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Research Article

Role of Urine pH on Rate of Nail Growth

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Abstract

Urine is that the liquid result produced using the human's digestion and creatures. pH of fecal matter demonstrates and characterizes urine whether urine weaken is corrosive or base goals. Ordinarily pH differ is seven. On the off chance that there's pH not up to seven its mean waste is acidic and pH size of pee will increment once pH is bigger than 7. The filtrate from the fine vessel blood commonly fermented by kidneys from a pH of seven to six inside the fecal matter it relies on the general population's corrosive base standing. Nails are a critical segment of body. These are found on the tip of fingers and toes. Nails are one in everything about two tissues that don't debase once demise of the individual, the choice being hair. These contain genuine, keratinized squalors cells that are inexactly associated with the fundamental tissue. The objective of present study was to confirm the role of urine pH in nail growth. Table 1 and 2 both show the highest percentage with slow nail extension which means that subjects with slow nail growth has acidic urine or acidity or basicity of urine effects the growth of nails, subjects with low urine pH has slow nail growth like in 16 to 20 days and this phenomenon has been shown equally both in males and females. This study concluded that subjects with acidic urine has slow nail growth, and this phenomenon is observed in both males and females.

Keywords: Ph Of Urine; Nails Structure; Ph Effect on Nails

Introduction

Urine is that the liquid result produced using the human's digestion and creatures. pH of fecal matter demonstrates and characterizes urine whether urine weaken is corrosive or base goals. Ordinarily pH differ is seven. On the off chance that there's pH not up to seven its mean waste is acidic and pH size of pee will increment once pH is bigger than 7. The filtrate from the fine vessel blood commonly fermented by kidneys from a pH of seven to six inside the fecal matter it relies on the general population's corrosive base standing. Chiefly pH ranges from four.6 to 8. The kidneys perpetually endeavor to keep up the customary pH inside the feces by natural procedure of metal (Na) and empty discharge of gas and smelling salts particles. Regularly fermented waste is caused once there's abundance amount of nuclear number 11. Bicarbonates are found inside the soluble stool. Primarily the waste Acidic pH found in pathology, uncontrolled polygenic malady, lack of hydration and starvation and digestion ailments. Basic fertilizer pH found inside the hindrance of tract, pathology of excretory organ empty, endless disappointment and ventilation in digestion infections. In non-veggie lovers' their pH will in general be acidic of stool. For the most part, microorganism is liable for the contamination of tract and that they feces basic because of breakdown carbamide into smelling salts and diverse basic stock. The administration of pH is very vital for the patients of bacteriuria and medication therapeutic guide. Fertilizer pH is said with the dream of excretory organ stones. Physiological response additionally can cause a high pH in your fecal matter. Right prescriptions and nourishments are utilized for patients to modify the pH endlessly proportional back the conceivable outcomes of solidification arrangement. The acidic weight control plans that occasionally we will in general eat are

angles, grain, soft drink and high super molecule sustenance and basic eating regimens grasp barmy, vegetable, generally natural products. To put it plainly, the pH of fecal matter demonstrates the strength of an individual and tells what's going on in your body.

Nails are a critical segment of body. These are found on the tip of fingers and toes. Nails are one in everything about two tissues that don't debase once demise of the individual, the choice being hair. These contain genuine, keratinized squalors cells that are inexactly associated with the fundamental tissue. Nails contain a few parts like proximal nail crease, distal end, Lateral nail overlay, fingernail skin, Lunular, hyponychial, and network. Nails development more often than not starts in ninth embryonic week and at sixteenth embryonic week; there are particular nails at the proximal completion. Nail plate is framed at its proximal completion. Nails are vital among the ID of the numerous ailments because of trademark indication of an evil wellbeing is typically observed over the nail plate. Signs identified with the nail plate are ordinarily partitioned into a couple of assortments upheld the change in its life systems or the shading. Pale alter the nail portrays frailty while chromatic staining may even be a normal for side effect. Spoon formed nails that are named as Koilonychias are found in iron insufficiency frailty. In the event that there's loss of point among nail and nail bed, it's named as side effect. It's commonly found by embedding a paper over the nail and search for any hole between the paper and furthermore the proximal end of nail plate. There's no house at the proximal nail plate and paper, if indication is there. Side effect is seen in numerous ailments like digestion ailments, vas ailments and channel ailments. Blood gathering at a lower place the nail plate that else's named as chip hemorrhages is commonly observed in irresistible cordites.

The objective of present study was to confirm the role of urine pH in nail growth.

Material and Methods

Dipstick test break down the distinctive segments of urine like pH, glucose, bilirubin, urobilinogen and explicit gravity. In the dipstick test, an example plastic container, strip and shading outline are utilized. Every one of the subjects are told the strategy for urine. Subjects are given the plastic container with cover for gathering an example about portion of the glass. Subjects must wash hands legitimately and utilize the soggy fabric to clean the genital territory before taking the example. In the wake of gathering the example in container at that point subjects are given the strip to plunge in the example for few moments, and the shade of strips changes and afterward specialists break down the outcomes by contrasting the strip and the shading outline of various parts. Along these lines, we can check the particular pH of urine by contrasting hues.

Project design

We asked subjects if we are allowed to take their urine samples and examine it for different parameters. We told them about the protocol of taking the urine sample and then we collected their urine samples in a sterilized contamination free plastic bottle. We took urine testing strip and dipped in urine sample till end and allow it to settle for 3 to 4 seconds, when specific required colors generated on strip we matched colors with the reference color given on bottle cover, then we asked them about their nail development and note the data to correlate these two parameters. Total of 100 subjects participated in this research work and they were students of Bahauddin Zakariya university, Multan, Pakistan.

Statistical analysis

We calculated the percentages of all urine pH data obtained by their urine tests.

Results

Table 1 shows that male subjects with slow nail growth has urine pH which is 6 and acidic in nature, and subjects with fast nail growth show less percentage in acidic pH as compared to subjects which has slow nail growth.

Nail growth days in males		pH data		
	6	7	8	9
1-5 days	86%	6%	4%	4%
6-10days	94%	6%	0%	0%
11-15days	96%	4%	0%	0%
16-20days	100%	0%	0%	0%

Table 1: Role of Urine pH in Nail Growth in males.

Table 2 shows that female subjects with slow nail growth has urine pH which is 6 and acidic in nature, and subjects with fast nail growth show less percentage in acidic pH as compared to subjects which has slow nail growth, they also show the same results like male subjects.

Nail growth days in females		pH data		
	6	7	8	9
1-5 days	84%	4%	4%	6%
6-10days	92%	4%	3%	1%
11-15days	96%	4%	0%	0%
16-20days	98%	0%	2%	0%

Table 2: Role of Urine pH in Nail Growth in females.

Discussion

Table 1 and 2 both show the highest percentage with slow nail extension which means that subjects with slow nail growth has acidic urine or acidity or basicity of urine effects the growth of nails, subjects with low urine pH has slow nail growth like in 16 to 20 days and this phenomenon has been shown equally both in males and females.

Earlier researches gave us information that nail growth and blood group was correlated and we found the role of blood group in nail growth, role of urine pH has been discussed in this article and it concludes that acidic pH tends to slow nail growth both in male and female subjects. This correlation of both variable is a novel research, no recent work has been found regarding this study [1-10].

Conclusion

This study concluded that subjects with acidic urine has slow nail growth, and this phenomenon is observed in both males and females.

Bibliography

1. Qadir MI and Javid A. "Awareness about Crohn's Disease in biotechnology students". *Global Advanced Research Journal of Medicine and Medical Sciences* 7.3 (2018): 062-064.

2. Qadir MI and Saleem A. "Awareness about ischemic heart disease in university biotechnology students". *Global Advanced Research Journal of Medicine and Medical Sciences* 7.3 (2018): 059-061.

3. Qadir MI and Ishfaq S. "Awareness about hypertension in biology students". *International Journal of Pharmaceutical Research* 7.2 (2018): 08-10.

4. Qadir MI and Mehwish. "Awareness about psoriasis disease". *International Journal of Pharmaceutical Research* 7.2 (2018): 17-18.

5. Qadir MI and Shahzad R. "Awareness about obesity in post-graduate students of biotechnology". *International Journal of Pharmaceutical Research* 7.2 (2018): 14-16.

6. Qadir MI and Rizvi M. "Awareness about thalassemia in post graduate students". *MOJ Lymphology and Phlebology* 2.1 (2018): 14-16.

7. Qadir MI and Ghalia BA. "Awareness survey about colorectal cancer in students of M. Phil Biotechnology at Bahauddin Zakariya University, Multan, Pakistan". *Nov Appro in Can Study* 1.3 (2018).

8. Qadir MI and Saba G. "Awareness about intestinal cancer in university student". *Nov Appro in Can Study* 1.3 (2018).

9. Bean WB. "Nail growth: thirty-five years of observation". *Archives of Internal Medicine* 140.1 (1980): 73-76.

10. Bean WB. "Nail growth: 30 years of observation". *Archives of internal Medicine* 134.3 (1974): 497-502.

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