAL SESSION IN EXPERIMENTAL LABORATORY

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