



COW URINE

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Cow urine (Gomutra) lives in a special place and is known as living water or "Amrita. [1] Panchagavya Ghrita, is one of the most important. Panchgavya, a term used to describe the formation of five substances such as urine, milk, ghee, curd, all five products have medicinal properties and are used individually or in combination with other anti-inflammatory drugs [2] In Sushruta Samhita, they have been described as the most effective natural remedies in India. a treatment called Cowpathy or Panchgavya pathy has also been reported to be beneficial even for life-threatening illnesses such as diabetes, cancer, and AIDS. [4] Most oral hypoglycaemic agents, currently in use, produce side effects such as hypoglycemics coma and hepatorenal disorders. safety of most drugs the currently used GI is not available during pregnancy. [5] Therefore, there is an urgent need for the search of safer and more effective hypoglycaemic agents. Cow urine has been granted US Patents (No. 6,896,907 and 6,410,059) for its medicinal uses

Cow urine is a liquid by the product of the digestive process in cattle. Low urine is used as a medicine in various countries. there are many important benefits of cow urine such as the treatment of Indian Ayurvedic medicine. [6]. Gomutra is used as a compost in rice production. Jeevamruta is a fertilizer made from a mixture of cow urine, cow dung, rhizosphere soil and pulse flour. [7] A urine analyst plays an important role in diagnosing many serious illnesses. several medicinal properties of cow urine have been mentioned in shusruta and are known to cause weight loss, certain heart and kidney problems. Cow urine is an important content of

panchagavya containing cow urine, milk, ghee, curd and cow dung. [8] According to an ancient Indian medicine the cow's urine was known to be widely used as broad-spectrum antibiotics in the early twentieth century. [16] Cow's urine helps to get rid of toxins. and with the help of cattle urine several chemicals can be cleaned. Cow's urine increases body strength by increasing resistance to infections in the human body. In Sushruta Samhita, it has been described as the most successful natural phenomena. In India, drinking cow's urine has been practiced for thousands of years.

BIOCHEMICAL ANALYSIS OF COW URINE:



COW URINE CONTAINS THE FOLLOWING CONSTITUENTS

Water and minerals : 95% Urea : 2.5%

Enzyme: 2.5%

COW URINE ACT AS:

1) **Fungicide and bio fungicide**

Cow urine are highly stable and capable to prevent the growth of unwanted fungi responsible for causing dandruff for longer time .15%-20%

cow urine was most effective than *Aspergillus* and *Rhizopus*. Geer cow urine was most effective against antifungal activity.

2) Antiseptics

[10] 1% w/w nitroflurazone ointment locally uses as antiseptics .sangunal et al observed that the enhanced wound healing activity of cow urine in wistar albino rats.

3) Bioenhancer

[11] Cow urine is the only known agent of animal origin which act as bioenhancer and biostimulator of antimicrobial , antifungal ,and anticancer agent.

4) Immunostimulant:

Cow urine contain 24 type of mineral which are used for improving overall resistance of the body against infectious pathogen. Ancient book of

The biochemical analysis of cow urine has contained sodium, sulphur, nitrogen, multivitamin, minerals, irons, silicon, manganese, magnesium citrate, succinic calcium salt, phosphate, lactose, carbonic acid, enzyme, creatinine and hormones.

Basically, cow urine has multiple use but actual most important use is shown in following diagram along with PANCHAGAVY.

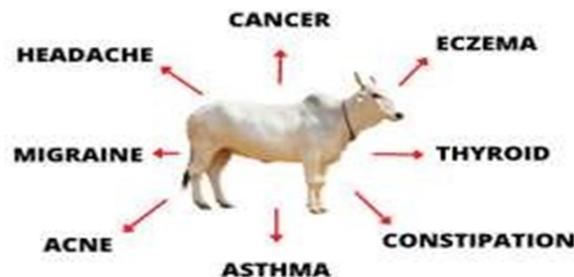


Image2: (1.4) Clinical uses of cow urine.



Ayurveda state that daily consumption of cow urine increases the resistance to disease, enhance the cell mediate immunity in the mice.

5)Cosmetics

[12] Sri sri Ayurveda and Patanjali are two well- known names are developing gomuti containing cosmetics products for different purpose. A. Allantoin names molecule has been confirmed in the analytical results of cow urine. it is an organic compound which has several positive effects essential for beauty product especially, skin products. The use of cow urine for acne scar is most important.

6) Anticancer

[18,19,20]The CU helps survival by preventing its apoptosis and by repairing damaged DNA and, therefore, acts as an anti-cancer treatment. Chemo blocking CU was detected in a study, conducted on 70 Swiss albino mice for 16 weeks. Papilloma was extracted from 7, 12 dimethyl benzanthracene and was later elevated with repeated use of croton oil. In CU-treated mice, tumour events (papilloma), tumour yield, and its load were lower in number than in the untreated group.

5) Agriculture use

[15] For the production of biopesticide, cow urine itself a pesticide after addition of neem leaves it becomes a wonderful biopesticide and safe to use.

CHEMICAL COMPOSITION OF COW URINE

ENZYMES

Lactate dehydrogenase -21.780 unit Alkaline phosphatase -110.110 ka unit Acid phosphate - 456.620 unit Amylase - 90.236 unit
Vit c - 216.408 mg/litre.



Vit B1 - 444.125microgram / litre Vit B2 - 0.6339 mg/litre .
Creatinine - 0.9970 g / litre Uric acid -135.028 mg/litre
Calcium - 5.735 millimole / litre Lactate -3.7830 millimole per litre Phosphorous -
0.4805 millimole / liter Free volatile phenols -0.7130 mg/100 ml
Aromatic hydroxy acid -2.7030 mg/100 ml

Table 1: Chemical constituents of healthy cow urine.

Ammonia nitrogen	1-1.7ml/kg/day
Allantoin	20-60ml/kg/day
Calcium	0.1-1.4ml/kg/day
Chloride	0.1-1.1mmol/kg/day
Creatinine	15-20mg/kg/day
Magnesium	3.7mg/kg/day
Potassium	0.08-0.15mmol/kg/day
Sodium	0.2-1.1mmol/kg/day
Sulphate	3-5mg/kg/day
Uric acid	1-4mg/kg/day
Leucocyte	<15micro It

MECHANISM ACTION OF COW URINE

Cow urine has antimicrobial activity due to the presence of certain substances such as variable and incompatible conditions. The presence of urea, creatinine, swarn kshar (aurum hydroxide), carbolic acid, phenols, calcium, and manganese strongly define anti-bacterial and germicidal activity. The presence of amino acids and urinary peptides increases the bactericidal properties. The higher the amount of phenols in fresh cow urine than distilled cow urine makes it more effective in fighting germs.

CONCLUSION

Now days we are facing many problems due to population growth such as lack of fat, good nutrition, diet. This problem will be solved by adopting another source that can help improve our health care systems. Panchagavya theory and ayurveda should gain popularity not only in ancient civilization and culture but also in the highly educated scientific community.



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