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Speech Title	The Application of Big Data and Artificial Intelligence in Integrative Care Combining Western and Traditional Chinese Medicine (大數據與 AI 用於中西醫整合照護)
<p data-bbox="134 506 264 539">中文摘要</p> <p data-bbox="134 551 1461 920">大數據與人工智慧（AI）近年已成為中西醫整合照護研究的重要趨勢。本研究旨在探討透過大型醫療資料庫分析，結合大型語言模型（LLM），以促進中西醫整合照護的精準化與個人化發展。透過分析全國性健保資料庫與醫院臨床研究資料庫，運用機器學習技術，辨識患者接受中西醫治療的療效及安全性差異，並建構中西醫共同照護模型。此外，本研究亦嘗試應用 LLM 進行病歷文本挖掘、自動化資料彙整與照護相關衛教，提供中西醫診療決策之參考依據。透過 LLM 的自然語言處理能力，可有效整合患者診療紀錄，提升醫療決策之效率與準確性，並增加患者對於照護計劃的參與度。未來需持續擴大資料庫規模與提升 AI 模型的泛化能力，以實現更全面的中西醫整合精準照護。</p> <p data-bbox="134 936 245 969">Abstract</p> <p data-bbox="134 981 1461 1373">Big data and artificial intelligence (AI) have emerged as significant trends in integrative Chinese and Western medical care research in recent years. This study aims to explore how the analysis of large-scale medical databases combined with large language models (LLMs) can promote precision and personalized integrative care. By analyzing national health insurance databases and hospital clinical research databases with machine learning techniques, differences in efficacy and safety between traditional Chinese medicine (TCM) and Western medical treatments can be identified, leading to the development of integrative care models. Furthermore, this study applies LLMs for medical record text mining, automated data compilation, and patient education regarding care, providing evidence-based decision support for integrative medical practices. Leveraging the natural language processing capabilities of LLMs effectively integrates patients' medical records, enhances the efficiency and accuracy of clinical decision-making, and increases patient engagement in care plans. Future efforts should expand database scales and enhance the generalization capabilities of AI models to achieve comprehensive, precision integrative care.</p>	