

Preparedness and
Confidence of the End Of
Posting (EOP) examination
during the post COVID
period among 3rd and 5th
year medical students from
online teaching

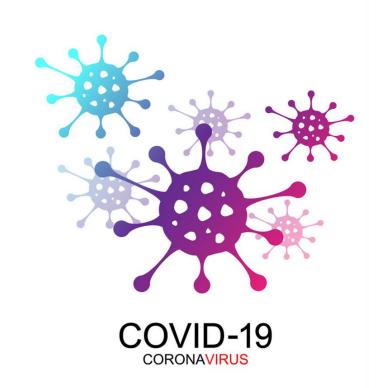
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Title Slides	01	
Introduction	02	
Literature Review	03	
Research Objectives	04	 0
Methodology	05	<u> </u>
Results	06	Thesis Presentation
Discussion	07	Outline
Conclusion	08	
Reference Slides	09	

Introduction

COVID-19

- Affected globally on a large scale in almost all the sectors in the world.
- Medical education is heavily affected
- Due to the heavily emphasized on the clinical exposure and clerkship in the hospital.



Literature Reviews

Ferrel & Ryan (2020)

- Full impact of COVID-19 on medical education is not fully known
- Emphasizes to study the changes made in response to this pandemic.

Choi et al. (2020)

- A national survey in UK medical school
- Impact of COVID-19 on OSCEs, written examinations and student assistantships has significantly affected students' preparedness to their first-year foundation training. (p=0.025, 0.008, 0.0005)

Liang et al., 2020

- Singapore's medical education was affected all the way from undergraduate to postgraduate.
- All clinical rotations for undergraduates have been suspended immediately

Tan & Yong (2020)

To determine the preparedness and confidence of the End Of Posting (EOP) examination during the post COVID period among 3rd and 5th year medical students from online teaching

Research Objectives

Primary Objective



To determine the association between year of study and the preparedness and confidence towards End of Posting (EOP) examination among 3rd and 5th year medical students of UPM



Secondary Objective #1

To determine the online teaching platform preferred by 3rd and 5th year medical students in UPM



Secondary Objective #2

To determine the association between year of study and teaching method preference among 3rd and 5th year medical students of UPM

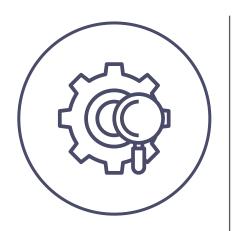




Secondary Objective #3

To determine the difficulties faced by 3rd and 5th year medical students of UPM after resuming teaching in hospital

Study Methodology



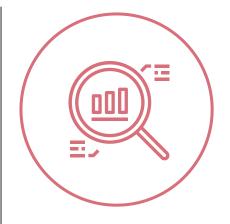
Cross sectional study design



Questionnaire*
was sent by
Google Form



July 2020 to September 2020



Analyzed by IBM
Statistical Package
for Social Science
(SPSS) version 25

^{*} Adopted based on Choi et al. (2020)

Sampling

Study population

3rd and 5th year medical students of Universiti Putra Malaysia

Sampling Method

Convenience sampling method.

Number of respondents

Total Year
$$3 = 99$$
 Total Year $5 = 80$
Year $3 +$ Year $5 = 179$

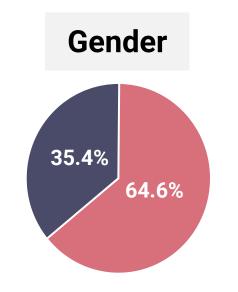
Number of participants = 144

Responsive rate is 144/179=80%

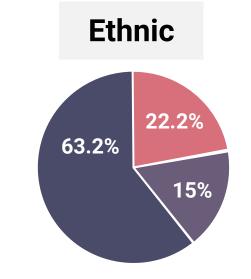
Results



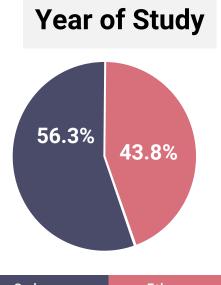
Sociodemographic



Male	Female
51 /144	93/144



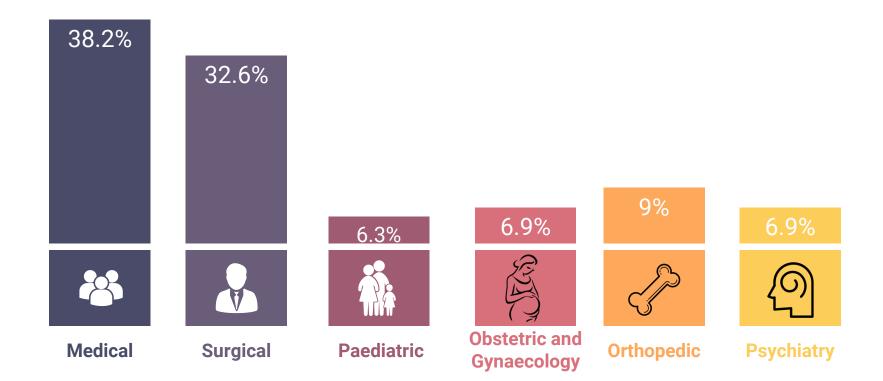
Malay	Chinese	Indian
91 /144	32 /144	21/144



3rd year	5th year
81 /144	63/144

Sociodemographic

Posting



Preferred Teaching Method (n=144)

Preferred Online	Platform
(n=144)	

	Frequency	Percent
Traditional	56	38.9
Online	16	11.1
Mixed	72	50.0

	Frequency	Percent
ZOOM	44	30.6
Google Meet	67	46.5
Skype	2	1.4
Cisco Webex	6	4.2
Microsoft Team	12	8.3
Google Classroom	12	8.3
Others	1	0.7

Association between Year of Study and Preferred Teaching Method

	Year of Study					
Variables	3rd year	5th year	Total n (%)	X^2	df	p-value
Preferred Teachin	ng Method					
Traditional	23	33	56	9.23	2	0.01
Online	12	4	16			
Mixed	46	26	72			

- Using Chi Square test, there is a significant association between year of study and preferred teaching method.
- 5th year medical students preferred traditional teaching method compared to 3rd year medical students (p=0.01)

^{*}significance at level 0.05

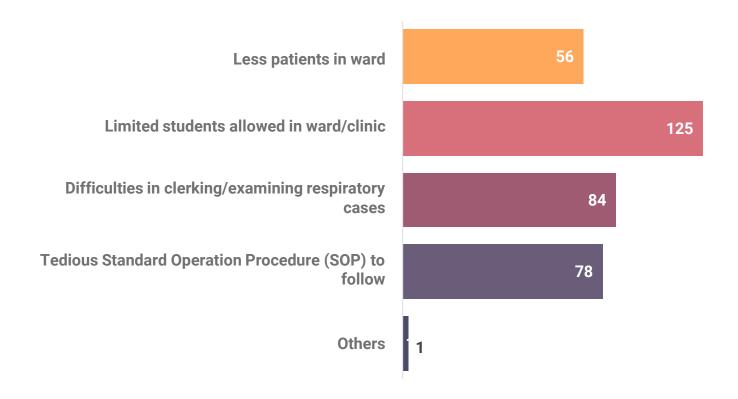
Association between Year of Study and Preparedness and Confidence towards EOP examination

	Year of Study					
Variables .	3rd year	5th year	Total n (%)	X^2	df	p-value
Preparedness toward EOP	examination					
Strongly Agree + Agree	43	48	91 (100)	0.58	1	0.004
Neutral + Disagree +	38	15	53	8.133	1	
Strongly Disagree						
Confidence toward EOP ex	amination					
Strongly Agree + Agree +	25	8	33	6.62	1	0.01
Neutral						
Disagree + Strongly	56	55	111			
Disagree						

^{*}significance at level 0.05

- Using Chi Square test, there a significant association is between year of study and preparedness towards EOP examination
- 5th year medical students are less prepared compared to 3rd year (p=0.004)
- Using Chi Square test, there a significant association is between year of study and confidence towards EOP examination
- 5th year medical students are less confidence compared to 3rd year (p=0.01)

Difficulties faced after resuming teaching in hospital



Discussion

01

Google Meet is the most preferred online platform (46.5%)

 The likely reasons is due to the availability of Google meet in any browser and also the free unlimited meeting time. (Biradar, 2020)



5th year medical students preferred traditional teaching method while 3rd year medical students prefer mixed teaching method

- 1) There are several studies that have different results.
- 2) Amer et al. (2020) claimed that medical students support traditional teaching
- 3) Paechter et al. (2010) stated that students appreciate online learning as it can provide a clear structure of the learning material, while students preferred face-to-face learning in which a shared understanding has to be derived.
- 4) Our research shows 3rd year prefers mixed while 5th year prefers traditional face to face.
- 5) The proposed reason is because 3rd year medical students are still in the stage of gaining knowledge and building up foundation while the 5th year focus more on clinical clerkship and gaining experience from real patients.

02

Discussion

5th year medical students are less prepared and confident for EOP compared to 3rd year

- 1) This is consistent with Choi et al (2020) where the final year medical students are less prepared for their FY1.
- Meta-analysis of five databases and four key journals of medical education by Pei et al. in 2019 shows that there is no evidence that offline learning works better.
- 3) The postulated reasons for the reduced preparedness and confidence is because 5th year medical students have been trained by the traditional teaching method since they first started their clinical years.
- 4) The results from our research also showed that 5th year prefers traditional teaching method (p= 0.01)
- 5) The 3rd years are just starting their clinical years and are more adaptable to new changes



Conclusion



What is the impact of online teaching to the preparedness and confidence of the End Of Posting (EOP) examination?

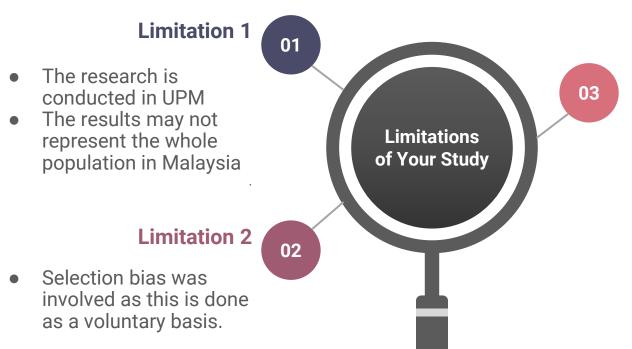


Preparedness and confidence
of the End Of Posting (EOP)
examination were significantly
affected in medical students,
especially in 5th year medical
students



Currently, online learning itself is not sufficient to replace traditional teaching until better strategy is implemented.

Limitation



Limitation 3

- The questionnaire was derived from Choi et al. (2020)
- The questions are limited and may not represent the real level of preparedness and confidence of the medical students

Recommendation



Recommendation

More studies should be looked into the strategy to implement online learning for medical students. This can help for the future doctors to be trained by fully utilizing online teaching

References

- Amer Mahmoud Sindiani, Nail Obeidat, Eman Alshdaifat, Lina Elsalem, Mustafa M. Alwani, Hasan Rawashdeh, Ahmad S. Fares, Tamara Alalawne, Loai Issa Tawalbeh, Distance education during the COVID-19 outbreak: A cross-sectional study among medical students in North of Jordan, Annals of Medicine and Surgery, Volume 59, 2020, Pages 186-194, ISSN 2049-0801, https://doi.org/10.1016/j.amsu.2020.09.036.
- Biradar, A. Webinar: the New Way of Continued Medical Education. Indian J Surg (2020). https://doi.org/10.1007/s12262-020-02516-0
- Carlson, M.D.A., & Morrison, R.S. (2009). Study Design, precision, and validity in observational studies. Journal of palliative medicine, 12(1),77-82. https://doi.10.1089/jpm.2008.9690.
- Choi, B., Jegatheeswaran, L., Minocha, A., Alhilani, M., Nakhoul, M., & Mutengesa, E. (2020). The impact of the COVID-19 pandemic on final year medical students in the United Kingdom: a national survey. BMC Medical Education, 20(1), 206. https://doi.org/10.1186/s12909-020-02117-1

References

- Ferrel, M. N., & Ryan, J. J. (2020). The Impact of COVID-19 on Medical Education. Cureus, 12(3), 10-13. https://doi.org/10.7759/cureus.7492
- Liang, Z. C., Ooi, S. B. S., & Wang, W. (2020). Pandemics and Their Impact on Medical Training: Lessons From Singapore. Academic Medicine: Journal of the Association of American Medical Colleges. https://doi.org/10.1097/ACM.0000000000003441