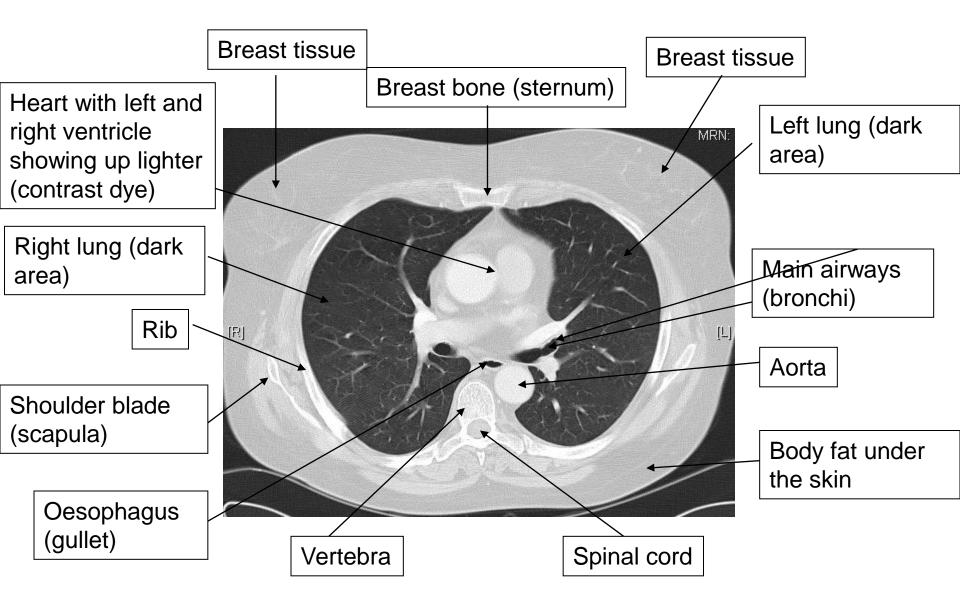




#### CT scan and radiology images

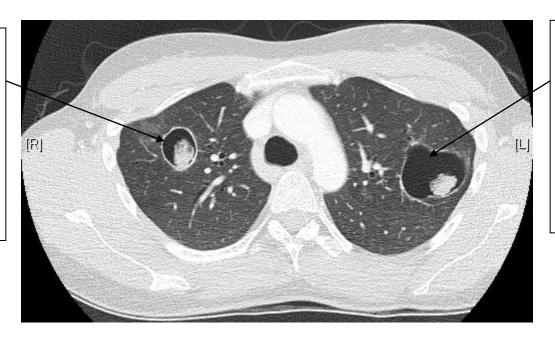
Updated July 2021

### Normal CT scan of the chest



#### 2 fungal balls in the lung (2 aspergillomas)

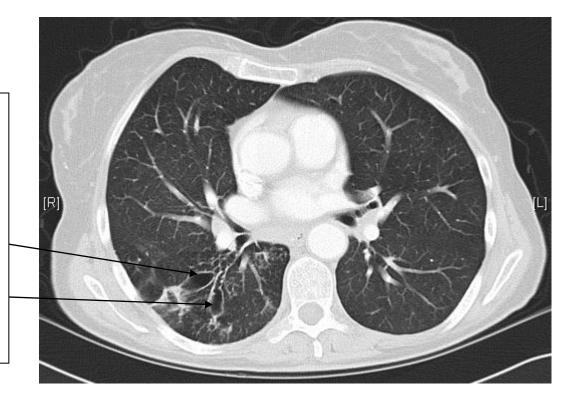
Moderate cavity in the lung with a thin surrounding wall containing a large fungal ball caused by Aspergillus



Large cavity in the lung with a thin surrounding wall containing a large fungal ball caused by Aspergillus

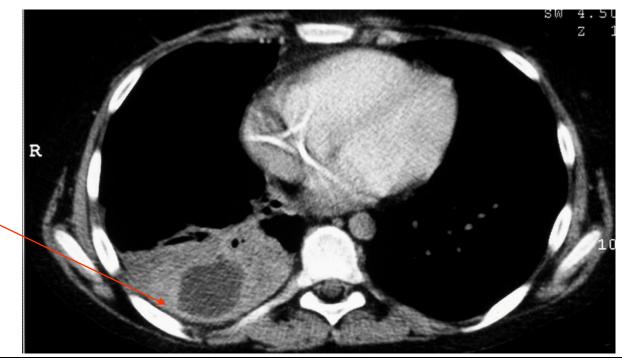
### Allergic bronchopulmonary aspergillosis and bronchiectasis

Enlarged and irregular airways in the right lung caused by long term Aspergillus allergy and repeated infection (bronchiectasis)



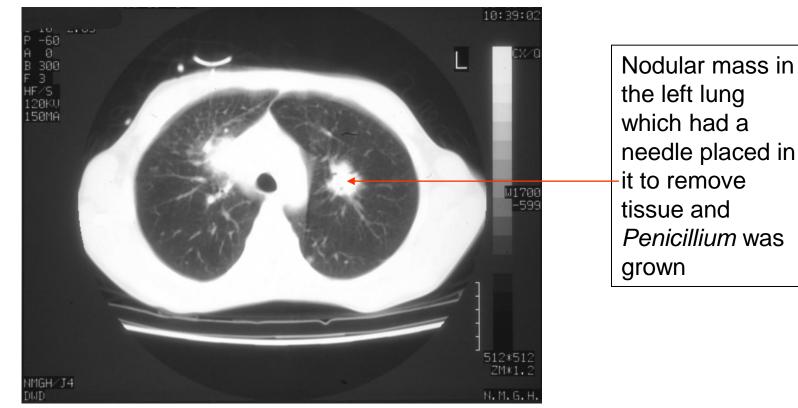
# Invasive fungal infection of the lung caused by Aspergillus

Nodular mass in the left lung which had a needle placed in it to remove tissue and *Penicillium* was grown



Large area of 'pneumonia' caused by *Aspergillus*, in a 14-year-old boy with a T cell lymphoma receiving chemotherapy and low white blood cells. He first noticed this when he developed sudden onset, severe chest pain. His phlegm sputum grew *Aspergillus*. Later he developed a thyroid swelling and a needle aspiration also grew *Aspergillus*, indicating dissemination of invasive aspergillosis. He then underwent a right lower lobe removal which confirmed the diagnosis of invasive pulmonary aspergillosis.

# Invasive fungal infection of the lung caused by *Penicillium*



This disease occurred in a 22-year-old male, with an inherited immune deficiency in which his white cells were poor at killing bacteria and fungi (Chronic Granulomatous Disease). He had previously suffered from an *Aspergillus* infection of his left lung and both feet, and had been taking oral antifungals for 4 years when this *Penicillium* infection occurred.

# Invasive fungal infection of the lung caused by *Fusarium*

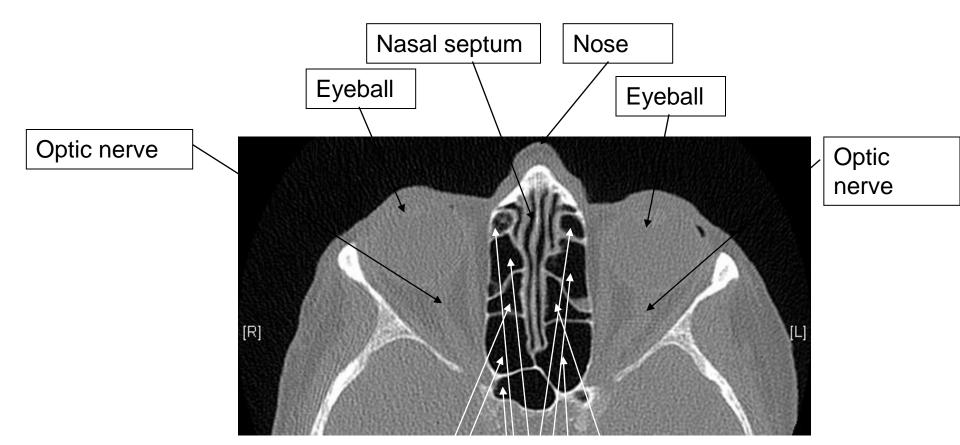


Nodular mass in the left lung which is typical of a fungal infection. This patients blood culture grew Fusarium and he had toenail infection caused by the same infection.



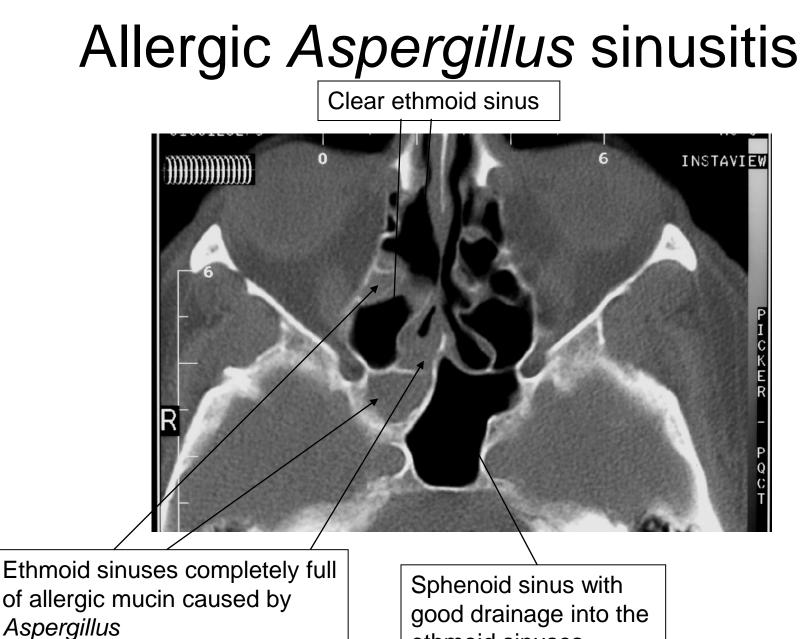
Fungal infection of the toenails is usually not problematic but when it occurs in leukaemia, as in this man, it can spread through the bloodstream to the skin and lungs.

### Normal paranasal sinuses



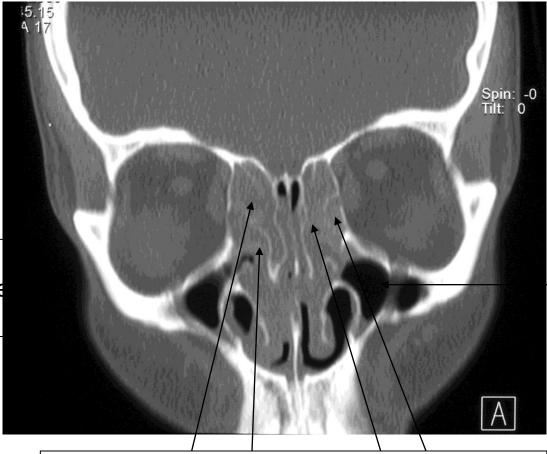
In each person there are maxillary, ethmoid, sphenoid and frontal sinuses

Ethmoid sinuses



ethmoid sinuses

### Allergic Aspergillus sinusitis



Maxillary sinus almost clear of allergic mucin

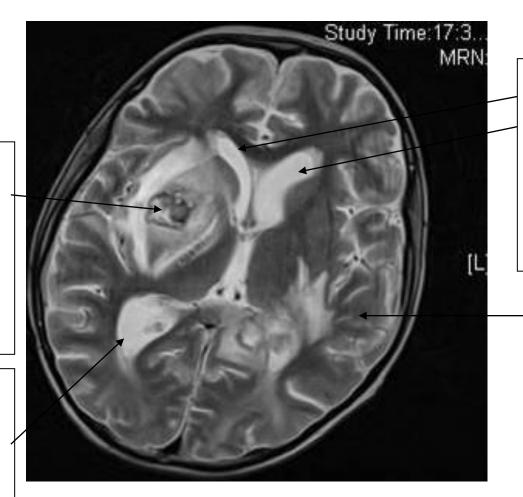
Maxillary sinus containing some allergic mucin

Ethmoid sinuses on both sides completely full of allergic mucin caused by *Aspergillus* 

### Aspergillus abscess in the brain

Large abscess in the right parietal area of the brain, with much surrounding swelling of the brain

Cerebrospinal fluid (CSF) in the posterior right horns of the ventricular system



Cerebrospinal fluid (CSF) in the anterior horns of the ventricular system with an image density similar to water.

> Small abscess in the left occipital lobe, obliterating the posterior horn of the ventricular system, with much surrounding swelling of the brain

#### Aspergillus abscess in the brain

