# How to improve medical e-Education

#### **Yanping Liang**

First Year Master of International Research Center for Medical Education, Graduate School of Medicine, The University of Tokyo





## Contents.

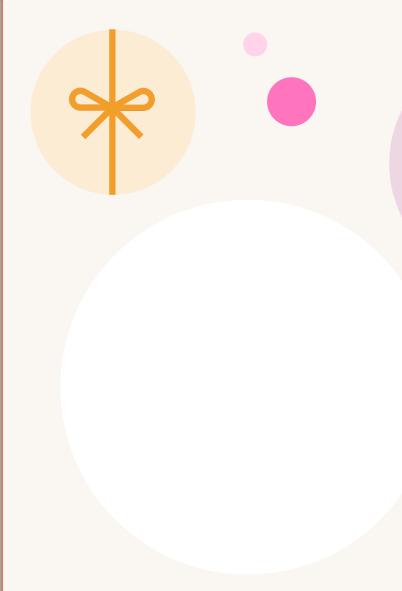
1, e-Education VS Traditional education

2, Know more about e-Education

3,Improve the attraction of medical e-Education

4, Create more contact chances between students and professors

5,Get feedback and check from student promptly and effectively





6,Cite

#### e-Education



•This form of education is a successor of distance learning making use of traditional postal services and broadcasting media (radio and television). Online classroom is an effective extension and supplement of classroom. It has the advantages of rich teaching resources and unlimited time and space.

#### **Some Limits:**

- 1,Disraction of digital game and other website.
- 2, Without daily contacts and lack understand about each other.
- 3, Have difficulties to ask question one-on-one.
- 4, Can cheat during online test.
- 5, Will be easier depressed while long time at home...

# S

#### Traditional education

Teachers play a leading role in teaching knowledge in traditional classroom teaching and network teaching, and guide students to learn through a variety of teaching methods (including cramming, heuristic, guiding and so on). (face-to-face (F2F) lectures)

Traditional classes have their time and venue determined. To participate, one must be present at the indicated location at a defined time.

#### Know more about e-Education

Distance learning is over 200 years old (shorthand courses via correspondence announced in —The Boston Gazette|| in 1728 can be recognized as the beginning)

The First International Conference on e-Learning, e-Education and Online Training, or **eLEOT 2014**, was held during August 18–20, 2014 at the Bethesda Marriott Hotel in Bethesda, Maryland, USA. This conference has been in the works for many years, with its original date set for 2010. The program was composed of 26 technical papers, which were presented in six sessions over the span of 2 days. Overall, eLEOT 2014 included collaborators and participants from Europe, North America, Asia, Africa, and Australia/Oceania. 1) The theme of **eLEOT 2021** was "The **Educational Revolution: Opportunities and** Challenges brought by COVID-19" . 2)

### Distance learning history

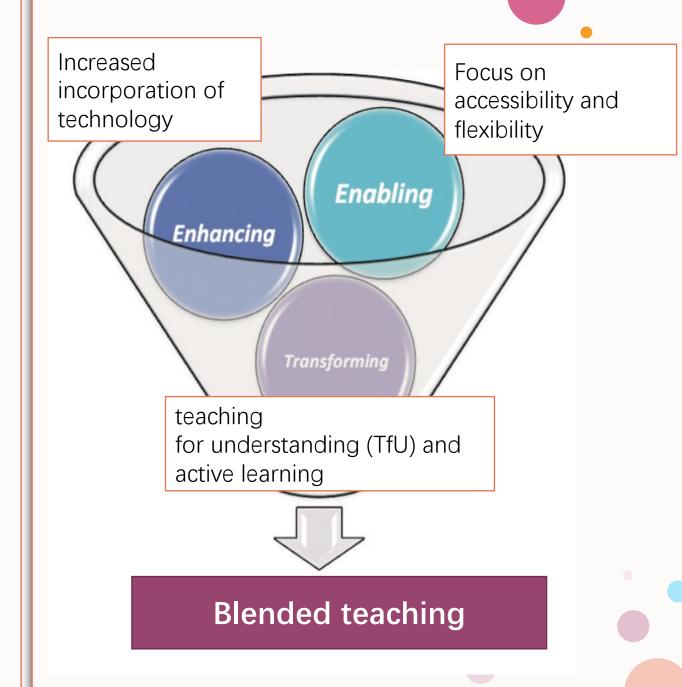


## Improve the attraction of medical e-Education

### Blended teaching model:

In 2002, the president of Pennsylvania State University declared that the convergence of online, computer-mediated (CM), instruction with traditional, classroom based, F2F learning is "the single- greatest unrecognized trend in higher education today". The following year, the American Society for Training and Development identified this new approach of blended teaching as one of the top ten trends to emerge in the knowledge delivery industry.

- (i) Combining instructional modalities (or delivery media)
- (ii) Combining instructional methods
- (iii) Combining online and F2F instruction 3)



#### Improve the attraction of medical e-Education

### Blended teaching model:

- 1, Use pictures and tabulations instead of a lot of words to explain.
- 2, Do some interesting games online to attract students to take part in class.
- 3, Use normal words to explain some difficult and professional words.
- 4, Use daily examples to explain complicated concepts.

Make it fun, make it colorful and make it easy~

# Improve the attraction of medical e-Education

We can make full use of the follow technology

(1) Animation



- (2) Dynamic Texts
- (3) Digital Images and Pictures
- (4) Moving Pictures and Video
- (5) Digital Audio Files
- (6) Utility Files and Software
- (7) Templates
- (8) Opening Source Files

## Let's make medical e-Education more attractive and easier



#### **Chambers of the Heart**

The heart is a muscular organ about the size of a fist, located just behind and slightly left of the breastbone. The heart pumps blood through the network of arteries and veins called the cardiovascular system.

The heart has four chambers:



right atrium receives blood from the veins and pumps it to the right ventricle.

- The right ventricle receives blood from the right atrium and pumps it to the lungs, where it is loaded with oxygen.
- The left atrium receives oxygenated blood from the lungs and pumps it to the left ventricle.
- The left ventricle (the strongest chamber) pumps oxygen-rich blood to the rest of the body. The left ventricle's vigorous contractions create our blood pressure.

The coronary arteries run along the surface of the heart and provide oxygen-rich blood to the heart muscle. A web of nerve tissue also runs through the heart, conducting the complex signals that govern contraction and relaxation. Surrounding the heart is a sac called the pericardium.

https://www.youtube.com/watch?v=YjHt2rdni7s

# Create more contact chances between students and professors

We can make full use of the follow activities:

- 1, Create an online problem-solve group, as Line group / WeChat group and so on, so them can ask question and solve problem from each other.
- 2, Make some online parties which they can talk in freedom and know more about their daily life and personality.
- 3, Let students know about professor's schedule, so that them can know which timing they can contact their professor when they need help.
- 4, If it is possible, find chance to go out to meet each other and enjoy vocation time with each other.

### Get feedback and check from

### student promptly and effectively

- 1, During the e-course, require students keep their video on. Through their face and emotion, can find out if they focus on class or not.
- 2, During the e-course, ask students some easy questions or give them some games so that they can join in.
- 3, Before ending the course, send students a few questions which they need to answer how much they learn from the class and in setting time.
- 4, After e-course, send students questionnaire about their feeling and about the course to get feedback from them.
- 5, One-on-one conference can be hold once per month.

And so on.....

# 20 WAYS

# TO PROVIDE EFFECTIVE FEEDBACK FOR LEARNING



#### FEEDBACK SHOULD BE EDUCATIVE IN NATURE.

FEEDBACK SHOULD
BE GIVEN IN A TIMELY
MANNER



BE SENSITIVE TO THE INDIVIDUAL NEEDS O

FEEDBACK SHOULD REFERENCE A SKILL OR SPECIFIC KNOWLEDGE.

GIVE FEEDBACK TO KEEP STUDENTS "ON TARGET" FOR ACHIEVEMENT.

FEEDBACK CAN BE GIVEN VERBALLY, NON-VERBALLY OR IN WRITTEN FORM.



EDUCATE STUDENTS ON HOW TO GIVE FEEDBACK TO FACH OTHER.

ALTERNATE DUE DATES FOR YOUR STUDENTS/CLASSES.

USE A NOTEBOOK TO KEEP TRACK OF STUDENT PROGRESS.



RETURN TESTS, PAPERS OR COMMENT CARDS AT THE BEGINNING OF CLASS ASK THE 4 QUESTIONS.

HOST A ONE-ON-ONE CONFERENCE.

CONCENTRATE ON ONE ABILITY.

ASK ANOTHER ADULT TO GIVE FEEDBACK.

HAVE THE STUDENT TAKE NOTES.

USE POST-IT NOTES.

GIVE GENUINE PRAISE.

"I NOTICED...."

PROVIDE A MODEL OR EXAMPLE.

INVITE STUDENTS TO GIVE YOU FEEDBACK.

# Cite

- 1) First International Conference, eLEOT 2014 Bethesda, MD, USA, September 18–20, 2014 Revised Selected Papers
- 2) 7th EAI International Conference, eLEOT 2021 Xinxiang, China, June 20–21, 2021 Proceedings Part I
- 3)Science Progress (2010), 93(3), 319–334 DOI: 10.3184/003685010X12710124862922 The evolution of eLearning Background, blends and blackboard...ROY D. SLEATOR