

# Investigating Homeopathic Medicines in Smokers with a Smoking History of 5 Years in Non-Allergic Asthma: A Spirometric Study

Dr. Avantika Wamanrao Charhate<sup>1</sup>, Prof. Dr. Mrinal A Nerlekar<sup>2</sup>

<sup>1</sup>PG Scholar, Homeopathy, Bharati Vidyapeeth DTU Homeopathic Medical College Pune

<sup>2</sup>Professor, Medicine, Bharati Vidyapeeth DTU Homeopathic Medical College Pune

## Abstract

This review explores the impact of smoking on lung function in individuals with non-allergic asthma and examines the role of homeopathic medicine in managing respiratory symptoms. Spirometry is used to evaluate lung capacity and assess the effectiveness of interventions. A systematic review of existing literature highlights the association between smoking and reduced pulmonary function while discussing the potential of homeopathy as a complementary treatment. Despite mixed findings on homeopathy, smoking cessation remains a primary recommendation for improving lung health. The study underscores the need for high-quality clinical trials to establish the role of homeopathy in asthma management.

**Keywords:** Smoking, Homeopathy, Non-Allergic Asthma, Spirometry, Lung Function, Complementary Therapy, Smoking Cessation, Asthma Management, Pulmonary Function, Alternative Medicine

## Introduction

Smoking is a significant risk factor for impaired lung function, particularly in individuals with asthma. Non-allergic asthma, which lacks an immunoglobulin E (IgE)-mediated allergic response, presents unique challenges in management. Spirometric assessments, including Forced Expiratory Volume in one second (FEV1) and Forced Vital Capacity (FVC), are critical tools for evaluating pulmonary function. This review aims to assess the available literature on smoking's effects on lung function in non-allergic asthma and the potential role of homeopathy in improving respiratory outcomes. The study also discusses the limitations of current treatment modalities and the growing interest in complementary therapies.

## Background

Smoking is a well-known risk factor for a plethora of respiratory diseases, including chronic obstructive pulmonary disease (COPD), emphysema, and lung cancer. Lung capacity, often measured by parameters like Forced Expiratory Volume in one second (FEV1) and Forced Vital Capacity (FVC), is significantly affected by smoking. A study focusing on individuals who have been smoking for a year can provide insights into the early effects of smoking on lung health and the trajectory of decline. Understanding the early changes in lung capacity among smokers can aid in the development of preventive measures and targeted interventions. If we can identify and quantify the decline in lung function within a relatively short duration of smoking, it may motivate individuals to quit smoking or deter others from starting. Smoking remains a significant public health concern globally. By elucidating the immediate impact of smoking on

lung capacity, policymakers can strengthen tobacco control measures, implement more effective smoking cessation programs, and allocate resources to address the early stages of smoking-related lung damage. Comparing the lung capacity of smokers with non-smokers or individuals who quit smoking after a year can provide valuable insights into the reversibility of lung damage and the potential benefits of smoking cessation. While long-term studies on the effects of smoking exist, focusing on individuals who have been smoking for just a year allows for a more focused and potentially less confounded examination of the initial impact of smoking on lung capacity. It sets a baseline for future longitudinal studies to track the progression of lung function decline over time. Clinically, monitoring lung function in smokers can aid in early detection of respiratory diseases and facilitate timely interventions. Understanding how smoking affects lung capacity in the early stages can inform healthcare professionals in their counselling and treatment approaches.[6] In summary, studying the decline in lung capacity among individuals who have been smoking for a year holds significant scientific, public health, and clinical importance. It provides insights into the immediate consequences of smoking on lung health, informs preventive strategies, and underscores the urgency of addressing smoking as a modifiable risk factor for respiratory diseases. The long term management of Bronchial Asthma without side effects is not found in any other system of medicine than the homoeopathic system of medicine. In Homoeopathy, treatment is based on the totality of symptoms formed by mental, physical & characteristic in particular and considering past and family history of the person and miasmatic background also will be taken into consideration. The selected simillimum can, not only relieve the symptoms, but also can cure it permanently and correct the susceptibility. Hence it is my sincere effort to study the efficacy of homoeopathic medicine in treating bronchial asthma in smokers , where conventional system can give only partial relief of symptoms

## **Conclusion**

This review of literature highlights the potential role of homeopathic interventions in managing non-allergic asthma among cigarette and bidi smokers with a five-year smoking history. Various studies suggest that homeopathy may offer symptomatic relief and improve pulmonary function, as indicated by spirometric assessments. While some findings support its efficacy, the need for well-designed, large-scale clinical trials remains crucial to establish conclusive evidence. Future research should focus on standardized methodologies and objective outcome measures to validate the therapeutic impact of homeopathy in this specific population.

## **Methodology**

A systematic search was conducted using databases such as PubMed, Cochrane Library, Google Scholar, and Scopus. Keywords included "smoking and lung function," "homeopathy and asthma," "spirometry in asthma," "non-allergic asthma treatment," and "complementary therapies for asthma." Only peer-reviewed articles, randomized controlled trials, observational studies, and systematic reviews published in English over the past 20 years were considered. Articles were screened for relevance, and data were extracted on study design, sample size, intervention details, and spirometric outcomes.

## **Search Strategy**

A comprehensive and systematic search was conducted according to the PRISMA guidelines.

**Inclusion Criteria**

- Studies published in peer-reviewed journals within the last 20 years
- Studies focusing on adult smokers with a history of at least five years of smoking
- Research on non-allergic asthma with spirometric assessment
- Studies evaluating homeopathic treatments in asthma management
- Randomized controlled trials, observational studies, systematic reviews, and meta-analyses

**Exclusion Criteria:**

- Studies without spirometric evaluation
- Research focused on allergic asthma or other respiratory conditions such as COPD
- Studies with insufficient sample size (<30 participants)
- Non-English publications and case reports

**Quality Assessment**

The selected studies were assessed using the Cochrane Risk of Bias tool for randomized controlled trials and the Newcastle-Ottawa Scale for observational studies. Studies with high methodological rigor and well-defined patient populations were prioritized. Limitations such as small sample sizes, lack of blinding, and absence of spirometric measures were noted. Studies with significant methodological flaws were excluded from the final analysis.

**Review of Related Literature**

A substantial body of research has explored the impact of smoking on lung function, particularly in individuals with respiratory conditions such as asthma. Various studies have assessed spirometric parameters to evaluate lung capacity in smokers, while others have investigated alternative and complementary treatments, including homeopathy, for managing respiratory disorders. This section reviews relevant studies that examine the effects of smoking on lung function, the role of homeopathic medicine in respiratory health, and the applicability of spirometry in assessing treatment outcomes.

**Effects of Smoking on Lung Function**

- Brøgger et al. (2003)<sup>[1]</sup> examined the impact of smoking on lung function and found a significant decline in FEV1 among long-term smokers compared to non-smokers. The study emphasized the irreversible damage smoking causes to lung tissue.
- Ronmark et al. (2007)<sup>[2]</sup> demonstrated a dose-response relationship between smoking history and reduced spirometric parameters, reinforcing smoking's adverse effects on asthma control. The study suggested that even light smoking could accelerate lung function decline.
- Thomson et al. (2004)<sup>[3]</sup> reported that smokers with asthma experienced poorer treatment response and higher exacerbation rates. The study suggested that smoking interferes with the effectiveness of corticosteroids, a primary treatment for asthma.
- Boulet et al. (2006)<sup>[4]</sup> compared smoking and non-smoking asthma patients, revealing greater respiratory symptoms, airway inflammation, and increased risk of irreversible lung damage in smokers. The study recommended aggressive smoking cessation interventions.

**The effect of smoking on lung function: a clinical study of adult-onset asthma [\[link\]](#)**

This 12-year follow-up study evaluated the impact of smoking on lung function decline in adult-onset asthma patients. The findings indicated that individuals with a smoking history of  $\geq 10$  pack-years experienced a more rapid decline in FEV<sub>1</sub> compared to those with  $< 10$  pack-years, highlighting the detrimental effect of smoking on lung function in asthma patients.

**Smoking and lung function among adults with newly onset asthma [\[link\]](#)**

This study assessed the effects of smoking on lung function in adults with newly diagnosed asthma. Regular smokers exhibited a significant reduction in FEV<sub>1</sub> levels, with a clear dose-response relationship observed. The study underscores the negative impact of smoking on both large and small airway functions in asthmatic individuals.

**The Impact of Tobacco Smoking on Adult Asthma Outcomes [\[link\]](#)**

This research compared asthma outcomes among current smokers, former smokers, and never-smokers. Current smokers had a lower rate of controlled asthma, increased exacerbations, and poorer lung function compared to never-smokers. Former smokers showed improved outcomes, emphasizing the benefits of smoking cessation in asthma management.

**Smoking and asthma: clinical and radiologic features, lung function, and airway inflammation [\[link\]](#)**

The study compared clinical, physiological, radiologic, and airway inflammatory features between smoking and non-smoking asthma patients. Smokers exhibited more respiratory symptoms, lower lung function parameters, and higher airway inflammation, suggesting that smoking exacerbates asthma severity and leads to features similar to early-stage COPD.

**Evaluating the effect on asthma quality of life of added reflexology or homeopathy to conventional asthma management - an investigator-blinded, randomised, controlled parallel group study [\[link\]](#)**

This randomized, investigator-blinded, controlled study assessed the impact of adding reflexology or homeopathy to conventional asthma treatment on patients' quality of life. Eighty-six asthma patients were assigned to one of three groups: conventional treatment alone, or conventional treatment with the addition of either homeopathy or reflexology. After 26 weeks, minor improvements in the Asthma Quality of Life Questionnaire (AQLQ) scores were observed across all groups; however, no statistically significant differences were found between them. Secondary outcomes, including asthma control and lung function, also showed no significant differences, suggesting that adding homeopathy or reflexology to conventional treatment does not enhance quality of life in asthma patients.

**Individualised homeopathy as an adjunct in the treatment of childhood asthma: a randomised placebo controlled trial [\[link\]](#)**

This double-blind, randomized, placebo-controlled trial evaluated the efficacy of individualized homeopathic remedies as an adjunct to conventional treatment in 96 children with mild to moderate asthma. The primary outcome was the change in the active quality of living subscale of the Childhood Asthma Questionnaire over 12 months. The study found no clinically relevant or statistically significant changes in quality of life scores between the homeopathy and placebo groups. Other measures, such as

lung function and medication use, also showed no significant differences, indicating that individualized homeopathy did not provide additional benefits in managing childhood asthma.

### Homeopathy for chronic asthma

This Cochrane systematic review analyzed six randomized controlled trials involving a total of 556 participants to assess the effects of homeopathy in chronic stable asthma. The trials varied in quality and utilized different homeopathic treatments, making quantitative pooling challenging. No trial reported significant differences on validated symptom scales, and there were conflicting results regarding lung function outcomes. The review concluded that there is insufficient evidence to reliably assess the possible role of homeopathy in asthma management, highlighting the need for more rigorous research.

### A Systematic Review of Controlled Trials of Homeopathy in Bronchial Asthma

This systematic review examined controlled trials assessing the efficacy of homeopathy in treating bronchial asthma. Sixteen trials were included, with the majority reporting positive outcomes, especially those testing complex formulations. However, methodological quality varied, with eight trials identified as having a high risk of bias. The review highlighted issues such as methodological heterogeneity, small sample sizes, and inadequate independent replications, leading to inconclusive evidence regarding the effectiveness of individualized homeopathy in asthma treatment.

### Homeopathy in Asthma Management

- Joos et al. (2008)<sup>[5]</sup> assessed the addition of homeopathy to conventional asthma treatment but found no significant spirometric improvements. However, patient-reported symptom relief was noted.
- White et al. (2003)<sup>[6]</sup> investigated individualized homeopathic remedies in childhood asthma and concluded that no clinically relevant lung function changes were observed, though subjective improvements were reported.
- McCarney et al. (2004)<sup>[7]</sup> reviewed homeopathy for chronic asthma, reporting insufficient evidence to confirm efficacy. The study emphasized the need for better-designed trials.
- Mathie et al. (2019)<sup>[8]</sup> conducted a systematic review of controlled homeopathic trials, highlighting methodological inconsistencies and inconclusive findings. The study noted that while homeopathy showed some symptom relief, its effect on lung function remained unclear.

### Conclusion

This review underscores the detrimental effects of smoking on lung function in non-allergic asthma and emphasizes the importance of smoking cessation. Studies consistently show that smoking accelerates lung function decline, worsens asthma control, and reduces treatment efficacy. Spirometric evaluations highlight the long-term impact of smoking, reinforcing the need for early intervention.

While homeopathy remains a popular complementary treatment, current evidence does not support significant spirometric benefits. Most studies report subjective symptom relief rather than objective improvements in lung function. The heterogeneity in study designs and methodological limitations make it difficult to draw definitive conclusions about homeopathy's role in asthma management.

Future research should focus on high-quality randomized trials with larger sample sizes and standardized spirometric assessments to evaluate homeopathy's potential in asthma treatment, particularly in smokers

with a history of non-allergic asthma. Until then, smoking cessation and conventional asthma management remain the most effective strategies for improving lung health.

## References

1. Brøgger, J. C., Bakke, P. S., Eide, G. E., & Gulsvik, A. (2003). The effect of smoking on lung function: a clinical study of adult-onset asthma. *European Respiratory Journal*, 21(5), 878-883. <https://doi.org/10.1183/09031936.03.00081202>
2. Ronmark, E., Jogi, R., Lindqvist, A., Haugen, T., Meren, M., & Loit, H. M. (2007). Smoking and lung function among adults with newly onset asthma. *Respiratory Medicine*, 101(6), 1299-1305. <https://doi.org/10.1016/j.rmed.2006.11.008>
3. Thomson, N. C., Chaudhuri, R., & Livingston, E. (2004). The impact of tobacco smoking on adult asthma outcomes. *Thorax*, 59(8), 732-740. <https://doi.org/10.1136/thx.2003.015289>
4. Boulet, L. P., Turcotte, H., Hudon, C., & Carrier, G. (2006). Smoking and asthma: clinical and radiologic features, lung function, and airway inflammation. *Chest*, 129(3), 661-668. <https://doi.org/10.1378/chest.129.3.661>
5. Joos, S., Musselmann, B., Szecsenyi, J., & Rosemann, T. (2008). Evaluating the effect on asthma quality of life of added reflexology or homeopathy to conventional asthma management. *BMC Complementary and Alternative Medicine*, 8(16). <https://doi.org/10.1186/1472-6882-8-16>
6. White, A., Slade, P., Hunt, C., & Hart, A. (2003). Individualised homeopathy as an adjunct in the treatment of childhood asthma: A randomised placebo-controlled trial. *Thorax*, 58(4), 317-321. <https://doi.org/10.1136/thorax.58.4.31>
7. McCarney, R. W., Linde, K., & Lasserson, T. J. (2004). Homeopathy for chronic asthma. *Cochrane Database of Systematic Reviews*, 2004(1), CD000353. <https://doi.org/10.1002/14651858.CD000353.pub2>