

**REVIEW ARTICLE**ISSN:2394-2371  
CODEN (USA):IJPTIL**Therapeutic Potential of  
Cow's Urine: A Conscious Review**Jeevan Menaria<sup>1\*</sup>, Ram K.<sup>2</sup>, Neeraj Kumar<sup>1</sup><sup>1</sup>Geetanjali Institute of Pharmacy, Udaipur, Rajasthan, India<sup>2</sup>Yoga & Naturopathy, Mangalward, Chittorgarh, Rajasthan, India**ABSTRACT**

Revert to past find that cow is unit of dispensary. It's all excreted product are useful for human. Product which are obtained from cow that is Cow Milk, Cow Urine and Excretory product. If *Vatta*, *Pitta* and *Kapha* disturbed than growing cause concept of *Ayurveda*. Cow Urine has all essential elements which require for human health. It helps to prevent against various disease that may be cardiac, stomach, mutagenic. Article help to identify therapeutic potential of cow urine.

**Keywords:** - Cow Urine, Dispensary, Excreted, Therapeutic.

**INTRODUCTION**

Indian tradition of medicines, especially *Ayurveda*, has been widely used by aaryas. Indian culture cow is play important role for betterment of humans for social, physical and health related. Peoples called different name like Kamdhenu and Gautama. Ancient time Indian culture has been attracted and motivated. If review back of Indian history find, it was very important so called Kamdhenu. Indian

Granth Sushrita Samhita has been mentioned importance of cow urine. It has broad range of therapeutic potentials. In our culture drinking of cow urine has been continue to till. [1]. It has significant pharmacological activities [2]. Indian Practioner has been used for treatment of various diseases like cardiac, nervous, renal, stomatitis and various skin disease [3].

Various scientific experiment result that indian cow urine has been most effective [4]. it has immunomodulatory activity [5]. It has been directly acted on T & B Cells and raise the level of immunoglobulin G [6]. After conclusion United state has been Patent because it has been bio enhancer, antibiotic,

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immunomodulatory, antiseptics, Antifungal and anticarcinogenic etc. activities [7,8].

### Chemical Constituent

Cow urine is not single substance but also it contains various chemicals. It has power to remove ill effect from body. It contains more than 20 constituents [9, 10, and 11]. Cow urine contains various constituents. It has been H<sub>2</sub>O, NH<sub>2</sub>CONH<sub>2</sub>, Minerals, and Hormones & Enzymes. Therapeutically important constituent are N<sub>2</sub>,S,NH<sub>2</sub>, CU,P,Na,K,Mg, -COOH, Ca and Vitamin (A,B,C,D,E) [12,13].Copper elements destroys disease. It work as antidote [14].



Fig-1: Picture represented 1. Cow 2. Importance of Cow Urine in Farming

### Properties

Cow Urine has Bitter, Pungent, and Astringent, rasa, deepana prabhav and laghu properties [15]

### Biological Properties:

**Ahuja Anmi et al 2012 (Antimicrobial Activity):** Researchers Find out cow urine has antimicrobial activities. Author was find, its antimicrobial spectrum against microbes (*Staphylococcus aureus*,*Escherichia coli*, *Pseudomonas fragi*, *Bacillus subtilis*, *Streptococcus agalactiae* and *Proteus vulgaris*) by using agar plate method. These research authors concluded that [2].

Optical Density value of 4 samples. Optical density (OD) was taking 1 Hours Difference. Result was in favour of antimicrobial activity of cow urine (Table-1) [2].

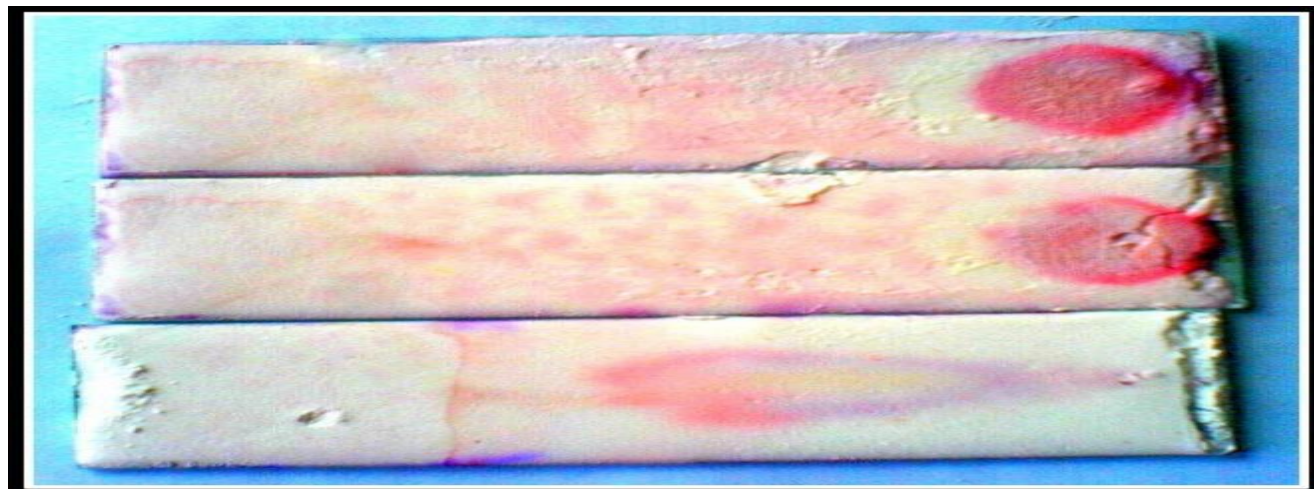


Fig-2: Thin Layer Chromatography (TLC) Analysis of Cow's Urine for Enzyme Detection

Thin Layer Chromatography slides sprayed with ninhidryin reagent, displaying the pink spots (indicative of the incidence of proteins in cow's urine [25]).

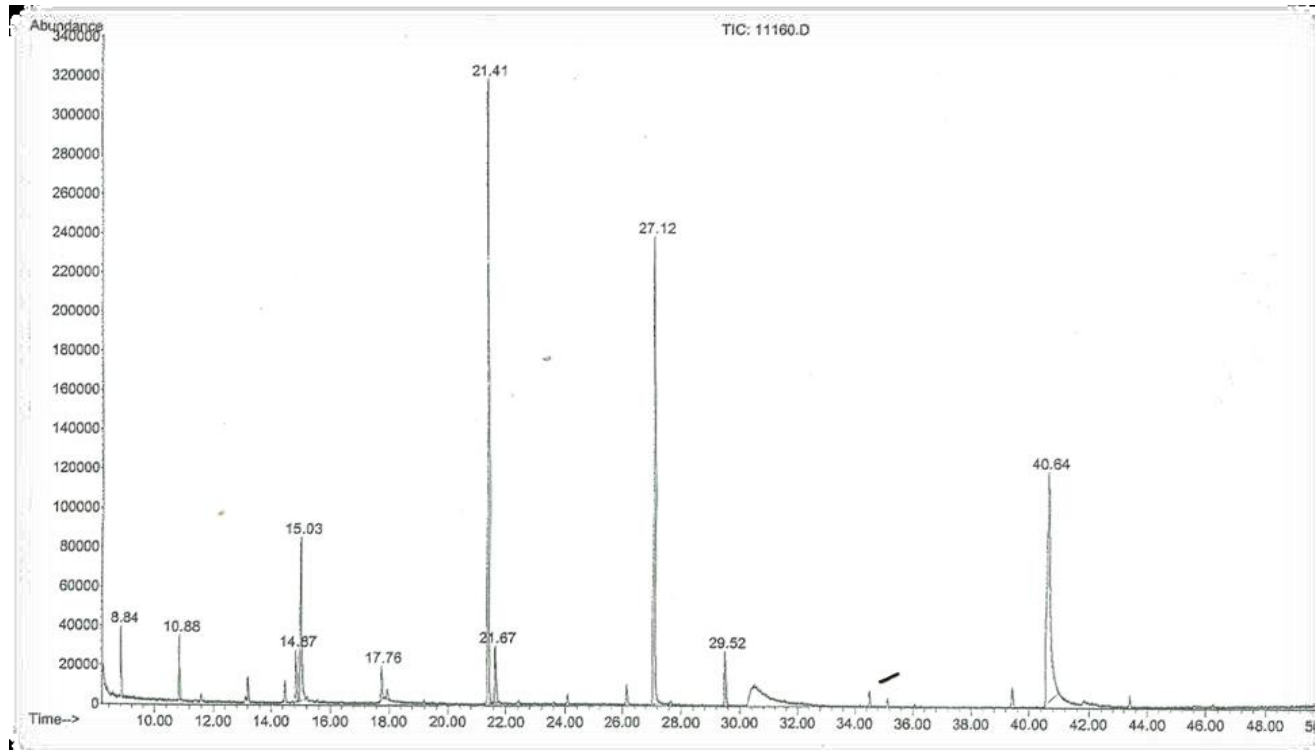


Fig-3: Gas Chromatography Spectrum

Table-1: Opticle density representing antimicrobial activity

<i>Time in Hours</i>	<b>Bacteria</b>	<b>Sample 1</b>	<b>Sample2</b>	<b>Sample 3</b>	<b>Sample 4</b>
<i>1<sup>st</sup> Hours</i>	Staphylococcus aureus	0.982	0.905	0.93	1.032
	Escherichia coli	0.701	1.012	0.755	0.891
	<i>Pseudomonas fragi</i>	1.509	1.704	1.704	1.357
	<i>Bacillus Subtilis</i>	1.135	1.022	1.129	1.148
	<i>Streptococcus agalactcia</i>	1.331	1.356	0.951	1.157
	<i>Proteus vulgaris</i>	0.983	0.89	0.732	0.852
<i>2<sup>nd</sup> Hours</i>	Staphylococcus aureus	0.978	0.879	0.905	0.991
	Escherichia coli	0.676	0.896	0.743	0.877
	<i>Pseudomonas fragi</i>	1.495	1.429	1.41	1.343
	<i>Bacillus Subtilis</i>	1.12	0.958	1.045	1.116
	<i>Streptococcus agalactcia</i>	1.166	1.139	0.898	0.894
	<i>Proteus vulgaris</i>	0.946	0.673	0.665	0.821
<i>3<sup>rd</sup> Hours</i>	Staphylococcus aureus	0.946	0.847	0.89	0.989
	Escherichia coli	0.669	0.882	0.738	0.868
	<i>Pseudomonas fragi</i>	1.493	1.388	1.362	1.319
	<i>Bacillus Subtilis</i>	1.101	0.948	1.037	1.125
	<i>Streptococcus agalactcia</i>	1.133	1.088	0.869	0.865
	<i>Proteus vulgaris</i>	0.922	0.665	0.643	0.795
<i>4<sup>th</sup> Hours</i>	Staphylococcus aureus	0.928	0.825	0.89	0.987
	Escherichia coli	0.656	0.794	0.716	0.863
	<i>Pseudomonas fragi</i>	1.492	1.387	1.361	1.287
	<i>Bacillus Subtilis</i>	1.097	0.94	1.036	1.105
	<i>Streptococcus agalactcia</i>	1.116	1.062	0.849	0.815
	<i>Proteus vulgaris</i>	0.914	0.656	0.626	0.782

2. **Arunkumar et al 2010 (Anti Fungal):** - cow urine distillates have antifungal activity against *Aspergillus niger* and *Aspergillus flavus*.



Fig-4: Antifungal activity

Comparison of two different species of fungal organisms, concluded that greatest enlargement inhibition was experiential in *Aspergillus niger* that was  $3\pm 0.14$ ,  $6.3\pm 1.2$  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 [3].

3. **Dr. Omprakash W.Taloka et al 2013 (Haemorrhoids):** Cow urine has been most useful in haemorrhoids Grade I & II [16,17]

4. **Dr Ashok et al (Cancer Treatment):** Cow urine has been decreased haematological toxicities of chemo + Radiotherapy induced toxicities. It has been help for patient giving relatively good quality of life [18].

5. **sanganalvet et al 2011 (wound healing) :** recent research help to findout that cow urine helpful in albino rat's wound healing.

Application of external it has been helpful in wound healing in preclinical studies [19].

6. **Rahul Kumar et al 2014( anthelmintic activity)**

Its combination with *Bauhinia Varigatia* helpful in helminthics worms infection. Boths combinations were highly effective as compaired with piperazine citrate. Synergistic activity due to presence of enzymes (Cystine Protease). It directly attack on structural protein & kill nematodes [23].

7. **Asma et al 2006(Hepatoprotective):** CdCl<sub>2</sub> induced hepatotoxicity was treated by 'kamdhenu ark'. Concluded that it has been beneficial for hepatic toxicity. It has been work as bioenhancer [24].

8. **Devendra et al 2012 (Antidiabetic Activity):** Cow urine helpful in reduction of blood glucose level. It should increased glucose carrying transversely cell membrane, than raised peripheral glucose. It has been present herbal metabolites.

#### TRADITIONAL USES OF COW URINE

1. Fever
2. Leprosy
3. Chronic leprosy



#### 4. Epilepsy

#### 5. Anemia [20]

#### As therapeutic agent

Cow urine has been excellent germicidal and antibiotic activity. Cow urine has been destroyed pathogenic organisms. It help to improve immunity [6]

□ Cow urine have proper nutrient. Which help for maintaining our body. Cow urine help for mind alertness and stress removing. It should be helpful for removing extra poisonous material in human body.

#### In agriculture

It has been useful in farming because increase Nitrogen level of soil [21]. Cow urine has been increased the nitrogen content in soil as compared to other animals urine [22].

#### CONCLUSION

Cow urine has been best opportunity for physical and mental health betterment. It was pastly uses by our parents but modern era divert. After picture its significance we will start as part of life. If compared with other system of medicines concluded that ayurveda is best. Try to explain importance of ayurveda for human beings.

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