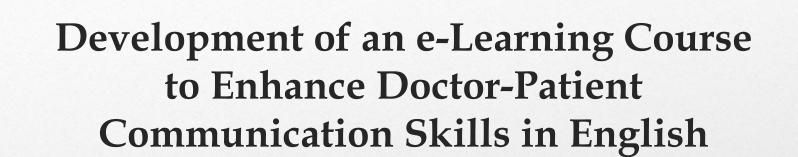
March 1-2, 2024



Jun Iwata, Shudong Wang, John Telloyan, Lynne Murphy, Rie Sato Shimane University, Japan









# Outline

## 1. Introduction

Background, Research questions



#### 2. Method

Course development, course outlines



#### 3. Results

Course evaluation and results



## 4. Discussion

Conclusions and future work









#### 1.Background

#### 1.1 Challenges Japanese medical students are facing

- (1) Growing need for medical students to use English for their career in
  - Gaining up-to-date information about medicine
  - Sharing information with other healthcare professionals
  - Communicating with colleagues and patients
- (2) Limited exposure to English in the EFL environment



#### 1.2. Teachers in teaching English for Medicine (EMP) need to:

- (1) develop effective ESP(EMP) courses and pedagogical approaches to improve
  - · vocabulary, reading, listening, writing, speaking and presentation skills
  - doctor-patient communication skills
- (2) enhance learner autonomy/motivation









English Education Enhancement program of school of Medicine, Shimane University



enhancing English curriculum design



Growing medical professionals who act locally and globally

English Education Enhancement program (3e)

enhancing international exchange programs



enhancing learner autonomy

- self-study e-learning courses
- use of digital badges









#### 1.3. Courses developed on moodle (https://imee.med.shimane-u.ac.jp/)



```
コース
                                                            すべてを折りたたむ
▼ 英語授業コース (Moodle Courses for English Language Classes)
 🚏 2022後期_アカデミックイングリッシュB(Academic English B)(Murphy) i
 ☼ 2022後期_海外留学セミナー (Overseas Seminar) (Telloyan) i

❖ 2023_海外研修A (Overseas Study A)

 💲 2023後期_アカデミックイングリッシュB(Academic English B)(Murphy) i
 ☼ 2023後期 医学科1年英語IB(A&B)(玉木)
 ☼ 2023後期 医学科1年英語IB (玉木) i
 ☼ 2023後期 医学科1年英語IIB (1 med Fall) (Tellovan) i

② 2023後期 医学科1年英語IIB (A1&B1) (Sieveking) i

 ♡ 2023後期_医学科1年基礎医学英語2(岩田)
 ♡ 2023後期_医学科2年医学英語1(岩田)
 ☼ 2023後期_医学科2年実用英語演習II (2 Med Fall) (Telloyan) i
 ☼ 2023後期_海外留学セミナー (Overseas Seminar) (Telloyan) i
 ♡ 2023後期 看護学科1年英語IB (小豆澤) i
 ☼ 2023後期 看護学科1年英語IIB (A1&B1) (Murphy) i
 ☼ 2023後期 看護学科1年英語IIB (N Fall '22) (Tellovan) i
 ☼ 2023通年_臨床英語(English for Clinical Purposes) (岩下・牧石)
▼ 専門医学英語教育コース(Moodle Courses for Medical English Study)
 💲 医学科4年 英語医療面接演習 Doctor-patient Communication Skills in English \rm 🕻
 👺 医学科5-6年 英語症例報告演習 Case Presentation in English 🔦
 💝 医学科5年 総合診療学講座 History Taking and Clinical Reasoning in English with Prof. Margareta
 禁 医師国家試験:英語問題(過去問)学習コース i □
 💝 医学英語1000 学習コース
 OET Medicine Study Course i
 What Matters Most? Selected Essays by Dr. Douglas Paauw i
```



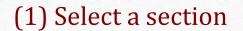






#### 1.3. Courses developed on moodle

- 1.3.1 1000 basic medical terms course (Iwata et.al. 2019)
  - To help students acquire 1000 basic medical terms



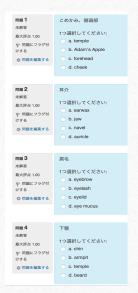


(2) Work on quiz



(3) Receive feedback











Iwata, J., Wang, S., & Clayton, J. (2019). Students' perceptions about the use of digital badges in an online English terminology course: a three-year study. In F. Meunier, J. Van de Vyver, L. Bradley & S. Thouësny (Eds), CALL and complexity – short papers from EUROCALL 2019 (pp. 199-205).





#### 1.3. Courses developed on moodle

- 1.3.2 English for medicine, Reading comprehension (Iwata and Tamaki, 2021).
  - To help improve reading comprehension skills in English using essays written by Dr. Douglas Paauw

(1) Select a section



(2) Work on quizzes



(3) Receive feedback

<b>Chapter 1: What matters most</b>
1. Pre-reading Questions (Unit 1)
2. Building vocabulary (Unit 1)
Unit 01 Script (PDF)
4. Comprehension Check (Unit 1)
5. Language Exercise (Unit 1)
6. Useful expressions (Unit 1)
6. Useful expressions (Unit 1) Quiz
8. Topics for Discussion (Unit 1)











#### 1.3. Courses developed on moodle

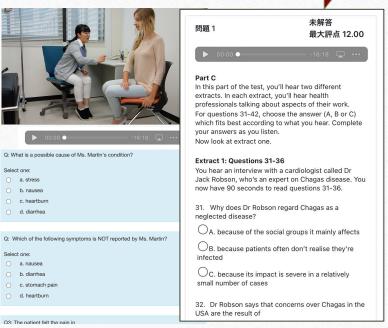
#### 1.3.3 OET Medicine course (Iwata and Wang, 2022)

help Japanese medical students meet the international standard or requirements

#### (1) Select a section



#### (2) Work on quiz



#### (3) Receive feedback











#### 1.4 Why digital badge?

- (1) A digital badge system allows learners to create a holistic view of their achievements.
- (2) A digital badge system helps learners study autonomously.

  (Iwata et al., 2019)









## 2. Research questions

- (1) How can we develop an effective course to help improve doctor-patient communication skills in English?
- (2) What are students' perceptions about the course?
- (3) How can we improve the course?









#### 1. To develop a new course on moodle











## 2.1 Course design

- (1) Tool: Moodle 4.1.6+
- (2) Contents: doctor-patient communication videos and quizzes on 12 common symptoms

1. Fever 発熱	7. Cough 咳
2. Anemia   貧血	8. Abdominal Pain 腹痛
3. Dehydration 脱水症	9. Dysphagia 嚥下障害
4. Obesity  肥満	10. Hearing Loss 聴力障害・難聴
5. Headache 頭痛	11. Fracture  骨折
6. Chest Pain 胸痛	12. Pregnancy  妊娠

(3) Target: medical students of Shimane university









#### 2.2 Learning procedure

- ◆ Step 1: Download the Worksheet (PDF).
- ◆ Step 2: Watch the video (with subtitles) and practice pronunciation of the English expressions used in the doctor-patient medical interview.
- ◆ Step 3: Watch the video (without subtitles) to understand the medical interview between a doctor and a patient without subtitles.
- ◆ Step 4: Practice to express the doctor's speech in English by using the Role play video.
- ◆ Step 5: Take the quiz (Fill in the blanks) until you get at least 8 points out of 10.
- ◆ Step 6: Take quiz (Multiple choice) until they get a perfect score of 10 points.



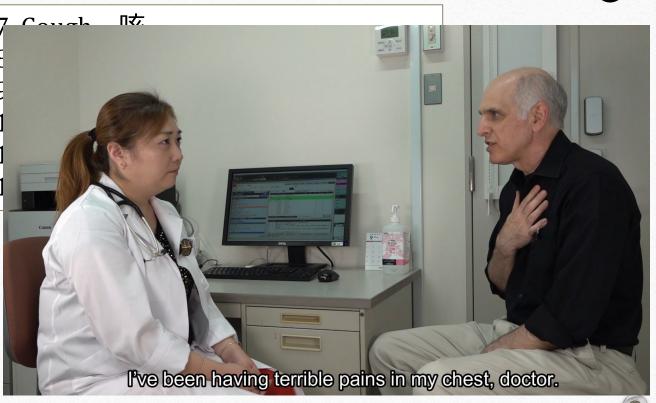




# 2.3 Demonstration: Unit4. Obesity

P

- 1. Fever 発熱
- 2. Anemia 貧血
- 3. Dehydration 脱水症
- 4. Obesity 肥満
- 5. Headache 頭痛
- 6. Chest Pain 胸痛











# 3. Results

## 1. Evaluation of the use of videos and quizzes

- Data: n=102 (1st-year medical students), RR=98.0%
- Data collection method: Moodle questionnaire module
- Date: February 3, 2024









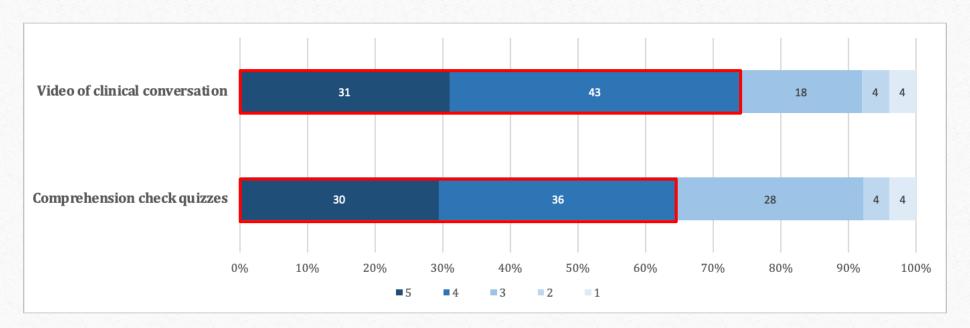


# 3. Results

## 2. Results of the students perceptions

Q1: To what extent did the videos and quizzes were helpful?

◆ Likert scale: 5: Very useful, 4: Useful, 3: Neutral, 2: Not very useful, 1: Not useful at all











# 3. Results

#### 2. Results of the students perceptions

Q2: What kind of effects do you think watching the video had?

Confirmation of English expressions used in medical interviews	58%
Checking the pronunciation and intonation of English expressions used in medical interviews	65%
Confirming the atmosphere of the medical interview in English	48%
Practice playing the role of a doctor using role-play videos	36%
Checking the doctor's movements and gestures	33%
Checking eye contact between doctor and patient	31%
Checking the doctor's posture	35%









# 4. Discussion

#### 1. Conclusions

- (1) Majority of students found the video and quizzes useful
- (2) Majority of students found videos effective from verbal points of view.
- (3) Less than half of students found videos effective from non-verbal points of view.









# 4. Discussion

#### 2. Future work

- (1) To further investigate the effects of use of videos
- (2) To review digital badges to ensure they meet the requirements of learner autonomy
- (3) To develop video contents to help students' encounters with patients from diverse culture or backgrounds.









# Closing remarks



This study was supported by JSPS KAKENHI, Grant-in-Aid for Scientific Research (C), 2021-2023 (18K00784).

#### Jun Iwata

Department of Medical English Education School of Medicine, Shimane University, Japan j\_iwata@med.shimane-uac.jp



