



MAHATMA GANDHI INSTITUTE OF MEDICAL SCIENCES, SEVAGRAM

COVID-19 training for medical officers and staff nurses REPORT

Date: 20 -21 Sept, 22-23 Sept, and 24-25 Sept 2021(for staff nurses)

Organizing Secretary/ coordinator: Dr Anuj Mundra

Number of delegates: 88 (27 + 31 + 30)

Key topics: Epidemiology of COVID-19, microbiological aspects of SARS-CoV-2, sample collection, protocols for management of adult and pediatric patients, Mucormycosis, COVID-19 vaccination, post-COVID management, IPC in COVID-19, data management along with hands on sessions

Key resource persons:

- Community medicine: Dr Anuj Mundra, Dr Ashwini Kalantri, Dr Amey Dhattrak, Dr Arjunkumar Jakasania
- Medicine: Dr Madhura Joshi, Dr Sumedh Jajoo, Dr Preetam Salunkhe,
- Pediatrics: Dr Payal Meshram, Dr Sridhar Jadhav, Dr Anurag,
- Microbiology: Dr Deepak Thamke, Dr Anjali Patond,
- ENT: Dr Prakash Nagpure, Dr Deepika Garg
- Anesthesia: Dr Benhur Premendran, Dr Dhiraj Bhandari

Funding agencies: Government of Maharashtra

REPORT OF THE WORKSHOP

Training for COVID-19 preparedness and capacity building was held for medical officers and nursing staff of the district health system by faculties from MGIMS, Sevagram. Three such trainings were held out of which two were for doctors and the last one being for nursing staff (on 20 -21 Sep, 22-23 Sep, and 24-25 Sep 2021). A total of 88 participants were there in the training. The training was done keeping in mind the possibility of a third wave of COVID-19 and prepare the health system staff to handle the inflow of patients in such situation. The participants were curious about the possibility of a third wave and how to prevent a wave was also discussed. The participants were also curious regarding the changing characteristics of the virus and the effect it had on symptomatology during the infection.

Among the issues discussed were epidemiology of COVID-19. The evolution of new variants and the changing severity, virulence etc. of the newer strains were also discussed by faculty from community medicine department. This was followed by explaining to them the microbiological aspects of the virus and issues related to pathophysiology in COVID-19 infection. They were also demonstrated the collection of nasopharyngeal and oropharyngeal swab, storage, transportation for RT-PCR testing, and biomedical waste management.

This was followed by the discussion on the symptoms and signs a patient may present and how to examine these patients and looking for important signs related to respiratory distress so as to classify the patient as per the severity of the condition. Faculty from medicine department then discussed the management protocol of adult disease for mild, moderate and severe disease as per the latest Govt. of India guidelines. Similarly, faculty from pediatrics department trained them on symptomatology and management of pediatric patients. As the number of Mucormycosis cases surged during the second wave of the pandemic, a session on risk factors, diagnosis and management of mucormycosis was taken by the faculty from ENT department.

The participants were also briefed regarding the vaccines available against COVID-19, their effectiveness and side effects, possibility of newer vaccines being introduced and regarding the guidelines issued by the government in this regard.

On day 2 of the workshop, anesthesiologists took session on managing oxygen supply, estimating the oxygen need among the patients. They also took session on management of post covid complications. Infection prevention and control measures like sterilization and disinfection of surfaces and instruments, handling of hazardous materials, donning and doffing of PPE etc were discussed by the microbiologists. Dr Ashwini kalantri then discussed regarding the data management and daily reporting of COVID related information as per the need of the government and the existing guidelines.

The participants were then divided in two batches. Both the batches went to the ICUs, one in pediatric ICU and the other one to Medicine ICU. Demonstration and hands on practice was given to the participants regarding management of severe cases of COVID-19. This included intubation, suction, oxygen supply and maintenance, providing ventilatory support, nursing care etc.