

## Marquette CASE 16

**Purpose:** To outline the procedure for utilizing Marquette Case 15/16 equipment and duties of the technician assisting physician.

**Policy:** All stress tests shall be performed with a physician in attendance. Technicians shall prep patient and assist physician as needed. All procedures will be addressed to patient and any questions answered. Infection control and other procedures shall be followed.

**Procedure:**

1. Have patient sign consent form.
2. Patient PREP and Marquette Data Entry
  - a. Have patient remove upper clothing. Put on gown and tennis shoes. Answer any questions. Wash hands and apply any necessary PPE. Clean skin with alcohol and shave necessary areas.
  - b. Abrade epidermal layer with pumice pad.
  - c. Apply gel electrodes to patient by placing electrode to correct lead positions; lightly place electrode on skin and then run finger firmly around outer edge-depressing center of electrode will displace gel and not allow adhesive to bond with skin surface.
  - d. Apply lead wires and patient cable.
  - e. Secure patient cable.
  - f. Turn on Case 15 power-check all leads.
  - g. Depress Patient Info key, enter information as prompted.
    1. New patient, 1 or 2 yes, 3 or 4 no
    2. Target heart rate will be calculated 220 – age.
    3. Sex and Race – select corresponding numbers.
    4. Muse site and location – RETURN
  - h. BRUCE protocol will be displayed. If another protocol is desired, depress TRIM KNOB, turn left 1 time to MORE then turn left to the desired protocol then select protocol and PHASE.
3. Pre-exercise protocol
  - a. Obtain blood pressure in supine position
  - b. Depress PHASE to “supine”. Depress BP key and enter blood pressure reading. Depress 12 lead.
  - c. Depress PHASE to “standing”, then 12 lead.
  - d. Depress PHASE to “hypervent”, then 12 lead.
  - e. Demonstrate walking on treadmill by pressing TDML START the TDML STOP when finished.
4. Begin Test:
  - a. Have treadmill in HYPERVENT PHASE. ask patient to straddle the treadmill.
  - b. Select TDML START; treadmill ON.
  - c. Allow patient to walk until comfortable with procedure.
  - d. Depress PHASE to begin exercise.
    1. Treadmill will automatically advance according to protocol.
    2. To advance the next stage, depress NEXT STAGE.
    3. To remain at the same speed/grade press HOLD.
  4. To select a speed/grade not according to protocol:
    - a. Depress SPEED then turn trim knob to desired speed.
    - b. Depress GRADE then turn trim knob to desired grade

- c. Depress MAN to execute changes (protocol will display Manual)
  - d. Enter BPs as taken upon physician instruction
  - e. ECGs will print automatically.  
Press ARRHY key to automatically capture arrhythmias. Press RECALL for a delayed 7 second strip. Press RHYTHM for continuous. GRAPH STOP to abort strip.
  - f. 13 preset phrases will appear after EVENT key is depressed. Turn trim knob to select by depressing.
5. ENDPOINT-RECOVERY
- a. Press PHASE to discontinue exercise and advance to RECOVERY.
  - b. Speed will slow to 1 mph, Grade will decrease to 0.0 automatically.
  - c. Summaries, 12 lead averages, and a Trend will print automatically.
  - d. Continue RECOVERY until patient has returned to baseline.
6. FINAL REPORT
- a. Depress PHASE to advance to TEST END.
  - b. Enter reason for test termination.
  - c. Summaries, 12 lead averages, and a Trend will print automatically.
  - d. Disconnect patient and have patient dress.
  - e. Thank patient for cooperation and escort to waiting area for return home.
  - f. Extra reports can be selected to print or editing can be done at this time.
  - g. Clean area of all dirty supplies and ready area for next patient.
7. PREPARE PATIENT FILE
- a. Prepare patient file for report.
  - b. Place in the physician reading room for interpretation.

## **Reports**

### **Nuclear Stress Reports**

1. After completion of the procedure, all copies of testing data will be placed in the patient folder. This should include the following:
  - a. Consult sheet
  - b. Stress Test Data Sheet
  - c. Consent form
  - d. All print outs from the Marquette System
  - e. Requisition
2. The requisition will be attached to the outside of the folder with a paper clip.
3. The folder will be taken to the Physician reading room and placed in the designated place for interpretation.

4. After interpreted, the Heart Station secretary will type the report and return to the designated place in the Physician reading room to be red and signed.
5. After the report has been read and signed, the report will be edited in the Muse system. The original report will be destroyed and a copy of the Muse record is sent to the Medical Records and will be placed in the patient chart.
6. A copy of the test summary and report will be placed in an envelope for Nuclear Medicine to pick up.

#### Cardiac Stress Reports

1. After completion of the procedure, all copies of testing data will be placed in the patient folder. This should include the following:
  - f. Consult sheet
  - g. Stress Test Data Sheet
  - h. Consent form
  - i. All print outs from the Mac 12
  - j. Requisition
2. The requisition will be attached to the outside of the folder with a paper clip.
3. The folder will be taken to the Physician reading room and placed in the designated place for interpretation.
4. After interpreted, the Heart Station secretary will type the report and return to the designated place in the Physician reading room to be signed.
5. After the report has been signed, the report will be edited in the Muse system. The original report will be destroyed and a copy of the Muse record is sent to the Medical Records and will be placed in the patient chart.

REFERENCES: MARQUETTE ELECTRONICS Case 15 Operator's Manual

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