



## Lunch Seminar 1

### Empowering Emergency Care: AI Insights from Emergency and Radiology Practice

(本演講由長佳智能股份有限公司贊助)

時間：2025 年 6 月 27 日(五) 12:00~13:00

會議室：202 會議廳

座長：陳維恭醫師(中國附醫)

12:00~12:05 Opening

12:05~12:25 Real-World AI in Emergency Head CT: The CMUH Journey

講師：張裕鑫醫師(中國附醫)

12:25~12:30 Discussion

12:30~12:50 Real-World Evidence: Radiology Reflections on AI Integration

講師：周發揚醫師(中國附醫)

12:50~13:00 Discussion

#### 課程簡介

本研討會將探討 AI 技術於急診頭部電腦斷層影像判讀的真實世界應用。第一部分由急診醫師分享 AI 導入後的臨床流程，包括 AI 結果與 PACS 整合、即時警示通知機制，以及其在各類顱內出血亞型中的輔助辨識表現。內容將結合真實世界資料，透過回溯性分析比較 AI 導入前後 ICH 偵測率的變化，並搭配實際案例與量化數據進行說明。第二部分由放射科醫師切入，說明 AI 判讀過程中常見的假陽性與假陰性錯誤，並以多則臨床案例詳述其影像特徵與可能誤判機轉，供臨床醫師熟悉 AI 常見誤判模式。另將簡要比較兩套 AI 系統於實際應用中的差異觀察供臨床參考。

This session explores the real-world application of AI in emergency head CT interpretation. The first part, presented by an emergency physician, outlines the clinical workflow after AI integration, including PACS integration, real-time alert mechanisms, and AI performance in identifying various subtypes of intracranial hemorrhage. Real-world data are used to compare ICH detection rates before and after AI implementation through retrospective analysis and case-based quantitative evaluation. The second part, from a radiologist's perspective, discusses common false positives and false negatives encountered during AI interpretation, with multiple clinical cases illustrating imaging features and potential error mechanisms. A brief comparison of two AI systems in practical settings will also be presented for clinical reference.