AMC DENTAL COLLEGE AND HOSPITAL

ACADEMIC YEAR 2019-2020

VALUE ADDED COURSE ON DATA COLLECTION FOR COVID 19 SURVEILLANCE

1. Nomenclature of the Course:

Value added course on DATA COLLECTION FOR COVID 19 SURVEILLANCE

2. Background

COVID-19 is an ongoing pandemic, which has already claimed millions of lives worldwide. In the absence of prior information on the pandemic, the governments can use generated testing data to drive policy decisions. Thus, a one-stop repository is essential to ensure sharing of clean, de-duplicated, and updated records to all the stakeholders. As the number of cases increased, there was a need for a data management system to ensure reliable and up-to-date data to drive policy decisions. Thus, the data management team at ICMR initiated the development of a national COVID-19 testing data management tool that is currently maintaining all the data in a central hub. the team trained in managing COVID 19 data will analyze the challenges faced and the strategies used to ensure a seamless flow of data to the system and its real-time analysis.

3. Objectives of program

This comprehensive three-day workshop aims to equip participants with the knowledge and practical skills necessary to collect, manage, analyze, and interpret COVID-19-related data effectively, ensuring accurate information for decision-making and policy formulation. The hands-on exercises and case studies offer practical experience and application of data collection techniques in a pandemic scenario·

4. Offering Institute and Faculty:

The Course is offered by AMC dental college

5. Duration of the Course

The total duration of the course is 18 hours

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

7. Award of Certificate

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

8. Course Content

Day 1: 8 hours

Understanding COVID-19 Data Collection and Management

Session 1: Introduction to COVID-19 Data Collection

- **Overview of Data Collection in Pandemics**: Understanding the significance of accurate data collection during health crises.

- **Types of Data Collected**: Exploring various data types (epidemiological, clinical, testing, etc.) relevant to COVID-19.

Session 2: Data Collection Tools and Techniques

- **Data Collection Platforms**: Introducing different tools and software used for COVID-19 data collection.

- **Survey Design and Implementation**: Practical guidance on designing effective surveys and questionnaires for data gathering.

Session 3: Data Privacy and Ethics

- **Data Privacy Regulations**: Understanding privacy considerations and compliance requirements in handling COVID-19 data.

- **Ethical Considerations**: Discussing ethical guidelines in data collection and management.

Day 2: 6 hours

Session 4: Quality Assurance and Validation

- **Ensuring Data Accuracy**: Techniques for quality assurance and validation of collected COVID-19 data.

- **Data Cleaning Procedures**: Understanding the process of cleaning and preparing data for analysis.

Session 5: Hands-on Workshop: Data Collection Simulation

- **Practical Exercise**: Simulated data collection scenarios to practice using data collection tools and managing collected information.

- **Feedback and Guidance**: Providing guidance and feedback on data collection techniques during the workshop.

Day 3: 6 hours

Advanced Data Analysis and Interpretation

Session 6: Data Analysis Techniques

- **Statistical Analysis**: Exploring statistical methods for analyzing COVID-19 data sets.
- **Visualization Tools**: Introduction to visualization tools for presenting COVID-19 data effectively.

Session 7: Interpreting COVID-19 Data Trends

- **Trend Analysis**: Understanding how to identify and interpret trends in COVID-19 data.
- **Forecasting and Predictive Modeling**: Exploring methods for forecasting based on collected data.

Session 8: Reporting and Communication of Findings

- **Effective Reporting Practices**: Strategies for creating comprehensive reports based on COVID-19 data analysis.
- **Data Communication Skills**: Communicating findings to diverse audiences effectively.

Session 9: Risk Communication and Decision-Making

- **Risk Communication Strategies**: Discussing effective ways to communicate risks associated with COVID-19 data.
- **Data-Informed Decision-Making**: Understanding how data influences policy and decision-making.

Session 10: Case Studies and Group Discussions

- **Real-life Case Studies**: Analyzing case studies showcasing data collection and analysis strategies during the COVID-19 pandemic.
- **Group Discussions**: Engaging participants in discussions to apply learned techniques to hypothetical scenarios.

Session 11: Future Preparedness and Continual Learning

- **Adapting to Future Challenges**: Discussing strategies for continual improvement in COVID-19 data collection practices.

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