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Research Protocol

Analytical Study to Observe the Effect of Aggressiveness on Urine Protein Level

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Abstract

Our research was to estimate the effect of aggressiveness on the level of proteins in the urine. For that purpose, we took 100 students presently studying in Bahauddin Zakariya University Multan, Pakistan. Urine test was performed to evaluate the proteins level in the urine, Proteinuria is a situation where an individual has an abnormal quantity of protein in the urine. It is a sign of kidney disorder. Normal kidneys do not let distinct quantity of protein to move through their filters. In some cases, kidney disorder cause damaging of filters that can cause proteins e.g. albumin to move from blood and leak into the urine. The normal level of protein in urine is not more than 30mg per gram. If protein level is greater than 30mg/g then the individual has kidney disease. Trauma, infections, drugs, toxins and abnormality in immune system also cause kidney damage thus leading to proteinuria. Aggressiveness is a kind of hostile behavior in which one person is harmed mentally or physically by another person. In some cases, aggression is given through words spoken by a person. This class of aggression cause many problems. It destroys the relation between persons. It was concluded from the current studies that mostly aggressive females had proteins in their urine. So, their aggressive behavior had some connection with the protein level in the urine. On the other side, mostly non-aggressive males had proteins in their urine. So, in this case non-aggressive behavior of males is linked with the urine protein level.

Keywords: Proteins; Urine Test; Aggressiveness; Hostile

Introduction

Proteinuria is a situation where an individual has an abnormal quantity of protein in the urine. It is a sign of kidney disorder. Normal kidneys do not let distinct quantity of protein to move through their filters. In some cases, kidney disorder cause damaging of filters that can cause proteins e.g. albumin to move from blood and leak into the urine. It may also be due to increase in the production of protein in the body. It has no symptoms but if the urine contains large quantities of protein then the urine becomes foamy in appearance. When a sufficient amount of protein is removed from the person's blood, there is decrease in the ability of body to maintain fluids. This causes swelling of feet, hands, face and abdomen. The normal level of protein in urine is not more than 30mg per gram. If protein level is greater than 30mg/g then the individual has kidney disease. Diabetes and hypertension damage kidneys thus leading to proteinuria. Trauma, infections, drugs, toxins and abnormality in immune system also cause kidney damage thus leading to proteinuria. Another cause is the increase in the protein production in the body. Obesity, age above 65 and inherited kidney disease are also risk factors of proteinuria. Treatment is based on its cause. If it is due to kidney disorder then treatment of kidneys is carried out. If the cause is diabetes or hypertension then different drugs are used for treatment.

Aggressiveness is a kind of hostile behavior in which one person is harmed mentally or physically by another person. In some cases, aggression is given through words spoken by a person. This class of aggression cause many problems. It destroys the relation between persons. Sometimes it damages a person physically if instruments like stick and others are used. Aggression is also controlled by genetic factors. A gene that is present on the X chromosome in humans is responsible for controlling it. Hot habitats had a strong impact on aggressiveness as compared to cold areas. Noisy areas also cause this behavior. Drugs like carbamazepine and depakote are prescribed if the person had uncontrollable aggressive behavior

Materials and Methods

We analyzed the level of proteins in the urine of persons. Urine analysis was done by allowing the students to collect urine in a small container of glass or plastic. After urine collection, urine analysis strip was dipped in the container having sample. After dipping strip for few seconds, we removed it from the container. The strip had different colors each corresponds to a different substance like protein, glucose and bilirubin etc. We compared the color band of protein on the strip with color range that is standard. Some students had proteins free urine while others had proteins in their urine.

Project designing

Our research was to estimate the effect of aggressiveness on the level of proteins in the urine. . For that purpose, we took 100 students presently studying in Bahauddin Zakariya University Multan, Pakistan. We performed urine test of persons to evaluate

their urine protein level. We also investigated students about their behavior. Some students said that they are aggressive while others were non-aggressive. Data was taken and connection between urine protein level and aggression was analyzed.

Results

It was analyzed from the above table that the percentage of aggressive females having no proteins in the urine is greater than that of aggressive females having proteins in urine.

Aggressive students				Non-aggressive students			
Gender	**Negative(no proteins)**	**100ng/dL**	**30ng/dL**	**Gender**	**Negative(proteins absent)**	**100ng/dL**	**30ng/dL**
Female	37%	1%	6%	Female	24%	0%	3%
Male	12%	0%	2%	Male	12%	2%	1%

Table 1: Connection of aggressive and non-aggressive behavior with urine protein level.

Gender	Aggressive students		Non-aggressive students	
	Proteins present	**Proteins absent**	**Proteins present**	**Proteins absent**
Female	9.8%	52.11%	4.22%	33.80%
Male	6.89%	41.37%	10.34%	41.37%

Table 2: Effect of aggressiveness and non-aggressiveness on urine protein level.

Discussion

Martina Brunati and some other scholars had already studied proteins in the urine before our investigation work. They identified an enzyme known as hepsin that is responsible for releasing uromodulin (a protein) into the urine [1-10].

Conclusion

It was concluded from the current studies that mostly aggressive females had proteins in their urine. So, their aggressive behavior had some connection with the protein level in the urine. On the other side, mostly non-aggressive males had proteins in their urine. So, in this case non-aggressive behavior of males is linked with the urine protein level.

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