

## Cardiac Services Clinical Courses

### 1. An Introduction to Cardiac ECG Monitoring

#### Course Overview:

This is an incisive foundation level course, particularly suitable for those using bedside or telemetry monitoring. The focus of this course is rhythm recognition and interpretation, it includes a practical workshop to consolidate the knowledge gained. This course contains an informative session on anatomy and physiology of the heart including the electrophysiology of the myocardium. It provides extensive training on Cardiac Rhythm analysis.

This course also covers in great detail abnormal atrial rhythms, abnormal ventricular rhythms, and atrio-ventricular blocks in great detail.

Candidates will practice their skills through a workshop session in the afternoon, which proves very popular.

This course is suitable for anyone with an interest in cardiac rhythm analysis or for newly appointed staff Medical/ Nursing to a Cardiac ward or Coronary Care Unit.

#### Topics Covered include:

- An introduction to Electrophysiology
- Normal Cardiac Rhythms
- Atrial Arrhythmias
- Ventricular Arrhythmias

Course manuals and workbooks are supplied.

Duration: One Day

## 2. Introduction to 12 Lead ECG

### Course Overview:

A foundation level course designed for nurses, technicians or doctors. The course focuses on good ECG technique and the recognition of cardiac ischaemia or myocardial infarction. Also included is a practical workshop to practice technique and interpretation of the 12 lead ECG. This course de-mystifies the 12 lead ECG. Candidates complete the course with a greater ease to assist them in clinical practice. During the course myocardium is covered including the electrophysiology also looking at Cardiac Rhythm analysis skills. An extensive part of the course explains Acute Coronary Syndromes in detail including identification of same on ECG. How the 12 lead recordings are derived is explained in detail, this assists greatly to understanding ECGs.

This course can be tailored to the ability of the candidates including more advanced aspects of Myocardial Infarction including Right Sided Ventricular involvement.

This course is suitable for anyone who has an interest in understanding 12 LEAD ECG and effectively diagnosing infarction or ischaemia.

### Topics Covered include:

- An introduction to Electrophysiology
- Recording the 12-lead ECG
- ST Analysis
- Defining the area of injury

Course manuals and workbooks are supplied.

Duration: One Day

### 3. Conduction Defects & Other Interesting ECGs

#### Course Overview:

This course is designed as a follow on from the foundation courses. It focuses on the conduction of disorders such as Right and Left Bundle branch block and other advanced concepts. This is a challenging and enjoyable course for clinical people who want more from cardiology. Often attended by Nurses who have extensive knowledge and background and who want to learn more advanced concepts. Bundle branch blocks are explained and demystified, they are taught in a systematically and simple way. Candidates complete the course with the skills necessary to share with others and to understand the concept. Bifascicular Blocks are covered in detail. Other interesting ECGs cover the newer and more advanced ECGs including long QT Syndrome.

#### Topics Covered include:

- A review of Electrophysiology
- Bundle branch Blocks
- Conduction disorders
- Left Ventricular Hypertrophy

Course manuals and workbooks are supplied.

Duration: One Day

#### **4. An Introduction to Non-Invasive Ventilation**

##### Course Overview:

This is an incisive foundation level course, particularly suitable for those using non-invasive ventilation. The focus of this course is around Type 1 and Type 2 respiratory failure, it includes a practical workshop to consolidate the knowledge gained. This course contains an informative session on anatomy and physiology of the lungs including detailed hands on blood gas analysis workshop. It provides extensive training on the non-invasive modes of ventilation. This course also covers in detail abnormal lung pathophysiology. Candidates will practice their skills through a workshop session in the afternoon, which proves very popular. This course is suitable for anyone with an interest in non-invasive ventilation or for newly appointed staff Medical/ Nursing to a Respiratory ward or department that would utilise non-invasive ventilation.

##### Topics Covered include:

- An introduction to Lung Anatomy and Physiology
- Normal Arterial Blood Gases
- Type 1 and Type 2 Respiratory Failure
- Modes of Non-Invasive Ventilation

Course manuals and workbooks are supplied.

Duration: One Day