







Challenges in Response to **COVID-19 Pandemic and for the Future**

: Nursing Education in Japan

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The early impact on the scientific community

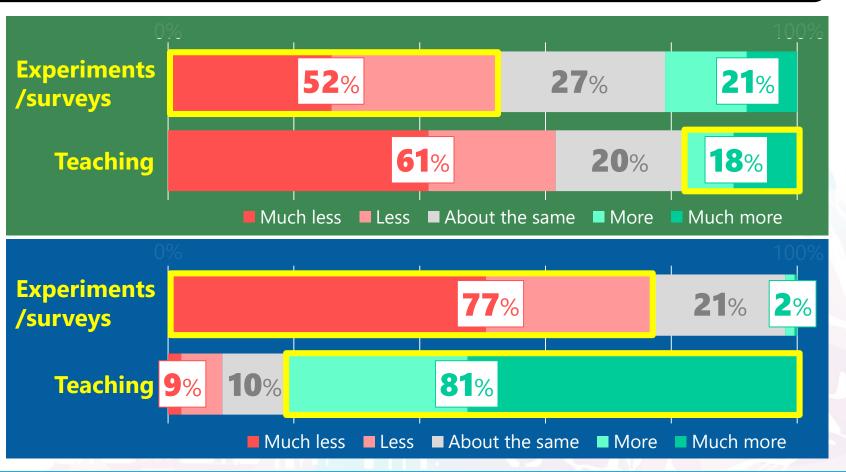
Q. Are you spending more, less, or about the same amount of time on the following activities compared to before the pandemic?

ResearchGate

- Global scientific community
- Conducted in Mar. 2020
- N = 3,000

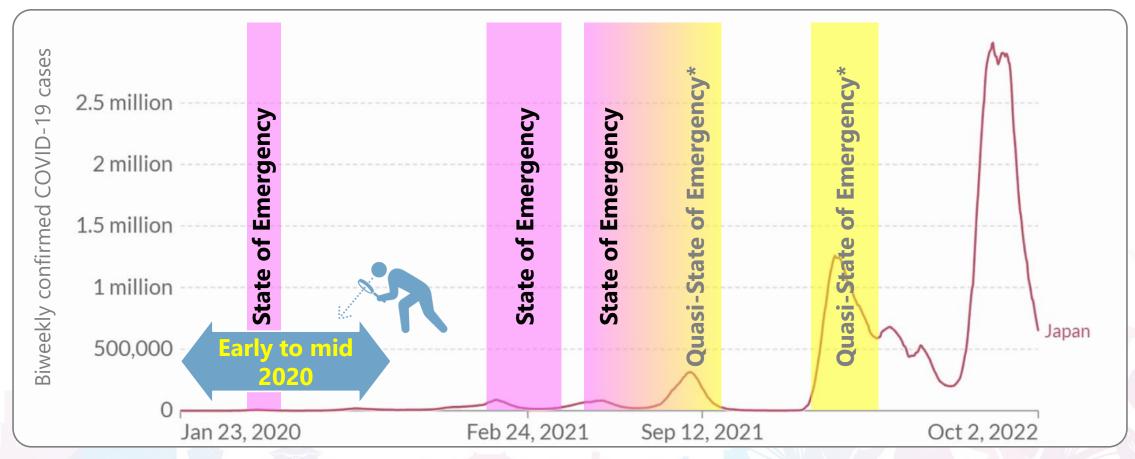


- Japanese nursing faculties
- Conducted in Jul. 2020 (asking Apr-Jun 2020 situation)
- N = 1,023 (academic-based)



The COVID-19 pandemic in Japan

Population: approx. 125.7 million



^{*} A quasi-state of emergency is more limited in terms of coverage and restrictions than a full state of emergency

日本看護系大学協議会 看護学教育質向上委員会 2020 年度 COVID-19 に伴う看護学実習への影響調: A 顕杏・B 瀬杏毎告書

2021年4月

How clinical practicum was affected by the early stages of the pandemic

Report: Survey on the impact of COVID-19 on nursing clinical practicum in FY2020 (published April 2021)



Quality Improvement Committee for Nursing Education Japan Association of Nursing Programs in Universities (JANPU)

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About the survey

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2021 Att 4 E

How clinical practicum was affected by the early stages of the pandemic

Report: Survey on the impact of COVID-19 on nursing clinical practicum in FY2020 (published April 2021)



Participant: Nursing clinical/practicum course directors (based on Survey B)

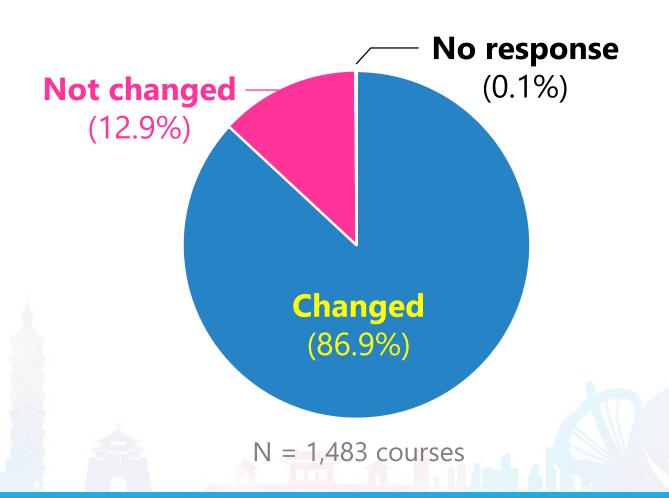
Survey period: Oct 9 – Nov 6, 2020

* Asked about practicum courses offered from Jan to Sept, 2020

Response rate: 87.1% (250/289 universities [incl. 1,489 course directors])

Changes in practicum content/methods

Q. Have you changed the content/methods of the practicum due to the pandemic?



How on-site practicum was affected

Note: multiple choices allowed

Measures taken to continue on-site practicum:

Among 1,289 course directors...

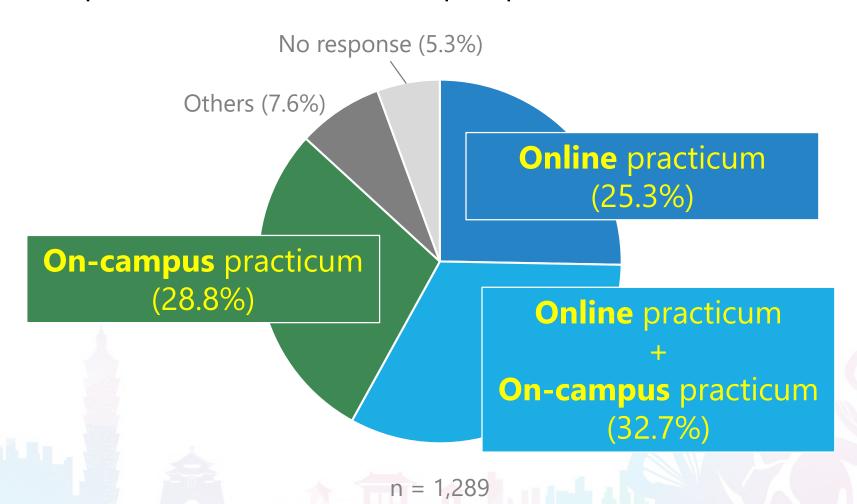
- **58.5**% reduced the total hours of on-site practicum
- **37.0**% changed practicum facility
- 25.7% reduced the number of students allocated to each practicum facility

However...



Alternative forms of on-site practicum

(if the on-site practicum was cancelled, postponed, or shortened)



Ex. of employing imitation ward: Pediatric Nursing

	Practicum facility	University campus
Students	Prohibited	Allowed
Educators	Prohibited	Allowed



Imitated an inpatients' ward on campus



Imitation ward



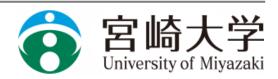
Imitation room



Role-play using manikin simulator

Ex. of using video materials: Home Care Nursing

	Practicum facility	University campus
Students	Prohibited	Allowed
Educators	Allowed	Allowed



Nursing process

Orientation

Assessment

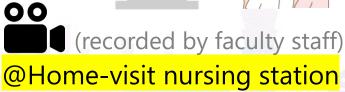
Diagnosis

Planning

Implementation

Evaluation







(recorded by faculty staff)

Client's home (2 times)



Role-play



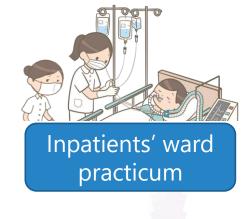
Web conference (with clinical instructor)

Ex. of using virtual reality (VR): Critical Care Nursing

	Practicum facility	University campus
Students	Operation room: Prohibited ICU & HCU: Prohibited Inpatients' ward: Allowed	Allowed
Educators	(No information)	Allowed



FUJITA HEALTH UNIVERSITY











Discussion/feedback

Ex. of using telehealth: Chronic Care Nursing

Practicum facility

University campus

Students

Prohibited

Prohibited

Educators

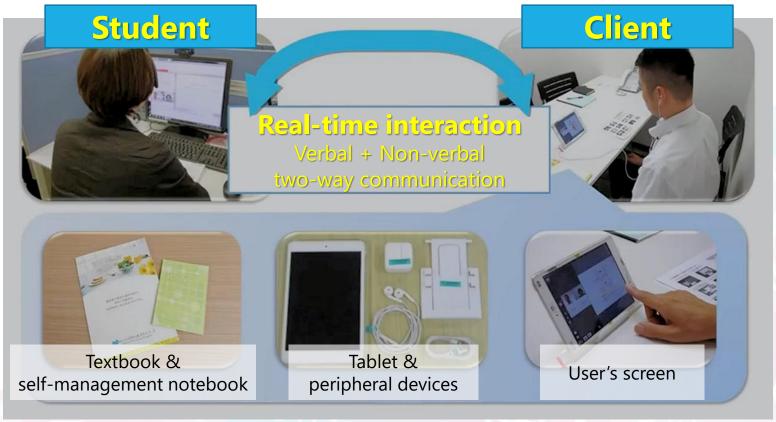
Prohibited

Prohibited





Note: Prof. Moriyama and her colleagues had been conducting research on telehealth for clients with chronic diseases since before the pandemic



Alternative methods used/applied

(if the on-site practicum was cancelled, postponed, or shortened)



Case study (scenario)

80.1%



Simulator

37.2%



Invited client/patient

13.0%



Audio-visual materials

75.5%



Invited clinical instructor (from the practicum facility)

36.0%



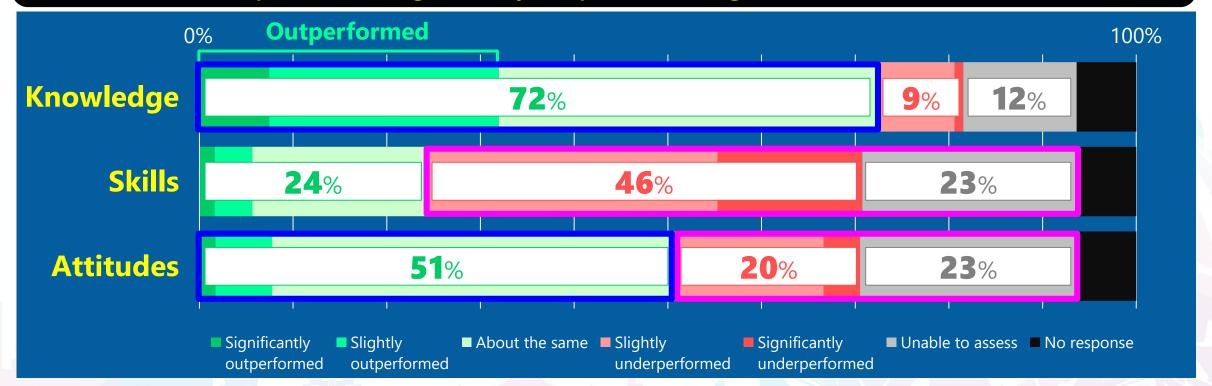
10.5%

Note: multiple choices allowed; n = 1,289

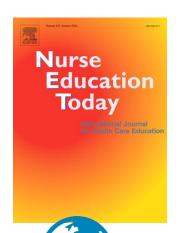
Achievement of practicum goals

(if the on-site practicum was cancelled, postponed, or shortened)

Q. Compared to regular practicum (pre-pandemic), how well did the students achieve their practicum goals by implementing the alternative methods?



n = 1,289



Research article

Nursing education in the pandemic: A cross-sectional international study

Study period: Dec 2020 to Feb 2021

Participants: 30 nursing educators working in establishments listed among the top 60

highest-ranked nursing schools in the world (according to the QS University Ranking)

Global nursing educators' views on distance education during the pandemic:

- **40**% said that distance education had positively affected students' theoretical knowledge
 - 8% said that distance education had contributed to students' professional practical skills
- 65% believed they had been caught unprepared for the outbreak

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Try to secure opportunities for on-site practicum

With the restriction of on-site practicum, the necessity and significance of clinical exposure in acquiring practical nursing skills became clearer than ever

Examples of things that can only be perceived on site:

- Smells and the atmosphere of a place using the five senses
- The reality of a person's life
- The anguish of healthcare professionals when ethical issues arise

On-site practicum is an ideal place for students to:

- Create an image of working as a nursing professional
- Examine their own practical skills in various nursing situations
- Develop the fundamental skills of a working adult





2

Maintain the quality of education if alternative methods of on-site practicum are used/applied

If the on-site practicum is partially-limited (e.g. shortened):

 Preparation and reflection/feedback (i.e. before and after onsite practicum) are important to maximize learning from limited clinical exposure

If there is no on-site practicum:

- Sufficiently prepare case study/scenario in collaboration with practicum facilities and clinical instructors in order to more realistically demonstrate aspects of clinical situations
- Create time-sensitive environments similar to clinical settings by devising the timing of presenting information to students
 - + Sharing experiences with practicum facilities and with other nursing educators to improve the quality of education

Continue improving nursing educators' skills

Several teaching methods devised during the pandemic can enhance some aspects of learning gained from traditional on-site practicum (e.g. "knowledge")

However..

- Globally, most nursing educators had little or no experience in the development of curricula for online courses at the time of the outbreak (Nashwan et al., 2020)
- The effectiveness of remote education systems hastily improvised due to the pandemic was poor; such crisis-reactive remote education is less robust than conventional remote education (Al Lily et al. 2020; Aguilera-Hermida, 2020)

Need to continue improving new/alternative teaching methods



Continue improving nursing educators' skills





Experiential learning strategies (e.g. simulation, role play)



Need to make an education environment closer to reality

- Clinical situations in the scenario should be as realistic as possible
- Role players should be as much like real clients as possible





- Collaboratively developing educational materials with multiple educators who have different clinical experiences
- The ability of educators to identify human resources (e.g. inviting a local resident with recuperation experience as a mock client)
- Applying new technology (e.g. VR, high-fidelity manikins)

In conclusion

The advent of COVID-19 has required that nursing educators be innovative, flexible, nimble, and agile, but there have been challenges in enhancing skills and compensating for limited clinical exposure

- 1 Try to secure opportunities for on-site practicum
- Maintain the quality of education if alternative methods of on-site practicum are used/applied
- 3 Continue improving nursing educators' skills

It is imperative to do more research on student outcomes based on modifications made during the pandemic for future nursing education