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Diploma in Pharmacy 2nd Year

Community Pharmacy & Management

Experiment

To record capillary oxygen level using pulse oximeter

Aim:

To record capillary oxygen level using pulse oximeter.

Reference :

‘ Dr. Gupta G.D. , Dr. Sharma Shailesh, Dr. Gupta Richa, “Practical Manual of Community Pharmacy and Management” Published by Nirali Prakashan, Page no 29 – 32

Materials Required

Pulse oximeter

Theory :

A pulse oximeter is a device that measures the amount of oxygen in the blood (oxygen saturation). A pulse oximeter can be used to calculate blood oxygen levels.

It calculates the blood oxygen saturation and pulse rate using laser beams. The amount of oxygen carried in the blood is determined by oxygen saturation Without taking a blood sample, the pulse oximeter may determine the amount of oxygen in the blood

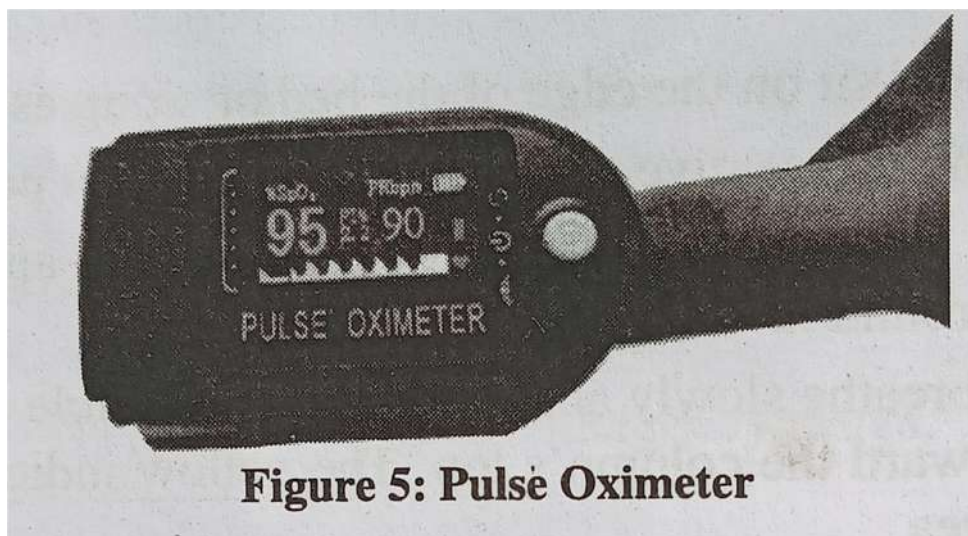


Figure 5: Pulse Oximeter

Procedure

- 1) Any nail polish/false nails should be removed and hand should be warmed (if cold).
- 2) Before taking measurement, resting should be done for at least 5 minute.
- 3) The hand should be relaxed at the chest at heart level and held still.
- 4) Oximeter should be switched on and placed on the middle or index finger.
- 5) The oximeter should be kept in place for at least one minute or longer if the reading is not stable as the reading may take time to steady
- 6) The highest result once it has not changed for 5 seconds should be noted.
- 7) Each reading should be identified carefully
- 8) Recording should be started from baseline and recording should be done three times a day and at the same time extra measures should be taken if any changes in the health are observed.

Observation

The average oxygen saturation level for most healthy individuals is 95% Hypoxemia. i.e., a major low level of oxygen in blood can be indicated by a level of 92% or lower.

Result :

Capillary oxygen level was recorded using pulse oximeter.