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## RESEARCH ARTICLE

### AYURVEDIC MANAGEMENT OF LUMPY SKIN DISEASE: A CASE STUDY

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#### ABSTRACT

In present scenario Ayurveda spread globally. Ayurveda deals with the metallic and herbo mineral preparations with their types, occurrence, physical properties and organoleptic characteristics. Not only in human also in animal have very good effect by Ayurvedic herbs. Currently this is found that cow species have affected by a specific virus named lumpy skin disease virus (LSDV). Lumpy skin disease is a high-consequence disease in cattle caused by infection with the poxvirus lumpy skin disease virus (LSDV). The virus is endemic in most countries also in India. It is found that west Rajasthan had very badly affected by LSDV. Many cows had died due to infection of LSDV. It is important that signs and symptoms of disease are recognized rapidly by animal caregivers. In this disease cattle developed multifocal cutaneous nodules characteristic of LSDV. Chronic lesions consisted of full-thickness necrosis of the dermis and epidermis Lesions. This single case study highlights are preparation and effect of Ayurvedic medicine (Aragwadhadi kashayam) on LSDV affected cow.

## INTRODUCTION

Lumpy skin disease is a high-consequence disease in cattle caused by infection with the poxvirus lumpy skin disease virus (LSDV). The virus is endemic in most countries also in India. According Ayurveda skin gets affects as it is part of Rasadhatus causes many skin disorder. Aragwadhadi Kashaya is one of the best Ayurvedic formulation for skin disease like LSD. It is prepared by herbal ingredients which consist of water soluble active principles. This formulation was mentioned in Ashtanga Hridaya Shodhanadigana Samgrahaniya Chapter. This Ayurvedic drug have a properties of Kapha-Vata Hara, Ushna Virya and Katu Vipaka. According Ayurveda it is indicated in many skin disease, Visha etc. Acharya Charaka has explained Aragwadha as mild laxative and indicated in Kushtha Roga.

## MATERIALS AND METHODS

**Selection of patient** – A single cow was selected for case study on the basis of sign and symptoms of LSD.

## AIMS AND OBJECTIVES

**Aim:** To study the effect of Aragwadhadi Kashaya in LSD in cow.

**Objectives:** To highlight the effect of Aragwadhadi Kashayam in LSD.

## MATERIALS AND METHODS

Shodhanadi Gana Dravyas was explained by Acharya Vagbhata. he had mentioned about separately Aragwadhadi Gana. The drugs in this Gana are formulated in Kashaya form for internal also external usage. The drug was prepared at Dept. of Rasa shastra and Bhaishajya kalpana, Mandsaur institute of ayurvedic education and research, Mandsaur (M.P.) and single case study was done at kodukota (Bhilwara) under supervision of Veterinary officer.

**Method of preparation of Aragwadhadhi Kashaya:** 1 part of Aragwadhadi kashayam (coarse powder) boiled in 16 parts of water and reduced to 4 parts.

Ingrédients<sup>1</sup> and Rasa Panchaka of Aragvadhadi Kashayam

S.N.	Drug	Rasa	Guna	Virya	Vipaka	Karma	Indication
1.	Aragwadha <sup>2</sup> - Cassia fistula	Madhura	Mrudu Guru, Snigdha	Sita	Madhura	Kapha-Pittahara, Sramsana	Kushtha, Prameha
2.	Indrayava <sup>3</sup> - Holarrhena antidysenterica	Tikta, Kashaya	Laghu, Ruksha	Sita	Katu	Kapha-Pittahara,	Kushtha, Krimi, Visarpa
3.	Patala <sup>4</sup> - stereospermum suaveolen	Tikta, Kashaya	Laghu, Ruksha	Anusna	Katu	Tridoshara	Shotha, Raktapitta
4.	Nimba bark <sup>5</sup> - Azadiracta indica	Tikta, Kashaya	Laghu, Ruksha	Sita	Katu	Kapha-Pittahara, Dipana, Grahi	Kushtha, Visha Roga, Vrana, Kandu
5.	Kakatik <sup>6</sup> - Leela hirta roxb	Tikta, Kashaya	Laghu, Ruksha	Sita	Katu	Kapha-Pittahara	Kandu, Visha, Krimi
6.	Amruta <sup>7</sup> - Tinospora cordifolia	Tikta, Kashaya	Guru, Snigdha	Usna	Madhura	Tridosha Shamaka, Medhyarasayan	Kandu, Kushtha, Visarpa
7.	Madhuras <sup>8</sup> - Moringa oleifera	Tikta, Kashaya	Guru, Ruksha	Usna	Katu	Kapha-Vata Hara, Jwara Hara	Kushtha, Prameha
8.	Pata <sup>9</sup> - Cyclea peltat	Tikta	Laghu, Tikshna	Usna	Katu	Vata-Kapha Hara, Grahi	Krimi, Pliharoga
9.	Sruvavriksha <sup>10</sup> - Butea monosperma	Katu, Tikta, Kashay	Laghu, Snigdh	Usna	Katu	Vata-Kapha Hara, Grahi	Krimi, Pliharoga
10.	Bhunimba <sup>11</sup> - Andrographis paniculata	Tikta	Laghu, Ruksha	Usna	Katu	Kapha-Pittahra, Dipana	Kushtha, Kandu
11.	Saireyaka <sup>12</sup> - Srobilanthes ciliates	Tikta, Madhura	Laghu	Usna	Katu	Kapha-Vata Hara, Kesranjaka	Kushtha, Visha Roga, Vrana, Kandu
12.	Patola <sup>13</sup> - Tricosanthes cucumerina	Tikta, Katu	Laghu, Ruksha	Usna	Katu	Kapha-Pittahra, Dipana	Kushtha, Kandu
13.	Pootikaranja <sup>14</sup> - Holoptelia integrifolia	Tikta, Kashay	Laghu, Ruksha	Usna	Katu	Kapha-Pittahra, Krmighna	Kushtha, Krimi
14.	Karanja <sup>15</sup> - Pongamia glabra	Tikta, Katu, Kashay	Laghu, Tikshna	Usna	Katu	Kapha-Vata Hara, Shothhara	Kushtha, Krimi, Shotha
15.	Saptachada <sup>16</sup> - Alstonia scholar	Tikta, Kashay	Laghu, Snigdha	Usna	Katu	Tridoshara, Dipana, Hrdya	Kushtha, Krimi, Vrana
16.	Karavella <sup>17</sup> - Bitter gourd - Momordica charantia	Tikta, Katu	Laghu, Ruksha	Sita	Katu	Kapha-Pittahra, Dipana	Krimi, Prameha
17.	Agni <sup>18</sup> - Plumbago zeylanica	Katu	Laghu, Ruksha, Tikshna	Usna	Katu	Vata -Kapha Hara, Dipana	Krimi, Sula
18.	Bana <sup>19</sup> - Tephrosia purpurea	Tikta, Kashay	Laghu, Ruksha, Tikshna	Usna	Katu	Kaphavatahara, Vishaghna	Pliharoga, Jwara
19.	Madanphala <sup>20</sup> - Randia spinosa	Madhura Tikta,	Laghu, Ruksha	Usna	Katu	Kaphavatahara, Lekhana	Visharoga, Kushtha, Vrana

## Sign and symptoms of LSD affected cow (Before and After Treatment)

S.N.	Sign & Symptoms	Before treatment	After Treatment
1.	Fever	106° F	99° F
2.	Anorexia	Yes	NO
3.	Rhinitis	Yes	NO
4.	Conjunctivitis	Yes	NO
5.	Salivation	Yes	NO
6.	Cutaneous nodules size (multiple)	3-5 cm	Size reduce to 0.5-2 cm



Fig. 1. Before Treatment



Fig.2. Before Treatment



Fig. 3. After Treatment

**Aragwadhadi Kashay Indication:** Visha, Kushtha, Jwara, Chardi, Dushta Vrana, Prameha, Kandu, Kaphahara.

**Pharmacological action of Aragwadhadi Kashaya on LSD:** Aragwadhadi Kashayam reduce the Kapha Dosha and most of Ingredients are act on the skin. It has anti- bacterial, anti-viral, anti- microbial, anti-parasitic, and anti- inflammatory properties. So, it is also helpful for clearing the skin infections in LSD lesions. Aragwadhadi Kashaya indicated in skin disease like Kushta, Visrpa, Kandu, Granthi etc.

**Posology:** Kashayam – 0.5 to 1 ml/kg body weight diluted with equal quantity of water twice daily before food.

**Dose:** 200 ml diluted with 200 ml luke warm water twice daily before food.

**Duration** -21 days.

External hygiene was well maintained.

## DISCUSSION

Aragwadhadi Kashayam is a concentrated decoction prepared out of herbal ingredients, which consist of water-soluble active principles. This composition is described in Shodhanadigana Sangraha in 15th chapter of Ashtanga Hridaya. The drugs mentioned in these have Kushta, Vishahara, Kaphahara properties. It has mild laxative effects and it aids to eliminate Dushit Pitta and Kapha through stools. In skin diseases it works as the principles of detoxification. It reduces itching and burning sensation of skin. It is anti-microbial, anti-bacterial Ayurvedic medicine. According symptoms analysis Fever, Anorexia, Rhinitis, conjunctivitis, Salivation are completely cure also size of nodules are reduced significantly.

## CONCLUSION

LSD leads Tridosha vitiates and gradually seven Dhatus vitiates. Skin gets affected as it is a part of Rasadhatu.

Aragwadhadi Kashaya works on LSD because of having detoxification property predominantly Kaphahara. It reduces itching, redness and burning sensation of skin. There are no contraindications and side effects of drugs so it is safe to use. It is having property of Kushtaghna, Krimighna, Vishahara. It is concluded that Aragwadhadi kashayam is safe and efficacious ayurvedic drugs for LSD treatment, further also need control study.

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