

**“ THERE ARE TIMES WHEN  
LUNGS ARE TRAPPED,”**

**WHICH MAY MANIFEST AS:  
COUGH**

**SORE THROAT**

**CHEST CONGESTION**

**BREATHING PROBLEMS**

**HOARSENESS OF VOICE**





# JUFEX<sup>®</sup>



## EFFECTIVE EXPECTORANT

*Dilutes the viscous mucus to facilitate its expulsion, provides significant relief in chest congestion, cough, irritation & stuffiness in throat and chest.*

## EFFICIENT BRONCHODILATOR

*Brings progressive improvement in symptoms, such as cough, breathlessness and sputum. Improves ventilation in airways and helps relieve bronchoconstriction.*

## SOOTHING & PROTECTIVE AGENT

*Exerts tracheal tonifying and soothing effect over inflamed mucosa thereby, effectively relieving Cough & sore throat. Also provides multiple benefits in respiratory tract affections.*

## A NATURAL ANTI-ALLERGIC

*Provides gentle anti-histaminic action without sedation. Protects against allergen induced bronchial obstruction also shows anti-spasmodic effect.*

**MOST COMPREHENSIVE HERBAL THERAPY IN COUGH MANAGEMENT**



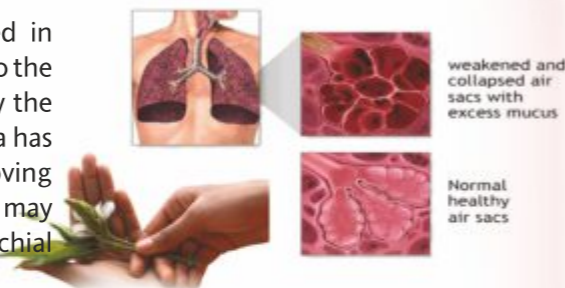
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## ACTS AS EXPECTORANT & SOOTHING AGENT

### FACILITATES THE EXPULSION OF THICK & TENACIOUS SECRETIONS IN CHEST AFFECTIONS

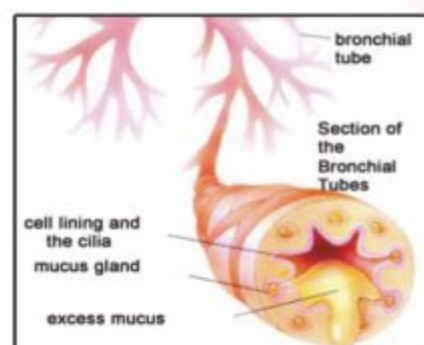
Action of *Adhatoda vasica* (Vasaka) ext. incorporated in Jufex, for the relief of cough & bronchitis can be attributed to the bronchodilatory effect & increase of ciliary movements by the alkaloid vasicine. Besides, the essential oil content of vasaka has been reported to possess expectorant action by improving ventilation in airways. All these activities in combination may facilitate the expulsion of thick & tenacious tracheobronchial secretions in chest affections.



The two alkaloids Vasicine & Vasicinone in combination hold promise for their use as bronchodilating agent because of their inhibitory effect against 5 HT & histamine induced bronchoconstrictor response. (J. Ethnopharmacol.,72,1-20,2000, Ind. J. Med. Res. 66(4), 680-691, 1977)

### IMPROVES VENTILATION IN AIRWAYS

The clinical efficacy of *Solanum xanthocarpum* (Kantkari) was investigated in mild to moderately severe bronchial Asthma cases. The respiratory functions were assessed by measuring the Peak Expiratory Flow Rate (PEFR) using a mini peak flow meter. In addition, improvement in lung function was assessed by physical examination and other symptoms such as cough, breathlessness and sputum. *Solanum xanthocarpum* produced a progressive improvement in the ventilatory function of asthmatic individuals over 3 days. The scores for rhonchi, cough, breathlessness and sputum were decreased by these drug treatments. The improvement in PEFR and the reduction in other symptom scores clearly indicate a bronchodilator effect, a decrease of oedema and secretions in the airway lumen. (Phytother. Res. 18(10), 805-809, 2004)



*Solanum xanthocarpum*  
(Kantkari)  
**BRONCHODILATOR**



## ACTS AS ANTI-ALLERGIC & ANTI-INFLAMMATORY

### EXERTS ANTI-INFLAMMATORY ACTION WITH SAFETY

An aqueous extract of *Viola odorata* (Gul banafsha) was tested for anti-inflammatory properties as compared with hydrocortisone. Experimental subjects treated with extract before and after induction of lung injury by the administration of formalin via nebulization, were assessed microscopically for the area of hemorrhage, thickness of the alveolar wall, rupture of the alveolar septa, and alteration of the epithelial lining of the bronchioles. *V. odorata* extract given prophylactically was effective in preventing lung damage equal to the effect of hydrocortisone in aiding the resolution of formalin-induced lung damage.



(J.of herbs spice & med. Plants 10(2), 95-103, 2003)

### PROVIDES SIGNIFICANT PROTECTION AGAINST HISTAMINE INDUCED BRONCHOSPASM

*Myrica nagi* (Kaiphala) showed significant protection against histamine aerosol induced broncho spasm, as was evident with significant decrease in the total favorable change in differential leukocyte counts in BALF (broncho alveolar lavage fluid) and prevention of egg albumin induced histamine release from chopped lung tissues of experimental subjects. Histological examination suggest that *Myrica Nagi* possesses not only bronchodilator activity but also decreases bronchial hyper-responsiveness by decreasing the infiltration of inflammatory mediators like eosinophils, neutrophils in BALF and inhibiting histamine release from sensitized lungs. (Int. J. Pharmaceu. Sci. 63(4), 312-316, 2008)



### SHOWS ANTIOXIDANT AND IMMUNITY BOOSTING ACTIVITY

*Ficus carica* (Anjeer) extracts have notable scavenging activities on DPPH, superoxide radical and hydroxyl anion radical. It also significantly increases the clearance rate of carbon particles and serum hemolysin level thereby, depicting immunity boosting activities. (Plants Food Hum Nutr. 64(2), 167-173, 2009)

**MOST COMPREHENSIVE HERBAL THERAPY IN COUGH MANAGEMENT**



# JUFEX<sup>®</sup>

Cough Syrup



## AN OPTIMALLY BALANCED COMBINATION OF HERBO MINERAL CONSTITUENTS

### INDICATIONS

- ▣ **CONGESTIVE COUGH**
- ▣ **ALLERGIC COUGH**
- ▣ **SMOKER'S COUGH**
- ▣ **SORE THROAT**

### DOSAGE

ADULTS - 2 TEASPOONFUL TDS  
CHILDREN - 1 TEASPOONFUL TDS  
PREFERABLY WITH LUKEWARM WATER

### EXCLUSIVE BENEFITS

- ▣ **NON-SEDATIVE**  
It is free from the CNS effects unlike conventional antihistaminics.
- ▣ **NON-NARCOTIC**  
Completely free from opiate derivatives like codeine hence does not lead to habit formation.
- ▣ **NON-CONSTIPATING**  
Tones peristaltic movements with herbs like Anjeer, Bahera etc. & also due to absence of opiates which suppress the intestinal movements.
- ▣ **COMPREHENSIVE**  
Providing optimal benefits by synergism of herbs.
- ▣ **PALATABLE**  
Delicious flavour makes easy acceptance to all age groups of patients.
- ▣ **SAFE**  
Completely safe and free from adversities.



**MOST COMPREHENSIVE HERBAL THERAPY IN COUGH MANAGEMENT**

