

Urine analysis

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**Introduction :**

A urinalysis is a test of your urine. A urinalysis is used to detect and manage a wide range of disorders, such as urinary tract infections, kidney disease and diabetes . A urinalysis involves checking the appearance, concentration and content of urine. Abnormal urinalysis results may point to a disease or illness. Urine analysis could be done to check on persons health diagnose and monitor, In this report we will talk about some results of the urine analysis

**Data analysis :**

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| gender  | type | color | odor | blood | bilirubin | protein | nitrite | keton | glucose | pH | SG/density | leukocytes |
| f | normal | orange | aromatic | neg | pos | neg | neg | neg | 20 | 5 | 1.025 | Ca 25 |
| m | d | orange (cloudy) | aromatic | neg | 1(17)+ | neg | neg | neg | neg | 5 | 1.025 | neg |
| f | d  | orange | aromatic | neg | 1(17)+ | neg | neg | neg | neg | 5 | 1.03 | neg |
| f | over h | straw | aromatic | neg | 2 | neg | neg | neg | neg | 6 | 1.025 | 75 |
| m | over h | clear | aromatic | neg | neg | neg | neg | neg | neg | 7 | 1.005 | neg |
| f | over h | orange | aromatic | neg | neg | neg | neg | neg | neg | 7 | 1.015 | neg |
| f | normal | yellow | aromatic | neg | neg | neg | neg | neg | neg | 5 | 1.015 | neg |
| f | d | orange (cloudy) | aromatic | neg | neg | neg | pos | 1 | neg | 6 | 1.025 | Ca 5 |
| f | normal | yellow | aromatic | neg | 2 | neg | neg | neg | neg | 5 | 1.025 | neg |
| f | normal | yellow | aromatic | neg | neg | neg | neg | 1 | neg | 5 | 1 | neg |
| f | d | yellow | aromatic | neg | 1 | neg | neg | neg | neg | 6 | 1.3 | neg |
| f | normal | orange | aromatic | neg | 1 | neg | neg | neg | neg | 5 | 1.015 | neg |
| f | normal | yellow | aromatic | neg | neg | neg | neg | neg | 20 | 6 | 1.005 | neg |
| f | normal | yellow | aromatic | neg | neg | neg | neg | neg | neg | 7 | 1.01 | 25 |
| f | over h | clear | aromatic | neg | neg | neg | neg | neg | neg | 7 | 1 | neg |
| f | d | yellow | aromatic | neg | neg | neg | neg | 1 | neg | 6 | 1.015 | neg |
| f | normal | straw | aromatic | 250 | 1 | neg | neg | neg | neg | 5 | 1.025 | Ca 25 |
| f | normal | yellow | no odor | neg | neg | neg | neg | 1 | neg | 5 | 1.015 | neg |
| f | normal | orange | aromatic | neg | neg | neg | neg | 4 | neg | 5 | 1.025 | neg |
| f | d | orange | aromatic | neg | 2 | 30 | neg | neg | 20 | 5 | 1.03 | 75 |

**Results:**

Urine samples were taken from 20 subjects. To get a wide range of results, the subjects were split into 3 groups. One group was over hydrated, the next was dehydrated, and the last had normal intakes. Normally protein, blood, nitrite, ketons, and glucose are not found in urine. The test for these substances should come out to negative, however, one individual was found to have proteins present in the urine. Also one individual had nitrite in their urine. Lastly, 3 subjects were seen to have some glucose in their urine samples.

In the figure above, the average pH was taken from 4 individuals of each group (dehydrated, over hydrated, and normal). It is seen that the over hydrated individuals had higher pH then the rest.

**Discussion :**