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THE UNIVERSITY OF TRANS-DISCIPLINARY HEALTH SCIENCES & TECHNOLOGY

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ODE TO INDIAN KNOWLEDGE SYSTEM

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CONTEMPORARY RELEVANCE OF AYURVEDA-ANIMAL SCIENCES

Pashu Ayurveda (EVP) for reducing the use of Antimicrobials in veterinary practices for reduction of residue in the milk

Back ground

- High disease incidence in cross-breed animals & high treatment costs.
- Indiscriminate use of antibiotics in dairy animals leading to high veterinary drug residues in the animal products.
- Threats to human health due to microbial resistance to antimicrobials.

Our Mission

Is to work with relevant organizations in India and Globally to mainstream Pashu Ayurveda (EVP) to reduce the use of antimicrobial in veterinary practices.

Example Pashu Ayurveda (EVP) remedy for Mastitis

Aloevera

Turmeric

Calcium hydroxide

Preparation

Note: In the case of chronic mastitis add *Cissus quadrangularis* in the formulation and the treatment should be continued till the hardness of the udder is completely disappear

Clinical trial indicates Reduction of pH, Electrical Conductivity (EC) and Somatic Cell Count (SCC)in the milk of Mastitis affected cows after treatment with herbal formula in comparison with normal values.

Assessments - Ayurveda

This formulation consists of *Curcuma longa*, *Aloe vera* and Calcium hydroxide have properties of Vrana shodaka (Wound cleanser), Vrana ropaka (Wound healing) , Shotha hara (anti-inflammatory), Puti rodhaka (anti-infective) and Krimihara (anti- microbial). This remedy is very much beneficial in Mastitis.

In-Vitro Antimicrobial Activity of Ethno-veterinary Herbal Preparation for Mastitis The extracts of herbal formulation against mastitis had inhibitory activity against *E. coli* and *S. aureus*.

Research Article
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No	Clinical condition	Animals treated with EVM	% of cure
1	Fever	113172	83.6
2	Diarrhoea	110046	85.2
3	Acute Mastitis	104475	79.3
4	Chronic mastitis	52791	78.6
5	Indigestion	27358	83.9
6	Sub-clinical Mastitis	23986	82.5
7	Anoestrus	17617	74.5
8	Blood in milk	15718	84.4
9	Repeat breeder	13262	68.0
10	Deworming	11916	89.7
11	Udder oedema	9567	83.5
12	Wound	6534	81.7
13	Retention of placenta	5744	71.3
14	Bloat	5220	75.8
15	Ectoparasites/ticks	4164	82.7
16	Teat obstruction	4030	67.3
17	Endometritis	3770	81.1
18	Agalactia	2721	75.3
19	Downer	2720	66.2
20	Wart	2573	70.0
21	Lumpy Skin Disease	2258	75.0
22	Swelling/ Joint Pains	1913	74.4
23	Prolapse	1543	68.2
24	Poisoning (unknown origin)	647	69.2
	Total EVM Treatment	**543745**	**81.4**

Use of ethnoveterinary preparations for ailments in bovines in various milk unions.

Courtesy: National Dairy Development Board, Anand

Cost in Rs. for the treatment of various clinical conditions in cattle using veterinary drugs and Ayurveda formulations

Disease conditions	Number of animal treated	Average expenditure for vet service.	Average expenditure for herbal medicine is used in Rs	Amount saved in Rs
Mastitis	35	3000	120	2880
Maggot wound	28	962.5	60	881.7
Bloat& Indigestion	34	719.4	224	495.4
Repeat breeding	23	3060.7	430	2630.9
Cow pox	18	583.3	335	250
FMD	22	3165	1640	1525

Diseases Managed Well

1. Mastitis
2. Fever
3. Enteritis
4. FMD
5. Helmenthiasis
6. Udder edema
7. Thelities
8. Haemogalactia
9. Repeat breeding
10 Lumpy skin diseases
11. Ectoparasites
12. Anoestrum
13. Ovulatory disturbances in dairy animals
14. Indigestion
15. Bloat
16. Impaction of rumen
17. Wounds and Maggot wounds
18. Uterine infections
19. Retention of placenta
20. Downer cow
21. Dermatitis
22. HCN Poisoning
23. Post partum complications
24. Teat obstruction
25. Anorexia

Veterinarians trained across India

1. Andhra Pradesh
2. Assam
3. Delhi
4. Gujarat
5. Haryana
6. Karnataka
7. Kerala
8. Maharashtra
9. Punjab
10. Sikkim
11. Tamil Nadu
12. Telangana
13. Uttar Pradesh
14. West Bengal