

ABSTRACT

Hypothermia is a condition that the core's temperature in our body is decrease (temperature of internal organs) . Hypothermia can also be definitioned as the temperature less than 35° C . The human body can regulate the temperature in thermonetral zone (36⁰C – 37,5⁰C) . Beyond this temperature , the response of the body to regulate temperature will balance the heat production and the heat loss in the body . Hypothermia occurs when there is a decrease of the body temperature below 35° C . At this temperature , the body's physiological compensatory mechanisms fail to keep the body heating.

This tool is designed automaticlly that the tool will work when the patient temperature is less than 37° C. The system will automatically shut down if the body temperature is 37 ° C and the buzzer will be sounded to indicate that the process is finish. The blanket is a special blanket that can be used for one-time (disposable) .

This ' Automatic Blanket Warmer ' is measured by using a thermometer to measure the temperature . The values of the comparison between temperature measurement and thermometer are not much different based the measurement that have been done. The value of the error is 1,9 % as measured in patients . Based on the experiments , testing tools , and general data collection can be concluded that the ' Automatic Blanket Warmer ' can be used .

Keywords: Blanket, Hypothermia, Temperature .