

VALLEYCARE
OLIVE VIEW-UCLA MEDICAL CENTER/HEALTH CENTERS
5B - INTENSIVE CARE UNIT
POLICY & PROCEDURE

NUMBER: 5034
VERSION: 1

SUBJECT/TITLE: USE OF TWELVE (12) LEAD ELECTROCARDIOGRAPHY MACHINE

MD ORDER: YES (X) NO ()

POLICY: Utilization of the 12 Lead ECG machine is encouraged and available to evaluate electrical systems of the heart. To aide in the diagnosis/differentiation of cardiac dysrhythmias and conduction defects, pacemaker malfunctions. The ECG machine must be cleaned after each patient use.

PURPOSE: To provide guidelines in the use of the 12 lead ECG machine.

DEPARTMENTS: Medicine, Nursing 5B - Intensive Care Unit

DEFINITIONS: Twelve (12) Lead Electrocardiography (ECG) provides information about the electrical system of the heart from 12 different views or leads. Common uses of a 12-lead ECG include diagnosis of acute coronary syndromes, identification of the dysrhythmias, and determination of the effects of medications or electrolytes on the electrical system of the heart.

PROCEDURE: See attached 12 lead ECG Competency Checklist

1. Place patient in relaxed supine position with arms resting by their sides
2. Prepares skin; clipping hair may be necessary
3. Identifies appropriate landmarks: Place limb/pericardial leads/electrodes
4. Applies leads/electrodes:

Limb:

Medial aspect of each lower leg

Outer aspect of each upper arm

Precordial:

V1- 4th ICS right Sternal border

V2- 4th ICS left Sternal border

V3- Horizontally between V2 and V4

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V4- 5th ICS MCL

V5- same horizontal plane as V4; at anterior axillary line

V6- same horizontal plane as V4; at mid axillary line

Note: ALL LEAD WIRES SHOULD BE PLACED SO THAT THEY HANG THE SAME DIRECTION

Cleaning the exterior surface

The exterior surface of the Philips PagerWriter TC70 12 Lead ECG machine can be cleaned and disinfected using the recommended cleaner or disinfectant. The ECG machine must be cleaned after each patient use.

1. Unplug the power supply.
2. Clean the surfaces using a soft cloth lightly dampened in a mild soap or detergent cleaning solution.
3. Wipe the surfaces with the disinfecting solution. PDI Super Sani Cloth is recommended.
4. Air dry or towel dry with a clean cloth.
5. Place a clean plastic cover over the ECG machine to indicate that equipment has been cleaned/disinfected and ready for use.

Cleaning the peripherals

CABLES AND CORDS ARE CLEANED IN THE SAME MANNER AS LISTED ABOVE

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| References: Manufacturer Owner's Manual AACN Procedure Manual for Critical Care 6 th Edition ValleyCare Olive View - UCLA Medical Center Department of Nursing Education, Competency Validation – 12 Lead ECG | |
| Approved by: Dennis Yick (Physician Specialist, M.D.), Jan Love (Clinical Nurse Director II) | Date: 02/24/2012 |
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