

Department of Nursing Administration Nursing Education

Course Outline

Advanced Electrocardiogram (ECG) Workshop

Course Title Advanced Electrocardiogram (ECG) Workshop

Course Duration

8 hrs (1 Day)

Please indicate if selected others:

Number of Run Per Year

1

Target Participants

- Registered Nurses
- Choose your target participant.
- Choose your target participant.

Pre-requisite: RNs must complete their Basic ECG course before enrol to Advance ECG course.

No. of Participants (Maximum number of participants allowed.)

• 20

Aim

- To provide the nurses with essential skills and knowledge in ECG rhythm interpretation.
- To be able to identify and management patient with ST Segment Elevation Myocardial Infarctions.



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Course Objectives

At the end of the workshop, participants will be able to:

- 1. describe the normal cardiac anatomy and physiology and normal electrical conduction through the heart.
- 2. identify and relate waveforms to the cardiac cycle.
- 3. state the indications for 12-lead ECGs.
- 4. state the types of leads and leads placement.
- 5. Identify normal and abnormal components on ECGs.
- 6. utilize a systematic process when approaching the interpretation of the ECGs.
- identify Patient Assessment and ECG characteristics associated with ST Segment Myocardial Infarctions and critical conditions.
- 8. respond appropriately to the types of ST Segment Myocardial Infarctions and critical conditions associated with changes in the 12-lead ECG.

Course Content Duration

1) Introduction to 12-lead ECG

1.5 hours

- The types of leads and its placement
- Axes of 12-lead ECG
- Systematic Approach to read 12-lead ECG
- 2) Identifications of Abnormal 12-lead ECG

2 hours

- Types of Myocardial infarctions
- Paced Rhythm
- Types of Heart Blocks
- Lethal arrhythmias



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3) Roles and Responsibilities of the Nurse

2 hours

- Identify the lethal arrhythmias on the 12-lead ECG
- Response appropriately to the lethal arrhythmia accordingly to hospital protocol
- 4) Case Studies Discussion

1 hour

5) Assessment and Evaluation

1.5 hours

Teaching Methodology (e.g.; Lecture, Video, Role play, Practical or Group discussion)

- Pre-reading
- Lectures
- Case Studies Discussion

Assessment Methodology (e.g.; Post-Test, Classroom Competency Assessment or Others)

MCQ Quiz

Theory Test Passing Score (if applicable)

NA

Trainers

- Senior Nurse Manager
- Advanced Practice Nurse



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Contact Person

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