

A. Introduction

Infrared thermometers are "non-contact" thermometers designed to capture the temperature of the temporal artery from a distance of approximately 2 inches from the forehead. The temperature range for infrared thermometers is similar to tympanic thermometers. It is faster than oral or rectal thermometers and causes no discomfort to the patient.

B. Procedure

1. For the first use of the thermometer, wait at least 15 minutes for the device to warm up to the ambient temperature
2. Push back hair from the forehead
3. Wipe away, or have the patient wipe away any perspiration from the forehead.
4. Avoid any airflow such as a fan, air conditioning, wind or the patient's respirations.
5. Aim at the forehead over the right temporal region.
6. Depress the trigger from a distance of about 2 inches (5 cm) for 1 second.
 - a) When assessing more than one temperature, allow a minute interval between temperature measurements.
7. If there is a significant change in the ambient temperature due to a change in environment, allow 15 minutes for the thermometer to acclimate to the new, ambient temperature.

C. Maintenance

1. Protect the protective glass over the lens as it is very fragile and the most important part of the thermometer.
2. To clean the glass over the lens, use a soft cotton fabric with water or 70 proof isopropyl alcohol.
3. When the batteries are low and require to be changed, the LCD screen will display 'Battery.'
 - a) Remove the lid
 - b) Change the batteries only with AA alkaline batteries

D. Troubleshooting

1. To change the temperature of the between Fahrenheit and Celsius or vice-versa:
 - a. Press the Program Setting button to get the F1 function key



2. The screen displays the body temperature lower than 89.6F
 - a. In order to be able to take a body temperature, the function key F3 must be on 'Body mode.'
3. The screen displays the message 'HI'
 - a. The temperature is above the range that the thermometer is selected (>109F in Body Mode/>140F in Surface Temp Mode)
4. The screen displays the message 'LO'
 - a. The temperature is below the range that the thermometer is selected (<90F in Body Mode/<32F in Surface Temp Mode)
 - b. Reading may be interfered by perspiration, hair, airflow, etc.
 - i. Make sure that there is no interference with the infrared system of the thermometer