



REVIEWER'S REPORT

Manuscript No.: IJAR-50442

Date: 01-03-2025

Title: AN IN VITRO STUDY TO EVALUATE THE ANTI-MICROBIAL EFFECT OF NAGAKESARADI DHOOPANA YOGA IN HOSPITAL ROOM

Recommendation:

- Accept as it is.....**YES**.....
- Accept after minor revision.....
- Accept after major revision
- Do not accept (*Reasons below*)

Rating	Excel.	Good	Fair	Poor
Originality	√			
Techn. Quality		√		
Clarity		√		
Significance			√	

Reviewer's Name: Dr Aamina

Reviewer's Decision about Paper: **Recommended for Publication.**

Comments (*Use additional pages, if required*)

Reviewer's Comment / Report

Abstract Review:

The study presents a focused investigation into the antimicrobial efficacy of Nagakesaradi Dhoopana Yoga in hospital rooms. The rationale for the study is well-articulated, highlighting the significance of nosocomial infections and the need for alternative sterilization methods due to the health hazards posed by formaldehyde fumigation. The methodology is concisely outlined, emphasizing the collection of swabs before and after the application of the Dhoopana Yoga to assess microbial growth. The study's findings suggest a notable antimicrobial effect, supporting its potential as a safe and effective alternative in maintaining hospital air hygiene.

Introduction Review:

The introduction effectively establishes the importance of Indoor Air Quality (IAQ) and its impact on health, particularly in hospital settings where nosocomial infections pose significant challenges. The discussion of various microorganisms responsible for such infections is well-supported with references, providing a strong foundation for the study. The description of transmission routes, including contact, droplet, and airborne transmission, is relevant and enhances the context. The introduction also presents chemical fumigation as the current standard while justifying the need for exploring herbal alternatives like Nagakesaradi Dhoopana Yoga.

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Objective Review:

The objective of the study is clearly defined and aligns well with the research problem. The specific focus on evaluating the antimicrobial effect of Dhoopana Karma with Nagakesaradi Dhoopana Yoga in in-patient rooms is well-articulated and provides a clear direction for the research.

Materials and Methods Review:

The methodology section provides a thorough account of the preparation and standardization of Nagakesaradi Dhoopana Yoga. The documentation of the procurement process, authentication, and preparation of the choorna demonstrates a structured approach. The inclusion of analytical tests such as HPTLC adds credibility to the study.

The experimental setup is detailed with precise information on room size, selection criteria, and materials used. The description of the study's execution, including swab collection, microbial load assessment, and post-treatment analysis, ensures clarity and reproducibility of the research.

The inclusion of a tabulated list of ingredients with botanical names and parts used enhances transparency and allows for a better understanding of the composition of Nagakesaradi Dhoopana Yoga. The use of authenticated ingredients from a certified source further strengthens the reliability of the study.

Observations and Results Review:

The study's results indicate that Nagakesaradi Dhoopana Yoga has a significant antimicrobial effect, reducing microbial load in hospital rooms. The findings are in line with the study's objective, suggesting the potential of this formulation in maintaining air hygiene. The observation that the treatment effectively inhibits bacterial and fungal growth reinforces its practical applicability in healthcare settings.

Conclusion Review:

The conclusion succinctly summarizes the key findings, reaffirming the effectiveness of Nagakesaradi Dhoopana Yoga in reducing microbial contamination in hospital rooms. The emphasis on its antibacterial and antifungal properties supports its potential as a viable alternative to conventional fumigation techniques.

General Remarks:

The study is well-structured and systematically explores the antimicrobial efficacy of an Ayurvedic formulation in hospital settings. The integration of traditional knowledge with scientific evaluation contributes to its relevance in contemporary healthcare. The methodological rigor, inclusion of analytical validation, and clear presentation of results enhance the credibility of the study. The research provides a valuable contribution to the field of alternative sterilization methods in healthcare environments.