

discourages the search for alternative explanations by both clinicians and researchers. In recent years, the concept of a distinct “cough hypersensitivity syndrome” has emerged, emphasizing the putative role of sensitized sensory nerve endings and afferent neural pathways in causing chronic refractory cough, akin to chronic neuropathic pain. It presents with a dry or minimally productive cough and a tickle or sensitivity in the throat, made worse with talking, laughing, or exertion. It is more common in women than men and can last for years. Specific diagnostic criteria are lacking; the diagnosis is suspected when alternative etiologies are excluded by diagnostic testing or failed therapeutic trials. It is uncertain whether persistent daily coughing elicits an inflammatory response and is thereby self-perpetuating.

ACE inhibitor–induced cough occurs in 5–30% of patients taking these agents and is not dose-dependent. ACE metabolizes bradykinin and other tachykinins, such as substance P. The mechanism of ACE inhibitor–associated cough may involve sensitization of sensory nerve endings due to accumulation of bradykinin. Any patient with chronic unexplained cough who is taking an ACE inhibitor should have a trial period off the medication, regardless of the timing of the onset of cough relative to the initiation of ACE inhibitor therapy. In most instances, a safe alternative is available; angiotensin receptor blockers do not cause cough. Failure to observe a decrease in cough after 1 month off medication argues strongly against this etiology.

Postnasal drainage of any etiology can cause cough as a response to stimulation of sensory receptors of the cough-reflex pathway in the hypopharynx or aspiration of draining secretions into the trachea. The term *upper airway cough syndrome* has been coined to encompass the concept that chronic inflammation in the nose and sinuses can cause cough even in the absence of physical drainage into the pharynx. Historical clues suggesting this etiology include a sensation of postnasal drip, frequent throat clearing, and sneezing and rhinorrhea. On speculum examination of the nose, excess mucoid or purulent secretions, inflamed and edematous nasal mucosa, and/or polyps may be seen; in addition, secretions or a cobblestoned appearance of the mucosa along the posterior