



# Is There Any Relation between Normal Body Temperature and Dimple on Chin?

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## Abstract

Relation between normal body temperature and dimple on the chin is the main objective of this study. A total of 130 undergraduate students participated in this research activity. All the subjects were undergraduate students in Bahauddin Zakariya University, Multan, Pakistan. Normal temperature of the body was calculated by using thermometer. It was concluded from the study that there was no relation of normal temperature of the body with the dimple on the chin.

**Keywords:** Normal temperature of body; Dimple on chin; Fever; Cleft on chin

## Introduction

The “ordinary” body temperature is 98.6°F (37°C). This number is just a normal. Our body temperature might be somewhat higher or lower. A body temperature perusing that is above or beneath the normal doesn’t naturally mean we’re debilitated. Various elements can impact our body temperature, including our age, sex, day time, and movement level. As we grew older, our body becomes less efficient to regulate temperature. Older people have less temperature of body because their bones have less stamina to bear the environmental factors that effect on their body. In babies, the normal temperature of body ranges from 97.9 °F to 99 °F. In adults, the normal temperature of body is 97 to 99 °F and for the adults with age above 65 has body temperature less than 98.6 °F. Remember that ordinary body temperature fluctuates from individual to individual. Our body temperature may be up to 1°F higher or lower than this. The specialists called attention to that our bodies will in general warm for the duration of the day. Thus, a fever in the early morning may happen at a lower temperature than a fever that seems later in the day. The main factor is not the time of the day that can impact temperature. More youthful individuals will in general have higher normal body temperatures. This is on the grounds that our capacity to manage body temperature diminishes with age. Physical action levels and certain nourishments or beverages can likewise impact body temperature. Ladies’ body

temperatures are impacted by hormones too and may fall or rise at various focuses during a lady’s menstrual cycle.

Body temperature readings change contingent upon where on the body an individual takes the estimations. An infant’s temperature is higher because they have a bigger body surface region in respect to their body weight. Their bodies are likewise more metabolically dynamic, which creates heat. Infant bodies don’t direct temperature just as grown-up bodies. They sweat less when it is warm, implying that their bodies hold more warmth. It might likewise be progressively troublesome for them to chill them off amid a fever. A region of the cerebrum called the nerve center controls body temperature. On the off chance that body temperature transcends or plunges beneath the 37°F imprint, the nerve center kicks in to control the temperature. In the event that the body is excessively cool, the nerve center sends signs to make the body shudder, which warms the body up. In the event that the body is excessively hot, it sends messages to start perspiring, which gives heat a chance to leave the body. Contaminations cause generally fevers. A fever creates as the body’s normal method for responding to and battling disease. Fever occurs when the normal temperature of the body fluctuates and it reaches to the 100 or above 100°F. Side effects include hunger misfortune, a cerebral pain, touchiness, muscle hurts, shuddering, perspiring, shortcoming. Temperature

of the body is a proportion of the body's capacity to produce and dispose of warmth. There are 4 different methods by which we can take the temperature of the body. These include below armpit (axillary strategy), inside the mouth (oral technique), in the ear (tympanic technique) and in the rectum (rectal technique). The rectal reading or reading taken by ear might be higher than the oral reading but the reading taken by the armpit will be lower than the oral one. The most suitable methods from all of them is the reading taken by the rectum.

The cleft on the chin happens in light of the fact that the muscle that shows up around the jawbone neglects to close at the jaw, subsequently leaving a hole and is in fact viewed as a blemish. Dissimilar to cheek dimples, which speaks to energy and honesty, a jaw dimple is viewed by most ladies as ugly as they think having such is more manly than ladylike. There are various approaches to improve the presence of the profound separated jaw. A standout amongst the most well known and most clear courses is to utilize dermal fillers to fill in the jawline dimple. Dermal fillers can be utilized to fill the hole making a progressively female appearance. In Persian writing, a dimple on the chin or jaw pit is viewed as the characteristic of magnificence. The term 'chin pit' or 'jaw well' is a similitude alluding to the pit or well into which a head over heels sweetheart has fallen and is caught. The terms split chin, jaw separated, dimple on the chin, or jaw dimple, allude to a dimple on the focal point of the jaw. It is a Y-molded gap on the jaw with a fundamental impossible to miss space on the bone itself. The jawline gap pursues the gap that is on the lower jaw bone that came about because of the inadequate combination of the left and right parts of the jaw bone, or the muscle, amid the embryonal and fetal advancement [1].

For a few people, a cleft on the chin can create after some time, since one portion of the jaw is longer than the other, prompting

facial asymmetry. The cleft on chin or separated jaw is an acquired quality in people, where the predominant genes causes a split jawline, while the recessive genotype will display without a cleft on the chin. Everybody acquires two arrangements of genes that decide the state of their jaw, with one from each parent. The accomplice's hereditary makeup will factor into whether the kids will have a parted jaw or a smooth one. If the two parents have acquired two separated jawline genes, at that point the probability of the youngsters having a cleft on the chin is 100 percent [2]. Relation between normal body temperature and dimple on the chin is the main objective of this study.

## Materials and Methods

### Measurement of Normal Body Temperature

For measuring the normal body temperature eat home, we need a digital thermometer. The digital thermometer showed the body temperature of the individual in points as 97.02 °F. We measured the normal temperature of the body of all the students with thermometer by placing it in the armpit. While some students placed it in the center of the arm. There was an ON button on the thermometer. Press the button and the thermometer will show the reading after one minute. Note down the reading on the thermometer.

### Task Design

A total of 130 undergraduate students participated in this research activity. All the subjects were undergraduate students in Bahauddin Zakariya University, Multan, Pakistan. The purpose of research was to correlate the normal body temperature with dimple on the chin.

### Data Analysis

MS-Excel was used to done data analysis.

## Results

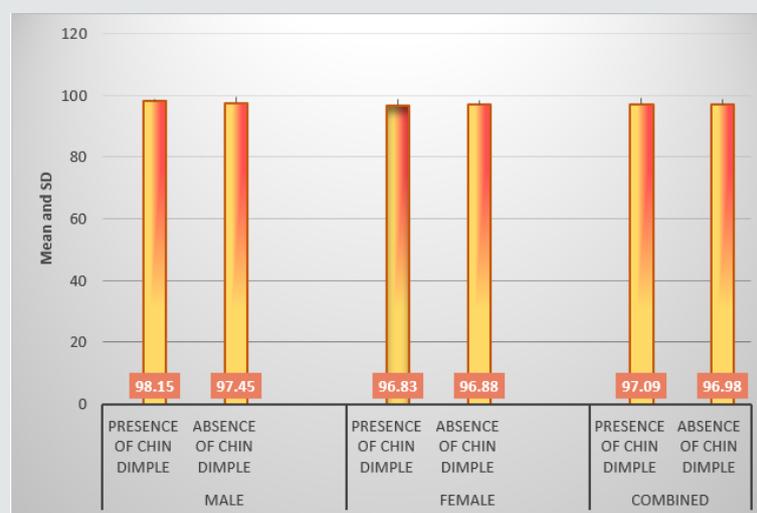


Figure 1: Relation of normal body temperature and dimple on chin (Mean  $\pm$  SD).

**Table 1:** Relation of normal temperature of the body and dimple on the chin (p value).

p value	Male	Female	Combined
	0.2	0.8	0.7

$p > 0.1$  these are non-significant results.

Relation of normal temperature of the body and dimple on the chin is given in (Figure 1) and (Table 1). These figures showed that there was no significant relation of the normal temperature of the body and dimple on the chin as all the p values were higher than the significant value that was 0.1. The high ratio of presence of chin dimple was in males but there was no significant relation with the normal body temperature.

## Discussion

Important advancement had been made by recent researches [3-11]. Levander et al. [10] did an investigation on the temperature of the body in men and women. They observed the rectal, oral, tympanic and axillary temperature of the body. The motivation behind this examination was to research ordinary body temperature in grown-up people. A methodical audit of information was performed. Studies were incorporated that was from 1935 to 1999. Articles were named strong, genuinely strong and weak proof. While condensing contemplates with strong or genuinely strong proof the range for oral temperature was 33 to 38 Celsius, rectal temperature was 34 to 37 Celsius, tympanic temperature of body was 35 to 37 Celsius and axillary body temperature was 35 to 37 Celsius. The range in oral temperature for people, separately, was 35 to 37 Celsius and 33 to 38 Celsius, body temperature in rectal was 36 to 37 Celsius and 36 to 37 Celsius, and temperature of body in tympanic was 35 to 37 Celsius and 35 to 37 Celsius. While surveying body temperature it is critical to happen of estimation and gender orientation into thought. Concentrates with arbitrary examples are expected to affirm the scope of typical body temperature as for gender orientation and age.

Action of Salicylate on the normal temperature of the body in rats was also studied by Satinoff [11]. Rats accepting intraperitoneal

infusions of sodium salicylate demonstrated a decrease in rectal temperature of up to 5 degree Celsius when set in a 5 Celsius area. The portion of salicylate was by the body load as 30 to 300mg. Elevated amounts of salicylate brought down the temperatures of rats kept in a 23 Celsius condition. The verdict that salicylate can bring down non-feverish temperature of the body recommends that antipyretic specialists affects routine temperature direction.

## Conclusion

It was concluded from the study that there was no relation of normal temperature of the body with the dimple on the chin.

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