

## **Research Work Done on Gomaya Preparations:**

### **1) Effect of Topical Application of Kamdhenu Marham on Incision and Excision Wounds\***

Histopathological examination of the wound sections showed that Kamdhenu Marham promotes epithelization and fibrosis and to some extent collagenation and neovascularization. Although the healing is not comparable to standard wound healing agent treated wounds, treatment with Kamdhenu Marham showed better healing as compared to untreated control wounds.

### **2) Appreciation of Dantamanjan by practicing periodontist in his own words:**

Kranthi.J (MDS, consultant periodontist in Hyderabad)

I am a periodontist ie I am specialised in gum diseases and treat patients having complaints like bleeding gums, bad breath, swollen gums, and lose teeth. I have been in this field since 1981. Before coming to use of your tooth powder I used to prescribe to my patients a minimum of 4 allopathic drugs which includes antibiotics like tetracycline/doxy/leidermycin/ amox and metronidazole and vitamin C, and one anti inflammatory along with a mouth wash and gum paint. I used to feel very bad whenever i had to prescribe such a long list of medicines. Of course all those drugs were prescribed in very severe infections. We conduct our procedures like scaling, root planing and periodontal flap surgeries for complete cure.

Periodontal problems are very common in diabetic patients. One of my family members having more than 300 Fasting blood sugar started using cow based tooth powder. I was observing his gum condition for last 15 years and nobody will beleive that he is diabetic by seeing his pink and firm gums withuot any periodontal problems. Then I started using that . Any tooth powder should not be abrassive as it may damage enamel. First i was hesitant to use it. Then I just added little water and used with soft brush and found it is safe. I started giving these bottles to my staff who have perio problems. Some of patients who were not responding to my medication I asked them to use this powder thrice daily to massage gums and to report after a week. To my surprise the feed back was so good and patients started enquiring about the availability of this poder. as it is not available in Hyderabad I started purchasing from Devlapar near Nagpur ie your centre. I made it available at my clinic, hospital and also at home. I addressed thousands of students and rural poor and explained them the benefits of using this tooth powder. i personally might have marketted few thousands of tooth powders. We have introduced this tooth podder to 3 teams of Americans who visited India in 2009, +2011 and 2012 on piligrimage of peace.

I have patients like medical doctors, scientists, teachers, nurses, students and engineers who use this powder . These patients comment as follows

We feel fresh minimum of 12 hours and if we use regular tooth pastes we feel bad breath in 6 hours. My gum bleeding is totally stopped. I feel that my teeth have become strong and mobility has come down. I feel my tartar is breaking. Now there is no pus from my gums.

### **My advice to patients:**

After doing scaling and if required flap surgery I educate patient on oral hygiene, ingredients of dantmanjan and importance of massaging gums with dantmanjan and also there is no need of using a regular tooth paste .

As a senior Periodontist I strongly recommend this tooth powder for healthy gums and also it is Swadeshi rural product made from Native cowdung and We should promote this product to achieve Gandhiji,s Gram Swaraj .Let us start our day by using Dantmanjan early in the morning for our healthy and happy smiles through out the day.

## **2) Analysis Report Of Kamdhenu Soap**

### **A] Objective of the present work :**

- To improve the product on commercial scale. It was found that inspite of the presence of good medicinal properties it breaks after a particular period of use.
- To make a study on microbial count in order to rule out the presence of bacteria, fungi, and azatobacter in the finished product.
- To improve the product in such a manner to give it qualities of a commercially available soap as regard to its feel, texture, touch, perfume etc.

### **B] Indications (Uses) :**

Skin problems such as:

- Pimples
- Pustules
- Itching
- Eruptions etc.
- Improves luster of skin
- Prevents other skin disorders

### **C] Comparative analysis of basic ingredients**

<b>Sr.No.</b>	<b>Traditional Soap.</b>	<b>Kamdhenu Soap.</b>
1.	Raw Materials Used:  a) Fatty Acid or Oil. b) Alkali. c) Fillers. d) Builders. e) Perfume. f) Color g) Antioxidants.	Raw Materials Used:  a) Multani Mitti. b) Geru. c) Gomaya Powder d) Gomaya Ras. e) Til oil. f) Neem Kadha.
2.	Manufacturing process :  Initially Saponification reaction is carried out by reacting Fatty Acid or Oil With Calculated amount of alkali. Later additions of Fillers, Builders, perfume, color are done. After the	Manufacturing Process:  Initially Multani Mitti, Geru, and Gomaya Powder, are thoroughly ground in the Pulverizer. This powder is mixed with the help of gomaya ras prepared by heating together water

	thorough mixing in triple roll mixer, the mass is transferred to the plodder to get the homogeneous shining finished product.	and gomaya with til oil followed by filtration. The prepared powder is mixed with the liquid and a paste is formed which is later moulded and given the shape of a soap
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**D) What is the expectation of people in general when they buy soap from the market?**

1. Proper cleansing action.
2. Product should give proper foam on use and its perfume should not cause irritation while using the product.
3. To buy a product mostly shown on TV advertisement.
3. To buy a product with attractive packing.
4. To buy a product with good perfume and attractive colour.
5. Price factor.

**E) Can we or should we match that expectation: No**

If so why?

Reason for talks about question can be explained as follows:

When one talks about soap it means a product that is used for cleaning purpose in general and having good perfume, attractive color, good texture, as explained above in point No. F. But in the Kamdhenu soap neither there is any perfume, nor can it provide a Customer any texture due to absence of any fatty matter. But technically speaking we know that soap can be defined as an alkali salt of fatty acid i.e. a product formed by reaction of fatty acid with alkali containing proper additives etc. But Kamdhenu Soap is totally made up of powdered raw materials that are bound together with gomaya ras and til oil including the Neem Kadha and is finally given a shape of soap. But it contains on fatty matter.

The product does not cater to the customers with the normal expectation they have from soap. But it has high medicinal value, which is absent in the other routine available soaps in the market. Any attempt to give the product the Qualities of commercially available soaps will definitely compromise its medicinal values, which is not desirable.

**Result :** After the analysis of Kamdhenu Soap for Bacteria, Fungi and Azetobacter it was found that the percentage of all the above microbial count was found to be Nil to very less, this less amount may be due to contamination from the surrounding micro flora. Thus it indicates that any type of microbial action does not affect the soap during its storage or use.

**Conclusion:**

- The result of the microbial study, which has come out negative, eliminates the doubt among the general public that the usage of cow dung etc during the production may lead to the presence of contamination by microorganisms.
- This testing need to be repeated in the different phase of production of the kamdhenu soap such as in the wet form and dried form etc.
- Correlating the qualities of this product with the commercially available soap brands is not justified

- Calling this soap is a misnomer, as the product does not fit into the definition of soap as explained earlier. The medically valuable product will lose its basic qualities if changes are made to imitate and give it the consistency and quality of commercial brands of soap.
- The point that it is free from any microorganisms can be explained for commercial success and increase the usage of the product among the consumers.