

Pharmaceutical and analytical studies of *Kanadi Cūrṇa* and standardization of its tooth gel

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Abstract

Background: Recently, the therapeutic regimen prefers to recommend the polyherbal formulation for the management and treatment of various diseases due to their lesser side effect and more compatible to a living organism. This leads to exponential growth in the development of various polyherbal formulations. For the acceptance of a polyherbal formulation, standardization of the formulation is highly essential, but most of the formulation lack of standardized data. *Cūrṇa* is an Ayurvedic formulation consists of mixture of powdered drugs. *Kanadi Cūrṇa* is an important Ayurvedic formulation that mentioned in *Vaidya Cintāmaṇi* and recommended for dental problem (*mukh rog* and *sheethada*). **Objective:** The present study is designed to prepare and standardize *Kanadi Cūrṇa* and its tooth gel. **Materials and Methods:** *Kanadi Cūrṇa* was prepared as per classical text and it is pharmaceutical, physicochemical, and phytochemical parameters were evaluated as per the WHO guidelines. Physical parameters of its tooth gel were also studied as per the WHO guideline. **Results:** The results of all set parameters of *Kanadi Cūrṇa* and its tooth gel showed within the limit as per Ayurvedic Pharmacopoeia of India standards. **Conclusion:** The prepared *Kanadi Cūrṇa* and its tooth gel formulation possessed all parameters within the limit. These data can be used for the manufacturing of standard *Kanadi Cūrṇa* and its tooth gel for dental problems.

Key words: *Kanadi Cūrṇa*, micromeritics, phytochemical, physicochemical, tooth gel

OBJECTIVE

Ayurveda is holistic approach of treatment in which medications are recommended for the social, mental, and physical fitness. In *Suśruta Samhita* the description about dental disease and the treatment procedure has been mentioned. Diseases which affect the cavity of the mouth are known as dental disease and also in *Vaidya Cintāmaṇi* description of *mukh rog* and *sheethada* are described.^[1] Dental disease is admitted as a major public health problem in developed and developing countries. As we know dental disease may be chronic or acute, for that their long-term treatment is seldom necessary. It is not the disease of a particular age. Children, youngsters and old people also suffer from the dental disorder.^[2,3] A disease on the tissue which surrounds or supports the teeth (periodontium)

is called as a periodontal disease. Dental plaque (microbial biofilm) has been found to be responsible for periodontal disorders.^[4,5] One of the major dental problem is gingivitis, which is mainly initiated by dental plaque or bacterial biofilm that is deposited on the teeth nearby gingiva (gums), which effects 50–90% of world's population.^[4] Several modern types of mouthwash and rinses containing antibacterial agents that are effective in dental plaque have been investigated. In several studies, Chlorhexidine mouthwash has been evaluated clinically in dental plaque, gingival inflammation, and gum bleeding.^[6-9] Despite effectiveness, the available modern antibacterial rinses have been associated with undesirable side effects such as loss of taste, burning sensation of the oral

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