

## RESEARCH ARTICLE

## Impact of oxygen saturation on attached earlobe

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## ABSTRACT

The objective of the present study was to correlate peripheral oxygen saturation with attached earlobe. The subjects were 200. All subjects were the students.

**Keywords:** Hemoglobin binding, Earlobe, Saturation

## INTRODUCTION

In the field of medicine oxygen saturation is used to measure the hemoglobin (Hb) binding sites in the blood. While  $O_2$  level is low down, then Hb will be deoxygenated. The red blood cells collect  $O_2$  in the lungs and then distribute towards the body.<sup>[1-5]</sup> The pulse oximeter is a technique which is worn to estimate the oxygen bound to Hb in the blood. The pulse oximeter consists of a gadget which cut off to the body and relocates its calculations to a reading meter by wire or wirelessly. The light-emitting diodes are worn to measure the absorption of red and infrared light in the margin. The reckoning will be occurring by the difference in the oxygenated and deoxygenated adsorption. The similarity of Hb to oxygen may get better oxygen evolved at the tissue level. The pH and body temperature are inversely proportional to each other; hence, when pH is reduced, body temperature is amplified when the Hb has superior resemblance for oxygen, a lesser amount of it is existing to the tissues. The situations, for example, lessened 2,3-DPG will amplify oxygen binding to the Hb and also maximum value of its liberate to the tissue. The human earlobe has connective tissue. Frequently, lower lobe is close to sides of face. The unattached

earlobes are dominant over attached earlobe. It is not a genetic trait. The attached earlobe is exceptional trait occurs in some person. The negative blood group's person has no chance of attached earlobe. However, it is reverse in positive blood group system.

## MATERIALS AND METHODS

Peripheral oxygen saturation ( $SpO_2$ ) is an estimation of the oxygen saturation level usually measured with a pulse oximeter device. Where  $HbO_2$  is oxygenated Hb and Hb is deoxygenated Hb.<sup>[6-10]</sup>

## Statistical analysis

The statistical analysis was performed using M. Stat.

## RESULTS AND DISCUSSION

The impact of oxygen saturation on attached earlobe is given in Table 1. This table shows that

**Table 1:** Correlation of normal blood oxygen level (mean±standard deviation) with attached earlobe

Gender	Attached earlobe	Unattached earlobe	P-value
Male	95.9±5.9	96.3±5.3	0.8
Female	96.8±4.4	94.5±6.4	0.01*
Both	96.4±4.7	94.5±6.1	0.03*

\* $P>0.05$

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*P* value for female is significant. The male has less chance of attached earlobe. The blood oxygen level has impact on attached earlobe.

## CONCLUSION

It was concluded from the present study that normal blood oxygen level has a significant relation with attached earlobe.

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