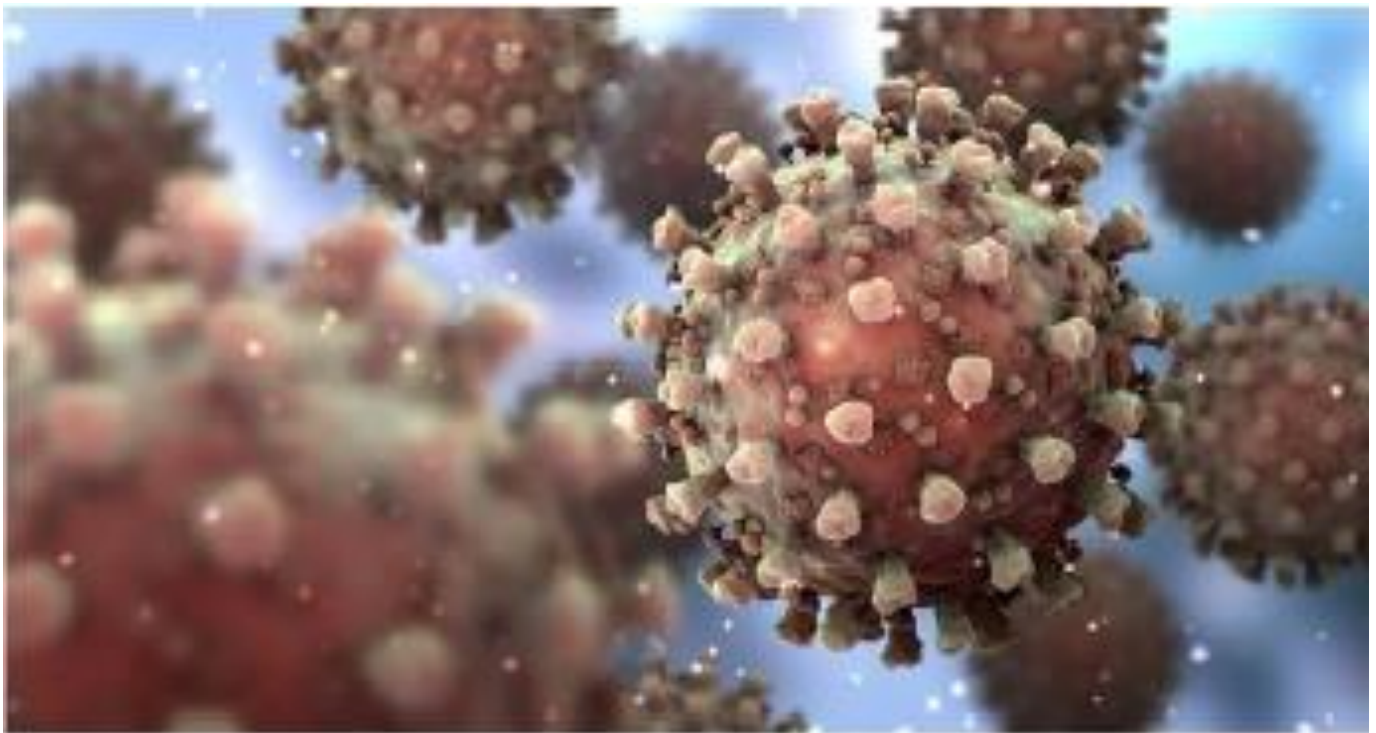


Report



Webinar

“All About Mucormycosis in COVID 19”



Organized by:

**Department of Medical Surgical Nursing
MGM NEW BOMBAY COLLEGE OF NURSING**

**MGM INSTITUTE OF HEALTH SCIENCES
(Deemed University u/s 3 of UGC Act, 1956)
Grade ‘A’ Accredited by NAAC**

on

8th June 2021



MGM INSTITUTE OF HEALTH SCIENCES

(Deemed to be University) Grade 'A' Accredited by NAAC

MGM NEW BOMBAY COLLEGE OF NURSING

5th Floor, MGM Educational Campus, Plot No. 1 & 2,
Sector-1, Kamothe, Navi Mumbai – 410 209.

Report of the Webinar

All About Mucormycosis in COVID 19

8th June 2021

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“All About Mucormycosis in COVID 19”

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AIM

The webinar focuses to emphasize on understanding about mucormycosis infections and its preventive strategies.

OBJECTIVES

- To identify Mucormycosis and its disease progression.
- To recognize various diagnostic approaches in mucormycosis infection.
- To discuss strategies and standard operating protocols for prevention of mucormycosis infections in COVID-19 patients.

PARTICIPANTS

Total 373 participants registered. There were MBBS interns, Clinical Nursing professionals, B.Sc. Nursing Students and teaching faculty of various colleges and Hospitals.



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Webinar

“All About Mucormycosis in COVID 19”

8th June 2021

Time	Event	Topic	Resource Person
10.00 – 10.10 am	Opening of theme		Dr. R. Ponchitra Professor and Vice Principal MGM New Bombay College of Nursing, Kamothe
10.10 – 10.40am	Session - 1	Mucormycosis and its progression. Definition, Risk factors, Types and management – (Pulmonary, cutaneous & Gastrointestinal mucormycosis)	Dr. Badal Taori Senior Resident, Dr. Saurabh Borkhade Senior Resident, Dept. of Medicine, MGM Medical College Hospital, Kamothe
10:40 – 11:10 am	Session-2	Symptoms and Management Orbital Mucormycosis	Dr. Sayali S. Amberkar Senior Resident, Dept. of Ophthalmology, MGM Medical College Hospital, Kamothe
11.10 – 11.40 am.		Symptoms and Management Rhinocerebral Mucormycosis	Dr. Aathira Thomas Senior Resident, Dept. of ENT, MGM Medical CollegeHospital, Kamothe
11.40- 12.10 pm.	Session - 3	Diagnostic considerations in Mucormycosis Investigations and Sample collection	Dr. Deepashri Naik Assistant Professor Dept. of Microbiology, MGM Medical CollegeHospital, Kamothe
12.10 – 12.40pm.	Session - 4	Preventive strategies and standard operating protocol adherence in mucormycosis	Mrs. Priyanka Khedekar Infection Control Nurse, MGM Hospital, Kamothe
12.40 -12.50 pm.	Valedictory function		

Moderator: - Mrs. Sarika Sukesh Nair, Nursing Tutor, MGMNBCON



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Webinar

All About Mucormycosis in COVID 19

Dated – 08 - 06 - 2021

Proceedings

The Programme started by the moderator, Mrs. Sarika Sukesh Nair, Nursing Tutor at 10.00 am with a warm welcome to all the panelists and the participants who were present virtually on the day of the webinar. The Honorable Principal, Dr. Prabha K. Dasila, welcomed all the participants for the webinar and introduced the importance of the webinar.

The theme for the webinar was unfolded by Dr. R. Ponchitra, Professor and Vice Principal, MGM New Bombay College of Nursing. She gave a brief description of the current pandemic that had affected the whole world and also highlighted about the devastating changes in the progression of the disease. The importance of updating knowledge in terms of management of the disease progression is of highest priority especially for nurses who cares for those patients affected badly during this COVID 19 pandemic.

Unfolding the Theme

Good morning to all Experts and delegates.

“It much more important to know what sort of a patient has a disease than what sort of a .disease patient has.” By William Osler.

Human to human transmitted disease is the game of coronavirus disease (COVID-19) transmission and it had been declared an emergency global pandemic that caused major disastrous in the respiratory system to more than five million people and killing more than half a billion deaths across the globe. These patients have been discovered to develop a wide range of bacterial and fungal co-infections and in the recent days we've been seeing a sudden increase in the Mucormycosis infection in the COVID patients.

Mucormycosis is an angio invasive disease caused by saprophytic fungi of the order mucorales. The exact incidence of mucormycosis in India is unknown due to lack of population based studies. The estimated prevalence of mucormycosis is around 70 times higher in India than that in global data.

In history the annual incidence of mucormycosis reported from different case series from India by Chakrabarti et al showed an annual incidence of 12.9 cases per year during 1990-1999, 35.6 cases per year during 2000-2004 and 50 cases per year during 2006-2007 at a single centre. A multi-centre study across India reported 465 cases from 12 centres over 21 months.

The clinical presentations of mucormycosis are classified on the basis of anatomical localisation, such as Rhino- orbital- cerebral (ROCM) the commonest form, followed by cutaneous, pulmonary, renal, gastrointestinal, and disseminated infections. Other unusual sites of infection reported in the literature from India are breast, ear, spine, heart and bone infections.

Though mucormycosis is globally distributed, certain risk factors, clinical forms and causative agents of the disease are prevalent in India. Uncontrolled diabetes mellitus is the most common underlying disease associated with mucormycosis in India in contrast to haematological- malignancy patients and solid organ transplant recipients in developed countries. The possible reason for the high prevalence is the abundant presence of Mucorales in the community and hospital environment, large number of susceptible hosts especially DM and neglect for regular health check-ups of Indian Population.

In the current scenario it has been understood that this black fungus called mucormycosis is complicating the treatment and recovery of COVID-19 patients. Mucormycosis, a serious fungal infection but otherwise rare, has been observed in a number of Covid-19 patients recently. While there is no major outbreak, the national Covid task force has issued advisory guidelines on this deadly disease.

Focussing on the current health care scenario and the necessity of preparation to handle this newly emerged dreadful disease this webinar is organised with the theme “All about Mucormycosis in Covid -19”.

The webinar focuses to emphasize on understanding about mucormycosis infections and its preventive strategies. The sessions focus on

What is the disease? Why has it emerged now? What is its relation with Covid -19?

What are the major risk factors? Who is at risk or vulnerable? What are its major types? What happens when one contracts it? When to suspect? What is the treatment/management?

How can one prevent it? What should be done to prevent Mucormycosis? What is the role of the nurse in monitoring and preventing Mucormycosis?

Bad things do happen in the world like war, natural disasters and disease, but out of those situations always arise ordinary people doing extraordinary things. I appreciate and thank all the health care professionals who are doing extraordinary service in this pandemic from the year 2020 till now and hope you all continue the service and take care of yourself and your families too.

Thank You

Scientific Sessions (08 – 06 – 2021)

Session 1 on Mucormycosis and its progression was delivered by Dr. Badal Taori and Dr. Saurabh Borkhade, Senior Residents, Dept of Medicine, who gave a detailed description on the pathogenesis of mucormycosis infection. The clinical forms of mucormycosis such as pulmonary, gastrointestinal, cutaneous and disseminated mucormycosis was explained in detail with regards to its invasion, internal progression of disease, diagnostic measures and both medical and surgical management. The session emphasized on the key points such as nursing considerations in terms of COVID patient care which could also be beneficial for decrease in the chances of infection.

Session 2 (Part 1) on Symptoms and management (Orbital mucormycosis) was delivered by Ms. Sayali Amberkar, Senior Resident, Dept of Ophthalmology. She gave a detailed explanation of the invasion of the disease and its progression to nose, sinus, eyes and CNS. The warning symptoms were briefly highlighted, including the general features in the 4 stages of rhino orbito cerebral mucormycosis. She concluded the session emphasizing the importance of multidisciplinary approach in ROCM wherein both medical, surgical and nursing management plays a vital role.

Session 2 (Part 2) on Symptoms and management (Rhinocerebral mucormycosis) by Ms. Aathira Thomas, Senior Resident, Dept of ENT, was focused on pathogenesis of mucormycosis in the nose, sinus and CNS. She emphasized on the importance of identifying and keeping a high risk of suspicion to diagnose the patient and implement appropriate line of management for the same. She highlighted the importance of nurses being very vigilant and observant during a clients hospital stay and also ensuring proper practice of protocols regarding oxygen administration.

Session 3 on Diagnostic considerations in mucormycosis (Investigations and sample collection) Dr. Deepashri Naik, Associate Professor, Dept of microbiology, gave a detailed overview of diagnostic approaches in COVID 19, wherein the importance of punch biopsy, fungal stain and culture, histological examination, CT scan, biopsy and other blood parameter assessment such as XBC, ABG, RBS was emphasized.

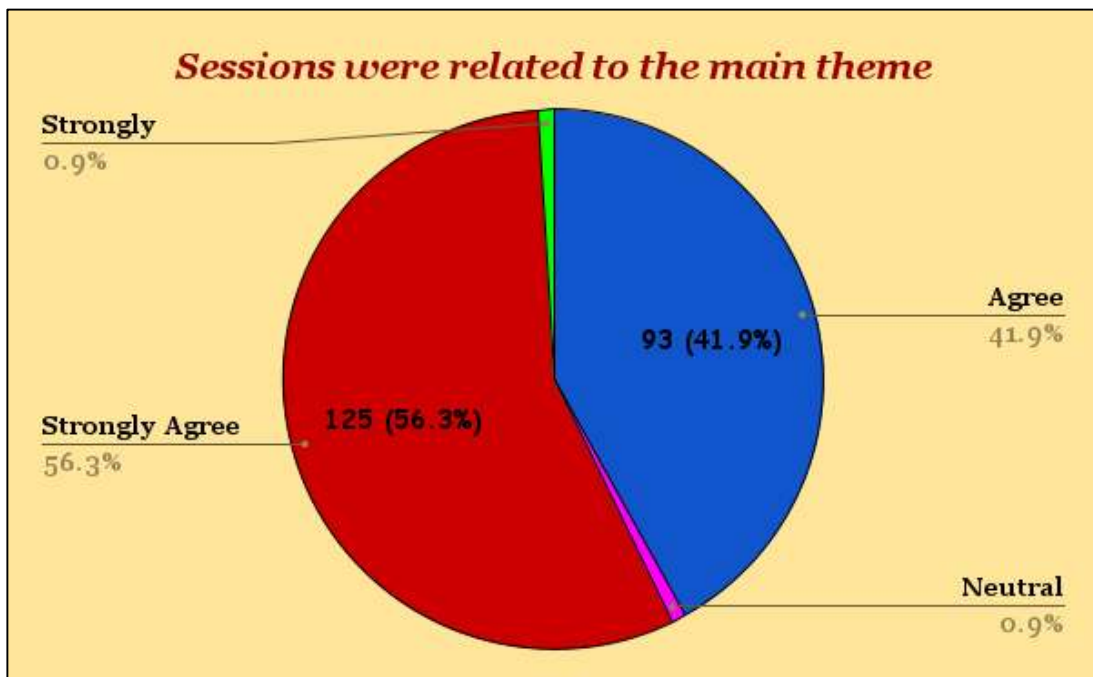
Session 4 on Preventive strategies and standard operating protocol adherence in mucormycosis by Mrs. Priyanka A. Khedekar, Infection Control Nurse, MGM Hospitals, Kamothe focused on the general preventive strategies for mucormycosis. The session emphasized more on the standard operating protocols to be strictly adhered in mucormycosis such as do's and don't's during oxygen administration for COVID positive patients.

Valedictory function was done by Mrs. Sarika Nair Tutor, MGM New Bombay College of Nursing, Kamothe by 12.45 pm

Report of the Webinar
“All About Mucormycosis in COVID 19”
08.06.2021

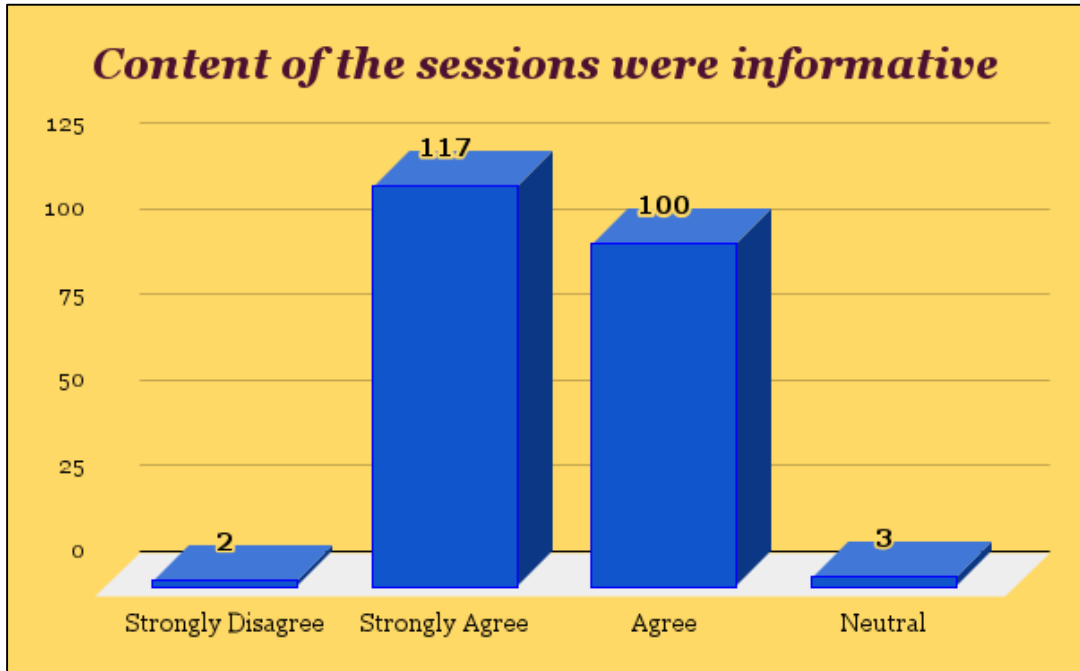
Feed Back Analysis

The Webinar was attended by 373 participants. Feedback was obtained from 222 participants. The feedback scoring was on a 5 point Likert scale, with highest score (5) indicating as strongly agree and lowest score (1) strongly disagree.

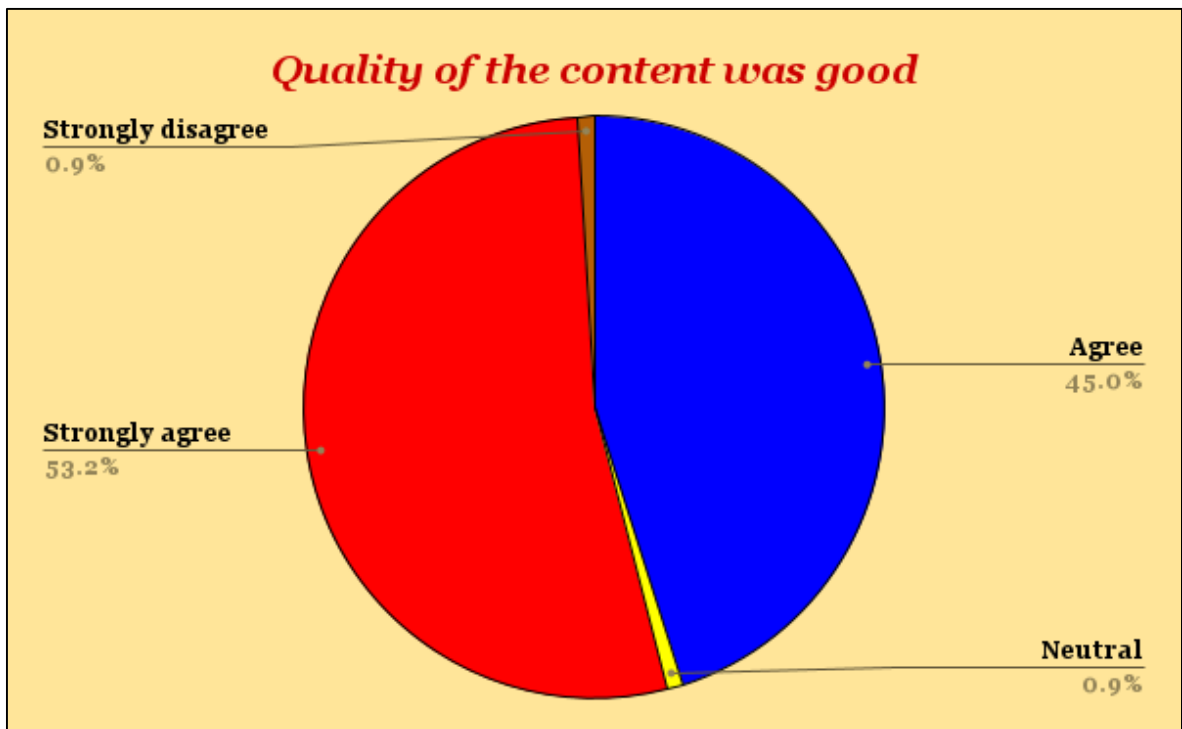


Majority of participants (56.3%) strongly agreed that the sessions were related to the main theme.

Feed Back Analysis

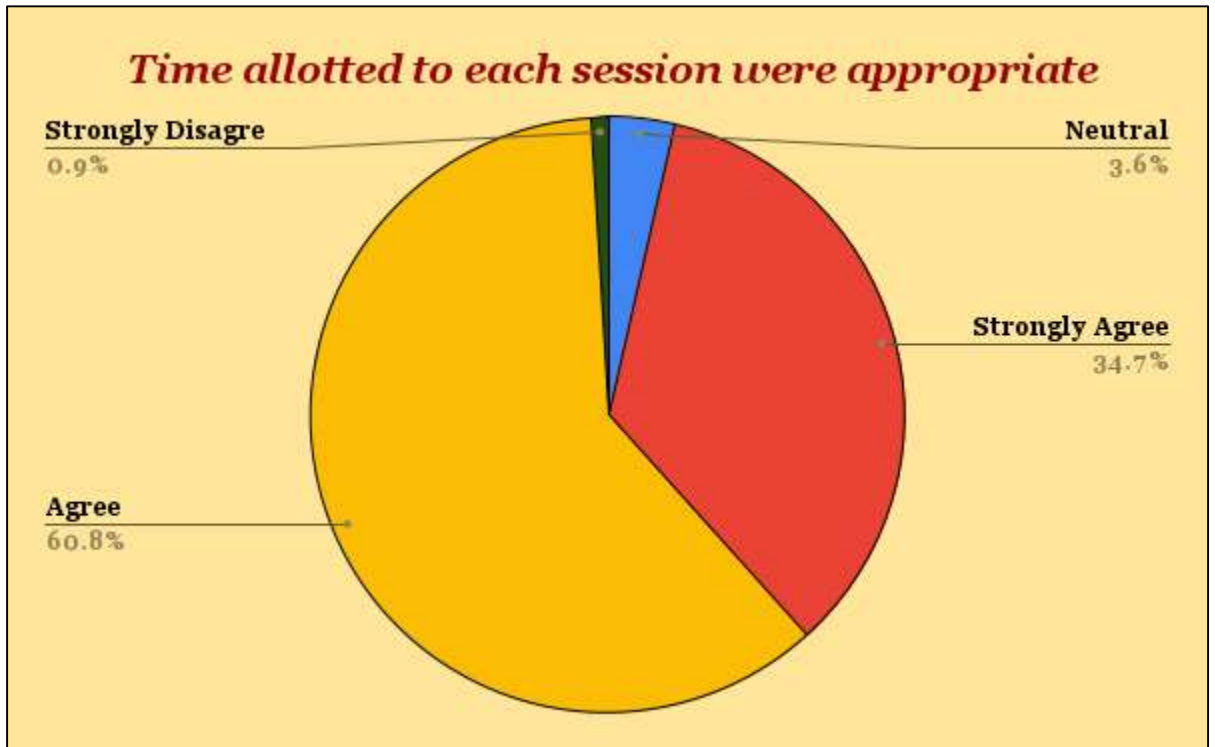


Majority of participants (117) strongly agreed that the content of the sessions were informative

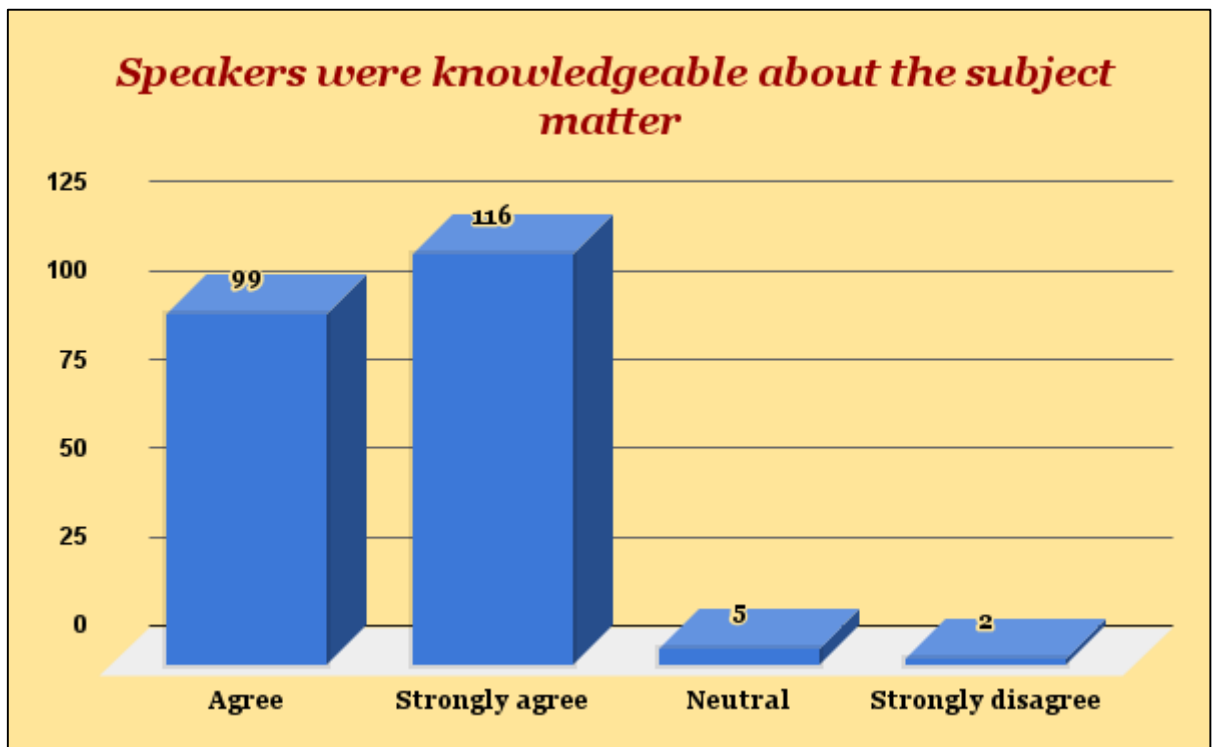


Majority of participants (53.2%) strongly agreed that the quality of the content was good.

Feed Back Analysis

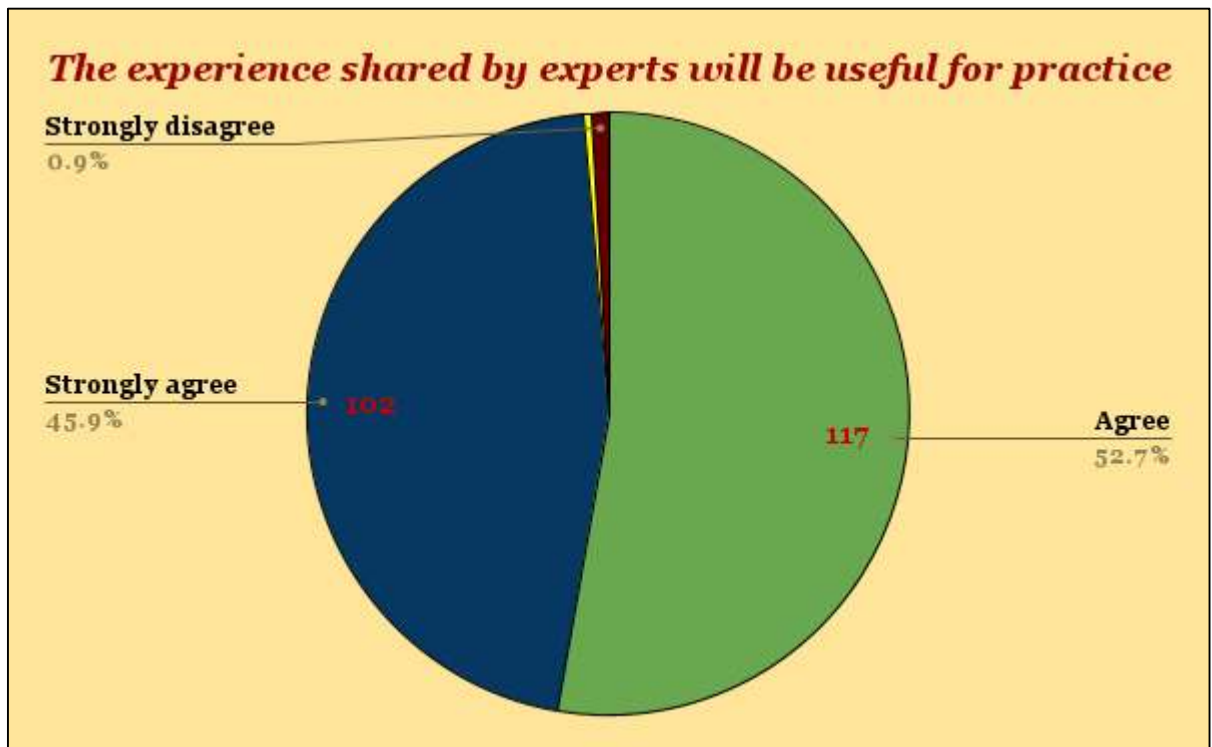


Majority of participants (60.8%) strongly agreed that the time allotted to each session were appropriate

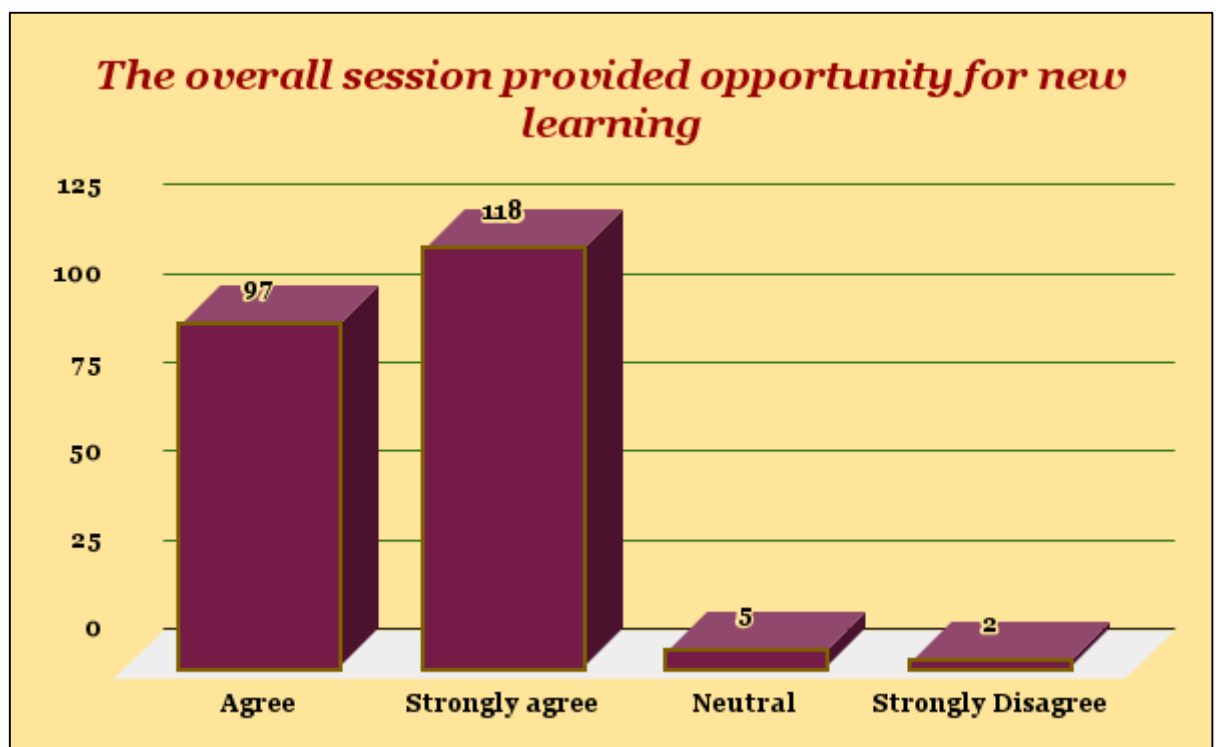


Majority of participants (116) strongly agreed that the speakers were knowledgeable about the subject matter

Feed Back Analysis



Majority of participants (52.7%) agreed that the experience shared by experts will be useful for practice



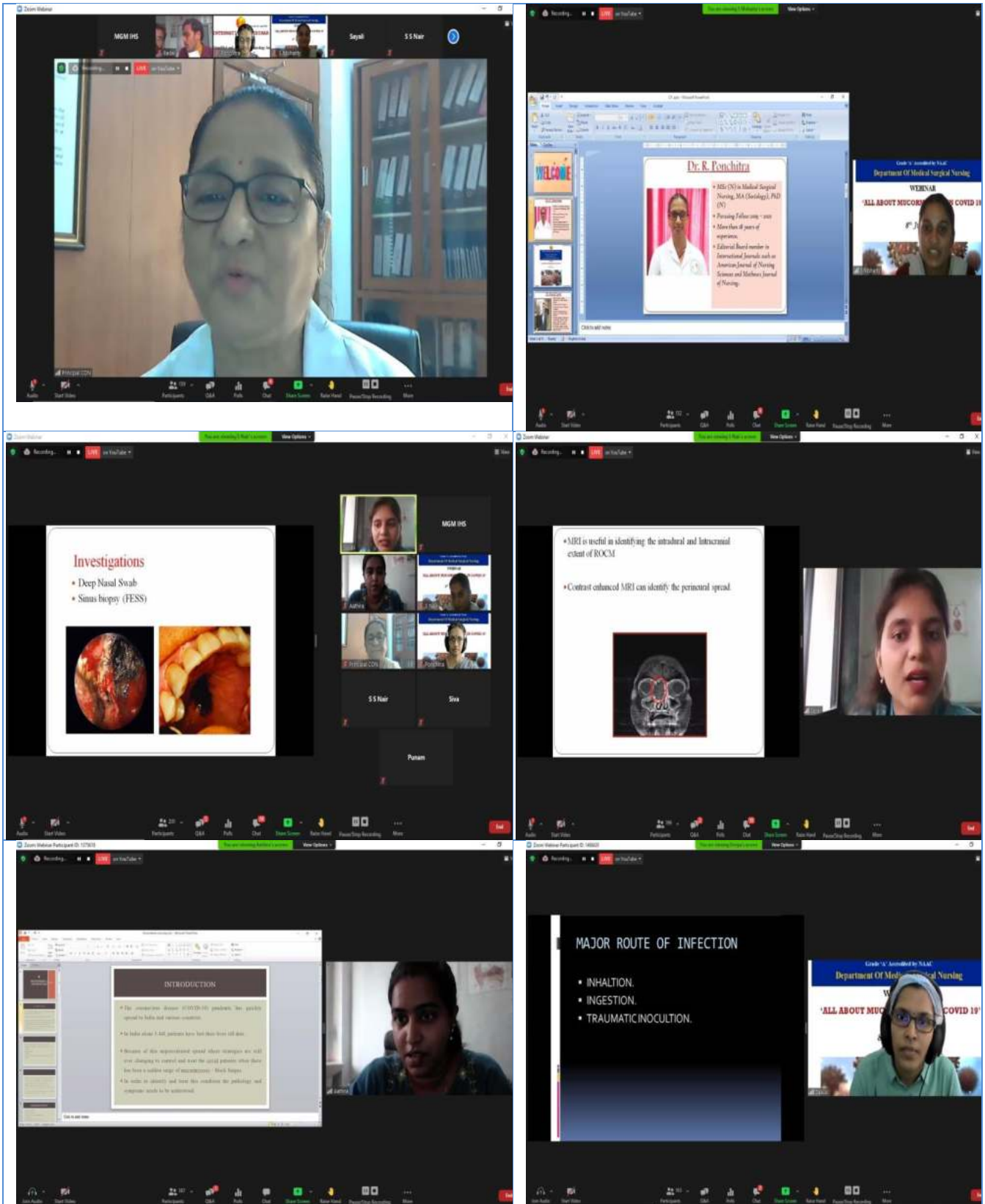
Majority of participants (118) strongly agreed that the overall session provided opportunity for new learning

Report of the Departmental Webinar

“All About Mucormycosis in COVID 19”

08.06.2021

Glimpse of the webinar



Prevention

Use of Mask

Detailed Health History Symptoms & Physical Examination

Panam

Principal CON

Priyanka

Dipa

S S Nair

Sanjita

MUCORMYCOSES REFERS TO INFECTION CAUSED BY FUNGI IN THE ORDER OF MUCORALES IN THE SUBPHYLUM MUCOROMYCOZOTA.

MUCORMYCOSES IS A HIGHLY INVASIVE AND PROGRESSIVE FUNGAL INFECTION RESULTING IN HIGHER RATES OF MORBIDITY AND MORTALITY

S S Nair

Siva

Panam

INTRODUCTION

- The coronavirus disease (COVID-19) pandemic has spread globally and remains persistent.
- It has led to over 7.5 million deaths from over 200 countries.
- Because of this unprecedented spread, where strategies are still being developed to control and track the global pandemic, there has been a notable surge of opportunistic "Hot Spots".
- It is vital to identify and track this outbreak for public health and emergency needs to be addressed.

S Nair

Sayali

S S Nair

Siva

S S Nair

Punam

Siva



