ROLE OF GOMUTRA (COW URINE) IN VARIOUS DISEASES: A REVIEW

Julika*1, Sharma Usha2 and Sharma Khemchand3

1MD. Scholar, P.G. Deptt. of Rasa Shastra and Bhaishajya Kalpana Uttarakhand Ayurved University, Rishikul Campus.
2Associate Professor, P.G. Deptt. of Rasa Shastra and Bhaishajya Kalpana Uttarakhand Ayurved University, Rishikul Campus.
3Professor and H.O.D., P.G. Deptt. of Rasa Shastra and Bhaishajya Kalpana, Uttarakhand Ayurved University, Rishikul Campus.

*Corresponding Author: Dr. Julika
MD. Scholar, P.G. Deptt. of Rasa Shastra and Bhaishajya Kalpana Uttarakhand Ayurved University, Rishikul Campus.

ABSTRACT

Literatures are available stating the importance of Gomutra for all purposes in our daily life which is used since ancient times for curing many ailments of human beings. Gomutra (Sanskrit: gomūtra; "cow urine") refers to the usage of cow urine for therapeutic purposes in traditional Indian medicine also used as an important component of the mixture called Panchagavya. Gomutra is used for treatment of colic, abdominal tumors, enlargement of abdomen and flatulence. For therapies such as decoction, purgation, enema, skin diseases, kidney diseases, heart diseases, stones, diabetes, liver problem, jaundice and its shows immunostimulant, bioenhancer, anticonvulsant, anticancerous, wound healing, antioxidant and antimicrobial properties.

KEYWORDS: Gomutra, immunostimulant, Panchagavya.

INTRODUCTION

Gomutra is being used as an effective medicine. It is also an important component of the mixture called Panchagavya. Ayurveda has also emphasized the importance of Gomutra in the management of various disorders in all treatises. In Sushruta Samhita, the description of Gomutra (Cow urine) has been given as effective substance of animal origin with innumerable therapeutic importance. Recent researches prove that gomutra therapy is capable of curing several ailments, including cancer and capable of curing blood pressure, blockage in arteries, arthritis blockage in arteries, arthritis, diabetes, heart attack, cancer, thyroid, asthma, psoriasis, eczema, prostate, fits, AIDS, piles, migraine, ulcer, acidity, constipation, gynecological problems and several other diseases.[1]

Gomutra has been described as water of life or “Amrita” (beverages of immortality), the nectar of the God. In Charaka Samhita, Sushruta Samhita and Vangbhatt described eight types of animal urines that can be used in medicine. Urine of cow is used in therapeutics. All these mutras (eight types of urine from different animals) are sharp, hot, pungent, bitter with salty as a secondary taste, light and primitive of evacuation. They relieve Kapaja and Vataja disorders. Research states gomutra to contain nitrogen, sulphur, phosphate, sodium, manganese, carboxylic acid, iron, silicon, chlorine, magnesium, citric, succinic, calcium salts, vitamins A,B, C,D and E, minerals, lactose, enzymes, creatinine, hormones, urea and gold acids. Urea, a key element in urine is known to kill fungi and bacteria.[2]

MATERIAL AND METHODS

Composition of Gomutra[3]
The cow urine mainly contains water (95%), urea & Mineral salts (2.5%), Hormones and Enzymes (2.5%). The main constituents shows therapeutic response are nitrogen, sulphur, ammonia, copper, phosphate, sodium, potassium, manganese, carboxylic acid, calcium, salt, vitamin (A,B,C,D,E), Lactose, Enzyme, Hippuric acid etc.

Properties of Gomutra[4]
Synonym
Sanskrit - Gojal, Godrava, Surabhijal
Hindi - Gomutra
Marathi - Gomutra, Gomteerth
English - Cow-Urine

Rasapanchak[5]
Rasa - Katu, Madhur
Virya - Ushna
Vipak - Katu
Guna - Tikshna, Ushna, Laghu
Karma - Medhya, Deepan, Sara
Doshaghnata - Kapha-Vata-Shamak

Uses of cow urine in purification and detoxification process[6]
1. Purification of Guggulu (Commiphora mukul)
2. Detoxification of aconite
3. Detoxification of dhatura (Dhatura metel)
4. Detoxification and purification of silver
5. Purification of loha (Iron)
6. Purification of Svarna (Gold)
7. Purification of Tamra (Copper)
8. Purification of Naga (Lead)
9. Purification of bhallataka (Semicarpus anacardium)
10. Purification of Abhraka (mica)
11. Purification of Kharpur (Calamine)
12. Purification of Rajavarta (Lapis lazuli)
13. Detoxification and purification of Kuchala (Strychnos nuxvomica)

Therapeutic Properties of Gomutra[7]
1. Gomutra has Lekhan and Sarhva properties
2. It is useful in many diseases viz. Krimi, Kushtha, Udara, Gulma. It is also used for Virechan and Asthapan basti. It maintains the Tridosha (vata, pitta, kapha) level
3. Gomutra contains copper thus it plays a role in providing a healthy body.
4. It provides mode of goodness thus helps to make the mind active and stress free.
5. It has major poisonous destroyer activity thus it prevents the disease due to poisonous intake and helps to remove and purify the chemical toxin.
6. In Ayurveda, Gomutra is claimed to be helpful in the treatment of leprosy, abdominal colic pain, bloating, and cancer.[9]

Antimicrobial and Anthelmintic Activity[9]
The Gomutra could be used for the treatment of the disease caused by Pathogenic bacteria, Opportunistic fungi and parasitic helmithes. It was reported from various analyses that cow urine concentrate shows more inhibition of gram positive bacteria in comparison of gram negative bacteria. Cow urine shows marked anthelmintic activity by causing paralysis and death of worms in a dose dependent manner. It was concluded that cow urine increases antibiotic activity against various pathogens due to its bio enhancing property. Khadiradi kashaya along with Gomutra used in this study proves very good utility in the management of Gomutra krimi; it has very appreciable result in main symptoms of Purishaj krimi.

Prevention of antibiotic resistance[10]
Gomutra prevents antibiotic resistance which is one of the biggest problems plaguing the medical field. Pesky bacteria have become remarkably adept at resisting antibiotic drugs, due to the rampant use of these medicines by people. By purifying and activating cow urine using light, researchers have found cow urine to be effective against certain drug resistant bacterial strains.

Anticonvulsant action
Gomutra concoction is the traditional herbal preparation of choice in the management of Childhood convulsive disorders, regardless of the cause in the Yoruba speaking people of Nigeria.[11]

Good for liver
Gomutra corrects functioning of liver. So, liver makes healthy pure blood. It gives disease resistance power to the body. 1-2 ounces of daily dose of warm cow urine is used in the treatment of cirrhosis of liver.[12]

Good antiseptic
It is observed by researches that cow urine is having antiseptic properties in wound healing and that the healing times is somewhat less in comparison to wound on which antiseptic cream was applied.[13]

Protection against parasites
Cow urine can protect against parasites inside the body. Intestinal parasites can cause a host various health problems like dysentery, abdominal pain and loss of nutrients in the body. A study shows that these disease causing parasites can be effectively dealt with generous dose of cow urine.[14]

Protects heart and brain
Mental tension hurts nervous system. It is called medhya and hridaya, which means it, gives strength to brain and heart. Thus gomutra protects heart and brain from damages caused by mental tension and protects these organs from disorders and diseases. By acting against the voice of soul (immoral & sinful action), the heart and mind become narrow minded. Due to this the functioning of body is effected and causes diseases. Cow urine provides mood of goodness. Thus helps us to perform correct activities by mind. Thus protects from diseases.[15]

Poison destroyer
Excessive use of any medicine leaves some residue in our body. This residue causes diseases.

Cow urine destroys the poisonous effects of residues and makes body disease free. It being Miraculous poison destroyer destroys the disease caused by poison (Toxin). Extremely dangerous chemicals are purified by cow
Cow urine provides immunity power by increasing resistance power against diseases in human body.

**Anticancer properties**

*Gomutra* has great antioxidant properties which help in neutralizing oxidative stress and scavenging free radicals. These properties point towards potential anticancer powers of cow urine. This is not to say that it can cure cancer but act as a deterrent for the risk of cancer.\(^{16}\)

**For kidney diseases**

*Gomutra* cures kidney ailments. It can be used for stones. A glass of fresh cow urine should be taken as a first thing in the morning for 21 days. Uric acid present in cow urine dissolve the stones to a manageable size.\(^{17}\)

**Antidiabetic effect**

*Gomtra* and its concentrate that is left after distillation were subjected to investigations for verifying and establishing antidiabetic activity. The antidiabetic activity of cow urine and standard glibenclamide drug was studied in alloxan-induced diabetic rats. Their blood glucose level was determined using Glucose Oxidase–Peroxidase (GOD-POD) method. The results were compared with the results obtained in standard glibenclamide treated rats. The cow urine distillate produced a significant reduction of elevated blood glucose, serum cholesterol and serum triglyceride levels when compared with the diabetic control. It also justifies the use of available marketed formulations containing cow urine in treating diabetic patients.\(^{18}\)

**For Skin diseases**

Cow urine is helpful to get relief from most of the skin diseases like Psoriasis, itching, eczema, sun burns, acne, dermatitis, skin allergies and scabies.\(^{19}\)

**Wound healing activity of gomutra in DM induced rats**

Study demonstrated that gomutra ark significantly increases wound healing in diabetic wound patient. Thus, it helps in accelerating wound healing in diabetic patients because of its property of enhancing granulation tissue formation.\(^{20}\)

**Anti-urolithiatic effect of cow urine**

*Gomutra* ark showed significant effect against renal calculi and restoration of compromised renal function. This type of action of CU might be due to it reduce excretion of calcium oxalate.

And inhibit process of crystallization. Further experimental studies are needed to know its mechanism of action.

**Mechanism of action of cow urine**

Cow urine have different fractions like antimicrobial activity due to the presence of certain components like volatile and nonvolatile ones.\(^{21}\) Presence of creatinine, urea, swarnkshara (aurum hydroxide), phenols, carbolic acid, calcium, and manganese has strongly explained the germicidal and antimicrobial properties of cow urine. Presence of amino acids and urinary peptides may enhance the bactericidal effect by increasing the bacterial cell surface hydrophobicity. It enhances the phagocytic activity of macrophages. Fresh cow urine contain higher amounts of phenols than cow urine distillate (CUD) makes it more effective against microbes. After photo-activation, few biogenic volatile inorganic and organic compounds such as CO2, NH3, CH4, methanol, propanol and acetone, and some metabolic secondary nitrogenous products are also formed.\(^{22}\) Photo-activated cow urine (PhCU) is highly acidic than fresh cow urine this may be responsible for increase in bactericidal action. Inorganic substances in cow urine such as phosphorus, chloride and dimethylamine may also play an important role. It prevents the development of antimicrobial resistance by blocking the R-factor; a part of plasmid genome of bacteria cow urine contains phenolic acids (gallic, caffeic, ferulic, o-coumaric, cinnamic, and salicylic acids) which have antifungal characteristics.\(^{23}\) Antioxidant property of uric acid and allantoin present in cow urine correlates with its anticancer effect. It reduces apoptosis in lymphocytes and helps them to survive better. This action may be due to the free radical scavenging activity of the urine components, and these components may prevent the process of aging. It efficiently repairs the damaged DNA. Daily consumption of cow urine improves immunity due to the presence of swarnkshar and fastens the wound healing process, which is due to allantoin cow urine enhances the immunocompetence by facilitating the synthesis of interleukin-1 and -2, augments B- and T- lymphocyte blastogenesis, and IgA, IgM and IgG antibody titers.\(^{24}\) Early morning first voided cow urine is more sterile and have more macro and micronutrients along with other enzyme/urea content could be more effective.

**Dose of Gomutra**\(^{21}\)

The general dose of the gomutra is 25ml at a time. When it is taken two times in a day the dose is 50ml. It is not harmful and provides protection against several diseases and improves immune power if taken on regular basis.

**Some important formulation in which Gomutra is used**\(^{22}\)

1. Ashwinikumar rasa
2. Arshakuthar rasa
3. Sanjivani Vati
4. Mandura vatak
5. Punarnava mandura
6. Panchamrta loha mandura
7. Tryoshanadi mandura
8. Agnimukha mandura
9. Panchagavya Ghrita
10. Kasisadi Taila

**CONCLUSION**

*Gomutra* is the one of the best natural medicine which helps to improve health care system. The activities

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\(^{16}\) Patil et al. \(^{17}\) d'Or et al. \(^{18}\) d'Or et al. \(^{19}\) d'Or et al. \(^{20}\) d'Or et al. \(^{21}\) d'Or et al. \(^{22}\) d'Or et al. \(^{23}\) d'Or et al. \(^{24}\) d'Or et al.
within the urine sample make it highly effective therapeutic agent used in curing many.

Diseases. The ancient scriptures of Ayurveda consider gomutra to be the elixir of life. It is the most effective natural remedy and the safest method of treatment bestowed upon us by nature. It is based formulations would definitely prove to be a potential medicine which in turn would reduce the pressure on the existing use of chemicals and antibiotics. While this sounds a little unconventional for many, it could be a major step in disease management.

REFERENCES