ABSTRACT

Respiratory problems are one of the commonest complaints seen in community. Wheezing, cough, shortness of breath is very frequently seen. Difficulty in breathing due to respiratory diseases comes under Shwasa Roga. Shatyadi choorna is described in Astanga Hridya in the treatment of Shwasa-Hikka roga. It is a simple formulation which contains fine powder of six herbs viz. Shati (Hedychium spicatum), Tamalaki (Phyllanthus fraternus or Phyllanthus niruri), Bharrangi (Clerodendrum serratum), Canda (Angelica archangelica), Balaka (Pavonia odorata) and Pushkarmoola (Inula racemosa) in equal parts, mixed with eight times of Sharkara. This remedy chiefly has Kapha-Vata alleviating and Vatamulomana properties. Consideration of the pharmacological properties of contents of Shatyadi choorna supports its bronchodilator, eosinophills lowering and mucolytic action. Such properties make this formulation a unique, suitable and effective in Shwasa roga, especially in Tamaka shwasa.

Keywords: Shatyadi choorna, Shwasa roga and Tamaka shwasa.

INTRODUCTION

Difficulty in breathing is one of the primary symptoms of respiratory diseases. Chronic respiratory diseases cause approximately 7% of all deaths worldwide and represent 4% of the global burden of disease. Increasing environmental pollution, occupational hazards and stressful lifestyle are chief contributing factors in the accelerating prevalence of respiratory diseases. Allergic diseases like allergic rhinitis and asthma are commonly seen respiratory disorders. Bronchial asthma is characterized frequently with wheezing and difficulty in breathing. In Ayurveda, group of pulmonary disorders with labored or difficulty in breathing comes under shwasa roga. There are various formulations in Ayurvedic text that are not being used often, in their respective diseases. Exploration of such formulations may reveal any unique prospect in therapeutics.

Difficulty in breathing due to respiratory disorders is considered under Shwasa roga in Ayurveda. Shwasa roga is said to be a disorder of pranavaha srotas (respiratory system). Any pathological changes in pranavaha srotas will lead to irregular breathing which may be increased – decreased – slow or deep breathing. Acharya Charaka specifies that Shwasa roga is manifested by vitiation of Kapha and Vata dosha and the site of its origin is Pitta sthana. Out of five types of shwasa roga, Maha-Urdhva-Chinna shwasa are incurable or have bad prognosis, Kshudra shwasa is not that much perturbing whereas tamaka shwasa...
is yapya (difficult to treat). Shwasa roga is difficult to treat, ruins every joy of the affected person and persists for a long time.

**DRUG REVIEW**

Shatyadi choorna has been described by acharya Vagbata in Astanga hridaya, Hikkashwasa chikitsa chapter and told as the best medicine to treat Hikka and shwasa roga. This formulation is simple and very convenient to prepare. It contains fine powder of six herbs viz. Shati, Tamalaki, Bharangi, Canda, Balaka and Pushkarmoola in equal parts, mixed with eight times of Sharkara.

Shatyadi choorna has also been mentioned in charaka samhita and yogaratnakar, with different contents and composition. Rational observation over the pharmacology of herbs used in this formulation supports its efficacy in treating respiratory disorders.

**Shati:** It consists of sliced, dried rhizomes of Hedychium spicatum Ham.ex Smith (Family. Zingiberaceae), a perennial rhizomatous herb, measuring up to 1 m occurs in parts of western and central regions of sub-tropical Himalayas at an altitude of 1500-2000 m, grows abundantly in Kumaon and Punjab. Chaturvedi et al found that powdered rhizome of H. spicatum relieved dyspnea, cough and restlessness in patients of bronchial asthma. In another clinical study conducted on children suffering from tropical pulmonary eosinophilia, H. spicatum was found to lower eosinophil count. In another clinical study conducted on children suffering from tropical pulmonary eosinophilia, H. spicatum was found to lower eosinophil count. Bronchodilator, antihistaminic, anti-inflammatory and analgesic activity of Shati has also been established by Ghildiyal et al.

**Tamalaki:** It consists of root, stem and leaf of Phyllanthus fraternus Webst. Syn. Phyllanthus niruri Hook. f. non Linn. (Fam. Euphorbiaceae). It is an annual herb, 20-60 cm high, found in Central and Southern India extending to Ceylon. Manjrekar et al found that phyllanthus niruri has anti-oxidant and hepato-protective activity.

**Bharangi:** It consists of dried roots of Clerodendrum serratum (Linn.) Moon (Fam.Verbenaceae); a shrub distributed throughout the country. Singh mukesh et al also found its bronchodilator activity along with anti-inflammatory action. Icosahydropenicnic acid (HPA) isolated from the root of this plant, given at the dose of 100 mg/kg showed significant mast cell stabilizing activity as compared to standard sodium chromoglycate.

**Canda:** It consists of dried root of Angelica archangelica Linn. (Fam. Apiaceae), a tall perennial herb with thick hollow stem bearing large bipinnate leaves and umbels of greenish-white flowers; found wild in inner valleys of Himalayas viz. Kashmir, Chamba, Kullu, Pangri, Lahaul and Kinnaur at altitudes between 3200 and 4200 m. Izzo AA et al found its anti-spasmodic activity against spontaneous contractions of circular smooth muscles. It also has Mild (mild) anti-inflammatory activity.

**Balaka:** It is Pavonia odorata willd which belongs to the family Malvaceae. It is commonly known as sugandhbala. It is an erect, annual herb distributed in the warmer parts of the world, chiefly in America, parts of Nepal, Bihar, Orissa and Uttar Pradesh. It bears anti-asthmatic and expectorant property.

**Pushkarmoola:** It consists of dried root of Inula racemosa Hook. f. (Fam. Asteraceae), a stout herb, 0.5 to 1.5 m high, mostly found in Western Himalayas upto 2600 m. It has well anti allergic activity. Significant inhibition of histamine induced contractions produced by petroleum ether extract of roots of Inula racemosa in dose dependent manner (4-10 mg/ml) on isolated goat tracheal chain preparation.
leads to inability of smooth muscle to respond to histamine induced spasm leading to inhibition of broncho-constriction. Further assessment of anti-allergic activity in-vivo by studying the effect of extracts on milk-induced eosinophilia in mice significantly reduced milk-induced eosinophilia in mice as compared control group 23.

**Sharkara:** Sharkara (sugar) is one of the Iksu Vikara and described as superior among other types. Sharkara have a sphere of pharmaceutical properties. It has Madhura rasa, Shita guna, pacifies vitiated Vata- Pitta-rakta 24 and also useful in Kshata-Kshina or chronic debilitating disorders 25. It increases Kapha helps in expectoration.

**DISCUSSION:** Line of treatment for shwasa roga as per Acharya Charaka and Vagbhata is Ushna, Kapha – vata shamak and Vatanulomaka 27. Maha-Urdhva-Chinna types of shwasa roga are incurable and Kshudra shwasa is not that much disturbing. So, it can be inferred that the principle of treatment described in Ayurvedic text is chiefly for Tamaka shwasa. Shatyadi choorona contains herbs like shati, bharangi, pushkarmoola, canda having deepana ,kapha vishravak, shwasahara , laghu- tikshna guna , ushna virya and katu vipaka properties. So, altogether effect of these drugs made this formulation as a good shwasa-kasahara compound. This formulation also has equal parts Tamalaki which have a proven hepato-protective action. Tikta, katu rasa predominant drugs like Bhumayamalaki, Canda & Balaka will likely to perform agni deepana, pachana of Ama and checks formation of malarupi Kapha and Ama. Kapha nisaraka and chedana action of drugs like shati, Bharangi, Pushkarmoola may leads to expulsion and alleviation of Kapha do-sha and removal of pranavaha srotoavaro-dha. Madhura vipaka drugs like Bhumayamalaki and sharkara may cause alleviation of vata dosha and leads to sharira bala vridhi. Analyzing the pharmacological properties of the constituents of shatayadi (shatyadi) choorna confers its bronchodilator, eosinophil lowering, anti-histaminic and mucolytic activity. It supports the fact that shatayadi choorna is a potent shwasahara formulation, especially in clinical condition with wheezing, cough and breathlessness like Tamaka Shwasa or Bronchial asthma.

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