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# INSTRUMENT STANDARD OPERATING PROCEDURE MANUAL

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College of Medicine



SAFETY AND LABORATORY COOMMITTEE, C.O.M, K.F.U.

**Prepared by**

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Revision Number	Approved by		
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**Document History**

Document Section	Details of Amendments	Date	Modified by (Initials)
SOP	First Draft on SOP for the operation of ECG CardioExpress SL6		

## **1.OBJECTIVE**

- ☐ The document describes the operation of ECG CardioExpress SL6



## **2.OVERVIEW OF INSTRUMENT:**

CardioExpress SL6 is a six-channel ECG reader that can be used to read and store as many as 200 12-lead ECG tests and can even send this information to the Sentinel Cardiology Information Management System as required. This reader is portable enough to work for home visits as well as hospital checkups. The SL6 has a full-size keyboard with many one-touch controls plus a sensor that can analyze heart rate variability and pacemaker functions. There are also measurement scales for adults and children and a built-in battery that can be recharged through an AC/DC power supply. This also has an internal thermal printer and an outside printer.

## **3.RESPONSIBILITIES:**

- ☐ It is the responsibility of designated personnel in the lab to train new staff and students on this procedure and to ensure adherence to this procedure under supervision.
- ☐ It is the responsibility of designated personnel (staff or Student) to follow the instructions of this procedure under supervision.
- ☐ The head of the physiology department must resolve any problem with the process and difficulties in using this SOP.

## **4.REFERENCES:**

- ☐ Operations Manual 073-0271-00 Rev A, Spacelabshealthcare.

## **5.DEFINITIONS**

**ECG:Electrocardiograph**

**HR:Heart Rate**

**aVF:Left Foot Augmented Lead**

**aVL:Left Arm Augmented Lead**

**aVR:Right Arm Augmented Lead**

**LA:Left Arm**

**LL:Left Leg**

**RA:Right Arm**

**RL:Right Leg**

**ID:Identification**

**AC:Alternating Current**

**BP:Blood Pressure**

## **6.SAFETY PRECAUTIONS**

- ☐ Wear gloves, a lab coat.

## **7.PROCEDURE FOR OPERATING of ECG CardioExpress SL6**

### **7.1.Turning on the instrument:**

- 1-Connect the power cord.
- 2-Connect the earth wire (when necessary).
- 3-Load the recorder paper.

- 4- Connect the patient cable to the patient cable socket on the right side of the unit.
- 5- Connect the lead wires of the patient cable to the electrodes.
- 6- Clean the electrode areas on the body surface with 75% alcohol.
- 7- Daub the electrode areas with gel evenly.
- 8- Attach all the electrodes to the patient.
- 9- Press switch on.

## **7.2.Entering Patient Information:**

Press F1 below Patient to open the Patient Information window

A. Typing Patient Information:

- 1) Press Tab to move the cursor to the textbox, and then fill in the textbox.
- 2) Pressing Tab can go to the next field, and pressing Shift + Tab can go to the previous field.

B. Selecting an Option:

- 1) Press Tab to highlight the list box.
- 2) Press F1 or F2 to select an option.

C. Closing the Patient Information Window:

- 1) Press Enter to save the information and exit the window.
- 2) Press Esc to close the window without saving the information.

## **7.3. Printing an Auto ECG Report:**

- 1) Press MODE to select AUTO. The hint AUTO is displayed on the LCD screen.
- 2) Press START/STOP to print an ECG report.
- 3) Pressing START/STOP again can stop printing the report.

## **7.4. Turning off the Instrument:**

- 1) Closing Interfaces Press Enter to exit any interface and save the information.
- 2) Press Esc to exit any interface without saving the information. Navigation Tips.
- 3) Press switch off.

### **7.5.Warning:**

**In order to use the Electrocardiograph safely and effectively, and avoid possible dangers caused by improper operation, please read through the user manual and be sure to be familiar with all functions of the equipment and proper operation procedures before use.**

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