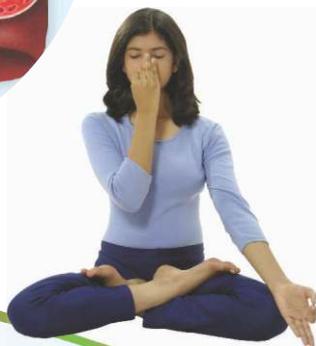
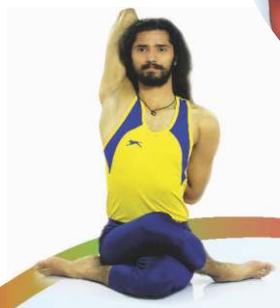
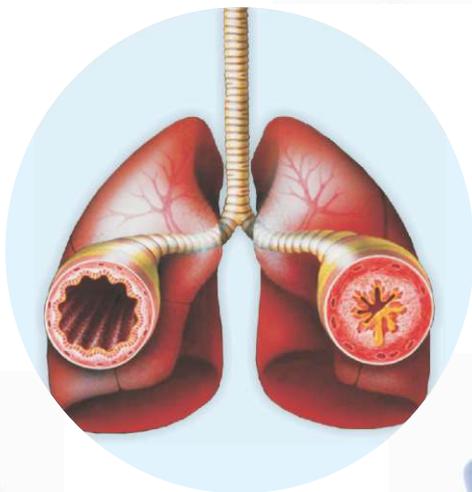
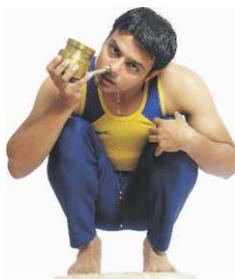


# *Yogic Management of* **BRONCHIAL ASTHMA**



**Morarji Desai National Institute of Yoga**

**Ministry of Ayush, Government of India**

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# BRONCHIAL ASTHMA

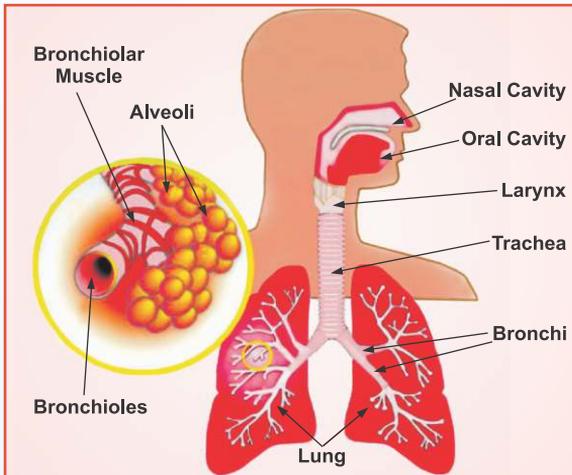
## Introduction

The asthmatic disorder is a chronic (recurring) inflammatory condition in which the airways develop increased responsiveness to various stimuli, characterized repeated episodes of wheezing, breathlessness, chest tightness and cough that is at least partly reversible, either spontaneously or with treatment. It is thought that inflammation causes an increase in airway responsiveness (broncho-spasm) to a variety of stimuli. Some of these stimuli would have little or no effect on non-asthmatics with normal airways. Many cells play a role in the inflammatory response.

Asthma causes narrowing of airways and broncho-spasm. Airway narrowing process basically involves:

- Tightening of the smooth muscles around the airways,
- Swelling of the airways, and
- Collecting of thick mucus secretions in the airways

This narrowing of airways causes symptoms such as wheezing, shortness of breath, chest tightness, and coughing, which respond to bronchodilators (medicines).



People with asthma have extra sensitive or hyper-responsive airways. The airways react by narrowing when they become irritated (by asthma triggers). This makes it difficult for the air to move in and out of the lungs.

Asthma often occurs in episodes called asthma attacks. An asthma attack is usually caused by triggers or changes in the environment. Common triggers include infections, changes in the weather, exercise, allergens and irritants in the environment.

Asthma has such a wide spectrum of predisposing factors and clinical presentations that there is no uniform classification. Based on the severity of symptoms, it is categorized into mild intermittent, moderate and severe.

Other clinical categories include steroid-dependent, steroid-resistant, difficult, and brittle asthma. Typically, asthma is categorized into

- (a) **Extrinsic:** initiated by a type I hypersensitivity reaction induced by exposure to an extrinsic antigen
- (b) **Intrinsic:** initiated by diverse, non-immune mechanism including ingestion of aspirin; pulmonary infections especially viral, cold, inhaled irritants, stress and exercise.

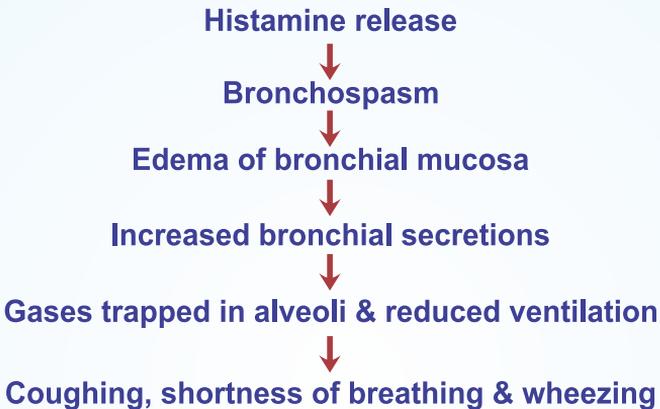
Other informal categories classify asthma according to the agents or events that trigger broncho-constriction. These include seasonal, exercise-induced, drug-induced, and occupational asthma and asthmatic bronchitis in smokers. Allergic broncho-pulmonary aspergillosis, which may complicate asthma, is partly an allergic reaction to fungus that has called colonized the bronchial mucosa.

### Signs and Symptoms of Asthma

- Asthma is characterized by difficulty in breathing, wheezing and cough.
- Difficulty in expiration.
- Tightness of the chest/ discomfort in the chest.
- Attacks last from one to several hours.

- Severe attacks may affect the heart and circulatory system.
- Severe attack, not responsive to usual therapy is called “status asthmaticus” and is a medical emergency.
- Hypercarbia (increased level of CO<sub>2</sub>), acidosis and hypoxia (decreased O<sub>2</sub> level) is rare in Asthma.

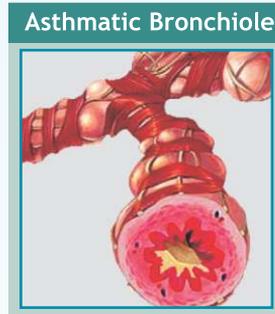
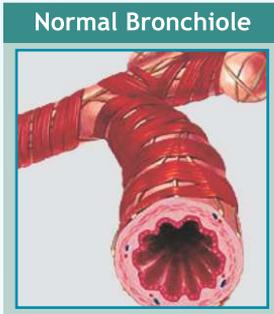
### Patho-physiology of Bronchial asthma :



Inhalation of allergen rapidly interact with mucosal mast cells results in increase of histamine and cysteinyl leukotrienes which leads to broncho-constriction. Airflow is restricted by narrowing of airways. This narrowing occurs due to irritation of the bronchial walls, which leads to swelling of the lining of the bronchi and to the secretion of mucus. During respiratory distress asthmatics use the accessory muscles of respiration. This panicking act makes breathing even more difficult.

During an asthma episode, inflamed airways react to environmental triggers such as smoke, dust or pollen. The airways narrow and produce excess mucus, making it difficult to breathe.

The airways of asthma patients are hypersensitive to certain triggers. In response to exposure to these triggers, the bronchi (large airways) contract into spasm (asthma attack). Inflammation soon follows, leading to a further narrowing of the airways and excessive mucus production, which leads to coughing and other breathing difficulties.



### Bronchial asthma triggers

Bronchial asthma triggers may include:

- Tobacco smoke
- Infections such as colds, flu or pneumonia
- Allergens such as food, pollen, mold, dust mites and pet dander
- Exercise
- Air pollution and toxins
- Weather, especially extreme changes in temperature
- Drugs (such as aspirin, NSAID and beta-blockers)
- Food additives (such as MSG)
- Emotional stress and anxiety
- Smoking, perfumes, or sprays
- Acid reflux
- Occupational irritants (gases, fumes, vapors, dust, tobacco or other smoke, air pollution of any kind)
- Microscopic droppings of dust mites and cockroaches, airborne pollens and molds, plants and plant proteins, enzymes, and pet dander (minute scales of hair, feathers or skin)
- Viral, sinus infections such as a cold
- Exposure to an allergen (for which the person is allergic)

### MANAGEMENT OF BRONCHIAL ASTHMA

#### I. DIETARY MANAGEMENT

1. The diet plays an important role in the management of asthma.
2. There are foods, which are allergic to asthma patient and such foods should be avoided. These foods include cold foods, ice creams, chocolates, other stimulants, fruits like banana, milk & milk products etc.
3. Foods which add to the mucous production should be specifically avoided.
4. Try to take warm water/ drinks
5. Avoid ghee, butter, oily, spicy and other Kapha aggravating diet.
6. When you have asthma attack, avoid taking food after sunset.

#### II. YOGIC MANAGEMENT

The role of Yoga in the management of Bronchial asthma is well documented now. Aim of the treatment in Asthma should be to prevent the broncho-constriction and to tackle the triggering factors.

1. **Shatkriyas:** Jalaneti, Sutraneti, Kapalabhati, Kunjal, Vastra dhouti
2. **Om chanting and Prayer**
3. **Suryanamaskara**
4. **Selected practices of Sukshma Vyayama:** Uccarana sthala tatha Visuddha chakra shuddi, Buddhi tatha dhriti shakti vikasaka, Vaksha sthala shakti vikasaka - 1 and 2
5. **Yogasanas:** Tadāsana, Katichakrasana, Urdhwa hastottanasana, Gomukhasana, Ushtrasana, Vakrasana, Bhujangasana, Sarvangasana, Sarala Matsyasana, Shavasana
6. **Pranayama:** Full yogic breathing, Nadishodhana Pranayama, Suryanadi Pranayama, Bhramari, Bhastrika
7. **Special Practice:** Yoga Nidra/ Antarmouna
8. **Dhyana (Meditation)** Om Chanting, Om Meditation

**Disclaimer:** This material is meant for general awareness and not for disease management through Yoga. It should not be treated as a medical prescription. All practices should be performed under the guidance of a qualified Yoga expert.

## YOGIC PRACTICES FOR THE MANAGEMENT OF BRONCHIAL ASTHMA



Jalaneti



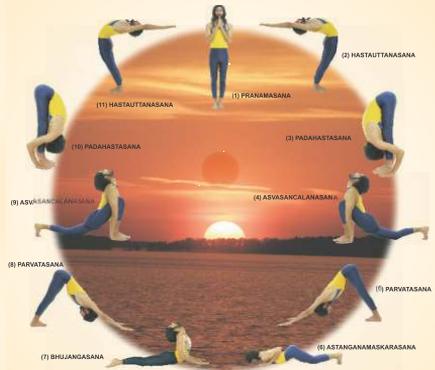
Kunjali



Sutraneti



Kapalabhati Kriya



Surya Namaskar



Vastra Dhauti



Tadasana



Katicakrasana



Urdhva Hastottanasana



Gomukhasana



Vakrasana



Bhujangasana



Sarvangasana



Savasana



Nadishodhana Pranayama



Bhramari



Meditation

## EDUCATION AND TRAINING

Institute is presently running PG, UG, Diploma, Certificate and Foundation courses of Yoga

Sr. No.	Courses	Duration	Intake Capacity
1	M.Sc. (Yoga) Affiliated to GGSIPU, New Delhi	02 Years	30
2	B.Sc. (Yoga) (Affiliated to GGSIPU, New Delhi)	03 Years	30
3	PGDYT for Medicos and Para-medicos( Affiliated to GGSIPU, New Delhi)	01 Year	20
4	Diploma in Yoga Science for Graduates	01 Year	97
5	Certificate Course for Yoga Therapy Assistant (CCYTA)	06 Months	30
6	Certificate Course in Yoga for Wellness Instructor (2 batch in a Year)	06 Months	2/ Odq A` sbg
7	Certificate Course in Yoga for Protocol Instructor (4 batch in a Year)	03 Months	2/ Odq A` sbg
8	Foundation Course in Yoga Science for Wellness (12 batch in a Year)	01 Month	2/ Odq A` sbg
9	Basic Course in Shatkarma Practices (Weekend)	01 Month	2/ Odq A` sbg
10	Foundation Course in Yoga Science for Wellness (Weekend)	02 Months	2/ Odq A` sbg

## HEALTH PROMOTION & YOGA THERAPY PROGRAMMES

11	Health Promotion Programme (HPP)	01 Month
12	Individual Yoga Therapy Session	30-45 Minutes

## OUT PATIENT DEPARTMENT (OPD)

- Running a Yoga Therapy OPD in its premises.
- Yoga Therapy and Diet Consultation are provided to the needy people.
- Institutional Bio-chemistry Lab is attached to the OPD for assessment.
- Senior Medical Officer, Dietician, Yoga Consultant, Yoga Therapists & Yoga Instructors, Ayurveda and Naturopathy Consultants provide consultation in OPD.
- Timings of OPD - 8:00 am to 6:00 pm on all working days including Saturday.
- Mainly the NCDs are being treated in the OPD.
- Established Preventive Health Care Units in CGHS dispensaries, and Yoga Therapy Centers in Tertiary hospitals.



For further details please contact:

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For more details  
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