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Perception Of Students On Online Teaching And Assessment Methodology During Covid-19 Pandemic In Microbiology

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ABSTRACT:

The Coronavirus disease 2019 (Covid-19) pandemic, caused by the severe acute respiratory syndrome coronavirus2 (SARS-CoV-2) is arguably one of the biggest crisis of modern times, with a multitude of repercussions on societal, economic and medical systems. The Coronavirus disease 2019 (Covid 19) pandemic has imposed unprecedented hurdles to healthcare systems and medical facilities alike. The Coronavirus disease 2019 pandemic caused significant disruption to teaching and learning activities at all levels. The Covid-19 pandemic radically and without warning changed the laboratory learning environment for students and instructors. Students were faced with having to be receptive to new learning methods; Instructors scrambled to devise innovative ways of providing a realistic lab experience for students.

Objectives:

- a) Impact of Covid 19.
- b) Use of various tools and teaching strategies to teach lectures and practicals.
- c) Mental health of students as a result of Covid 19 and e learning.

Methods:

- a) Teaching method consisted of clinical scenarios, videos on microbiological techniques.
- b)Test evaluation, student evaluation, and Viva voce...
- c) Project submission, presentations.

Results: Online teaching is more focused on theory rather than practicals. Assessment and feedback is difficult in online teaching. **Conclusion:**

Online teaching in medical colleges is still a new concept. During Covid 19 these online lectures became a crucial candlelight in the dark era of lockdown worldwide.

Keywords: Coronavirus, Covid, Online.

Introduction

Coronavirus disease 2019 (Covid-19) pandemic, caused by the severe acute respiratory syndrome Coronavirus 2(SARS-CoV-2) is one of the biggest crisis with a multitude of repercussion on societal, economic and medical systems¹. SARS-CoV-2 (severe acute respiratory syndrome) causing COVID-19 disease, has wreaked havoc in most of the nations all around the globe, giving rise to issues in many aspects of life. The government's numerous regulations amidst the pandemic have generated aslew of problems in a variety of areas².

Online teaching and learning activities have gained the most attention worldwide during the period of lock down due to pandemic. With this development, many challenges have evolved like effectiveness of teaching, availability of internet, technical issues (from both the ends i.e. from teachers as well as students), effective learning and assessment tools, conduction of online theory and practical examinations, credibility of these examinations, availability of resource materials with students to be prepared for these assessment, usage of online institutional e-portals to provide e-resources for the students.³

The United Nations(UN)and the WHO consider e-learning as an effective tool in addressing education needs.^{4,5} Most of the universities and institutions are successful in adapting online platforms for teaching and assessment by framing proper guidelines and timely training of students as well as teachers on how to use various available and dependable online platforms. Multiple online platforms are available to conduct online teaching activities and are found to be user-

friendly,authentic and genuine. Online teaching resulted in emergence of four themes which are the human connection(student-faculty and student-student), IT support, course design that is specific to e-learning and institutional infrastructure to support⁶.

A considerable fallout has affected school and University education alike. The predominantly theoretical contents of preclinical courses can be regarded as more easily adaptable to an online format, lectures and practical courses struggle substantially pertaining to distant transfer of knowledge and manual skills. Medical Microbiology is a subject containing both theoretical knowledge and practical skills and is critical for diagnostic purposes, as also to the understanding⁷

Objectives: 1.To study the perception of online teaching learning methods. 2. To study the perception of students of online assessment methods. 3. To obtain feedback about the online teaching methodology and assessment methods.

Material and methods: 105 students participated in this study of which 50 were MBBS,40 B.Sc Nursing and 15 PGDMLT students. During Covid 19 for continuing education, the university initiated online classes for students. Two separate google forms were prepared. A) Feedback form for students on Microbiology online classes. B)Feedback of students on online assessment of Microbiology classes.

Discussion:In the present study online medical microbiology course for undergraduates led to comparable learning outcomes measured by exam results as a conventional course, even though several aspects of the online course were evaluated with significantly lower scores by the students. Timely feedback is also a critical component of an online assessment. Students should know their progress through the online assessment, and they should be guided where they need improvement. Despite the variety of assessment tools available, multiple-choice questions play an integral part in assessing students' learning performance face-to-face and in the online mode of examination. A similar kind of study conducted in the Government and private universities and colleges of Uttrakhand, India, showed that the online education helped in strengthening and expanding the teacher's knowledge in the subject and technical skill as well. They also felt that online teaching mode had increased the working hours of a teacher due to time constraints in online teaching—a disadvantage.⁸ Most of the teachers were of the opinion that e-learning cannot replace the conventional offline methodology as compared to Bhat etal⁹

Conclusion: There is also a need to train the teachers about online platforms for improving the quality of teaching learning methods. Additional research like qualitative research should be done to fine out the core problems of the students to handle this new method of education to further enhance the quality of online education.

Conflict of Interest: Nil

References:

- 1. Meyer S,PapanC. 2020. LastK: A global health perspective on SARS-CoV-2 hazards, disaster and hope. WienMed Wochenschr, 170(13-14).,357–358.
- 2. Z.Khalifa SA, Swilam MM, El-Wahed AA, et al. 2021. Beyond thepandemic:COVID-19 pandemic changed the face of life.Int J Environ Res Public Health, 18:5645.
- 3. Richardson JC, Besser E, Koehler A, Lim J, Strait M. 2016.Instructors' perceptions of instructor presence in online learning environments. The International Review of Research in Open and Distributed Learning.17(4):1–10.
- 4. Childs S, Blenkinsopp E, Hall A, Walton G. 2005. Effective e-learning for health professionals and students-barriers and their solutions. A systematic review of the literature–findings from the HeXL project. Health Info Libr J;(Suppl 2):20–32. Available from: 10.1111/j.1470-3327.
- 5. Colace F, Santo MD, Pietrosanto A.2006 Evaluation Modelsfor e-Learning Platform: An AHP Approach.FrontiersinEducationConference.1–6.
- 6. Frazer C, Sullivan DH, Weatherspoon D, Hussey L. 2017Faculty Perceptions of Online Teaching Effectivenessand Indicators of Quality. Nursing Research and Practice, 1–6.
- 7. Cervantes J. 2020. The Future of Infectious Diseases Education. Med SciEduc ,1–3.
- 8. Dubey B,SinghS. 2020.Perception of teachers on online Teaching in higher education during Covid-19lockdown.International Journal of Creative ResearchThoughts.;8(5):1017–1022.
- 9. Bhat N P, Adake P,Petimani M S,Preethishree P.2021. Assessment of Perception of Teachers Towards Online Teaching and Learning During Covid 19 Pandemic.JournalofMedicalSciencesandHealth,Volume7/Issue3;32-38

Table1: Students perception regarding online classes of Microbiology

Opinion	Perception	MBBS(%)	NURSING(%)	DMLT (%)
Beneficial to	Strongly agree	70	55	40
students	Agree	23	23	15
	Disagree	7	22	45
Help in	Strongly Agree	6.9	12.9	11
Understanding	Agree	15.5	71	25
basic concepts	Disagree	77.6	16.1	64
SLO mentioned	Sometimes	12.9	11	9
by the teacher	Never	71	16.5	42.5
	Always	16	72.5	48.5
Student's	Sometimes	38.7	22.7	18.3
Understanding of	Never	3.2	8.4	11.9
SLO	Always	58.1	68.9	69.8
Satisfaction of	Sometimes	69	41.9	38.9
quality of TLM	Never	8.6	0	0
	Always	19	58.1	48.1
Satisfied with AV aids	Sometimes	17.5	15.1	9
use	Never	2.4	17.3	15
	Always	80.1	67.6	76
Clarification of	Sometimes	12	11.5	1.5
doubt during	Never	81	87.3	85.4
class	Always	7	1.2	13.1
Satisfied of online	Sometimes	19	10.1	8.9
class	Never	81	89.9	91.1

Table2: Students perception regarding online assessment

Opinion		MBBS(%)	NURSING(%)	PGDMLT(%)
Need of online				
assessment during	Yes	64.5	68.2	71.2
covid19 pandemic period	No	35.5	31.8	28.8
500	MCQ	83.3	72.8	89.2
Preferred pattern	SAQ	13.2	15.9	10.8
of question	LAQ	3.5	11.3	00
Online assessment	Yes	22.7	54.3	20.3
can be used during	No	77.3	45.7	79.7
normal situation				
Online assessment	Yes	77.2	84.1	88.2
motivated you for selfstudy	No	22.8	15.9	11.8
	Yes	54.4	32.3	39.5
Orals(VIVA)	No	45.6	67.7	60.5
	Weekly Monthly	21.1	19.3	21.2
How often were	Bimonthly	64.1	78.2	61.4
the assessments	v	14.8	2.5	17.4