

Asthma:

- is one of the most common respiratory complaints in the world today.

 • affects one in ten children (10%) and one in twenty adults
- (5%)
- can occur for the first time at any age, even in adulthood.
 "usually begins before the age of five years. A few children affected will 'outgrow" it during their teenage years but it usually persists if contracted in adulthood.
 tends to run in families as do related allergic conditions.
- like hay fever and eczema.
- cannot as yet be cured but if kept under control, those affected will be able to live normal lives enjoying full involvement in sport and all other activities.

The greatest tragedy of asthma is that it is sometimes not recognised and treated, in which case the patient undergoes needless suffering.

What happens to the lungs in asthma?

Asthma affects the breathing pipes or tubes called airways or bronchi. When we breathe in, air passes through the voice-box and down the wind-pipe (called the trachea).
The wind-pipe branches into the two main branchi which take air into the two lungs. These branchi then divide further and further, becoming smaller and smaller as they take air deeper into the lungs to the point where oxygen passes into the blood-stream.



In asthma, narrowing of the airway is caused by:

- Swelling of the lining.
 Increased sticky mucus or secretions lying in the airways produced by the mucus glands. The swelling and increased secretions are called inflormation.
 Muscles going into spasm. Spasm occurs only when there is inflormation.

When the bronchi become too narrow or partially obstructed from inflammation and spette typical symptoms of asthma will develop.

- Coughing, which often occurs more frequently at night and with activity, can be dry or mucousy and is persistent

The exact cause of the asthmatic process is not well understood but it is thought to be triggered off by an allergy or when the lungs are irritated by something in the air. (See "Risk factors for asthma and triggers for asthma attacks").

What starts off (triggers) an asthma attack?

A viral cold

A viral cold or the flu can make asthma symptoms
temporarily worse and this effect may last for up to six
weeks after the illness.

Altergies
Asthma attacks are most commonly triggered by allergies
to airborne particles of house-dust mites, grass or tree
pollens, fungal spores and skin flakes from furry animals
such as cats and dogs. Certain foods and additives can
(rarely) also trigger off asthma when eaten.