



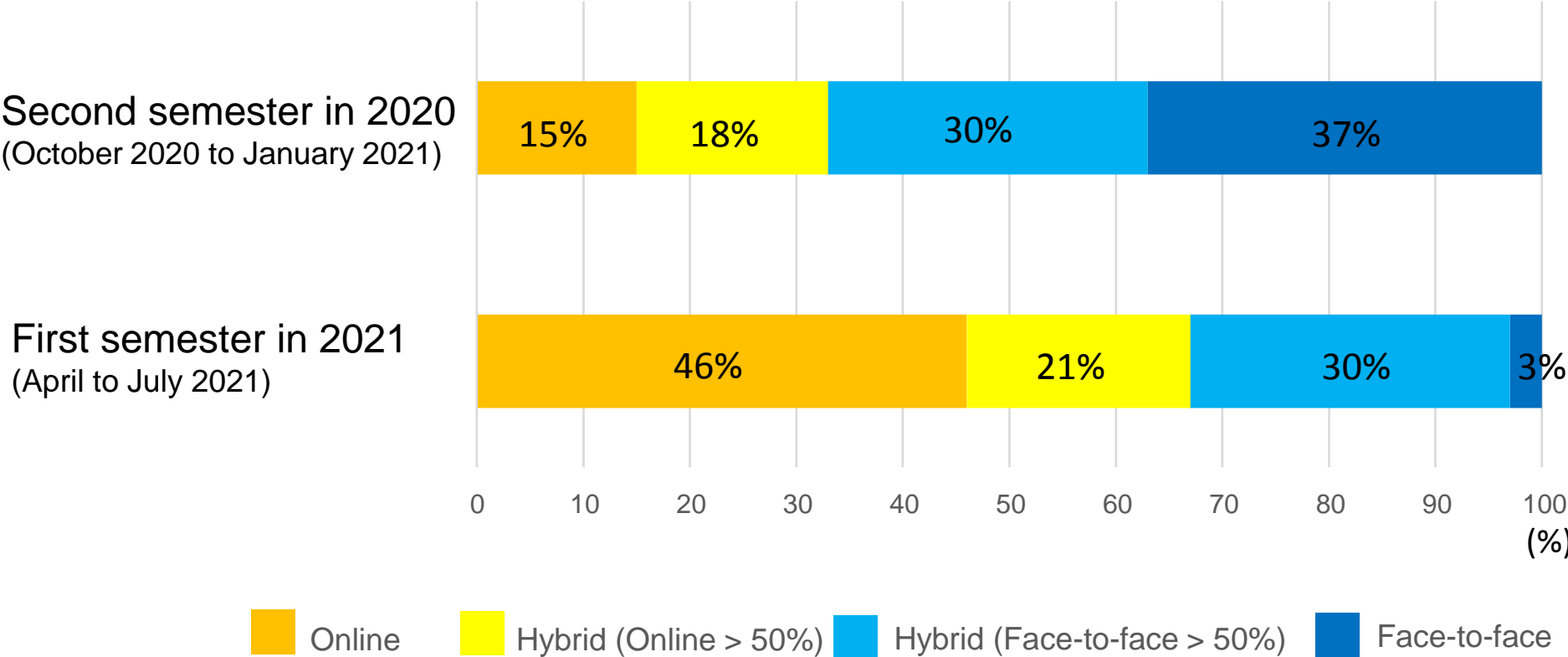
Quality assurance of on-line learning in Tohoku University School of Dentistry

ADEAP Online Symposium
September 12. 2021

Gen Mayanagi

Division for Advanced Education Development,
Liaison Center for Innovative Dentistry,
Tohoku University Graduate School of Dentistry

The types of education methods in Tohoku University School of Dentistry under COVID-19



The methods of online classes:

- Pre-recorded video (Google Classroom)
- Live streaming (Zoom, Google meet)

The cautionary points in face-to-face classes:

- Preparing two rooms to divide students into two groups
- Checking and recording body temperature and physical condition every morning and evening
- Wearing a surgical mask and sterilizing hands with alcohol
- Grasping the entering and leaving the classroom using a QR code

Tohoku University Graduate School of Dentistry

Name () Department () Check your body temperature and symptoms twice a day

Date		/	/	/	/	/	/
AM	Body temperature	°C	°C	°C	°C	°C	°C
	Cough · Sputum	Yes / No	Yes / No	Yes / No	Yes / No	Yes / No	Yes / No
	Shortness of breath	Yes / No	Yes / No	Yes / No	Yes / No	Yes / No	Yes / No
	Dysgeusia · Dysosmia	Yes / No	Yes / No	Yes / No	Yes / No	Yes / No	Yes / No
	Sore throat	Yes / No	Yes / No	Yes / No	Yes / No	Yes / No	Yes / No
	Runny nose	Yes / No	Yes / No	Yes / No	Yes / No	Yes / No	Yes / No
	Muscle aches	Yes / No	Yes / No	Yes / No	Yes / No	Yes / No	Yes / No
	Head aches	Yes / No	Yes / No	Yes / No	Yes / No	Yes / No	Yes / No
	Diarrhea · Nausea	Yes / No	Yes / No	Yes / No	Yes / No	Yes / No	Yes / No
	Others						
Date		/	/	/	/	/	/
PM	Body temperature	°C	°C	°C	°C	°C	°C
	Cough · Sputum	Yes / No	Yes / No	Yes / No	Yes / No	Yes / No	Yes / No
	Shortness of breath	Yes / No	Yes / No	Yes / No	Yes / No	Yes / No	Yes / No
	Dysgeusia · Dysosmia	Yes / No	Yes / No	Yes / No	Yes / No	Yes / No	Yes / No
	Sore throat	Yes / No	Yes / No	Yes / No	Yes / No	Yes / No	Yes / No
	Runny nose	Yes / No	Yes / No	Yes / No	Yes / No	Yes / No	Yes / No
	Muscle aches	Yes / No	Yes / No	Yes / No	Yes / No	Yes / No	Yes / No
	Head aches	Yes / No	Yes / No	Yes / No	Yes / No	Yes / No	Yes / No
	Diarrhea · Nausea	Yes / No	Yes / No	Yes / No	Yes / No	Yes / No	Yes / No
	Others						



The comments from the students

Lectures

Most of the students prefer the pre-recorded online classes than live streaming classes

- Learning can be conducted regardless of time and place
- Learning can be reviewed repeatedly

Practical and simulation training course

Most of the students prefer hybrid learning which combined the face-to-face and the online classes

- Viewing the procedure and demonstration using online before and after face-to-face classes



Original Article

Effect of online learning for dental education in asia during the pandemic of COVID-19

Tsai-Yu Chang ^a, Ming-Lun Hsu ^a, Jae-Sung Kwon ^b, MF.Lindawati S. Kusdhany ^c, Guang Hong ^{d*}

^a School of Dentistry, National Yang Ming Chiao Tung University, Taipei, Taiwan

^b Yonsei University College of Dentistry, Seoul, Republic of Korea

^c Faculty of Dentistry, Universitas Indonesia, Jakarta, Indonesia

^d Graduate School of Dentistry, Tohoku University, Sendai, Japan

Received 14 June 2021; Final revision received 15 June 2021
Available online 29 June 2021



For the quality assurance of online learning

- To evaluate the effects of online classes, comparing academic record of students before and after using online classes
- To consider the appropriate rate of the online and face-to-face classes
- To revise the curriculum adopting the online classes effectively