

## Background

Starting from the Medical Year 4 in the Medical curriculum of Bachelor of Medicine and Bachelor of Surgery program, students are regarded as the junior clerkships who participate in the first year of the clinical practice should receive the clinical training in Surgery and Internal Medicine. The transition between preclinical and clinical training can be challenging and stressful for students as they need to apply learned knowledge and find solutions to clinical problems during the bedside trainings. While there is a restricted resource in face-to-face teaching students the proper way to take a patient's history, carry out physician examination, and counselling skills, students may not be confidently prepared for the clinical examination.

## Objectives

Our team has built up web-based platform in micro-module flipped classroom for training clinical skill especially for the Objective Structural Clinical Examination (OSCE), which can be applied for interactive learning during medical teaching in the Faculty of Medicine. It also aims to equip students with the accurate pre-clinical knowledge and essential clinical skills for clinical examination and consultation.

## Methods

The modern pedagogical methods – flipped classroom and micro-modules – are a combination of learning processes of e-learning activities with face-to-face periods in the classroom. It can be applied to strike a balance between the clinical skills training and clinical examination (CEXam) assessment, which can facilitate medical students to improve on their clinical competencies. The new innovative micro-modules platform, called flipped classroom micro-module CEXam (*Flipped CEXam*) platform has been created as shown in the video ([https://gocuhk-my.sharepoint.com/:v:/g/personal/rayl\\_cuhk\\_edu\\_hk/EeWj\\_hf6lGRPu6DVA70KvBABxR2h3QXSAP0feQx1oJN6\\_A?e=b5H9b3](https://gocuhk-my.sharepoint.com/:v:/g/personal/rayl_cuhk_edu_hk/EeWj_hf6lGRPu6DVA70KvBABxR2h3QXSAP0feQx1oJN6_A?e=b5H9b3)).

## Results and Conclusions

The trial run of Level 3 - Clinical Examination Guide of the 'Abdomen Examination' in the *Flipped CEXam* was made available to students starting from July 1, 2017; the high and sporadic accession rates were observed during the clerkship training. At present, all topics of the *Flipped CEXam* have been constructed the users' review in the early Aug 2018. The electronic questionnaires were conducted to explore students' and teachers' opinions towards the effectiveness of the *Flipped CEXam*. The feedback from student users and the teachers were positive as they can have a better understanding of OSCE. Some of the comment were collected and showed in the video ([https://gocuhk-my.sharepoint.com/:v:/g/personal/rayl\\_cuhk\\_edu\\_hk/EeWj\\_hf6lGRPu6DVA70KvBABxR2h3QXSA P0feQx1oJN6\\_A?e=b5H9b3](https://gocuhk-my.sharepoint.com/:v:/g/personal/rayl_cuhk_edu_hk/EeWj_hf6lGRPu6DVA70KvBABxR2h3QXSA P0feQx1oJN6_A?e=b5H9b3)).

## Take Home Message

Overall, the *Flipped CEXam* can facilitate students to understand how the clinical examination to be run.