



## A. General Information

The Masimo Rad 57 is a non-invasive, arterial oxygen saturation, carboxyhemoglobin saturation monitor. It can be used on pediatrics and adults by selecting the proper infrared probe. SpO<sub>2</sub> measures oxygen saturation of hemoglobin and SpCO measures levels of carbon monoxide concentration in arterial blood. Measurements are read as a percentage of carboxyhemoglobin (SpCO).

## B. Procedure

1. Choose the appropriate probe and attach it to the unit.
2. Attach the finger probe to a finger as described, **1. Ring, 2. Middle, 3. Index**. Make sure the probe is positioned to allow the light to pass through the cuticle area of the nail. Remove dark nail polish.
3. Press the  button to power up the unit. Verify all front-panel indicators momentarily illuminate and an audible tone is heard. Wait for the oxygen saturation and pulse rate to be displayed.
4. Press the **DISPLAY** button to toggle between **SpCO** and the **SpO<sub>2</sub>** readings. The SpCO reading is displayed in “orange” with the indicator light illuminated in the top left corner of the unit.
5. Patients exhibiting signs and symptoms of respiratory distress will be treated per the appropriate protocol.
6. To turn power off press and hold  button for 2 seconds.

## C. Maintenance

### After Each Use

1. Clean unit with a soft cloth moistened in water or a mild soap solution.
2. If disinfecting is necessary, wipe surfaces of the unit with isopropyl alcohol.

### Batteries

1. Battery charge level is indicated by four LED indicators at the bottom of the front panel.
2. Use four “AA” alkaline batteries to provide up to eight hours of continuous use. Do not use any other type of batteries or power source to run the device. Non alkaline batteries may affect the accuracy of the meter. Batteries with more than 1.5 volts may damage the meter.
3. Remove the battery cover by depressing the small rectangular button at the bottom of the cover, and sliding the cover down off the bottom of the device.



4. Install the batteries in the directions indicated by the battery icons inside the battery compartment.
5. Replace the battery cover by sliding it back up from the bottom of the device until the rectangular locking button snaps back into position.

#### **D. Special Considerations**

1. Oxygen saturation values alone should not be used as the basis for assessing the clinical condition of the patient.
2. This device will not be used as a replacement or substitute for ECG based heart rate analysis and/or assessment of a pulse.