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Diploma in Pharmacy 1st Year

Human Anatomy & Physiology

Experiment

To record of body temperature by using IR thermometer at various locations.

Aim:

To record of body temperature by using IR thermometer at various locations.

Reference :

Dr. Gupta G.D , Dr. Sharma Shailesh , Dr. Sharma Rahul Kumar ,
“Practical Manual of Human Anatomy and Physiology” Published by Nirali
Prakashan , Pg.No 94 - 96

Apparatus Required:

IR thermometer

Theory :

Body heat in the form of infrared energy is measured by infrared thermometers. It is based on the principle that radioactive emission of bodies is used to measure accurate temperature of the radiating object from its emission spectrum, even without direct contact with it.

Infrared thermometers can be used in various industries and institutions for a variety of preferences. Some of the common applications are as follows.

1. To check liquid and semisolid foods on the spot.
2. To check the temperature of a pan, pot, or oven.
3. To inspect hospital patients on the spot

Procedure

Infrared thermometer may appear difficult to operate. To properly use Infrared thermometer follows these steps:

- 1) **Turn it On:** The infrared thermometer should be followed

- 2) **Choose Setting:** If thermometer allows, the appropriate setting should be selected for the measurements, for example, setting can be selected to appear in Celsius or Fahrenheit
- 3) **Hold:** The device should be held roughly about 6 inches away from the target.
- 4) **Point:** The thermometer should be pointed at the object plan on measuring.
- 5) **Hold the Trigger:** The thermometer's trigger should be held until it starts measuring the temperature
- 6) **Keep it Steady:** Thermometer should be held constantly till the result is not obtained. For the best results, it should be held steady and kept at the same distance as started measuring
- 7) **Record Results:** The results can be obtained within few seconds and they should be recorded once it is displayed on the thermometer.



Result: The body temperature was recorded by using IR thermometer at various locations.

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