

# Neurosurgery Ultrasound Workshop Agenda

Sunday, November 5th, 2023



Ultrasound imaging of spine and peripheral nerves: applications in pain interventions and minimally invasive surgeries

時間: 2023/11/05 (日) 08:30-17:30

活動地點: 台中榮民總醫院

課程Organizer: 萊源神經修復中心 陳建華醫師

主辦單位: 台灣中青年神經外科醫學會; 台中榮總神經外科; 萊源神經修復中心

| Neurosurgery Ultrasound Workshop |                                                                                                                        |                 |
|----------------------------------|------------------------------------------------------------------------------------------------------------------------|-----------------|
| 課程目的                             | 1.本工作坊著重在實用性, 目的為熟悉超音波定位脊椎及評估周邊神經的技巧, 以應用在介入性疼痛治療及輔助脊椎及周邊神經微創手術。<br>2.一個講師帶四個學員的小組設計, 讓初學者可以快速上手, 進階者可以透過跟講師切磋進一步精進技術。 |                 |
| 講師                               | 萊源神經修復中心神經外科      陳建華醫師<br>台大醫院復健科      張凱閔醫師<br>員榮醫院復健科      陳冠霖醫師<br>台北榮總神內腦血管科      李香盈老師                           |                 |
| 時間                               | 主題                                                                                                                     | 講師              |
| 08:10-08:30                      | 報到                                                                                                                     |                 |
| 08:30-08:45                      | 開場嘉賓致詞                                                                                                                 | 中青年神外醫學會<br>理事長 |
| 08:45-09:15<br>Lecture           | Ultrasound physics of imaging spine and nerves                                                                         | 陳建華醫師           |

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|                                                                                                                                                                                                                                                                                                                                   | Ultrasound imaging of cervical spine and its applications in interventions/minimally invasive surgeries: techniques and pearls |       |
| 09:15-09:30<br>Live demonstration                                                                                                                                                                                                                                                                                                 | Ultrasound imaging of cervical spine (真人掃描)                                                                                    | 陳建華醫師 |
| 09:35-09:50<br>Lecture                                                                                                                                                                                                                                                                                                            | Ultrasound imaging of peripheral nerves                                                                                        | 張凱閔醫師 |
| 09:50-10:05<br>Live demonstration                                                                                                                                                                                                                                                                                                 | Ultrasound imaging of peripheral nerves (真人掃描)                                                                                 | 張凱閔醫師 |
| 10:10-10:25<br>Lecture                                                                                                                                                                                                                                                                                                            | Ultrasound imaging of lumbar spine, sacral hiatus, S-I joint, and its clinical applications                                    | 陳冠霖醫師 |
| 10:25-10:40<br>Live demonstration                                                                                                                                                                                                                                                                                                 | Ultrasound imaging of lumbar spine, sacral hiatus, and S-I joint (真人掃描)                                                        | 陳冠霖醫師 |
| 10:45-11:00<br>Lecture                                                                                                                                                                                                                                                                                                            | Color Doppler evaluation of carotid artery and vertebral artery and its clinical applications                                  | 李香盈老師 |
| 11:00-11:15<br>Live demonstration                                                                                                                                                                                                                                                                                                 | Color Doppler of carotid artery (真人掃描)                                                                                         | 李香盈老師 |
| 11:15-11:35                                                                                                                                                                                                                                                                                                                       | Coffee Break                                                                                                                   |       |
| 實作工作坊 Hands on workshop 分 A, B, C, D 四組, 每組 4位學員                                                                                                                                                                                                                                                                                  |                                                                                                                                |       |
| 第一站 頸椎真人掃描 陳建華醫師<br>Ultrasound-imaging of cervical spine disc, nerve roots, brachial plexus, stellate ganglion, vertebral artery, cervical facet/medial branch; techniques, positioning, and practical pearls regarding interventions for cervical disc, nerve root, and cervical facet/medial branch and stellate ganglion block |                                                                                                                                |       |

**第二站 周邊神經真人掃描 張凱閔醫師**

Ultrasound-imaging of ulnar nerve, median nerve, and peroneal nerve

**第三站 腰椎真人掃描 陳冠霖醫師**

Ultrasound-imaging of lumbar SAP/facet/medial branch, sacral hiatus, S-I joint;  
techniques, positioning, and practical pearls

**第四站 頸動脈及椎動脈真人掃描 李香盈老師**

Color Doppler of carotid artery

| 分組及站別       |                             |                                           |                             |                                                  |
|-------------|-----------------------------|-------------------------------------------|-----------------------------|--------------------------------------------------|
| Stations    | 站一<br>陳建華<br><b>C-spine</b> | 站二<br>張凱閔<br><b>Peripheral<br/>nerves</b> | 站三<br>陳冠霖<br><b>L-spine</b> | 站四<br>李香盈<br><b>Carotid and<br/>vertebral a.</b> |
| 11:35-12:30 | A                           | B                                         | C                           | D                                                |
| 12:30-13:25 | Lunch                       |                                           |                             |                                                  |
| 13:25-14:20 | B                           | A                                         | D                           | C                                                |
| 14:20-15:15 | C                           | D                                         | A                           | B                                                |
| 15:15-15:30 | Coffee Break                |                                           |                             |                                                  |
| 15:30-16:25 | D                           | C                                         | B                           | A                                                |
| 16:30-17:00 | Discussion                  |                                           |                             |                                                  |