

Review Article

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A Critical review on *GoMutra* (Cow's Urine) with special reference to anti-cancer property

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Abstract

Ayurveda, the ancient science of life described methods to promote health as well as to cure the diseases. To treat the diseases Ayurveda has been used herbal and mineral drugs and also liquids like *Jala*(water), *Ksheera* (milk) and *Mutra*(urine). Ayurveda described eight types of *Mutra* and their therapeutic effects and among eight types *Gomutra* (Cow urine) has been mentioned as the Best. Cancer is a dreaded malady to the mankind, which though can be treated by different modalities of therapy like surgery, chemotherapy, radiotherapy and immunotherapy along with recent molecular approaches of gene therapy, but the success rate and cost of these therapeutic modalities is not very high and moreover, their well known side effects puts burden on the patients to be treated. Alternate therapies including of homeopathy and Ayurvedic medicines have also been said to be helpful in the prevention and control of cancer. Antioxidant property of uric acid and allantoin present in *Gomutra* (cow urine) are said to be having anticancer effect. In this review article an honest attempt has been made by systematic review regarding *Gomutra* (cow urine) with its traditional as well modern therapeutic effects including researches by referring classical and modern texts and research articles.

Keywords

Ayurveda ,
Mutra,
Gomutra,
Cow urin ,
Arbuda ,
Cancer

Introduction

Ayurveda, the ancient science of life has two objectives¹; firstly it explains preventive aspect, secondly curative aspects. As a part of curative aspect, Ayurveda described herbo-mineral drugs as well as liquids such as *Jala* (water), *Ksheera* (milk), *Mutra* (urine) in the treatment of diseases. *Mutra* is one among the *Trimala* (three waste products) – *Mutra* (urine), *sweda* (sweat) & *Mala* (feces). The word *Mutra* is related to *prasaava* – the fluid secreted by kidney². In Ayurveda 8 varieties of mutras are explained viz *Avi mutra* (Sheep urine), *Aja mutra* (Goat urine), *Gomutram* (Cow urine), *Maahishi mutram* (Buffalo urine), *Hasti mutram* (elephant urine), *Usthra mutram* (Camel urine), *Haya mutram* (Horse urine) and *Khara mutram* (Ass urine)^{3,4,5}. Urine is the liquid by – product of metabolism in humans and in many other animals. Urine flows from the kidneys through the uraters to the urinary bladder. Urination results urine being excreted from the body through the urethra. Cellular metabolism generates many by-products that are rich in nitrogen and must be cleared from the blood stream, such as uric acid, urea and creatinine. These by-products are expelled from the body during urination, which is the primary method for excreting water-soluble chemicals from the body. Urine plays an important role in the earth's nitrogen cycle. In balanced ecosystems, urine fertilizes the soil and thus helps plants to grow. Therefore, urine can be used as a fertilizer.

As per Ayurveda the animal urines are used in medicine. Among the eight types of urine, Cow's urine is used as therapeutic purpose. All eight types of urine from different animals are possess the *Ruksha* (sharp), *Ushna* (hot), *Katu* (pungent), *Tikta* (bitter) with *lavana* (salty) as a secondary taste, *laghu* (light) and promotive of evacuation. They relieve *Kaphaja* and *Vataja* disorders, those caused by *krimi* (worms), *meda* (excessive adiposity), *visha* (poisoning), *gulma* (gaseous swelling of the abdomen), *arsha* (piles),

kushta (skin diseases including leprosy), *kilasa* (a leucoderma) *shopha* (swelling), *Agnimandya* (loss of appetite), *Pandu* (pallor), *Hrid roga* (heart disease) *Aruchi* and they are *deepaniya* and *pachaniya* (digestive and carminative) in function. They are used as poultices and affusion. They are prescribed as appetizers, antitoxic, bactericidal, they are also known as best remedies for those affected by *Panduroga* (anemia), when taken in it alleviates *kapha* and *vata*^{6,7,8}. Among all the urines cow urine is the best⁸. Cow urine has a special significance in Indian tradition. Cow urine is said to have a spiritual cleansing effect as well. Cow urine has been described as water of life or “*Amrita*” (beverages of immortality), the nectar of the God. Indian cow breeds are unique and distinct species, popularly known as “*Kamdhenu*” (One who can complete all wishes of mankind) and “*Gomata*, (Cow is called as mother). It has high sociocultural values, plays significant role in rural economy, represent cattle wealth and bio-diversity. Several curable and incurable diseases can be managed by use of cow urine as a medicine. The Ayurvedic classical texts, such as Charaka Samhita, Bhavaprakasha and Susruta Samhita, have described these indications for cow urine⁹. Though modern medicine has helped us to eradicate and cure several diseases of mankind and animals; But the existent of incurable diseases like cancer, acquired immunodeficiency syndrome (AIDS), diabetes, rheumatoid arthritis, side effect of Allopathy medicine, increasing trends of antibiotic resistance and chemical and bio pesticides causing dietary risk has made the situation more critical than ever before. Thus it has become the matter of concern for the scientist and researcher to develop novel therapies. Cow urine has proven to be cost effective, with minimum adverse reaction when compare to modern medicine¹⁰. In this review article an honest attempt has been made by systematic review regarding cow urine with its traditional as well modern therapeutic effects including researches by referring classical and modern texts and research articles.

Table.no.1: Properties of cow's urine

Text	Rasa & Guna	Karma	Indicated diseases
Charaka ¹¹	<i>Sa-mahduram,</i>	<i>Doshaghnam (alleviates doshas), krimihara, kushta hara, kandughna (alleviates itching), udara hara(alleviates visceral diseases)</i>	<i>Krimi (intestinal worms), kushta (skin diseases), kandu (itching), udara (visceral diseases)</i>
Susrutha ¹²	<i>Katu (pungent), teekshna (penetrating), ushna (hot in potency), kshara (alkaline), laghu(light to digest).</i>	<i>Agnideepana, medhya, pittalam, kaphavatnut,</i>	<i>Shula (colic), Gulma (abdominal growth), udara (visceral diseases), anaha (abdominal bloating), virechana (purgation) & asthapana vasti (decoction enema)</i>
Vagbhata ¹³	The best urine among the 8 types		
Bhavaprakasha ¹⁴	<i>Katu (pungent), tikta (bitter), kashaya (astringent), teekshna (penetrating), ushna (hot in potency), kshara (alkaline), aghu (light to digest),</i>	<i>Agnideepaka (appetizer), medhya (brain tonic), pittakara (induces pitta), kapha-vata nashaka (pacifies kapha & vata)</i>	<i>Shula, gulma, udara roga, anaha, kandu, akshi & mukha roga, kilasa, amavata, vasti roga, kushta, kasa, shotha, kamala, panduroga. Atisara, mutrarodha.</i>
Ashtanga sangraha ¹⁵	Pungent, hot	Increases <i>Pitta</i> , Decreases <i>vatta</i> and <i>kapha</i> . Among all varieties of urine, cow's urine is considered the best.	Absorption of materials in between cell and respective environment, wormicide, hemorrhoid, purgative, decoction enema

Traditional Uses Of Cow Urine : From ancient time cow is being a divine animal not only in religious sense but in Eastern culture they treat it as mother because it is nourishing a whole family through its good diet by providing milk and related products like ghee, butter and curd like a mother¹⁶.

Chemical composition of Urine: Urine in general has got antimicrobial property. It acts as an integral component of *Panchagavya* in enhancing immune responses. Cow urine accomplishes the lack of essentials and diminishes the amplified essentials in the body. Numerous powerful elements which are almost needed to our body physiologically were recognized by the biochemical study of cow

urine. Cow urine contains nitrogen, sulphur, phosphate, sodium, manganese, iron, silicon, chlorine, magnesium, maleic, citric, tartaric and calcium salts, vitamin A, B, C, D, E, minerals, lactose, enzymes, creatinine, hormones and gold acids. Ingredients of cow urine are similar with human body. Hence consumption of cow urine is useful to maintain the balance of these substances and cures incurable diseases¹⁷ the contents of cow urine: Water – 95%, Urea – 2.5% Minerals, Salts, Hormones, Enzymes – 2.5%. Any deficiency or surplus of these elements inside the body causes disorders. Cow urine comprises all of these elements with having a balanced proximate composition. Consequently, consumption of cow urine reestablishes the balance of these

constituents and therefore helps in curing from incurable diseases. In healthy cows urine does not contain protein, glucose and hemoglobin. and used in many drug formulations. Essentially, cow urine is used as disinfectant and for purification. Cow urine is proved to be the most effective natural antibacterial and purifier, when compared to the synthetic chemicals those are currently available to the consumers¹⁸ Thus, it supports the element that cow's urine is not a noxiouswaste¹⁹ In the rural villages in India, cow's urine is being

used since a very long time as an effective antibacterial for injuries, skin diseases, cleansing, etc. apart from this it is also used as pesticides and manure. Prehistoric Indian Vedic Scriptures including Manu Smriti, Charaka Samhita and Sushruta Samhita and present-day researchers have cited that rational use of this animal product eradicates any non-functionality of respiratory systems, hepato-gastro-intestinal systems, cardiovascular systems, malignancy and several others^{20,21,22}.

Use of Gomutra (Cow urine) in Ayurveda:

a. Table no.2: Different forms of Gomutra used in different conditions²³

S.no	Therapeutic form	Disease condition
1	Daruharidra (<i>Berberis aristata</i>) + Gomutra + Rasanjana	Kushta (Leprosy)
2	Swarnamakshika + Gomutra	Kushta (Leprosy)
3	Karavira (<i>Nerium indicum</i>) + Gomutra	Kushta (Leprosy)
4	Gomutra	Bath in Apasmara (Psychiatric disorder)
5	Gomutra	Nasya(inhalation) Apasmara (Psychiatric disorder)
6	Gomutra + Haritakichurna (powdered of Terminalia chebula)	Kaphajshotha (swelling)
7	Ksheera (Milk) + Gomutra	drink in vatajshotha
8	Ksheera (Milk) + gomutra	Virechana (Purgation) in Pittodara
9	Gomutra pana	Kaphodara (type of ascites)
10	Gomutr pana	Udara (Ascites)
11	Patoladi churna + gomutra	Udara (Ascites)
12	Narayana churna + gomutra	Udara (Ascites)
13	Hapushadyachurna + gomutra	Udara (Ascites)
14	Ksheera (Milk) + Gomutra	Udara (Ascites)
15	Guda(Jaggery) + Haritaki + Gomutra	Arshas (Piles)
16	Mahish(buffalo) Ghrita + Gomutra + Daruharidra	Pandu(Anaemia)
17	Gomutra+ Ksheera (Milk)	Virechana in Pandu
18	Gomutra + Haritaki	Kaphaja Pandu
19	Pippalyadichurna(Powdered) + Gomutra	Hidroga (Heart disease)
20	Sarshapa (Mustard)+ Gomutra	Urusthambha
21	GuduchyadiTaila + Gomutra	Vataja Yonivyapad
22	Guggulu + Gomutra Shilajit + Gomutra	Urusthambha
23	Karanja + Sarshapa + Gomutra	Urusthambha
24	Kukkutpurish a + Gunja + Haridra + Pippali + Gomutra	Lepa in Arshas
25	Gomutra + Haritaki + Honey	Internal Piles

26	Gomutra + chitraka + Trikatu (Sunthi, Marich, Pippali)	Swithra (Vitiligo)
27	Haridra(<i>Curcuma longa</i>) + Gomutra	Kushta (Leprosy)
28	Karavira (<i>Nerium indicum</i>) + Vidanga (<i>Embelia ribes</i>) + Gomutra	Ilepa in kushta (Leprosy)
29	Trikatu + Gomutra + Kshara + Mushakadi Gana Basti(medicated enema)	Kaphaja Udara(Ascites)
30	Mahavriksha kshira + Sura(type alcohol) + Gomutra	Virechana in Dushyodara
31	Eranda Taila (oil of <i>Ricinus communis</i>) + Gomutra	Udara (Ascites)
32	Gomutra	Kaphaprakopak Vikara as Basti
33	Gomutra	Lekhana Basti

b. Table.no.3 *Gomutra* used in Purification of Dravya²⁴:

Rasa oushadhi (Minerals)	Kashta oushadhi (Herbals/plants)
Abhraka (Mica)	Vatsanabha (Aconite)
Tamra (Copper)	Dhatuara (<i>Dhatuara metel</i>)
Naga (Lead)	Guggulu (<i>Commiphora mukul</i>)
Roupya/Rajata (Silver)	Kuchala (<i>Strychnos nuxvomica</i>)
Kansya (Bronze)	Bhallataka (<i>Semicarpus anacardium</i>)
Yasada (Zinc)	
Tuttha (Copper sulphate)	
Kanta Lauha (Iron)	
Swarna (Gold)	
Rajavarta (Lapis lazuli)	
Karpara (Calamine)	

c. *Gomutra* used in Important formulation²⁵: 1. Ashwinikumara ras 2. Arshakuthara rasa 3. Sanjivani Vati 4. Mandura vataka 5. Punarnavamandura 6. Panchamrutloha mandur 7. Trayushanadi mandura 8. Agnimukha mandura 9. Panchagavya Ghrita 10. Kasisadi Taila

Abuda hara /Anti – Cancer properties of Gomutra

According to Ayurveda, manifestation of various non inflammatory swelling occurs due to vitiation of *Vata* and *Kapha Dosha* and they are classified as *Arbuda* (tumour), *Granthi* (glandular swelling). *Galaganda* (cervical lymphadenopathy) etc. *Arbuda* can be correlated with cancer on the basis of its signs and symptoms. The vitiated *Vata* and *Kapha dosha* produce *Ama* (autotoxin) by affecting the *Jatharagni* and *Dhatwagni*. That *Ama* along with *apakwa dhatu* produces various

dhatugata vikara in the form of *Arbuda*, *Shopha*, *Granthi* etc. by obstructing the *Srotas* (channels). Hence, the involvement of *Agni*, *Ama* and *Srotovarodha* are to be considered during the management of *Arbuda*. On the basis of such concept *Gomutra* is prescribed in treating *Arbuda* as *Gomutra* is possesses *Katu*, *tikta* and *kashaya* rasa, *ushna*, *teekshna*, *laghu* and *ruksha* guna and *agnideepana* which acts as *Vata* and *Kpha hara* and *agnideepana* and *srotoshodhaka*.

Anticancer properties: Cow's urine (CU) has antioxidant properties and is a free radical and thus it deactivates the oxidative stress. CU helps by repairing the damaged DNA and is thus, effective as anti-cancer therapy²⁶. Chemo preventive potential of CU was observed in a study, which was conducted on 70 Swiss albino mice for 16 weeks.

Papilloma were induced by 7, 12 dimethyl benzanthracene and later promoted by repeated application of croton oil. In mice treated with CU, the incidence of tumor (papilloma), tumor yield, and its burden was statistically less than the untreated group. Effect of Cow Urine on various types of cancers was studied by Jain and his co-workers. Decrease in severity of various clinical symptoms (pain, inflammation, burning sensation, difficulty in swallowing, and irritation) was decreased from day 1 to day 8 with CU therapy. Percent of patients with severe symptoms decreased from 82.16 to 7.9 on day 8, patients with moderate symptoms increased from 15.8 to 55.3 and with mild symptoms, patients increased from 1.58 to 36.34. The severity of symptoms decreased further with continued CU therapy²⁷

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Gomutra (Cow urine) in modern medicine research

Analgesic activity: In a study of cow urine and its distillate to determine analgesic action using rat tail immersion method it was detected that the animals received cow urine demonstrates good equivalent analgesic effects to standard drug group received Diclofenac Sodium. Their analgesic activity is attributable due to existence of steroidal moieties and some volatile fatty acids in cow urine²⁹. Hemorrhoid: Clinical estimation of cow urine extract have been done in hemorrhoid patients. Outcome shows that oral supplementation of cow urine in Hemorrhoids patients have prohibited the time consuming, throbbing and expensive complications of Hemorrhoids³⁰.

Wound healing activity: Study of wound healing activity of cow urine in wistar albino rats by excision wound model. The parameter studied

was the rate of wound contraction. The studies on excision wound healing exposed that there was a decrease in wound zone. External application of urine displayed important increase in wound healing in male and female rats after Day 4 as linked to all other groups. But till the end of 14th day animals exhibited that only 0 % and 0.40.4 % of healing was left, which may be due to normal immunity of the animals however nitrofurazone, standard drug treated animals showed 0 % and 0.50.3 % healing. Study discovered that the cow urine on external application to the wound fastened the healing progression³¹.

Immunomodulatory Activity: Cow's Urine has immunostimulant activity in plants and animals. The usage of herbs and minerals (like chyavanprash and panchgavya) for enhancing the complete resistance of the body against communal infections. As per judgments dried cow urine discovered healthier consequence on immune system associated to methanol, ethyl acetate, aqueous and acetone elements of cowurine. Prehistoric Ayurvedic theses say that consuming CU on regular basis demonstrates the enhancement in humoral, and cell mediated immune response Cow urine distillate was originating to increases proliferation of T and B lymphocytes, blastogenesis and increases levels of IgG in mice and chicks (avian species)^{32, 33}.

Hepatoprotective Activity: Daily doses of 1-2 ounces of warm cow urine are used to treat cirrhosis of liver. Urine as alone or mixed with honey/salt is also directed for Liver and other problems. Antimony sulphide and cow urine administered internally are used to cure malignant jaundice³⁴.

Antidiabetic activity: The consequence of cow urine formulation (Gomutra Arka, GoA) on experimental alloxan-induced diabetes in rats was studied. Wistar albino rats of either sex weighing 200-250 g were used. The biochemical parameters observed were blood sugar, vitamin C and malondialdehyde (MDA) release. GoA symptomatically drops blood glucose in diabetic rats although the observed consequence was found to be less than standard antidiabetic,

glibenclamide. The cow urine distillate also diminishes serum cholesterol and serum triglycerides level laterally with serum glucose level. GoA comprises of volatile fatty acids like acetic acid 2 propenyl ester, acetic acid methyl ester, 2,2,3-trichloro propionic acid, Butanoic acid-3methyl, propyl ester, 1H indol-3-acetate, acetic acid phenyl ester, quinoline, which act as an antioxidant and contributing for the anti hyperglycemic effect.

Stomach, kidney and heart diseases: Cow dung and urine are greatest cures for stomach diseases, heart diseases, kidney ailments and tuberculosis. Cow's urine is established as a component of several dressings and mixtures (occasionally with agitated wine) or alone, as a medication for obesity, as a purgative; for eliminating pests from an ulcer; vayu disorders, intestinal dropsy and many other diseases. Cow dung act as bacteriocidal in case of malaria and Tuberculosis³⁵

Stones: It can be used for stones (kidney, gall bladder etc.). A glass of fresh cow urine should be taken as a first thing in the morning for 21 days. Uric acid in cow urine liquefies these stones to a manageable size³⁶

Skin diseases: It is very cooperative in all kind of skin problems, itching, sunburns, eczema, psoriasis, acne etc³⁷. It also renders the hair soft and clean. Cow urine is completely sterile after secretion and has antiseptic effect

Antimicrobial and Antifungal activity: In a study of Cow Urine Distillate against some clinical pathogenic microorganisms like *Bacillus subtilis*, *Pseudomonas aeruginosa*, *Klasiella pneumonia*, *Salmonella typhi* and fungus *Aspergillus niger* and *Aspergillus flavus*. Antibacterial activity of Cow Urine Distillate (5, 10 and 15 μ l) when analyzed against the pathogenic microbes it was observed to be maximum against *Pseudomonas aeruginosa* (7.06 \pm 0.05, 8.08 \pm 0.18 and 10.4 \pm 1.23, mm in diameter, respectively) and *Salmonella typhi* (6.3 \pm 1.23, 8.06 \pm 0.17 and 10.4 \pm 1.2, mm in

diameter, respectively). Antifungal activity of cow urine distillate was analysed against *Aspergillus niger* and *Aspergillus flavus* and comparison showed maximum growth suppression in *Aspergillus niger* (3 \pm 0.14, 6.3 \pm 1.2 and 7.06 \pm 0.04, mm in diameter) than *Aspergillus flavus* (2.03 \pm 0.25, 4.9 \pm 0.26 and 6.3 \pm 1.2, mm in diameter, respectively)³⁸. In vitro Screening of Antibacterial Activity of Cow Urine Against Pathogenic Human Bacterial Strains³⁹. It was also found that cow urine and its distillate inhibited the free radicals as seen from scavenging of super oxide and DPPH radicals. Fresh cow urine shows significant results in antimicrobial, antioxidant action as compared to cow urine distillates. It is found that cow urine extract of *Azadiractica indica* beneficial in multidrug resistance treatment against *E.coli* and *Klebseilla pneumonia*. Cefixime was used as standard⁴⁰. Cefixime was used as standard⁴⁰.

Anti- helmintic Activity: CUC was better than piperazine citrate as anthelmintic agent at both 1% and 5% concentrations⁴¹

CNS Effect: Act as antiepileptic, relieves stress, an herbal preparation popular in Nigeria is based on cow's urine and some herbs recognized as cow urine concoction (CUC). Its major pharmacological actions are anticonvulsant and hypoglycemic properties⁴²

Bioenhancer: Bioenhancers are substances, which do not possess drug activity of their own but recommend and enhance the bioactivity or bioavailability or the acceptance of drugs in combination therapy. The indigenous cow urine contains Rasayana tatva, which is responsible to moderate immune system and act as bioenhancer. Recently, Cow urine distillate has been granted U. S. patents for its medicinal properties mainly for its bioenhancer activities of generally used antibiotics, anti-fungal and anti-cancer drugs⁴³. The activity of Rifampicin, a front-line anti-tubercular drug used in contradiction of tuberculosis, increases by about 5-7 folds against *E. coli* and 3-11 folds against Gram-positive bacteria. Potency of 'Taxol' (paclitaxel) has been detected to get increase against MCF-7, a human

breast cancer cell line in in-vitro assays (US Patent No. 6,410,059)⁴⁴. It has been found that cow urine also acts as a bioenhancer and upsurges the effectiveness of the antibiotics against infectious agents. Bio enhancement has also been detected with other drugs viz. Ampicillin, Isoniazid, Clotrimazole, Cyanocobalamins etc. Bioenhancer activity has been found to diminish the antibiotic dose per day and duration of action in tuberculosis patients⁴⁵.

Discussion

Cancer is a dreaded malady to the mankind, which though can be treated by following various therapy procedures of surgery, chemotherapy, radiotherapy and immunotherapy along with recent molecular approaches of gene therapy, but the success rate and cost of these therapy modalities is not very high and moreover, their well known side effects puts burden on the patients to be treated. Alternate therapies including of herbs, homeopathy and Ayurvedic medicines have also been claimed to be helpful in the prevention and control of cancer. Antioxidant property of uric acid and allantoin present in Cow Urine (CU) correlates with its anticancer effect. Cow Urine 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. Cow urine therapy has also been claimed to possess anti-cancer properties and has been supported recently by the grant of US patent in the field of cancer treatment by its virtues of bioenhancing the activity of anti-cancer drugs. The hypothesis of cow urine therapy in curing cancer has also been supported in the last few years by the case reports, feed backs and success stories of the patients treated by this novel alternate therapy for cancer. The area of cow urine therapy has tremendous potential in the field of medicine and has not been exploited to the extremes. Efforts need to be made for public awareness about the vital virtues of cow urine therapy. Though, the end user claims are many but scientific validation of those claims is required. Most of the tested practices of

cowpathy or cow urine therapy are rejected as myth or mythological adventures. Now people need information and data based on research. It is therefore necessary to blend science, spirituality and wisdom. Such a blending has resulted in US patents for the cow urine in possessing anti-cancer and bio-enhancing properties. These approaches and their potential applications should be widely promoted. The establishment of research and development centers in this medicinal utility of cow urine and generation of authentic data for the support and of cow urine therapy in the treatment of cancer by physicians, clinicians, scientists and researchers should be given priority, which can strengthen and promote this unique and natural alternate therapy in fighting against the cancer, which would provide a great relief to the human sufferings. Cow urine is a universal medicine and can be the best therapy for mankind in curing various sorts of disorders. It is non-toxic and can be obtained free of cost through domestication of indigenous cow. The cow urine therapy should gain popularity not only in traditional families but also in highly educated and scientific societies. Thus an integrated approach is necessary to promote the highly valuable virtues and wide applications of cow urine, a new version of ancient science, which is definitely a promising formulation in the years to come by following the desired promotional strategies. Utilizing the beneficial properties of cow urine, day may not be far away when the incurable diseases like cancer, AIDS and other deadly maladies can be treated successfully. The role of cow urine in curing the cancer needs further attention as they can serve as a reliable treatment alternative without side effects. Further case studies involving the successful use of 'Go-mutra Arka' or 'Kamdhenu Arka' are to be brought to medical attention and should be passed on to the masses.

As Gomutra possesses Katu, tikta and kashaya rasa, ushna, teekshna, laghu and ruksha guna and agnideepana which acts as Vata and Kapha hara and agnideepana and srotoshodhaka. These qualities acts as medohara, kapha hara and ksarana guna of gomutra may prevent the proliferation of cells in cancer.

Conclusion

Arbuda / Cancer are a major and global health problem and the outcome of any available therapy is still under the investigation, particularly in non operable cases of malignancies. As an Alternative medicine Ayurveda plays an important role in prevention as well as Curative aspects of Cancer. *Gomutra* is an age old remedy for its *Gulamhara/Arbuda hara* property. *Gomutra* is used as directly in the form of *Arka* (Distillation) and indirectly in the preparation of *Arbudahara/ Gulmahara* formulation. *Gomutra* is cost effective and effective remedy for cancer and it needs to be propagated and people should be educated for its use judiciously.

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