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TCVGH International Medical Conference

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Speech Title	Emerging Strategies for Enhancing Clinical Outcomes Evaluation and Implementation (臨床實證研究結果評估的新思維)
<p>Abstract :</p> <p>Randomized clinical trials (RCTs) have long been regarded as the gold standard for assessing the efficacy of new healthcare interventions, including drugs and medical devices. However, they are resource-intensive, costly, and time-consuming before their real-world implementation. With the growth of real-world data (RWD), there is an increasing need to harness its potential to complement RCTs in certain contexts. Real-world evidence (RWE) necessitates reliable and valid data collected from diverse settings. It is critically important to avoid the pitfalls of poor-quality input in order to develop clinically meaningful algorithm-guided interventions and care delivery.</p> <p>A fundamental step toward harnessing RWD effectively is to establish a robust technological infrastructure for streamlined data integration from various sources, including electronic health records (EHRs), claims data, patient registries, and wearable devices, among others. Additionally, the creation of clinically-relevant Common Data Elements (CDEs) across diverse settings and institutions is pivotal. These standardized data elements enable consistency in data collection, making it easier to compare and analyze pooled information from diverse settings. The synergy between a robust technological infrastructure, clinically-relevant CDEs, and data integration is essential to realize the full potential of RWD.</p> <p>This presentation aims to elucidate innovative strategies for optimizing the dissemination and implementation of RWD in clinical research and practice. Notably, advancements in artificial intelligence (AI) and machine learning (ML) are reshaping the healthcare landscape. Their integration into the realm of clinical research and practice presents a promising future for precision medicine.</p>	