

# THE CHINESE UNIVERSITY OF HONG KONG

## Micro-Module Courseware Development Grant

### Scheme 1: Basic Scheme

#### Final Report (2017-18)

Report due 31 October 2018

Please return by email to The Ad hoc Committee on Planning of eLearning Infrastructure  
[mmcd@cuhk.edu.hk](mailto:mmcd@cuhk.edu.hk)

#### PART I

Project title:

Principal supervisor: **Professor Albert LI**

Co-supervisor(s): **Dr Isabel HWANG**

Department / Unit: Department of Paediatrics, Prince of Wales Hospital, Faculty of Medicine

Project duration: From December 2017 to October 2018

Date report submitted: 10 Nov 2018

#### **1. Project objectives**

This project is on track to meet its objectives. The key objectives indicated in the application proposal have not been changed as a result of the experience of working on the MMCDG project. However, we merged two micro-module materials as one as it facilitates usage by the student users.

#### **2. Process, outcomes or deliverables**

A total of three micro-modules have been produced and they will be used in a medical year 5 clinical attachments in pediatrics.

<b>Micro-module case</b>	<b>Title</b>	<b>Download link</b>	<b>Student online contact time</b>
1	Spirometry to assess lung function	<a href="https://www.cuhk.edu.hk/culive/mm/m1/story_html5.html">https://www.cuhk.edu.hk/culive/mm/m1/story_html5.html</a>	~ 13-15 minutes
2	Stridor and its causes	<a href="https://www.cuhk.edu.hk/culive/mm/m2/story_html5.html">https://www.cuhk.edu.hk/culive/mm/m2/story_html5.html</a>	~ 10-12 minutes
3	Case studies	<a href="https://www.cuhk.edu.hk/culive/mm/m3/story_html5.html">https://www.cuhk.edu.hk/culive/mm/m3/story_html5.html</a>	~5 minutes

			Total duration: ~30-32 minutes
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*Overall, the project was completed on time and satisfactorily.*

**3. Evaluation Plan**

*We were not able to conduct a pilot test to the micro-modules as they have just been completed in end of October.*

**4. Dissemination, diffusion and impact**

*Please provide examples of dissemination: website, presentations in workshops or conferences, or publications.*

*Please provide examples of diffusion: how the project results/process/outcomes/deliverables have been used in your unit and other parts of CUHK or other institutions?*

*Please provide examples of impact: how the project results (micro modules) can be adapted to other disciplines.*

***The micro-modules have just been completed and they will be launched shortly to medical year 5 students.***

PART II

Financial data

Funds available:

Funds awarded from MMCDG	\$ 69,635
Funds secured from other sources (please specify _____)	\$ _____

Total: \$ 69,635

Expenditure: HK\$68,902.31 (please refer to the summary sheet generated by the Finance office)

Item	Budget as per application	Expenditure	Balance

Total:			
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### PART III

#### Lessons learnt from the project

*Please describe your way forward.*

- *We aim to improve and existing project when we are able to collect more audio source files from pediatric patients who suffer from various respiratory diseases. The current project contains score indicators showing severity of stridors. However, we do not have enough pediatric patient audio showing such severity for students' identification.*

*Please describe any of the following item(s) accordingly:*

#### Key success factors

- *We salute the technical team led by Mr Ray Lee for helping us to complete this project. They have offered many important inputs about how to deliver the lung assessment video in the most appropriate way.*
- *We are also lucky to have invited an experienced technician who worked for Prof Albert Li and helped us demonstrated the crucial steps for obtaining accurate lung assessment in pediatric patient.*
- *We are also lucky to form a collaboration between clinical (Prof Albert LI) and preclinical departments (Isabel HWANG) to enhance e-learning in medical teaching. This helps to strengthen vertical integration of e-learning in the medical curriculum.*

#### Difficulties encountered and remedial actions taken

- *ITSC has taken up many MMCDG projects and Mr Ray Lee is one of the principal contact person who accepted all the jobs. However, during the project development, it was realized that his unit has become the bottleneck as he had to complete various projects at the same timeframe. Although quality of the project has not been compromised, stress levels for all team members were consistently high as we are all competing to complete the project deadline when manpower in ITSC does not seem to keep up with the number of projects they have taken up.*

#### Suggestions to CUHK

- *Please give us more time to complete the project. The project duration from Dec 2017 to Oct 2018 is too tight.*
- *The early reimbursement date before the project completion date is not ideal and it prevents us from using up all the grants to e.g. employ student helpers.*
- *While we continuously praise the elearning committee for providing us such a precious grant opportunity to facilitate our elearning development, teachers from our Faculty cannot translate the time spent on developing micromodules as part of the teaching load (unlike some department in the university). Thus, it is very difficult for us to complete the project within such a short timeframe when our teaching load remains the same.*

## PART IV

### Information for public access

*Summary information and brief write-ups of individual projects will be uploaded to a publicly accessible CUHK MMCDG website. Please extract from Part I the relevant information to facilitate the compilation of the publicly accessible website and reports.*

#### **1. Keywords**

*Please provide five keywords (in the order of most relevant to your project to least relevant) to describe your micro-modules/pedagogies adopted.*

- (Most relevant)      Keyword 1: stridor
- Keyword 2: spirometry
- Keyword 3: croup
- Keyword 4: epiglottitis
- (Least relevant)      Keyword 5: foreign body inhalation

#### **2. Summary**

*Please provide information, if any, in the following tables, and provide the details in Part I.*

<b>Table 1: Publicly accessible online resources (if any)</b>
<p><b>(a) Project website:</b></p> <p><i>If a publicly accessible project website has been constructed, please provide the URL.</i></p>
<p><b>(b) Webpage(s):</b></p> <p><i>If information of your project is summarized in a webpage (say a page in the department's or faculty's website), please provide the URL(s) here.</i></p>
<p><b>(c) Tools / Services:</b></p> <p><i>If you have used any tools or services for the project, please provide names of the tools or services in here.</i></p> <p><b><i>Storyline, Photoshop, illustrator, premiere, 3<sup>rd</sup> studio max, audition</i></b></p>
<p><b>(d) Pedagogical Uses:</b></p> <p><i>If any flipped classroom activities have been conducted, please provide information in here. If relevant, please indicate how your project output can be used to support flipped classroom activities.</i></p>
<p><b>(c) Others (please specify):</b></p>

**Table 2: Resources accessible to a target group of students (if any)**

*If resources (e.g. software) have been developed for a target group of students (e.g. in a course, in a department) to gain access through specific platforms (e.g. Blackboard, facebook), please specify.*

<u>Course Code/ Target Students</u>	<u>Term &amp; Year of offering</u>	<u>Approximate No. of students</u>	<u>Platform</u>
<i>Medicine year 5</i>	<i>In clinical teaching, each term runs from July to March each year, the micro-modules could be offered anytime this year</i>	<i>~220</i>	<i>We are still exploring suitable platform to launch the micro-modules as clinical curriculum does not use Blackboard</i>

**Table 3: Presentation (if any)**

<i>Please classify each of the (oral/poster) presentations into one and only one of the following categories</i>	<b>Number</b>
(a) In workshop/retreat within your unit (e.g. department, faculty)	<i>Please insert no</i>
(b) In workshop/retreat organized for CUHK teachers (e.g. CLEAR workshop, workshop organized by other CUHK units)	<i>Please insert no</i>
(c) In CUHK ExPo jointly organized by CLEAR and ITSC	<i>Please insert no</i>
(d) In any other event held in HK (e.g. UGC symposium, talks delivered to units of other institutions)	<i>Please insert no</i>
(e) In international conference	<i>Please insert no</i>
(f) Others (please specify)	<i>Please insert no</i>

**Table 4: Publication (if any)**

<i>Please classify each piece of publication into one and only one of the following categories</i>	<b>Number</b>
(a) Project CD/DVD	<i>Please insert no</i>
(b) Project leaflet	<i>Please insert no</i>
(c) Project booklet	<i>Please insert no</i>
(d) A section/chapter in a booklet/ book distributed to a limited group of audience	<i>Please insert no</i>
(e) Conference proceeding	<i>Please insert no</i>

(f) A chapter in a book accessible internationally	<i>Please insert no</i>
(g) A paper in a referred journal	<i>Please insert no</i>
(h) Others (please specify)	<i>Please insert no</i>

### 3. A one-page brief write up

The use of micro-modules in clinical years is anticipated to demonstrate similar beneficial outcomes to enhance *shifting of knowledge acquisition (in preclinical years) to knowledge application (in clinical years)*. We have selected a special clinical attachment discipline namely pediatric respiratory medicine in the area of lung diseases to develop a total of three micro-modules for year 5 medicine.

Real-person videos was taken to illustrate a number of key components for this clinical discipline:

1. Interpretation of a clinical “spirometer” using a real person as actor.
  - A spirometer is a device that helps to assess lung function and also to diagnose various lung diseases
2. Demonstration of some common lung diseases in Hong Kong using a specific technique called a “strider point” as an identification method
  - “strider point” is some kind of breath sound that can be heard and that may appear different in certain types of lung diseases and thus can be a valuable diagnostic method to differentiate various lung diseases
3. Case-based scenario exercises to test application of knowledge and skills (based on components covered in 1 and 2 above)

Project ID : 3210826  
 Responsible Cost Centre : PAE  
 Responsible Person : LI Man Chim Albert Martin  
 Finance Office Contact Person : Karen/Carmen Lam  
 Start date : 18.12.17 End date : 31.08.18

THE CHINESE UNIVERSITY OF HONG KONG  
 INCOME AND EXPENDITURE STATEMENT  
 FROM 01.07.18 TO 30.11.18

Date 08.11.18 Page 1  
 Time 14:54:48 ZJIE0300 / Q3584S

A Flipped Model to Facilitate Transition from Pre-Clinical to Clinical Study

Balance at b/f	Year-to-date			Total	Accumulated Balance	Overall Budget	Available Budget Balance
	Actual payment	Commitment	Outstanding PR				

SELECTION OPTIONS  
 =====

Project definition :

WBS Element :  
 EQUAL 3210826 INCLUSIVE

Level :  
 BETWEEN 1 AND 99 INCLUSIVE

Incl. Hierarchy : Yes

Current data

Fiscal year 2019

Period 05

Frozen image

Fiscal year

Period

Budget year

Budget version

Summary No

Cost element group ZJIVC2.TDG

Subtotal at level 2

WBS element status selection: Active and blocked

Blocked date :  
 BETWEEN 01.01.1900 AND 31.12.9999 INCLUSIVE

\*\*\* Please note that the 'Suppress' flag must be set to 'X' in all 'INCOME' levels of the cost element group specified.  
 Otherwise, unexpected result will occur.

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A Flipped Model to Facilitate Transition from Pre-Clinical to Clinical Study

	Year-to-date					Accumulated Balance	Overall Budget	Available Budget Balance
	Balance at b/f	Actual payment	Commitment	Outstanding PR	Total			
Expenditure								
Ceremonies & Banquet	85.00	0.00	0.00	0.00	0.00	85.00	0.00	(85.00)
Service Charges	1,415.10	62,955.45	0.00	0.00	62,955.45	64,370.55	66,260.00	1,889.45
Vehicle & Travelling Expenses	0.00	0.00	0.00	0.00	0.00	0.00	1,000.00	1,000.00
Other Expenses	1,732.50	2,714.26	0.00	0.00	2,714.26	4,446.76	2,375.00	(2,071.76)
	3,232.60	65,669.71	0.00	0.00	65,669.71	68,902.31	69,635.00	732.69
Total Expenditure	3,232.60	65,669.71	0.00	0.00	65,669.71	68,902.31	69,635.00	732.69
TOTAL FUND BALANCES	(3,232.60)	(65,669.71)	0.00	0.00	(65,669.71)	(68,902.31)	(69,635.00)	

The commitment includes the staff cost commitment for three years or up to the employment contract end date. The budget holder is responsible to solicit funds from other sources to cover any deficit of the project, taking into account any approved budget to be released to the project in future years.