

THE CHINESE UNIVERSITY OF HONG KONG

Micro-Module Courseware Development Grant

Scheme 1: Basic Scheme

Interim Report (2017-18)

Report due 31 May 2018.

Please return by email to mmcd@cuhk.edu.hk

PART I

Project title: Micro-modules for interactive learning and flipped classroom learning of physiology

Principal supervisor: Dr. Philip MW Hung

Department / Unit: The Nethersole School of Nursing

Project duration: From December 2017 to October 2018

Date report submitted: 30 May 2018

1. Project objectives

Based on our proposal, the project objectives are focused on the second year of nursing curriculum students for understanding the physiological mechanisms of normal body function and the human response and adaptation to either internal and external changes. This will help our students to study pathology, nursing care, health care and layout the care planning based on the physiological changes of patients. Overall, the project is on track to meet its objectives and there is no change of the objectives.

2. Progress on process, outcomes or deliverables

At present, our team is working on the design of the four micro-modules as follows:

1. Properties of voltage gated sodium channels;
2. Sensory perception;
3. Physiology of impaired heart function with ion imbalances;
4. Role of helper T cell in innate and adaptive immunity.

At this stage, we are in the progress of making the first micromodule - Properties of voltage gated sodium channels while other three micro-modules. The work can be found via the link (<https://panopto.cuhk.edu.hk/Panopto/Pages/Viewer.aspx?id=e8d8e58f-381b-47e4-88b1-0e41da35b5b0>). We expect to complete all four micro-modules by the end of August and launch them on CUHK blackboard in September for students to understand the concepts and grasp the knowledge on physiology.

3. Evaluation Plan

The evaluation will focus on assessing the effectiveness and acceptability of the micro-modules. For the effectiveness, the impact of the micro-modules will be evaluated by

the interactive exercises in each micro-module. At this moment, there is no alternation of the evaluation plans.

4. Dissemination Activities (reports, websites, video links, products, *etc.*)

The micro-modules will be disseminated via CUHK blackboard in September 2018 and the final report of this project will be submitted by the end of October 2018.