

AMC DENTAL COLLEGE AND HOSPITAL

VALUE ADDED COURSE ON ADVANCED CARDIAC LIFE SUPPORT

1. Nomenclature of the Course:

Value added course on **ADVANCED CARDIAC LIFE SUPPORT**

2. Background'

Advanced cardiac life support refers to a set of guidelines used by medical providers to treat life-threatening cardiovascular conditions. These life-threatening conditions range from dangerous arrhythmias to cardiac arrest. ACLS algorithms frequently address at least five different aspects of peri-cardiac arrest care: Airway management, ventilation, CPR compressions (continued from BLS), defibrillation, and medications.

3. Objectives of program

This comprehensive three-day ACLS training aims to equip healthcare professionals with advanced life-saving skills, practical simulations, and scenario-based learning to effectively manage cardiac emergencies in clinical settings.

4. Offering Institute and Faculty:

The Course is offered by AMC Dental College

The faculties and post graduates of oral surgery departmentat Amc Dental College and Hospital can participate in the course.

5. Duration of the Course

The total duration of the course is 24 HOURS

6. Who Can Participate in the Course

The students, Interns ,faculties and post graduates of oral surgery departmentat Amc Dental College and Hospital can participate in the course.

7. Admission Process of the Course

All students at AMC dental college are 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: 6 HOURS

Core Concepts and Techniques in ACLS

Session 1: Introduction to ACLS Principles

- **Overview of ACLS:** Understanding the rationale and critical components of advanced cardiac life support.
- **ACLS Algorithms:** Introduction to algorithms for managing cardiac arrest, bradycardia, tachycardia, and other emergencies.

Session 2: Recognition and Management of Cardiac Arrest

- **Cardiac Arrest Management:** Understanding the systematic approach to managing cardiac arrest situations.
- **High-Performance CPR:** Techniques and practices for high-quality CPR in adult patients.

Session 3: Airway Management and Ventilation

- **Advanced Airway Techniques:** Exploring advanced airway management including endotracheal intubation and supraglottic devices.
- **Ventilation Strategies:** Techniques for providing effective ventilation during resuscitation.

Day 2: 6 HOURS

Session 4: Hands-on Workshop: ACLS Simulations

- **Simulated Scenarios:** Conducting hands-on simulations of cardiac arrest scenarios.

- **ACLS Procedures Practice:** Participants engage in practical scenarios under supervised guidance.

Session 5: ACLS Pharmacology

- **Drug Therapies:** Understanding medications used in ACLS including antiarrhythmics and vasopressors.
- **Drug Administration Protocols:** Safe and effective administration of ACLS medications.

Day 3: 6 hours

Advanced Techniques and Scenario-Based Learning

Session 6: ACLS for Special Circumstances

- **ACLS in Special Populations:** Techniques and considerations for cardiac emergencies in special patient populations (e.g., pediatrics, pregnant patients).
- **Post-Resuscitation Care:** Management strategies for patients post-cardiac arrest.

Session 7: Rhythms Recognition and Defibrillation

- **Arrhythmia Recognition:** Identifying and interpreting various cardiac rhythms using ECG.
- **Defibrillation Techniques:** Practical use of defibrillators and cardioversion for managing cardiac arrhythmias.

Day 4: 6 Hours

Session 8: Team Dynamics and Communication

- **Team-Based Response:** Emphasizing effective teamwork and coordination during ACLS interventions.
- **Communication Skills:** Enhancing communication within the resuscitation team during critical situations.

Session 9: Advanced Simulation Scenarios

- **Complex Case Simulations:** Engaging participants in advanced scenarios involving multiple critical conditions.


- **Debriefing Sessions:** Analyzing and discussing simulation outcomes for improvement.

Session 10: Certification and Evaluation


- **ACLS Skills Assessment:** Evaluating participants' skills in ACLS scenarios and techniques.
- **Certification Criteria:** Criteria for ACLS certification and successful completion of the training.

Session 12: Certificates

- **Certificates of Completion:** Providing certificates to participants who successfully complete the ACLS training.


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