



Is there any Relation of Dimple on the Chin with Urine Nitrates?

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Abstract: *Urine contains different types of chemicals called as nitrates. The entrance of bacteria in the urinary tract cause the conversion of urine nitrates into nitrites. The bacteria which cause the infection of urinary tract are E. coli and some gram-negative bacteria. Cleft chin or dimple on the chin can be inherited from the parents or grandparents. This is the Y shaped cleft on the chin that is caused by the genetics in humans. Muscle of the mentalis fails to fuse and it leaves a gap. The main objective of this study is to correlate the urine nitrates with dimple on the chin. A total of 100 subjects participated in the research. All the subjects were undergraduate students in Bahauddin Zakariya University, Multan, Pakistan. The relation of nitrates in urine with chin dimple was observed. Urine test was done to check the nitrates level. It was inferred from the study that people with absence of chin dimple has high ratio of absence of urine nitrates in them. So there is no relation of urine nitrates with the dimple on the chin.*

Keywords: *Urine nitrates, Chin dimple, Urinalysis, Urinary tract.*

1. INTRODUCTION

Urine contains different types of chemicals called as nitrates. The entrance of bacteria in the urinary tract causes the conversion of urine nitrates into nitrites. The bacteria which cause the infection of urinary tract are E. coli and some gram-negative bacteria. These bacteria release an enzyme called as urease that acidify our urine. These bacteria infect the kidneys, bladders and ureters in the body and they release an enzyme that leads to the conversion of nitrates. The presence of these nitrites is the symptom of infection in urinary tract. This infection mostly occurs in women due to their short length of the urethra. This leads to the inflammation of these parts as urethra, kidneys. The presence of nitrates can be checked by the urinalysis. The symptoms include the burning, change in color or foul smell of the urine. If this infection of urinary tract is not properly treated, then it will lead to serious complications in the body. These complications might include fever, chill, low back pain or side pain. A patient with infection of urinary tract is prescribed with antibiotics to treat this infection. Some actions often cause decrease in the urinary tract infection. By drinking adequate amount of water on daily basis can flush out the bacteria out of the urinary tract. Pure cranberry juice is also used for the treatment of infection. Apple cider vinegar mixed with water helps to treat infection.

Cleft chin or dimple on the chin can be inherited from the parents or grandparents. This is the Y shaped cleft on the chin that is caused by the genetics in humans. Muscle of the mentalis fails to fuse and it leaves a gap. All the cleft chin and dimple on the chin are not same, cleft is more prominent than the dimple on the chin. Cleft is a deep fissure on the chin while the dimple is a slight hollow portion in the chin. People who have this are the attention seekers and they are powerful and entertaining.

The main objective of this study is to correlate the urine nitrates with dimple on the chin.

2. MATERIALS AND METHODS

2.1. Measurement of Urine Nitrates

Urine test was done to check the presence of urine nitrates. Urine sample was taken in the collection container and it was filled up to the mark. The strips were dipped in the sample for 2 to 3 seconds and

then after the appearance of colors, the strip was matched with suggestion chart present on the container. Note down the results.

2.2. Task Design

A total of 100 subjects participated in the research. All the subjects were undergraduate students in Bahauddin Zakariya University, Multan, Pakistan. The relation of nitrates in urine with chin dimple was observed. Urine test was done to check the nitrates level.

2.3. Statistical Analysis

Statistical analysis was performed by using MS Excel.

3. RESULTS

Table 1 and **2** showed the relation of chin dimple with urine nitrates. In Table 1, normal value of nitrates was more in people with absence of chin dimple in them. In Table 2, male and female with absence of chin dimple had positive value of urine nitrates present in them.

Table1. Relation of urine nitrates with dimple on the chin

Chin Dimple	Positive Urine Nitrates	Negative Urine Nitrates
Presence	0%	17%
Absence	4%	79%

Table2. Relation of positive value of urine nitrates with dimple on the chin

Chin dimple	Presence of chin dimple	Absence of chin dimple
Male	0%	100%
Female	0%	100%

4. DISCUSSION

Radomski, Palmiri and Lee Hearn did a study on the concentration of nitrates in humans. Urine nitrates were analyzed and they observed that nitrate level in drinking water is the reason of concentration of nitrates in urine.

Robert Cox and Frank did a study on determination of nitrate and nitrite in blood and urine. Methodology was developed to check their presence. Reduction to nitric oxide takes place and differentiation between them is done by selection of agents for reduction and different conditions.

5. CONCLUSION

It was inferred from the study that people with absence of chin dimple has high ratio of absence of urine nitrates in them. So there is no relation of urine nitrates with the dimple on the chin.

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Citation: Muhammad Imran Qadir, Noor Arif, "Is there any Relation of Dimple on the Chin with Urine Nitrates?" *International Journal of Research Studies In Biosciences (Ijrsb)*, Vol. 7, no. 6, pp. 17-19, 2019. <http://Dx.Doi.org/10.20431/2349-0365.0706004>

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