ISSN: 2320-2882

ICR

IJCRT.ORG



## INTERNATIONAL JOURNAL OF CREATIVE RESEARCH THOUGHTS (IJCRT)

An International Open Access, Peer-reviewed, Refereed Journal

# **"NATRUM SULPHURICUM IN HEREDITARY ASTHMA OF CHILDREN:**

A case study and in-depth analysis"

<sup>1</sup>Dr Lovely Srivastava, <sup>2</sup>Dr Grishma Panicker, <sup>3</sup>Dr. Arti Ghate, <sup>4</sup>Dr Pranav Srivastava <sup>1</sup>Assistant Professor, <sup>2</sup>Assistant Professor, <sup>3</sup>Associate Professor, <sup>4</sup>Assistant Professor <sup>1</sup>Department of Community Medicine, <sup>1</sup>Ahmedabad Homoeopathic Medical College, Ahmedabad, India

*Abstract:* Asthma is a major non-communicable disease (NCD), affecting both children and adults and is the most common chronic disease among children. Asthma affected an estimated 262 million people in 2019 (1) and caused 4,55,000 deaths. Homeopathy plays a major role in the management of asthma both in terms of acute exacerbation and chronic phases by reducing the recurrence of episodes in terms of its frequency, duration, and intensity. Prolonged use of homoeopathic medicines succeeded in reducing the drug dependence on inhalers and bronchodilators etc. Asthma, when hereditary, is one of the sycotic complaints of Hahnemann. Natrum Sulphuricum is a very excellent remedy when it comes to humid asthma, especially in children with a strong hereditary background it goes down to the bottom of the case and will cure the case.

*Keywords* – Asthma, children, hereditary, sycotic.

## I. INTRODUCTION

The prevalence of asthma varies widely among countries/geographical regions and also within countries with different geographies and socioeconomic strata <sup>[10, 11]</sup>.

Asthma is a common chronic respiratory disease that affects the airways in the lungs. It can lead to recurrent episodes of breathing difficulties, which can range from mild to severe. These episodes are often triggered by allergens, irritants, infections, or exercise. During an asthma attack, the airways become inflamed, narrowed, and produce excess mucus, making it difficult to breathe.

## II. EPIDEMIOLOGY

The Indian Study on Epidemiology of Asthma, Respiratory Symptoms and Chronic Bronchitis in Adults (INSEARCH) estimated the national burden of asthma at 17.23 million with an overall prevalence of 2.05% <sup>[8]</sup>. The recent Global Burden of Disease (GBD, 1990–2019) estimated the total burden of asthma in India as 34.3 million, accounting for 13.09% of the global burden <sup>[9]</sup>. It also attributed that there were 13.2 per thousand deaths due to asthma in India <sup>[9]</sup>. Asthma accounted for 27.9% of disability-adjusted life years (DALYs) in the Indian population <sup>[9]</sup>. India has three times higher mortality and more than two times higher DALYs compared to the global proportion of asthma burden.<sup>[7]</sup>

#### III. ETIOLOGY

Many factors have been linked to an increased risk of developing asthma, although it is often difficult to find a single, direct cause, it results from a combination of genetic and environmental factors. Common triggers and risk factors include:

- Genetics: Individuals with a family history of asthma are at a higher risk.
- Allergens: Exposure to allergens like pollen, dust mites, pet dander, and mold can trigger asthma symptoms.
- Irritants: Tobacco smoke, air pollution, strong odors, and workplace chemicals can exacerbate asthma.
- Respiratory Infections: Viral infections, especially in early childhood, can increase the risk of asthma.
- Obesity: Being overweight or obese can contribute to asthma.
- Stress: Emotional stress can sometimes worsen asthma symptoms.

### **IV. PATHOPHYSIOLOGY**

The pathophysiology of asthma involves the infiltration of inflammatory cells, including neutrophils, eosinophils, and lymphocytes into the airway, activation of mast cells, and damage to the epithelial cells. These inflammatory responses lead to the classic features of airway swelling, increased mucus production, and bronchial muscle dysfunction, which produce airway flow limitation and asthma symptoms. Remodeling, a term used to describe persistent changes in the airway structure, can occur, ultimately leading to fibrosis, mucus hypersecretion, epithelial cell injury, smooth muscle hypertrophy, and angiogenesis.[2][3][4][5][6]

#### **V. CLINICAL INDICATION**

Asthma is characterized by a range of clinical indications, which may include:

- Wheezing: High-pitched whistling sounds when breathing.
- Coughing: Often worse at night or early in the morning.
- Shortness of Breath: Difficulty in breathing, particularly during physical activity.
- Chest Tightness: A feeling of pressure or constriction in the chest.
- Increased Mucus Production: Excessive mucus in the airways.

#### VI. INVESTIGATIONS

- Spirometry: A lung function test to measure how well the lungs can exhale air.
- Peak Flow Measurement: A device to monitor the peak expiratory flow rate.
- Allergy Testing: To identify specific allergens that may trigger asthma.
- Chest X-ray or CT scan: To rule out other lung conditions.
- Bronchial Provocation Testing: To assess airway responsiveness.

#### VII. MANAGEMENT

Conventional asthma management includes:

Bronchodilators: Short-acting beta-agonists (SABA) for quick relief and long-acting beta-agonists (LABA) for maintenance.

Inhaled Corticosteroids: To reduce airway inflammation.

Leukotriene Modifiers: Medications that inhibit the action of leukotrienes, which can trigger asthma.

Allergy Medications: Such as antihistamines for those with allergic triggers.

Lifestyle Modifications: Identifying and avoiding asthma triggers, maintaining a healthy lifestyle, and exercise as tolerated.

## **HOMOEOPATHIC MANAGEMENT**

## **VIII. CASE PRESENTATION**

A male child of 8 years old came with a complaint of breathlessness since he was 3 years old. He has been taking Pump and nasal drops for 4-5 Years, Twice/Daily ------ He cannot remain without that even for a day as breathlessness starts. K/c/o –Bronchial Asthma

#### **8.1.Presenting complaint:**

Complaint of breathlessness Starts with Cold, Sneezing- on exposure to dust, cold things, Running nose ---watery clear discharge initially, Later Nose block <night. Coughing, expectorant less. Breathlessness < Night, Damp wet weather+++, Cold weather++

8.2.Past history:

Recurrent coryza since childhood with every changing weather.

#### 8.3. Family history:

Father: Bronchial Asthma Mother: Warts on Palm

Paternal Uncle: Neurofibroma Paternal Grand-mother-Bronchial Asthma

JCR

#### **8.4.Personal history**

- ✓ Appetite- 3 meals/ day
- ✓ **Thirst** 1-2lit/day
- ✓ Craves- COLD DRINKS+, ICE CREAM+, Salty things
- ✓ Aversion- Nothing specific
- ✓ **Bowel** Once/ day
- ✓ **Bladder** 7-8 times/day
- ✓ Sleep- Good. Refreshing
- ✓ Dreams- Nil
- ✓ **Thermal** Chilly patient

#### 8.5.Physical examination

Anaemia- Nil

- ✓ Cyanosis- Nil
- ✓ Jaundice-Nil
- ✓ Oedema-Absent
- ✓ **Clubbing-** Nil
- ✓ Lymphadenopathy- Absent
- ✓ **Pulse-** 78/min
- ✓ **Body weight-** 45kg
- ✓ **R.R-**18/min
- ✓ **Temp-** 98.7

## 8.6. Systemic examination

**Respiratory** – Mild Crepitation on both sides

## 8.7. Provisional diagnosis - Bronchial Asthma

## 8.8. Analysis and Evaluation of the case

- 1. Breathlessness -PGCS- physical general common symptom
- 2. Sneezing PGCS Physical general common symptom
- 3. Sneezing with runny nose- PGUC Physical general uncommon symptom
- 4. Nose block PGUC Physical general common symptom
- 5. Cold drink, Ice cream Desire PGUC Physical general uncommon symptom
- 6. < Damp Wet, cold Weather, dust, night PGCS -Physical general common modality Symptoms.

## 8.9. Totality of symptoms

- 1. BREATHLESSNESS<DAMP WET WEATHER, COLD WEATHER, night
- 2. Sneezing <morning, dust
- 3. Sneezing with a running nose
- 4. Nose block <night
- 5. Desires-COLD DRINKS, ICE CREAM, salty things, fried food.

														6
									4	0	0	G	15	
7 0 0 0								_			_			-
Remedy Name	Cate	Nation	Nato	Phos	Ars	Chin	Huxy	Caust	511	Ang.m	10	Puls	Sulph	
Totality	12	12	) [ 12 ]	12	10	10	9	9	8	) (8	8		7	7
Symptom Covered	7	7	) 👩	0	0	) [ 0	5	) [ 4	) 7	6	) [ 5	6	5	1
[C] [Kespiration]Asthmatic Children:	2	1	) 🔹		1		1		1		3	3	1	1
[C] [Kespiration]Asthmatic Weather Cold Wet			) 2		1									
[C] [Kespiration]Asthmatic. Weather. Wet Agg.			) [ 2 ]			2			) [ 1 -					
[C] [Nose]Sneezing.Morning		2		(1	( 1	1	) 2	) 3	1			2	3	1
[C] [Nose]Sneezing:Dust, from:														
[C] [Nose]Sneezing:Coryza:With:	1	2			2	) [ 1	) [ 2			1	2			
[C] [Nose]Obstruction:Night	2	1		1	2		) 3	2	1		1	1		3
[C] [Generalities]Food and drinks.Cold:Drinks, water Desires:	2	2	) [ 3 ]	3	а	3	1	2	1	2	1		1	2
[C] [Generalities]Food and drinks.Ice-cream.Desires:	2	1	1	3					2	1		-	-	
[C] [Generalities]Food and drinks:Salt or salty food:Desires:	2	з		3		2		2	1	3			-	-
·	<u> </u>													•
Symptoms 10	Remedies 261													

## Prescription

Repertorial totality as well as Materia medica verifies NATRUM SULPH and hence prescribed the same Rx -NATRUM SULPH 30 3 DOSE OD FOR 3 DAYS SAC LAC 30 3PILLS BD FOR 1 MONTH

## Follow up:

## Conclusion:

The patient improved much. His episodes reduced, his appetite improved, and started to lose weight(gained due to steroids) after withdrawing all the supportive management including nebulization. According to Kent's Lesser Writings," Natrum Sulphuricum is one of the best remedies for those constitutional conditions in children that results in chest catarrahs and asthmatic complaints where there is hereditary tendency and worse during wet weather".

#### References

- [1] https://www.who.int/news-room/fact-sheets/detail/asthma
- [2] Pediatric Asthma StatPearls NCBI Bookshelf (nih.gov)
- [3] Mims JW. Asthma: definitions and pathophysiology. Int Forum Allergy Rhinol. 2015 Sep;5 Suppl 1:S2-6. [PubMed]
- [4] Maslan J, Mims JW. What is asthma? Pathophysiology, demographics, and health care costs. Otolaryngol Clin North Am. 2014 Feb;47(1):13-22. [PubMed]
- [5] Bonini M, Usmani OS. The role of the small airways in the pathophysiology of asthma and chronic obstructive pulmonary disease. Ther Adv Respir Dis. 2015 Dec;9(6):281-93. [PubMed]
- [6] Aggarwal B, Mulgirigama A, Berend N. Exercise-induced bronchoconstriction: prevalence, pathophysiology, patient impact, diagnosis and management. NPJ Prim Care Respir Med. 2018 Aug14;28(1):31. [PMCfreearticle][PubMed]

[7] Prevalence, time trends and treatment practices of asthma in India: the Global Asthma Network study | European Respiratory Society (ersjournals.com)

- [8] Jindal SK, Aggarwal AN, Gupta D, et al.Indian study on epidemiology of asthma, respiratory symptoms and chronic bronchitis in adults (INSEARCH). *Int J Tuberc Lung Dis* 2012; 16: 1270– 1277. *doi*:10.5588/ijtld.12.0005Cross Ref Pub Med Google Scholar
- [9] GBD Compare. Viz Hub. (2021, June 30). https://vizhub.healthdata.org/gbd-compare/Google Scholar
- [10]India State-Level Disease Burden Initiative CRD Collaborators. The burden of chronic respiratory diseases and their heterogeneity across the states of India: the Global Burden of Disease Study 1990–2016. *Lancet Glob Health* 2018; 6: e1363–e1374. *doi:*10.1016/S2214-109X(18)30409-

## 1Google Scholar

[11]Singh S, Sharma BB, Sharma SK, et al.Prevalence and severity of asthma among Indian school children aged between

6 and 14 years: associations with parental smoking and traffic pollution. J Asthma 2016; 53: 238-

244. doi: 10.3109/02770903.2015.1087558Google Scholar

[12] (PDF) Homoeopathy for the management of Asthma - A review of Council's Clinical Research (researchgate.net)

- [13] Boericke's New Manual of Homoeopathic Materia Medica with repertory; 3<sup>rd</sup> revised and augmented edition based on 9<sup>th</sup> edition
- [14]Lesser Writings, clinical cases, new remedies, aphorisms and percepts
- [15] Dictionary-of-practical-materia-medica-vol-1-John-Henry-Clarke. Published by Forgotten Books, 2018 <u>ISBN 10: 0282700250</u>ISBN 13: 9780282700256
- [16]Materia Medica of Homoeopathic Medicines, Dr.S.R. Phatak, 2<sup>nd</sup> edition revised and enlarged