

**“PHARMACEUTICAL DEVELOPMENT OF
TOOTHPASTE OF KUSHTADI CHURNA AND ITS
ANALYTICAL EVALUATION”**



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Scholar

Dr. Hariaumshree S.P.S Nair, B.A.M.S

**Under the supervision of
Guide**

Dr. Raghuveer

M. D. (Ayu.) Ph.D.

Associate Professor,

Department of Rasashastra evum Bhaishajya Kalpana, PIA

Co-Guide

Dr. Rakesh Patel

M. Pharm, Ph.D

Associate Professor & Head,

Dept. of Pharmaceutics, PIP

Department of Rasashastra evum Bhaishajya Kalpana,

Parul Institute of Ayurved,

Parul University, Limda, Vadodara, Gujarat-391760 (India)

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ABSTRACT –

Introduction:

Kushtadi Churna is one of the classical formulations described in *Chakradatta*, *Mukharoga adhikara* which is used for problems related to tooth and gums. There is no research work has been carried out on the standardization and quality control aspects of *Kushtadi Churna*. In present scenario, people find it difficult for applying *churna* over the teeth as it is. So for better convenience and applicability, it has to be converted into a suitable dosage form. In the present study, an attempt was made to prepare an elegant Toothpaste from the already explained formulations in classics for *pratisarana* i.e. *Kushtadi churna*.

Aims & Objectives:

1. To convert *Kushtadi Churna* into *Kusthadi* Toothpaste.
2. To develop Standard Manufacturing Procedure of *Kusthadi Churna* & *Kushtadi* Toothpaste.
3. To develop possible analytical profile of *Kushtadi* Toothpaste.

Collection of raw materials

Kushta, *Daruharidra*, *Lodhra*, *Mustha*, *Manjishta*, *Katuka*, *Patha*, *Tejani* and *Haridra*; were procured from Pharmacy, Parul Institute of *Ayurved*, and was authenticated.

Material and Methods

It consists of three broad heading as

1. Conceptual study
2. Pharmaceutical study
3. Analytical study

Result:

After performing many trials and errors, a final composition of *kushtadi* toothpaste, which had good aroma, acceptable taste, elegance and the criteria which was eligible for toothpaste formulation was made final for the rest of the study. The analytical study was carried out for both *kushtadi churna* and its toothpaste, were all within the range. The evaluation criteria for toothpaste was done and it showed good result and the HPTLC study, Anti-microbial study as well as Culture Sensitivity Test, the toothpaste had shown a good performance over the colony forming unit/ml over the oral bacteria's.

Discussion –

Therefore it is seen that *Kushtadi* toothpaste is having certain therapeutic efficacy almost equivalent to *Kushtadi Churna* and there is much difference in Pharmaceutical and Analytical study of *Kushtadi Churna* and its toothpaste. The *Kushtadi churna* and toothpaste should be studied in detail for its Anti-Microbial with specific pathogens of oral region, also its stability studies and clinical efficacy.

Keywords – Analytical study, *Kushtadi churna*, *kushtadi* toothpaste