

Free Full Text from Publisher

Look Up Full Text

Full Text from Publisher

Find PDF

Export...

Add to Marked List

5 of 5

Pharmacy education during and beyond COVID-19 in six Asia-Pacific countries: Changes, challenges, and experiences

By: [Mohamed, MHN](#) (Mohamed, Mohamad Haniki Nik)^[1]; [Mak, V](#) (Mak, Vivienne)^[2]; [Sumalatha, G](#) (Sumalatha, G.)^[3]; [Nugroho, AE](#) (Nugroho, Agung Endro)^[4]; [Hertiani, T](#) (Hertiani, Triana)^[4]; [Zulkefeli, M](#) (Zulkefeli, Mohd)^[5]; [Dorjbal, E](#) (Dorjbal, Enkhjargal)^[6]; [Dashbaljir, S](#) (Dashbaljir, Shinezaya)^[6]; [Faller, EM](#) (Martinez Faller, Erwin)^[7]; [Benosa, CAC](#) (Ching Benosa, Christine Aileen)^[8] ...More

[View Web of Science ResearcherID and ORCID](#)

PHARMACY EDUCATION

Volume: 20 Issue: 2 Pages: 183-195 Special Issue: SI

DOI: 10.46542/pe.2020.202.183195

Published: 2020

Document Type: Article

Abstract

The COVID-19 pandemic shifted pharmacy education to remote teaching and learning (T&L) strategies. To share changes, challenges, and experiences in pharmacy education among member countries, the Federation of Asian Pharmaceutical Associations hosted a 1.5-hour webinar on 15th May 2020. Questions collected during registration and the live webinar were coded using thematic analysis. A total of 794 participants from 18 countries/territories registered, while 346 attended the webinar. Of 445 questions, 392 were from the registration form and 53 from the webinar. All questions were coded to four major themes: new normal pharmacy education, ethics and safety, material accessibility, and teaching and evaluation methods. Questions during registration were mostly on new normal adaptation (n=79), T&L formats (n=65), and access/resources/ sustainability (n=59). Webinar questions were mainly on assessment format (n=13), laboratory skills (n=9), and access/resources/sustainability (n=9). The webinar provided an opportunity to quickly identify issues regarding pharmacy education during the COVID-19 pandemic for prompt actions and further research.

Keywords

Author Keywords: [COVID-19](#); [Pharmacy Education](#); [Thematic Analysis](#); [Webinar](#)

Author Information

Reprint Address:

International Islamic University Malaysia Int Islamic Univ Malaysia, Kulliyah Pharm, Jalan Sultan Ahmad Shah, Kuantan 25200, Pahang, Malaysia.

Corresponding Address: Mohamed, MHN (corresponding author)

+ Int Islamic Univ Malaysia, Kulliyah Pharm, Jalan Sultan Ahmad Shah, Kuantan 25200, Pahang, Malaysia.

Addresses:

- + [1] Int Islamic Univ Malaysia, Kuantan, Malaysia
- + [2] Monash Univ, Fac Pharm & Pharmaceut Sci, Clayton, Vic, Australia
- [3] Vikas Inst Pharmaceut Sci, Rajahmundry, India
- + [4] Univ Gadjah Mada, Fac Pharm, Yogyakarta, Indonesia
- + [5] Int Med Univ, Sch Pharm, Kuala Lumpur, Malaysia
- [6] Mongolian Natl Univ Med Sci, Sch Pharm, Ulaanbaatar, Mongolia
- [7] San Pedro Coll, Fac Pharm, Davao, Philippines
- [8] Federat Asian Pharmaceut Associat FAPA, Paranaque City, Philippines

E-mail Addresses: haniki@iiu.edu.my

Publisher

INTERNATIONAL PHARMACEUTICAL FEDERATION, PO BOX 84200, THE HAGUE, 2508 AE, NETHERLANDS

Categories / Classification

Research Areas: Education & Educational Research

Web of Science Categories: Education, Scientific Disciplines

[See more data fields](#)

Citation Network

In Web of Science Core Collection

0

Times Cited

[Create Citation Alert](#)

36

Cited References

[View Related Records](#)

New! You may also like ... BETA

[LABORATORY SKILLS - WORTHWHILE ELECTIVE IN SECONDARY SCHOOLS. AMERICAN BIOLOGY TEACHER \(1972\)](#)

[REMOTE TEACHING BY ELECTRONIC BLACKBOARD. ENGINEERING EDUCATION \(1981\)](#)

[A Physical Assessment Skills Module on Vital Signs. AMERICAN JOURNAL OF PHARMACEUTICAL EDUCATION \(2014\)](#)

[Home schooling, remote teaching and digital Bildung in societal crisis Extended editorial. NORDIC JOURNAL OF DIGITAL LITERACY \(2020\)](#)

[Laboratory experience for teaching sensory physiology. ADVANCES IN PHYSIOLOGY EDUCATION \(2009\)](#)

[View all suggestions](#)

Use in Web of Science

Web of Science Usage Count

0

Last 180 Days

0

Since 2013

[Learn more](#)

This record is from:
Web of Science Core Collection
- Emerging Sources Citation Index

[Suggest a correction](#)

If you would like to improve the quality of the data in this record, please [suggest a correction](#).

Cited References: 36

Showing 30 of 36 [View All in Cited References page](#)

(from Web of Science Core Collection)

1. Title: [not available] Times Cited: 72
By: Allen, M.
The SAGE encyclopedia of communication research methods Published: 2017
Publisher: SAGE Publications, Inc.
2. Title: [not available] Times Cited: 1
By: Barman, A.; Das, K.
Pre-Print: Re-casting E-Learning and E-education during COVID- 19 Pandemic Published: 2020
Available at
URL: https://www.researchgate.net/publication/341384419_Pre-Print_Re-casting_E-Learning_and_E-education_during_COVID-19_Pandemic_-_A_study_on_the_e-learning_initiatives_with_special_reference_to_North-East_India
3. **Navigating the Uncharted Waters in the Time of COVID-19** Times Cited: 5
By: Brazeau, Gayle; Romanelli, Frank
AMERICAN JOURNAL OF PHARMACEUTICAL EDUCATION Volume: 84 Issue: 3 Article Number: 8063 Published: MAR 1 2020
4. Title: [not available] Times Cited: 1
Group Author(s): Commission on Higher Education
Advisory No. 6 Guidelines for the Prevention, Control and Mitigation of the Spread of Coronavirus Disease 2019 (COVID 19 in Higher Education Institutions (HEIs) Published: 2020
Available at
5. Title: [not available] Times Cited: 1
Group Author(s): Commission on Higher Education
Advisory No. 5 Guidelines for the Prevention, Control and Mitigation of the Spread of Coronavirus Disease 2019 (COVID 19 in Higher Education Institutions (HEIs) Published: 2020
Available at
6. Title: [not available] Times Cited: 1
Group Author(s): Commission on Higher Education
List of Authorized Undergraduate Programs Published: 2018
Available at
7. Title: [not available] Times Cited: 1
Group Author(s): Commission on Higher Education
Policies, Standards and Guidelines for Pharmacy Education Volume: 03 Published: 2006
Available at
8. Title: [not available] Times Cited: 1
Group Author(s): Council of Pharmacy Schools
Guiding principles for pharmacy student clinical education during a global health emergency Published: 2020
Available at
9. Title: [not available] Times Cited: 3
By: DOOLEY M
J PHARM PRACT RES Volume: 50 Pages: 117 Published: 2020
10. **Pharmacy Practice in the Philippines** Times Cited: 2
By: Faller, E.M.; Tolentino, E.A.; Nagaria, R.A.
Encyclopedia in Pharmacy Practice and Clinical Pharmacy Pages: 546-555 Published: 2019
Publisher: Elsevier Science & Technology
11. Title: [not available] Times Cited: 1
By: Faller, E.M.; San Gabriel, J.; Plantilla, R.K.G.; et al.
Quality of Pharmacy Learnings, Challenges and Opportunities during and beyond Pandemic Covid-19 in the Philippines Published: 2020
on going
[\[Show additional data\]](#)
12. **Competency Assessment of Clinical Pharmacy Education in the Philippines: A Basis for Curriculum Framework** Times Cited: 2
By: Faller, E.M.; Cruz-Bacayo, M.F.D.; Abustan, A.B.
World Journal of Pharmacy and Pharmaceutical Sciences Volume: 5 Issue: 3 Pages: 215-226 Published: 2016
13. **Pharmaceutical Common Achievement Test: Computer-based testing (CBT)** Times Cited: 2
By: Ichikawa, Atsushi

14. **Tertiary student attitudes to invigilated, online summative examinations** Times Cited: **17**
By: James, Rosalind
INTERNATIONAL JOURNAL OF EDUCATIONAL TECHNOLOGY IN HIGHER EDUCATION Volume: 13 Article Number: 19 Published: MAY 24 2016
15. **Vaccines for COVID-19: The current state of play** Times Cited: **35**
By: Koirala, Archana; Joo, Ye Jin; Khatami, Ameneh; et al.
PAEDIATRIC RESPIRATORY REVIEWS Volume: 35 Pages: 43-49 Published: SEP 2020
16. Title: [not available] Times Cited: **1**
Group Author(s): Malaysian Qualifications Agency (MQA)
Compilation guiding principles for professional programmes during COVID-19 pandemic Published: 2020
Available at
17. **Thousands of professors expected to lose jobs with K-12 implementation** Times Cited: **1**
By: Marcelo, E.
GMA News Published: 2014
Available at
URL: <https://www.gmanetwork.com/news/news/nation/365460/thousands-of-professors-expected-to-lose-jobs-with-k-12-implementation/story/>
18. Title: [not available] Times Cited: **1**
Group Author(s): Monash University
In their own words: Work placements put students on the COVID-19 frontline Published: 2020
Available at
19. Title: [not available] Times Cited: **3**
Group Author(s): OECD
Future of Education and Skills 2030: Curriculum Analysis Published: 2018
Publisher: OECD, Paris
20. Title: [not available] Times Cited: **1**
By: Panti, L.T.
CHED: Classes should all start in August amid COVID-19 crisis Published: 2020
Available at
URL: <https://www.gmanetwork.com/news/news/nation/737667/ched-classes-should-all-start-in-august-amid-covid-19-crisis/story/>
21. Title: [not available] Times Cited: **1**
Group Author(s): Pharmaceutical Services Programme: Ministry of Health Malaysia
List of Recognised Pharmacy Schools in Malaysia Published: 2020
Available at
22. Title: [not available] Times Cited: **1**
Group Author(s): PIKA UGM
Infografis Pembelajaran Daring Published: 2020
Available at
23. Title: [not available] Times Cited: **1**
Group Author(s): PIKA UGM
Survei Pelaksanaan UTS dan UAS Daring di UGM Published: 2020
Available at
24. Title: [not available] Times Cited: **1**
Group Author(s): Professional Regulation Commission
Pharmacist Primer Published: 2020
Available at
25. Title: [not available] Times Cited: **1**
By: Rosales, F.
2019 Top Performing Pharmacy Schools in the Philippines Published: 2019
Available at
URL: <https://www.localpulse.net/education/top-schools/2019-top-performing-pharmacy-schools-in-the-philippines-32405/>
26. **Using a word processor to tag and retrieve blocks of text** Times Cited: **20**
By: Ryan, GW.
Field Methods Volume: 16 Pages: 109-130 Published: 2004
27. Title: [not available] Times Cited: **2**
By: Schwab, K.
The Fourth Industrial Revolution Published: 2016
Available at

Publisher: World Economic Forum, Geneva, Switzerland

URL: <https://www.tandfonline-com.ezproxy.um.edu.my/doi/abs/10.1080/10686967.2018.1436355>

28. **COVID-19 outbreak in Malaysia: Actions taken by the Malaysian government** Times Cited: 21
By: Shah, Ain Umaira Md; Safri, Syafiqah Nur Azrie; Thevadas, Rathedevi; et al.
INTERNATIONAL JOURNAL OF INFECTIOUS DISEASES Volume: 97 Pages: 108-116 Published: AUG 2020
29. Title: [not available] Times Cited: 1
By: Sharma, A.K.
COVID-19: Creating a paradigm shift in India's Education System Published: 2020
Available at
URL: <https://economictimes.indiatimes.com/blogs/et-commentary/covid-19-creating-a-paradigm-shift-in-indias-education-system/>
30. Title: [not available] Times Cited: 1
By: Tamm, S.
Disadvantages of E-Learning Published: 2019
Available at
URL: <https://e-student.org/disadvantages-of-e-learning/>

Showing 30 of 36 [View All in Cited References page](#)

Clarivate

Accelerating innovation

© 2021 Clarivate [Copyright notice](#) [Terms of use](#) [Privacy statement](#) [Cookie policy](#)

[Sign up for the Web of Science newsletter](#) [Follow us](#)

