

[Panel Discussion 2] Digital Transformations in Higher Education

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From Humanity to Innovation... Innovation/ Clinical **Entrepreneurship** Education Simulation Active Interdisciplinary Learning

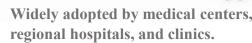
Humanity

- Enhanced by Gen AI Innovations









- Gen AI innovations
- Smart ward technology



2024.02.08

Launch

2023.12.31

TMU Health HIS3.0 Project

2023.10

Launch

2024.03.01

Launch

2024.07.01 Launch

2025

TAIP-X

One Platform One Standard One Protocol

Ambulatory Care

- Telemedicine/ Telehealth service
- Hospital-at-Home (HaH) services
- Resilient medicine service



TMU Health: IT Roadmap (2023-24)

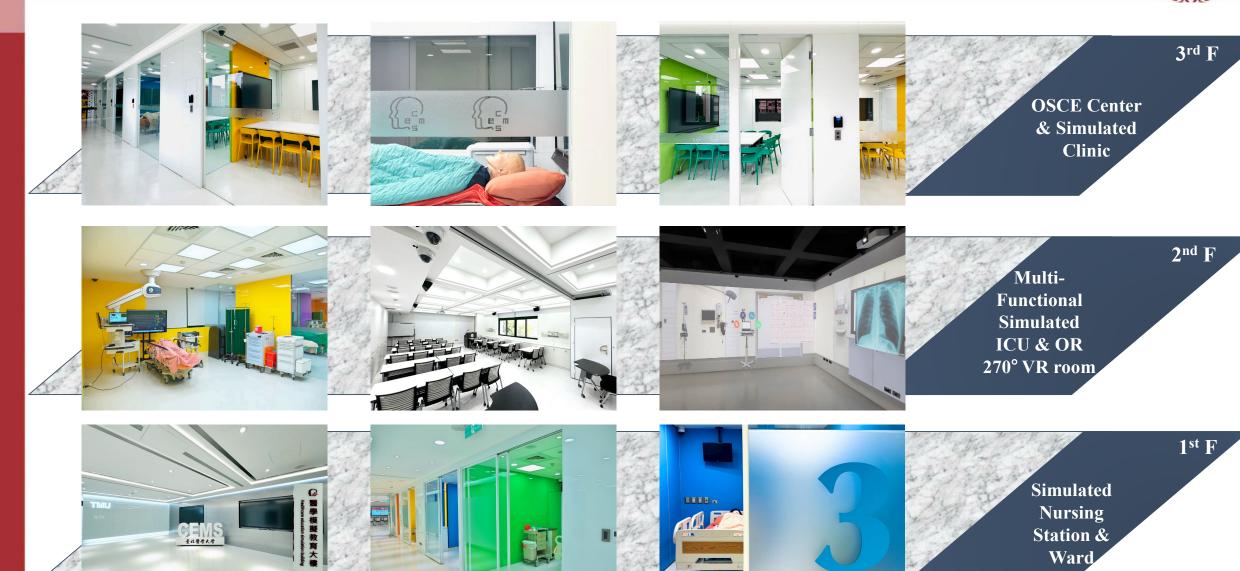


- Digital pathology
- Precision medicine platforms
- AI-powered diagnostic tools
 - AKI-AKD Care System
 - Ted ICU 2.0
 - Deep Lung-CAC



Medical Simulation Center...

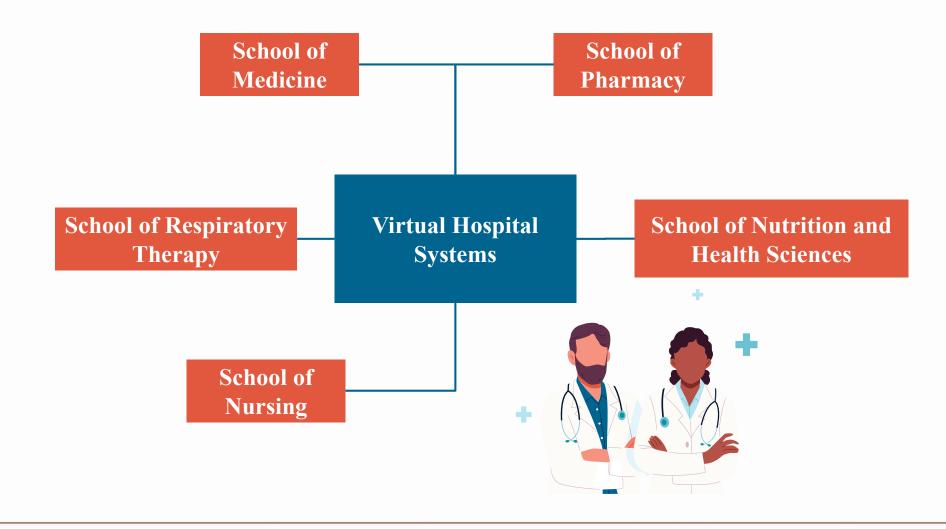




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Virtual Hospital Systems...





Virtual Hospital Systems in Medical Education (



Early Exposure

Communication Problem-Solving

Differential Diagnosis

Clinical-Reasoning Decision-Making

- The path to medical mastery
- Introduction to basic medical science
- Early clinical exposure
- General psychology
- Medical service learning

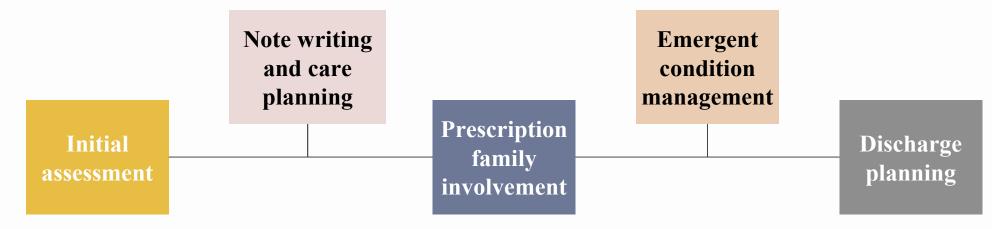
- The disease model
- From patient behavior to the Medical-patient relationship
- Concepts in emergency medicine
- Problem-based learning

- Introduction to general medicine
- Problem-based learning
- Medical-patient relationship & patient behavior
- Interaction between patients, physicians, & body & mind
- Community and environmental health
- Basic clinical skills

- Case discussions in medical ethics & law
- Interdisciplinary holistic care
- Active self-learning
- OSCE

Early Clinical Exposure...



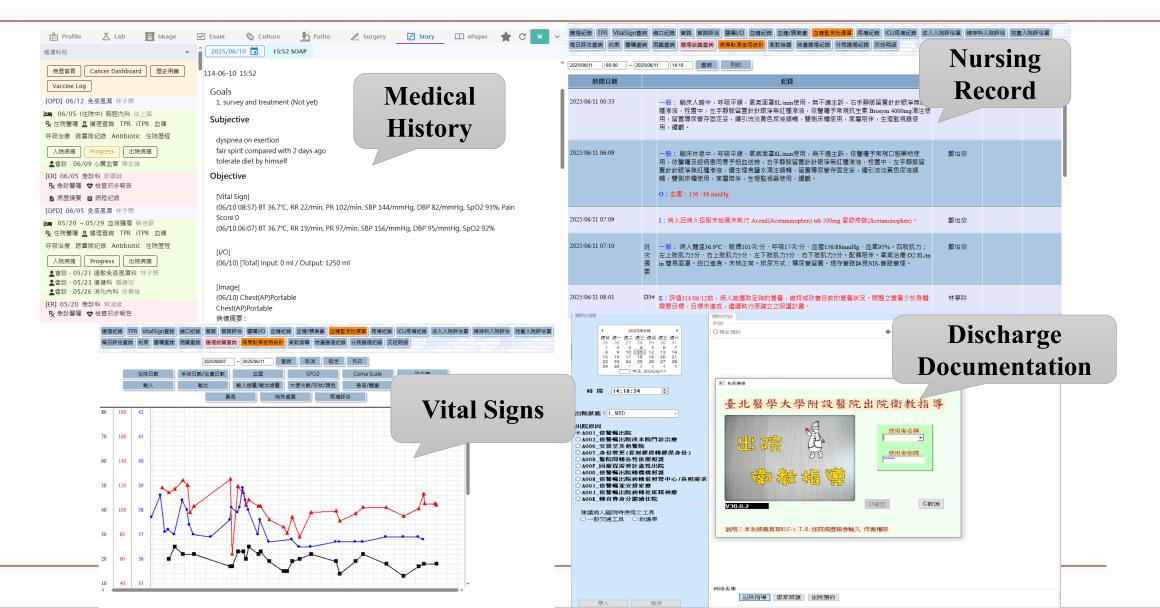


Allow students early exposure to patient's hospital journey, helping them understand the content and experiences of their future careers



Immersive and Realistic...





Differential Diagnosis...



Mission of 1st week		Mission of 2 nd week
01 ——	02	03
Interact with standardized patients (Based on Virtual Hospital Systems cases)	Using Virtual Hospital Systems	Complete reports/reflect
Differential diagnosisRequest lab test and imaging	Diagnosis confirmationTreatment strategy	Discharge proceduresPatient and family education

Clinical Reasoning...



Preview patient history online

History taking with virtual patient

Write patient notes

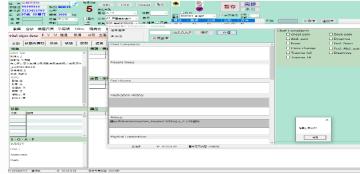
Apply critical thinking

Team-based diagnostic reasoning





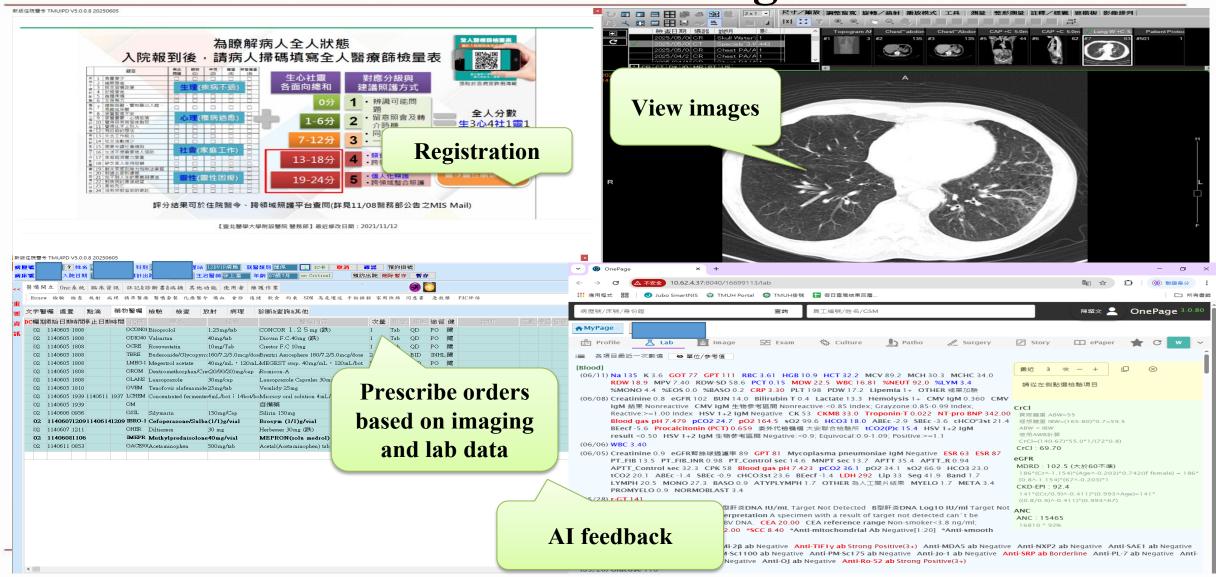




To train communication, empathy, teamwork, and critical thinking

Personalized Learning with AI Feedback & Decision Making





Changing Landscape...



- Early Clinical Exposure...
- Immersive and Realistic...
- Differential Diagnosis...
- Clinical Reasoning...
- Decision Making...



Thank you