THE CHINESE UNIVERSITY OF HONG KONG

Micro-Module Courseware Development Grant

Scheme 1: Basic Scheme

<u>Interim Report (2016-17)</u>

Report due 31 October 2017.
Please return by email to mmcd@cuhk.edu.hk

<u>PART I</u>

Project title: Micro-modules for Pharmaceutical Dispensing: A Bi-lingual Micro-Dose Delivery of Concepts involved in Dispensing Medications

Principal supervisor: Dr. Celeste LY Ewig

Department / Unit: School of Pharmacy, Faculty of Medicine

Project duration: From May 2017 to April 2018

Date report submitted: Oct. 30, 2017

1. Project objectives

- The project's objectives are to increase tutorial sessions and providing a flip classroom approach through the use of integrated eLearning materials such as micro-modules. Currently, the project is on track to meet the objectives stated.

2. Progress on process, outcomes or deliverables

- After the start of the project, we rearranged some of the topics within each of the micro-modules for better organization. The project is still on track to meet the completion date.

- Number of Videos taken: __20__; Number of Photos taken: __35__; Number of Illustrations: __15__

- The table below shows the progress of the project so far:

	Title	Videos Taken	Photos Taken	Tasks Remaining
1	Introduction to Pharmaceutical Dispensing	✓ PWH Pharmacy Area ✓ Dispensing Process & IPMOE ✓ Use of Counting Trays ✓ Prescription Labelling	No photos needed	*Incorporate script and subtitles to video *Compile contents to Micro-module
2	Oral Solid and Liquid Dosage Forms	No videos needed	✓ Tablets ✓ Tablet Splitting Process	*Compile contents to Micro-module
3	External Preparations	No videos needed	✓ Cream ✓ Ointment/Gel ✓ Transdermal Patch	*Compile contents to Micro-module
4	Extemporaneous Compounding	✓ Correct Measurement of Weights	No photos needed	*Incorporate script and subtitles to video

				*Compile contents to Micro-module
		✓ Correct Measurement of Volume ✓ Measuring dark liquids (measure by difference) ✓ Geometric Dilution ✓ Trituration ✓ Dissolution ✓ Transferring product to a container		
5	Introduction to Sterile Products	✓ Introduction to the Clean Room (Aseptic Dispensing Unit) ✓ Personnel Protective Equipment ✓ Use of Needles and Syringes + Withdrawing Contents from an ampoule ✓ Withdrawing Contents from a glass vial ✓ Reconstitution of sterile products	✓ Needles and Syringes ✓ Parenteral Dosage Forms	*Finalize video editing *Prepare script and subtitles *Compile contents to Micro-module
6	Basics of Dispensing Cytotoxic Preparations	✓ Cytotoxic Preparation Area ✓ Cytotoxic Prescription Dispensing Process and Final Product ✓ Proper Disposal of Cytotoxics	No photos needed	*Finalize video editing *Prepare script and subtitles *Compile contents to Micro-module
7	Total Parenteral Nutrition (TPN)	✓ TPN Preparation Area ✓ TPN Prescription Dispensing Process and Final Product	No photos needed	*Finalize video editing *Prepare script and subtitles *Compile contents to Micro-module
8	Pharmaceutical Calculations	No videos needed	No photos needed	*On-line quiz ready *Compile contents to Micro-module
Other Items in the project				
Website		Illustrations for the following have been created: ✓ Patient (elderly) ✓ Patient (child) ✓ Physician		*Compile contents to Micro-module *Create website

| | ✓ Pharmacist

✓ Dosage Forms (Tablets, Transdermal Products, Sterile

Products, needles and syringes, etc) | |

3. Evaluation Plan

➢ We have implemented 3 tutorials in a flipped classroom format. Students appear to be engaged in the in-class activity and refer to the online reading materials and lecture notes during the tutorial. The remaining evaluation plan is scheduled for after the completion of the full project.

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

➢ The website to contain the micromodules within the course is in progress.