



## NOVEL METHODOLOGIES FOR THE PREVENTION OF LUMPI SKIN DISEASE

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### ABSTRACT:

Lumpy skin disease is a high-consequence disease in cattle caused by infection with the poxvirus lumpy skin disease virus (LSDV). As LSDV spreads into new regions, it is important that signs of disease are recognized promptly by animal caregivers. So far approximately 1.43 lakh cattle affected by lumpy skin disease in Maharashtra. A novel research study is in progress at “Gaurakshan Santhan”, MauliDhande Dist Daryapur on the prevention of the Lumpi disease under the supervision of Prof. G.R.Bharsakale. This study describes the gross, microscopic, and ultrastructural changes that occur over time in cattle experimentally challenged with LSDV. In this method special type of paste made at “Gaurakshan Santhan from Natural Medicinal plants like Turmeric, Neem, and some special plants. The Infected cattle were washed daily with the Neem extracted water. The Bio paste is inoculated on the skin of the infected cattle’s everyday and monitored for 19 to 21 days. Also to prevent infection and spread of the virus a bio Manure waste was burned, the fumes of the the special modified manure is help to prevent the spreading the virus. During this time a special team of Veterinary doctors also monitor and observe their findings on the infected cattle’s. This study highlights the noteworthy observations on the prevention and control of Lumpi Skin Disease.

**Keywords:** - Lumpy Skin Disease Virus; Bio Paste; Washing Skin.

### INTRODUCTION :

Lumpy Skin Disease (LSD) is a viral disease that affects cattle. It is transmitted by blood-feeding insects, such as certain species of flies and mosquitoes, or ticks. It causes fever, nodules on the skin and can also lead to death, especially in animals that that have not previously been exposed to the virus. It is mainly cause by the infection of Capri pox Virus.

In Maharashtra the disease has spread to 35 districts and of 3.7 lakh infected, as many as 25,727 infected animals have died since the outbreak in September. The government has identified 3,985 epic-centers of the disease. Government of Maharashtra has taken major initiatives for controlling the spread of the lumpy disease. To prevent the spread of the disease “Gaurakshan Santhan, Mauli Dhande Daryapur” has started special treatment to cure LSD infected Cattles. The team have prepare a special

paste made from the natural medicinal plants along with some special additives. It is found that after the continuous treatment for 14 to 21 days it is observed that the spread of the Capri pox virus is in control and no new cattles are infected at the “Gaurakshan”. So this study and method of implementation of the medicinal paste is useful for the protection and prevention of the LSD diseases.



**MATERIALS AND MAKING OF MEDICINAL PASTE:**

At Gaurakshan Santhan, Mauli Dhande Daryapur a special type of natural low cost medicinal material is used in two different ways. The Cattle waste manure is mixed with the Neem leaves with special additives and burn twice daily. Which help to make the place and environment sterile and prevent the spread of the LSD virus in the nearby region.

A special paste is made with taking turmeric as a base material along with measured quantities of other materials and some additives.



**PROCEDURE:**

The Cattle waste manure is mixed with special natural additives in measured proportion. It is then burned twice a day to keep the place sterile and to stop the spreading of the Mosquitos and LSD Virus in the region.

The cattle were washed daily with the natural medicinal water and the paste made at “Gaurakshan implemented on the infected region of the cattles.” The process is repeated and the results are monitor for 14 to 21 days daily. A special team of the Veterinary doctors from the nearby region came and note the observations.



**OBSERVATION AND CONCLUSION:**

Continuous monitoring of the treatment is made fro 14 to 21days and observed that the spreading of the LSD virus is controlled and level of the LSD Capri Pox Virus is reduced and observed and noted by the Veterinary Doctors from Daryapur-Anjangaon (surgi) region visited Gadgebaba Gorakshan Mahuli (Dhande) to observe the different Innovation/ Novelty works at “Gaurakshn Santhan Mauli Dhande, Daryapur” under the guidance of Prof G R Bharsakle in Environmental and animal & husbandry Area.

