

# IHLearn-CT: Interactive Hybrid Learning in Clinical Teaching

Zainab Mat Yudin  
School of Dental Sciences

## ABSTRACT

Interactive Hybrid Learning in Clinical Teaching (IHLearn-CT) is a blended learning involving face-to-face and non-face-to-face teaching for Medical Posting (GNT 302) course during third-year undergraduate dental students in the School of Dental Sciences, USM. The objectives are to ensure the students can learn about various medical, surgical, and emergency diseases; enhance their understanding of the clinical presentation of diseases, investigation, and treatment; and expose them to various practical skills. The activities include online lectures, seminars, case presentations, clinical teaching, and procedures observation.

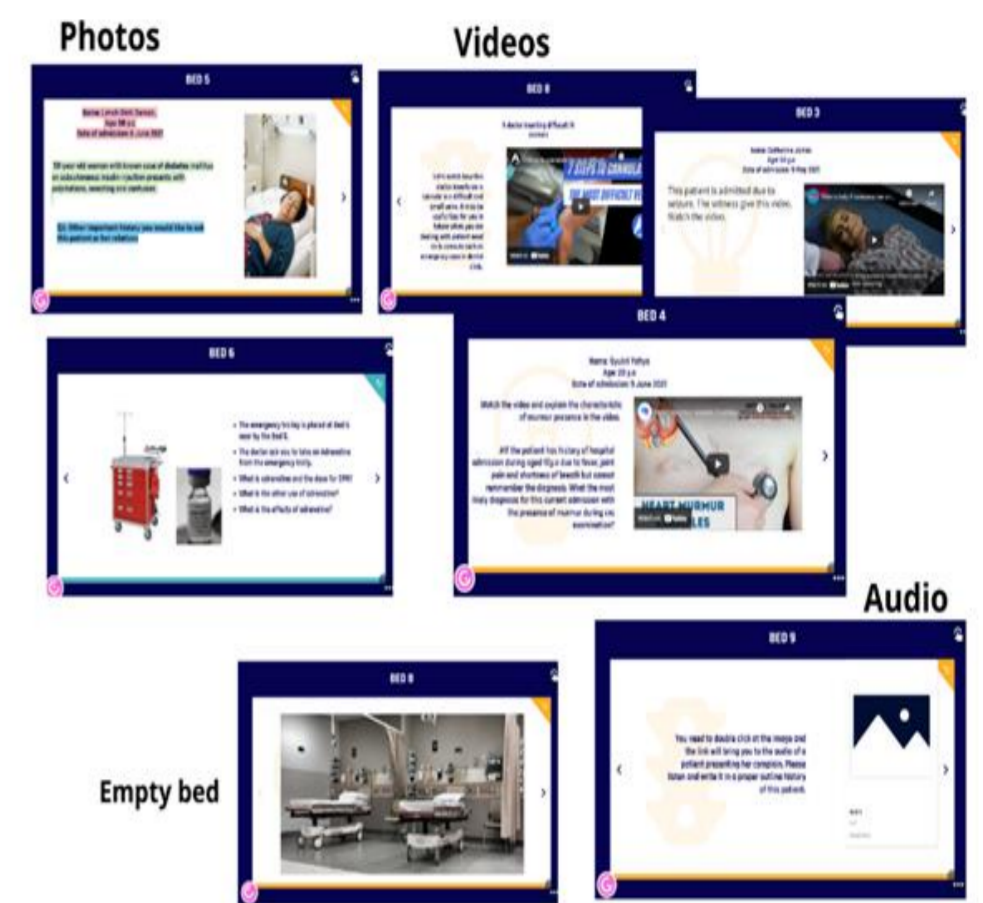
IHLearn-CT transforming some parts of the teaching round, clinical teaching, and ward activities into online learning. The bedside clinical teaching, case presentation, and ward rounds were conducted as a hybrid, either online or face-to-face. The contents are created in the Genially, a tool for teaching and learning through interactive learning materials. The interactive elements were then embedded in the Moodle eLearn@USM platform. Their knowledge and skill are assessed through continuous assessment (case report, case presentation, and test) and final exam posting. IHLearn-CT had a good impact in improving knowledge (CLO1) compared to skill (CLO2). Feedback from students is also favourable. Medical and dentistry teaching requires exposure and experience in seeing various diseases to gain knowledge; however, some diseases are not encountered during the students' attachment period. Having IHLearn-CT can supplement the discussion of unencountered diseases during the attachment by designing specific virtual learning.

## OBJECTIVE

To ensure the students can learn about various medical, surgical, and emergency diseases; enhance their understanding of the clinical presentation of diseases, investigation, and treatment; and expose them to various practical skills. It is also to sustain learning activities in facing pandemic situations that lead to holding face-to-face activities.



Teaching method, CLO, and assessment in Medical Posting at dentistry school USM.



Variation of contents delivery in the virtual ward



Example one of the ward activities, and the student needs to click into a specific interactive element to learn further about it.



## ADDED VALUES

IHLearn-CT is a blended learning that integrates conventional bedside clinical teaching and ward procedures observation with simulated online scenarios or procedures.



## USEFULNESS

It is helpful for students to enhance their understanding of different disease types concerning clinical presentations, investigations, and management. By having simulated case scenarios, students can discuss in a group and encourage teamwork. Additionally, it is useful for delivering online teaching materials.



## COMMERCIALIZATION POTENTIAL

The purpose of this teaching and learning experience is not for commercial gain. It is a sharing experience for educators to utilise blended learning in clinical teaching.



## RECOGNITION

Silver medal in International University Carnival on E-Learning (IUCEL) 2022 for the virtual ward round.

## FEEDBACK FROM STUDENTS



Dr. Zainab Mat Yudin  
School of Dental Sciences

"It's interesting because there's more exposure to different cases compared to real ward round that lacks guidance." Student A

"Keep it as it was because it is super effective: More related pictures and videos will be appreciated." Student M

## Scan QR code for

Students' feedback on IHLearnCT



Video on IHLearnCT

