AMC DENTAL COLLEGE AND HOSPITAL

ACADEMIC YEAR 2020-2021

VALUE ADDED COURSE ON RAPID ANTIGEN TESTING FOR COVID19 SURVEILLANCE

1. Nomenclature of the Course:

Value added course on **RAPID ANTIGEN TESTING TRAINING FOR COVID19 SURVEILLANCE**

2. Background

The SARS-CoV-2 Antigen Rapid Diagnostic Test User Training Workshop is intended for healthcare and laboratory workers who will be collecting samples and performing testing at clinical facilities using theSARS-CoV-2 Antigen Rapid Diagnostic Test(RDT).The objective of the workshop is to ensure thathealthcare and laboratory workers are equipped with the theoretical and practical knowledge to collect samples, conduct SARS-CoV-2 Antigen RDT testing, interpret and record results, and understand the implications of results for patient management safely and accurately. A supplementary module on self-testing is provided for healthcare workers supporting access to self-testing in their settings. The workshop concludes with a competency assessment for training participants.

3. Objectives of program

This workshop aims to cover both theoretical and practical aspects of COVID-19 RT-PCR testing, providing hands-on training, case studies, quality assurance techniques, and proficiency assessments to ensure participants gain comprehensive knowledge and skills in conducting accurate and efficient RT-PCR tests for COVID-19 detection.

4. Offering Institute and Faculty:

The Course is offered by Amc Dental College And Hospital,Ahmedabad

5. Duration of the Course

The total duration of the course is 18 hours

6. Who Can Participate in the Course

The dental students, interns, post graduates at Amc Dental College and Hospital can participate in the course.

7. Admission Process of the Course

All students at Amc dental college is eligible to the course.

8. Course Fee: There will be no fee for the course

9. Award of Certificate

The students completing 80 % attendance will be awarded the course completion certificates.

10. Course Content

Day 1: 8 hours

Foundation and Practical Aspects of Rapid antigen testing

Session 1: Introduction to COVID-19 rapid antigen Testing

- **Principles of RT-PCR**: Understanding the scientific principles behind rapid antigen testing for COVID-19.
- **Role of rapid antigen testing in Diagnosis**: Explaining the significance and accuracy of RT-PCR in detecting SARS-CoV-2.

Session 2: Specimen Collection and Handling

- **Sample Collection Techniques**: Detailed explanation and demonstration of proper nasopharyngeal swab and sample collection procedures.
- **Sample Transport and Preservation**: Guidelines for proper transport and storage of collected specimens.

Day 2: 5 hours

Session 3: Biosafety and measures for bio medical waste management

- Understanding the required laboratory infrastructure and biosafety measures.

Session 4: Performing the practical demonstration

The objective of the practical demonstration is to familiarize the participants with:

- biosafety for sample collection and testing, including risk assessment
- nasopharyngeal sample collection
- preparation of disinfectants
- recording room temperature
- performing the SARS-CoV-2 Antigen RDT(s)
- interpreting SARS-CoV-2 Antigen RDT test results
- recording results in the SARS-CoV-2 Antigen RDT Logbook
- managing COVID-19 patients in their setting

Day 3: 5 hours

Performing practice session

1. For the user practice session, assign participants to their workstations.Have them don the PPE provided and perform the nasopharyngeal sample collection as instructed. Each participant should perform the procedure twice. The trainer/facilitator should support each participant until they show competency in performing the procedure.
2. After sample collection, have the participants perform the SARS-CoV-2 Antigen RDTs using the swab theycollected. If positive and negative swabs are available, these may be used. If reconstituted controls are available, these may be used, but it is important to observe the participant performing the test procedure with the swab.
3. Each participant should perform the test procedure three times. The trainer/facilitator should support each participant until they show competency in performing the procedure.
4. Remember that the proficiency test materialsare potentially biohazardous. The user practice **must** be conducted wearing PPE and adhering to all safety guidelines. One trainer should not oversee more than five participants during the user practice.
5. Emphasize that participants must follow theSARS-CoV-2 Antigen RDT "Instructions for Use" for guidance. Participants **must not** try to remember the procedure.
6. During the incubation step (typically 15 minutes), re-emphasize the workstation setup, make-up of disinfectants, recording of room temperature and waste disposal.
7. After the SARS-CoV-2 Antigen RDT has been completed, have the participants record their result on the SARS-CoV-2 Antigen RDTResult Recording Sheet and in the SARS-CoV-2 Antigen RDT Logbook.
1. Using the SARS-CoV-2 Antigen RDT Reading Sheet, have the participants interpret the test results and discuss the management of COVID-19 patients in their setting.

2. Conclude the user practice sessionby having the participants disinfecttheir workstation and doff their PPE.

Session 5: Conclusion and Certificates

- **Workshop Recap**: Summarizing key learnings and insights gained from the three-day workshop.
- **Certificates of Completion**: Providing certificates to participants for successful completion of the Rapid antigen testing training workshop.

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