



ANWAR E.N.T
The Right Choice For Your Health

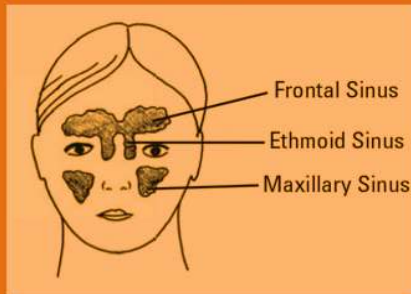
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Sinusitis

What are sinuses?

There are four pairs of sinuses in the head that assist the control of temperature and humidity of the air reaching the lungs. Sinuses begin as pea-sized pouches in the newborn extending outward from the inside of the nose to the bones of the face and skull. They expand and grow throughout childhood and into young adulthood. Eventually they become air pockets or cavities that are lined with the same kind of lining that lines the nose. They are connected to the inside of the nose through smaller openings called ostia.



*Normal maxillary and frontal sinuses.
(Spheroid sinuses not shown).*

Normally the nose and sinuses produce a pint and a half of mucus secretions per day. These secretions pass backwards through the nose picking up dust particles, bacteria and other pollutants along the way. This mucus is swept into the back of the throat by millions of tiny hair-like structures called cilia, which line the nasal cavity. The mucus moves into the throat and is swallowed. Most people do not notice this mucus flow because it is a normal bodily function.



*The view inside a
'normal nose'.*

*A patient with
chronic sinusitis. The
thick green mucus
associated with a
sinus infection can
be seen draining
into Frontal Sinus
the nose.*



Types of sinusitis

Sinus infection occurs in two types. **Acute sinusitis** gives rise to severe symptoms but is usually short-lived. Acute sinusitis usually occurs following a cold. Typically a green-yellow nasal discharge occurs a week or more after the onset of the cold and this is associated with severe pain around the cheeks, eyes and/or forehead. This may be associated with swelling and a high fever along with toothache.

Chronic sinusitis is sinusitis that continues for many weeks. Chronic sinusitis may be caused by an acute sinus infection which fails to resolve or as a result of an underlying allergy affecting the lining membranes of the nose and sinuses. Common symptoms include nasal obstruction, headache, nasal discharge, low grade fever, reduced sense of smell, facial discomfort and halitosis.

What causes sinusitis?

It is worth noting that pain in the face may well be due to other causes such as tension headache, migraine, neuralgia and jaw dysfunction. The pain from sinusitis usually occurs as a result of blockage of the sinus opening. These blockages may be caused by infections, irritants, allergies or a structural abnormality.

Infections

Most adults will get colds and upper respiratory tract infections up to three times a year. Children get them more frequently. Bacterial infections often follow the common cold. When the mucus changes from clear to yellow or green it usually means a bacteria infection has developed. Both viral and bacterial infections cause swelling of the tissues inside the nose and thickening of the normal mucus. This slows down or even stops proper sinus drainage and infection in the sinus may ensue.

Irritants

Air pollution, smoke and chemical irritants, for example some sprays containing pesticides, disinfectants and household detergents, may cause swelling and blockage of the lining of the nose causing a narrowing of the drainage opening from the sinuses. This can once again lead to impairment of sinus drainage and consequent infection.

Allergies

Allergies can cause inflammation inside the nose. Common symptoms of an allergic reaction include nasal stuffiness, runny nose, sneezing and itchy watery eyes. Chronic sinusitis is sometimes associated with asthma. Allergies are responsible for asthma in some patients and may also cause nasal stuffiness making the asthma more difficult to control.