

Teaching the final-year Nursing students with Case-Based Learning (CBL)

Innovation and Effective Teaching during COVID_19

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Sharing Content

- Introduction of CBL
- CBL in N&HS
- How CBL is conducted?
 - CBL Process
 - Modifications during the pandemic
- Challenges & Students' feedback

Case Based Learning (CBL)

- A form of PBL
- Guided enquiry
- Designed to engage students in discussion of specific scenarios that resemble real clinical cases

PBL vs CBL – an example – POP cast







PBL VS CBL

In PBL

- "Problem" is presented
 - POP cast

Students are allowed to have free flow of ideas & discussion





PBL vs CBL

In CBL

- A "case" is presented
- Discussion is guided, depends on your disciplines of study
 - Medical students
 - Physiotherapy students
 - Nursing students
 - etc

When & Why conducting CBL? School of N&HS

- Two BN final year courses
 - BN (Hon) General Health Care/ BN (Hon) Mental Health Care
- Goals:
 - Integrate theoretical knowledge & skills learnt in the past few years
 - Bridge the gap between knowledge and practice
 - Strengthen students' problem solving, clinical reasoning and decision making abilities
 - Prepare the students to become a registered nurse

Who conduct CBL?

- Students

- Leading roles

- Teachers
 - Become facilitators



How to conduct CBL?

- Form small group with
 ~10 students/ group
- CBL process







- Case is presented

- In a form of scenario
- Resemble a real clinical case as much as possible
 - Patient's chart



Authentic Case presented to students – in a form of patient's chart





Guiding questions



Related to physical, psychological & social themes

QUESTIONS?

OUESTIONS?

Provide guidance/ stimulations

- Allow the students to lead the discussions
- Drawing of mind maps are encouraged

Student Discussion

Students' sketch of the mind map



Challenges come..... during class suspension days

- Difficulties
 - How to engage students?
 - How to be interactive?
- Alternatives:
 - ZOOM
 - Student Response System (SRS)
 - Google Excel Spreadsheet

Use of Excel Spreadsheet in Google

Case 2_T04_1904 ☆ ⊡ ⊘

檔案 編輯 查看 插入 格式 資料 工具 外掛程式 說明 上次編輯是在數秒前

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	A	В	С	D	E
1		Clarification of terms/ Known	Not Known/ Not Clear	Categorization of Terms (Physical/ Psyc	ho/ Inter-relationship
9	(A) TNG	Glyceryl Trinitrate (vasodilator) treat angina pectoris and chronic heart failure sublingual 5mins for 1dose	alternatives? unknown interrelationship wif smoke/ alcohol	physical	
10	(B) JVP	Jugular venous pressure, reflect the pressure in right atrium		Physical	
11	(B) CP0	Chest pain no			
12	(B) dyspnea				
13	(B) hypokinesia	type of movement disorder, too little movement	intervention? is it reversible		
14					
15	(B) Trop I	Troponin I is a type of proteins that will be found increasing if cardiac muscles break down; normal range: < 0.12 ug/mL; 2-3 tests are needed to r/o MI; Q6-8H	why trop is better than the other cardiac markers? different between Trop I & trop T?		
16	(B) Echo	echocardiogram (echo) is a graphic outline of the heart's movement.	how to interpret?other type of echo? pros and cons?	phy	
17	(B) T&S	Type and screen			
18	(A) LV function, LVEF	Left ventricular ejection fraction			
19	(A) Hytrin	BPH, hypertension	why nocte		
20	(C) ZOCOR		why Nocte	physcial	
21	(B) hilar mass	The hilum of the lung is the wedge-shaped area on the central portion of each lung, located on the medial (middle) aspect of each lung.	indication of CXR, interpretation of CXR		
22					
23	(A) social drinker <-> taxi driver, BPH, high cholesterol	social driver	def. of social drinker? how drinking is related to taxi driver?	social, physical	



Learning Issues

- E physical 1. Describe the potential problem for taxi driver.
- 2. Describe the measures for Mr. Chan to prevent recourrence of coronary wessel blockage.
- 3. Describe the types of bed rest
- 4. Describe the criteria for choosing trootment of ACS.

DPost PTCA care and its rehabilitation education for Mr. Chan.

2 Describe types of PCI and its related care

(3) Investigate ECG Types and decide the Most Suitable are for Mr. Chan

D' Describe the types of Contrast, its mechanism in Mr. Chan's body and related nursing care 2 Describe the criteria of theory of CABG and PTCA , and their related nursing care 3 Compare the norsing care Letween CABG and PTCA

During class suspension days Learning Issues

	J	К	
Learning Issues			
Α	В	С	
 The relationship between smoking, alcohol consumption, fast food and Peptic Ulcer 	Fast food eating and alcohol drinking are the main reasons for Mr. Chan combined hyperlipidemia	(C1) Aspirin is contradicted with Mr. Chan's condition of peptic ucler	
2. The suitable intervention for Mr. Chan, PTCA/PTCS	Conservative treatment is suitable choice for Mr Chan to treat BPH	(C2) Transthoracic echocardiogram is suitable for Mr. Chan's case	
3. TNG is more suitable than Imdur for relieving Mr. Chan's chest discomfort	PT, INR, APTT are not enough for assessing Mr. Chan clotting profile.	(C3) PTCA is suitable for Mr. Chan's situation	

Information search

Search during/ after class

- Via means of :

- Library search/Internet search/Text
 books/Notes
- Immediate sharing is encouraged
- Allow challenging questions
 - Critical thinking



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Information Dissemination (Sharing)

- F2F: In tutorial rooms
- Online mode: Via ZOOM

 Immediate Qs are encouraged from students



Immediate feedback from facilitators



The advantages of using CBL

- Help learners to *focus on key points*
- Improves *skills*, such as
 - Communication & collaborations skills
 - Information searching skill
 - Critical thinking
 - Presentation skills...etc
- Better retain and consolidate knowledge learnt
- Allow individualized learning, thus promote motivation

Challenges of CBL

- Change of roles
 - Teachers

 facilitators
 - Students → from passive to active
- Preparation work
 - For teachers: before tutorial
- During F2F/class suspension
 - Interactive
 - Student engagement

Students' Feedback on CBL

- Enjoyed the discussion and sharing
- A good consolidation of the past knowledge
- Can train up communication skills and information searching skills
- Can learn more things that are beyond textbook
- Stimulate critical thinking
- It should be conducted in junior years

