

# Does Allergy Cause Sinusitis

The word "sinusitis" is used to indicate that one or more of the membrane linings found in the sinus cavities has become inflamed or infected. It is however distinct from a fistula, which is a tract connecting two epithelial surfaces. If left untreated, infections occurring in the sinus cavities can affect the chest and lungs. The World Health Organization and International Union of Immunological Societies (WHO/IUIS) Allergen Nomenclature... Signs and symptoms Sensitivities vary widely from one person (or from one animal) to another. A very broad range of substances can be allergens to sensitive individuals.

**Rhinorrhea** It is a common symptom of allergies (hay fever) or certain viral infections, such as the common cold or COVID-19. Chronic sinusitis occurs when sinusitis continues for longer than three months. Treatment for rhinorrhea may be aimed at reducing symptoms or treating underlying causes. Rhinorrhea can also occur when individuals with allergies to certain Rhinorrhea (American English), also spelled rhinorrhoea or rhinorrhœa (British English), or informally, runny nose, is the free discharge of a thin mucus fluid from the nose; it is an extremely common condition. Rhinorrhea varies in color and consistency depending upon the underlying cause. Rhinorrhea usually resolves without intervention, but may require treatment by a doctor if symptoms last more than 10 days or if symptoms are the result of foreign bodies in the nose. It can be a side effect of crying, exposure to cold temperatures, cocaine abuse, or drug withdrawal, such as from methadone or other opioids

Treatment is typically with steroids, often in the form of a nasal spray. If this is not effective, surgery may be considered. The condition often recurs following surgery; thus, continued use of a steroid nasal spray is often recommended. Antihistamines may help with symptoms but do not change the underlying disease. Antibiotics are not required for treatment unless an infection...

**Allergen excretion**, Food allergies are not as common as food sensitivity, but some foods such as peanuts (a legume), nuts, seafood and shellfish are the cause of serious An allergen is an otherwise harmless substance that triggers an allergic reaction in sensitive individuals by stimulating an immune response

Allergens are categorized on this page by origin for minimal redundancy. Symptoms typically depend on route of exposure, which is not yet sorted cleanly here.

**Sinusitis** acute sinusitis, subacute sinusitis, and chronic sinusitis. In acute sinusitis, symptoms last for less than four weeks, and in subacute sinusitis, they Sinusitis, also known as rhinosinusitis and commonly known as a sinus infection, is an inflammation of the mucous membranes that line the sinuses resulting in symptoms that may include production of thick nasal mucus, nasal congestion, facial congestion, facial pain, facial pressure, loss of smell, or fever

**Nasal polyp** The growths are sac-like, movable, and non-tender, though face pain may occasionally occur. nasal congestion, sinusitis, loss of smell, thick nasal discharge, facial pressure, nasal speech, and mouth breathing. They typically occur in both nostrils in those who are affected. Complications may include sinusitis and broadening of the nose. Recurrent sinusitis can result from Nasal polyps are noncancerous growths within the nose or sinuses. Symptoms include trouble breathing through the nose, loss of smell, decreased taste, post nasal drip, and a runny nose

Early exposure of children to potential allergens may be protective. Treatments for allergies include avoidance of known...

**Allergies in children** Allergies in children, which have increased in incidence since about 1970, are overreactions of the immune system often caused by foreign substances or

In technical terms, an allergen is an antigen that is capable of stimulating a type-I hypersensitivity reaction in atopic individuals through immunoglobulin E (IgE) responses. Most humans mount significant immunoglobulin E responses only as a defense against parasitic infections. However, some individuals may respond to many common environmental antigens. In atopic individuals, non-parasitic antigens stimulate inappropriate IgE production, leading to type I hypersensitivity. The exact cause is unclear. They may be related to chronic inflammation of the lining of the sinuses. They occur more commonly among people who have allergies, cystic fibrosis, aspirin sensitivity, or certain infections. The polyp itself represents an overgrowth of the mucous membranes. It may be diagnosed by looking up the nose. A CT scan may be used to determine the number of polyps and help plan surgery.

**Allergy** Symptoms of food allergy include abdominal pain, bloating, vomiting, diarrhea, itchy skin, and hives. Symptoms of allergic diseases may include red eyes, an itchy rash, sneezing, coughing, a runny nose, shortness of breath, or swelling. Food allergies rarely cause respiratory (asthmatic) An allergy is an exaggerated immune response where the body mistakenly identifies an ordinarily harmless allergen as a threat. Allergic reactions give rise to allergic diseases such as hay fever, allergic conjunctivitis, allergic asthma, atopic dermatitis, food allergies, and anaphylaxis

== Etymology ==

List of allergens is a list of allergies, which includes the allergen, potential reactions, and a brief description of the cause where applicable. An allergy is a misguided This is a list of allergies, which includes

the allergen, potential reactions, and a brief description of the cause where applicable a3c95af05b

An allergy is a misguided type-I hypersensitivity response triggered by binding of an allergen to immunoglobulin E (IgE) antibodies. a3c95af05b Sinusitis is a condition that affects both children and adults. It is caused by a combination of environmental and health factors. It can occur in individuals with allergies, exposure to environmental irritants, structural abnormalities of the nasal cavity and sinuses and poor immune function. Most cases are caused by a viral infection. Recurrent episodes are more likely in people with asthma, cystic fibrosis, and immunodeficiency. a3c95af05b Odontogenic sinusitis is considered a secondary type of sinusitis, as the infection does not start in the sinuses. The etiology of odontogenic sinusitis is primarily related to dental infections or procedures. Preliminary studies suggest that odontogenic sinusitis has different biological mechanisms from acute or chronic rhinosinusitis. Dental conditions such as gum disease, periapical abscesses, or tooth decay can lead to odontogenic sinusitis. Similarly, dental procedures such as tooth extractions, implant placement, or root canal treatments, particularly if they involve the posterior maxillary teeth, can also cause this condition. Microbiological studies have also determined that anaerobic bacteria are more frequently involved in odontogenic sinusitis cases than in classic acute or chronic rhinosinusitis cases. a3c95af05b Sinus is Latin for "bay", "pocket", "curve", or "bosom". In anatomy, the term is used in various contexts. a3c95af05b

Odontogenic sinusitis Comprising approximately Odontogenic sinusitis is a type of sinusitis (inflammation of the sinuses), specifically caused by dental infections or procedures. Comprising approximately 10-12% of all chronic sinusitis cases, this condition primarily affects the maxillary sinus, which is in close proximity to the upper teeth. Odontogenic sinusitis is a type of sinusitis (inflammation of the sinuses), specifically caused by dental infections or procedures a3c95af05b

== Etiology == a3c95af05b Allergic rhinitis is typically triggered by environmental allergens such as pollen, pet hair, dust mites, or mold. Inherited genetics and environmental exposures contribute to the development of allergies. Growing up on a farm and having multiple older siblings are associated with a reduction of this risk. The underlying mechanism involves IgE antibodies that attach to an allergen, and subsequently result in the release of inflammatory chemicals such as histamine from mast... a3c95af05b Antibody reactions require a molecule of sufficient size. As a result, most allergens are large biomolecules such as proteins and carbohydrates, many of which can be removed or broken down by food processing. A smaller molecule may still become allergenic by binding to a larger molecule to form an epitope of sufficient size; such a small molecule is called a hapten. a3c95af05b This list also includes some other forms of hypersensitivity reactions, especially so-called allergic contact dermatitis (ACD), a type-IV hypersensitivity response. Such a response is not associated with IgE action, but T-cell activation. The prototypic example is Urushiol-induced contact dermatitis. a3c95af05b == Examples == a3c95af05b The World Health Organization and International Union of Immunological Societies (WHO/IUIS) Allergen Nomenclature Sub-Committee maintains a webpage listing every protein (as well as some carbohydrates) that have elicited a confirmed IgE reaction in humans. a3c95af05b A diagnosis of sinusitis is based on the symptoms and their duration along with signs of disease identified by endoscopic and/or radiologic criteria. Sinusitis is classified into acute sinusitis, subacute sinusitis, and chronic sinusitis. In acute sinusitis, symptoms last for less than four weeks, and in subacute sinusitis, they last between 4 and 12 weeks. In chronic sinusitis, symptoms must be present for at least 12 weeks. In the initial evaluation... a3c95af05b

Allergic rhinitis doi:10 Allergic rhinitis, of which the seasonal type is called hay fever, is a type of inflammation in the nose that occurs when the immune system overreacts to allergens in the air. "Rhinitis and sinusitis". Dykewicz MS, Hamilos DL (February 2010). 125 (2 Suppl 2): S103-15. Many people with allergic rhinitis also have asthma, allergic conjunctivitis, or atopic dermatitis. 2015. Signs and symptoms include a runny or stuffy nose, sneezing, red, itchy, and watery eyes, and swelling around the eyes. Some people may develop symptoms only during specific times of the year, often as a result of pollen exposure. The fluid from the nose is usually clear. Symptom onset is often within minutes following allergen exposure, and can affect sleep and the ability to work or study. The Journal of Allergy and Clinical Immunology. It is classified as a type I hypersensitivity reaction a3c95af05b

Sinus (anatomy) In common usage, "sinus" usually refers to the paranasal sinuses, which are air cavities in the cranial bones, especially those near the nose and connecting to it. People may develop chronic sinusitis or have recurrent attacks of acute sinusitis if they suffer with allergies or if they A sinus is a sac or cavity in any organ or tissue, or an abnormal cavity or passage. bacterial sinusitis is good. Most individuals have four paired cavities located in the cranial bone or skull a3c95af05b

Common allergens include pollen, certain foods, metals, insect stings, medications, and materials, such as latex. The development of allergies is due to genetic and environmental factors. The mechanism of allergic reactions involves immunoglobulin E antibodies (IgE) binding to an allergen and then to a receptor on mast cells or basophils, where they trigger the release of inflammatory chemicals such as histamine. Diagnosis is typically based on a person's medical history. Further testing of the skin or blood may be useful in certain cases. Positive tests, however, may not necessarily mean there is a significant allergy to the substance in question. a3c95af05b The term rhinorrhea was coined in 1866 from the Greek rhino- ("of the nose") and -rhoia ("discharge" or "flow"). a3c95af05b

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