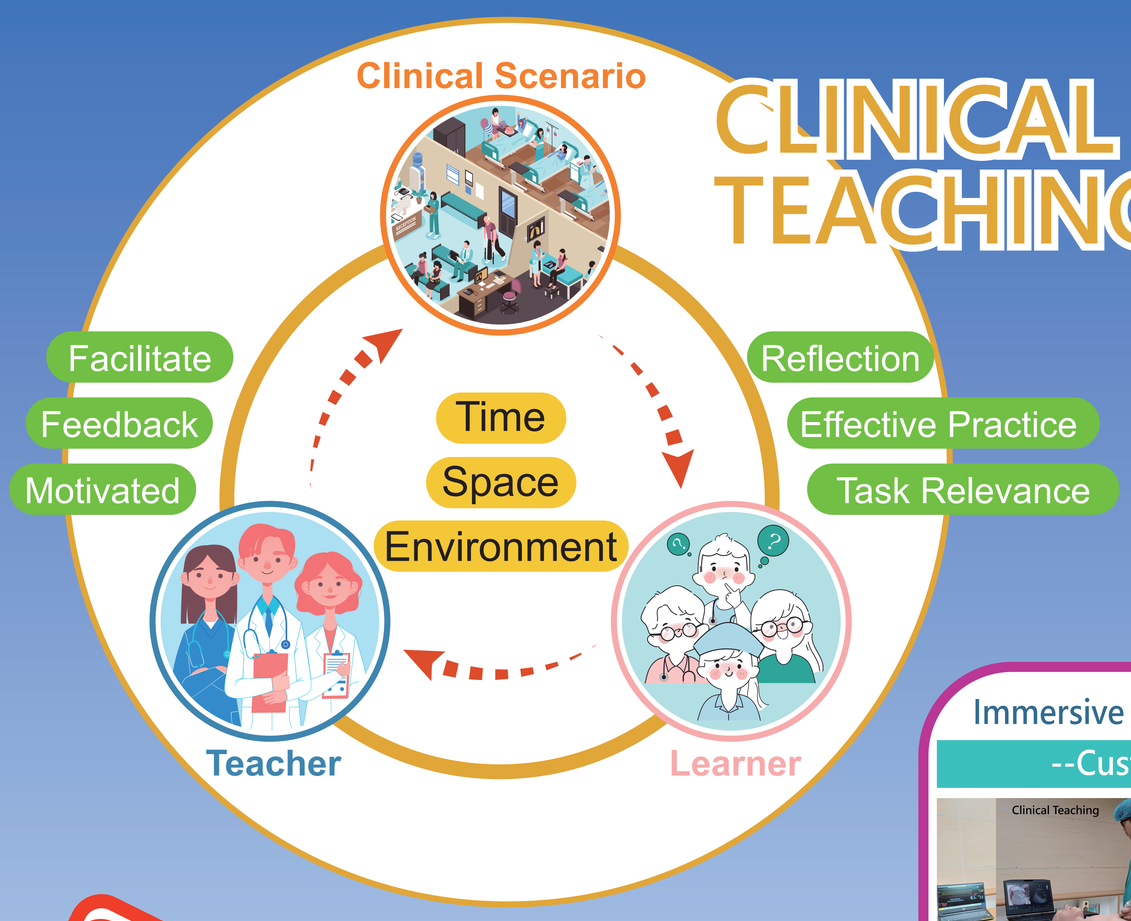
P566

Applying Immersive Customized Simulation Teaching Strategies to Improving Medical Clinical Teaching Outcomes

Yung-Chi Hsu, Jen-Jiuan Liaw, Cheng-Yi Chao, Wei-Hung Chan, Yao-Chia Liu, Wei-Cheng Tseng
National Defense Medical Center, Tri-Service General Hospital, Taiwan

Introduction

- Few studies explored the strategies for motivating the faculty of the Simulation Center to achieve the expected outcomes of healthcare institutions.
- Address the challenges in clinical teaching due to limitations in time, space, and environment.
- The study's purpose was to assess the effects of “Immersive Customized Simulation Teaching Strategies ” in medical clinical education.



Participants / Assessment	PGY Residents	Clinical Psychologists	Medical Laboratory Scientists	Pharmacists	Occupational Therapists
Competence Enhancement:	↗	↗	↗	↗	↗
Flow Experience	B=3.37 P< 0.001	B=2.1 P=0.03			
Cognitive Load Reduction		B= -6.86 P=0.007		20.15±5.28 vs. 12.46±4.16 P<0.001	
Learning Attitude Improvement	B=2.44 P<0.001			3.80±1.01 vs. 4.60±0.63 P<0.05	
Self-Efficacy Boost	B=3.03 P< 0.001	B=1.50 P=0.007			

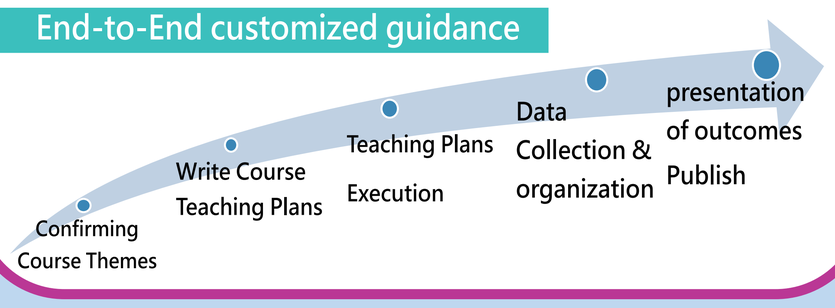
GEE model and paired t-test

Immersive Customized Simulation Teaching Strategies

--Customized Immersive Projection Room--



End-to-End customized guidance



Methods

Design:

- Exploratory study using convenience sampling at a medical center in northern Taiwan.

Process:

- Implementation of “Immersive Customized Simulation Teaching Strategies ” in various medical professions.
- Teaching methods included confirming course themes, execution, data collection, and presentation of outcomes.

Participants:

- PGY Residents, Clinical Psychologists, Medical Laboratory Scientists, Pharmacists, Occupational Therapists.

Assessment:

- Used validated 5-point Likert scales before and after simulation training.
- Data analyzed using GEE model and paired t-tes

Summary of results

Symbol of National Quality


SNQ 國家品質標章證書
Certificate of the Symbol of National Quality
國品字第 S010099 號
三軍總醫院
擬真優秀 - 三軍總醫院擬真中心
參加 2022 SNQ 國家品質標章 醫療院所類／醫院醫務管理組 評選，
經評審委員會三階段審查及決議，核定通過認證，特此證明。
認證效期：至 2023 年 12 月 31 日止
This is to certify that
Top Simulation Glorious Hero(in)es-CoS TEAM
of Tri-Service General Hospital (TSGH)
by
Tri-Service General Hospital
has been awarded the Symbol of National Quality.
Category: Hospital – Healthcare Administration
This certificate is valid until December 31st, 2023
國家品質標章評審委員會
The Symbol of National Quality Review Committee
總召集人 陳 維 昭
Wei-Jao Chen, Convener
財團法人生技醫療科技政策研究中心
Research Center For Biotechnology and Medicine Policy
董 事 長 王 金 平
Jin-Pyng Wang, Founder



Posters published in AMEE (2019~2024)

Conclusions

Impact:

- “Immersive customized simulation teaching strategies” effectively enhance learning outcomes and teaching quality.
- Supports faculty development in areas like communication, goal setting, and building a collaborative culture.

Applications:

- These strategies can be applied to a wide range of medical professionals and healthcare providers.



Corresponding author
Yung-Chi Hsu
x0939778570@gmail.com