

AMC DENTAL COLLEGE AND HOSPITAL

VALUE ADDED COURSE ON COVID 19 RTPCR SAMPLE COLLECTION FOR COVID 19 SURVEILLANCE

ACADEMIC YEAR 2020-2021

1. Nomenclature of the Course:

Value added course on covid 19 RTPCR sample collection For covid 19 surveillance

Background:

The SARS-CoV-2 RTPCR training package is a structured comprehensive collection of training resources and tools to enable relevant institutions to organize, run and evaluate training of trainers and/or training of health workers who will be performing SARS-CoV-2 testing. Materials can be adapted and customized based on national guidelines and target group of participants. The training addresses the theoretical and practical components of SARS-CoV-2 RTPCR testing and provide trainees with the skills and resources on how to safely perform SARS-CoV-2 RTPCR testing. Additionally, a supplementary module on self-testing is provided for healthcare workers supporting access to self-testing in their settings

2. 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.

3. Offering Institute and Faculty:

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

4. Duration of the Course

The total duration of the course is 20 hours

5. Who Can Participate in the Course

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

6. Admission Process of the Course

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

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

8. Award of Certificate

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

9. Course Content

Day 1: 8 hours

Foundation and Practical Aspects of RT-PCR Testing

Session 1: Introduction to COVID-19 RT-PCR Testing

- **Principles of RT-PCR:** Understanding the scientific principles behind RT-PCR testing for COVID-19.
- **Role of RT-PCR 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: 6 hours

Session 3: RNA Extraction and Processing

- **RNA Extraction Protocols:** Hands-on training on RNA extraction techniques from collected specimens.
- **Quality Control Measures:** Implementing quality control steps during RNA extraction.

Session 4: RT-PCR Setup and Protocols

- **Laboratory Setup for RT-PCR:** Understanding the required laboratory infrastructure and biosafety measures.
- **RT-PCR Testing Protocols:** Step-by-step guidance through RT-PCR testing protocols.

Day 3: 6 hours

Advanced Techniques and Interpretation

Session 6: Quality Assurance and Control

- **Quality Assurance Procedures:** Understanding quality control measures during various stages of RT-PCR testing.
- **Troubleshooting:** Addressing common issues and troubleshooting techniques in RT-PCR procedures.

Session 7: Data Analysis and Interpretation

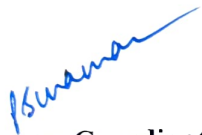
- **Data Analysis Software:** Introduction to software used for data analysis in RT-PCR testing.
- **Result Interpretation:** Interpreting RT-PCR results and understanding positive, negative, and inconclusive outcomes.

Session 8: Reporting and Regulatory Compliance


- **Reporting Procedures:** Guidelines for accurate and comprehensive reporting of RT-PCR results.
- **Regulatory Compliance:** Understanding regulatory standards and compliance requirements in COVID-19 testing.

Session 9: Conclusion and Certificates

- **Workshop Recap:** Summarizing key learnings and insights gained from the two-day workshop.
- **Certificates of Completion:** Providing certificates to participants for successful completion of the RT-PCR training workshop.


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