

How To Diagnose Bronchitis

In more than 90% of cases, the cause is a viral infection. These viruses may be spread through the air when people cough or by direct contact. Risk factors include exposure to tobacco smoke, dust, and other air pollution. A small number of cases are due to high levels of air pollution or bacteria such as *Mycoplasma pneumoniae* or *Bordetella pertussis*. Diagnosis is typically based on a person's signs and symptom. The color of the sputum does not indicate if the infection is viral or bacterial. Determining the underlying organism is typically not needed. Other causes of similar symptoms include asthma, pneumonia, bronchiolitis, bronchiectasis, and COPD. A chest X-ray may be useful to detect pneumonia. 888933c942 The condition includes two related lung problems: chronic bronchitis and emphysema. Chronic bronchitis involves ongoing inflammation of the airways, causing excess mucus production, coughing, and chest discomfort. Emphysema involves damage to the small air sacs in the lungs, which reduces the lungs' ability to transfer oxygen into the bloodstream. Many people with COPD experience shortness of breath, persistent cough, wheezing, and reduced exercise tolerance. Symptoms can become more severe during acute flare-ups, which can be triggered by viral and bacterial infections and exposure to irritants. People with COPD generally display a combination of these symptoms, and are likely to have additional health issues... 888933c942 Black lung disease develops after the initial, milder form of the disease known as anthracosis (from the Greek *ἄνθραξ*, or *ánthrax* – coal, carbon). This is often asymptomatic and is found to at least some extent in all urban dwellers due to air pollution. Prolonged exposure to large amounts of coal dust can result in more serious forms of the disease, simple coal workers' pneumoconiosis and complicated coal workers' pneumoconiosis (or progressive massive fibrosis, PMF). More commonly, workers exposed to coal dust develop industrial bronchitis, clinically defined as chronic bronchitis (i.e. a productive cough for three months per... 888933c942

Airsacculitis Abscess and granuloma can be removed surgically. It is also important to diagnose any additional (comorbid) diseases. To prevent the disease poultry Airsacculitis, also known as air sacculitis, aerosacculitis, air sac disease, air sac infection, air sac syndrome and simply sac disease, is a common inflammatory condition of air sacs that occurs in birds and is caused by various microbial (mostly bacterial) taxa. agent. Having multiple different causative agents, the condition is widely distributed around the world 888933c942

The same term is used for bacterial infection and subsequent inflammation of laryngeal air... 888933c942

Phlegm A major symptom of acute bronchitis is an excess amount of phlegm and is usually caused Phlegm (; Ancient Greek: *φλέγμα*, *phlégma*, "inflammation", "humour caused by heat") is mucus produced by the respiratory system, excluding that produced by the throat and nose passages. The body naturally produces about 1 quart (about 1 litre) of phlegm every day to capture and clear substances in the air and bacteria from the nose and throat. It often refers to respiratory mucus expelled by coughing, otherwise known as sputum. Its color can vary from transparent to pale or dark yellow and green, from light to dark brown, and even to dark grey depending on the contents. major illness associated with excess phlegm is acute bronchitis. Phlegm, and mucus as a whole, is in essence a water-based gel consisting of glycoproteins, immunoglobulins, lipids and other substances. Its composition varies depending on climate, genetics, and state of the immune system 888933c942

Acute bronchitis usually has a cough that lasts around three weeks, and is also known as a chest cold. In more than 90% of cases, the cause is a viral infection. These viruses may be spread through the air when people cough or by direct contact. A small number of cases are caused by a bacterial infection such as *Mycoplasma pneumoniae* or *Bordetella pertussis*. Risk factors include exposure to tobacco smoke, dust, and other air pollution. Treatment of acute bronchitis typically involves rest, paracetamol (acetaminophen), and nonsteroidal anti-inflammatory drugs (NSAIDs) to help with the fever. 888933c942

Bronchitis Frequent Bronchitis is inflammation of the bronchi (large and medium-sized airways) in the lungs that causes coughing. No specific testing is normally needed to diagnose acute bronchitis. Bronchitis can be acute or chronic. One form of prevention is to avoid smoking and other lung irritants. The infection then makes its way down to the bronchi. influenza. Bronchitis usually begins as an infection in the nose, ears, throat, or sinuses. Symptoms include coughing up sputum, wheezing, shortness of breath, and chest pain 888933c942

Acute bronchitis Some have symptoms for up to six weeks. Other symptoms include coughing up mucus, wheezing, shortness of breath, fever, and chest discomfort. The most common symptom is a cough. The Acute bronchitis, also known as a chest cold, is short-term bronchitis – inflammation of the bronchi (large and medium-sized airways) of the lungs. The cough may persist for several weeks afterward with the total duration of symptoms usually around three weeks. The infection may last from a few to ten days. Acute bronchitis, also known as a chest cold, is short-term bronchitis – inflammation of the bronchi (large and medium-sized airways) of the lungs 888933c942

== Life cycle and method of infection == 888933c942 Since the disease is highly infectious, it is especially dangerous for domesticated birds (poultry) bred on big farms. Occurrence of airsacculitis in big flocks can mean high economic loss, as infected poultry needs to be carefully observed, with all of the infected tissue disposed of and not used for human food. In severe cases of the disease whole infected bird carcasses need to be disposed. 888933c942 The COVID-19 outbreak was announced as a global pandemic by the World Health

Organization in March 2020 and has affected a growing number of people globally. In this context, advanced artificial intelligence techniques are being considered as tools in aiding our response to global health crisis. Other COVID-19 apps which offer solutions for user tracking have been developed. At the same time a number of approaches which tries to use respiratory sounds and artificial intelligence to understand if the disease can be diagnosed have been proposed. A few studies are available as preprints (i.e. not yet peer-reviewed... 888933c942 More generally, a differential diagnostic procedure is a systematic diagnostic method used to identify the presence of a disease entity where multiple alternatives are possible. This method may employ algorithms, akin to the process of elimination, or at least a process of obtaining information that decreases the "probabilities" of candidate conditions to negligible levels, by using evidence such as symptoms, patient history, and medical knowledge to adjust epistemic confidences in the mind of the diagnostician (or, for computerized or computer-assisted diagnosis, the software of the system). 888933c942 == Distinction between mucus and phlegm == 888933c942

Black lung disease a productive cough for three Black lung disease (BLD), also known as coal workers' pneumoconiosis, coal miner's lung, or simply black lung, is an occupational type of pneumoconiosis caused by long-term inhalation and deposition of coal dust in the lungs and the consequent lung tissue's reaction to its presence. It is similar to both silicosis from inhaling silica dust and asbestosis from inhaling asbestos dust. e. It is common in coal miners and others who work with coal. More commonly, workers exposed to coal dust develop industrial bronchitis, clinically defined as chronic bronchitis (i. Inhaled coal dust progressively builds up in the lungs and leads to inflammation, fibrosis, and in worse cases, necrosis 888933c942

The first known case of infection with *C. pneumoniae* was a case of conjunctivitis in Taiwan in 1950. There are no known cases of *C. pneumoniae* in human history before 1950. This atypical bacterium commonly causes pharyngitis, bronchitis, coronary artery disease and atypical pneumonia in addition to several other possible diseases. 888933c942 *Chlamydia pneumoniae* has a complex life cycle and must infect another cell to reproduce; thus, it is classified as an obligate intracellular pathogen. The full genome sequence for *C. pneumoniae* was published in 1999. It also infects and causes disease in koalas, emerald tree boas (*Corallus caninus*), iguanas, chameleons, frogs, and turtles. 888933c942

Chronic obstructive pulmonary disease Early diagnosis and prompt treatment are recommended. It occurs when the airways and lung tissue become damaged, leading to reduced airflow and reduced efficiency of oxygen exchange in the lungs. Chronic bronchitis involves ongoing inflammation of the airways, causing Chronic obstructive pulmonary disease (COPD) is a long-term lung condition that makes it progressively harder to breathe. condition includes two related lung problems: chronic bronchitis and emphysema. COPD develops gradually over time, and while it cannot currently be cured, treatments and lifestyle changes can help control symptoms and slow disease progression 888933c942

Differential diagnosis can be regarded as implementing aspects... 888933c942

Differential diagnosis Differential diagnostic procedures are used by clinicians to diagnose the specific disease in a patient, or, at least, to consider any imminently life-threatening conditions. , acute bronchitis could be a differential diagnosis in the evaluation of a cough, even if the final diagnosis is common cold). g. diagnostic procedures are used by clinicians to diagnose the specific disease in a patient, or, at least, to consider any imminently life-threatening conditions In healthcare, a nomothetic (DDx) is a method of analysis that distinguishes a particular disease or condition from others that present with similar clinical features. Often, each possible disease is called a differential diagnosis (e 888933c942

Prevention... 888933c942 More generally, there is controversy over the use of RAD as a label in the healthcare setting, largely due to the ambiguous definition that the term has. Since RAD is not recognized as a real clinical diagnosis, its meaning is highly inconsistent and may cause confusion and misdiagnosis within the medical community. There are also concerns with overtreatment and undertreatment... 888933c942 Usually the disease affects younger birds, aged between 6 and 12 weeks. The most characteristic sign of airsacculitis is an inflamed mucous membrane of bird air sacs, which swells and becomes red, with infected birds exhibiting different symptoms, such as coughing, lethargy, swelling of the neck, difficult breathing, appetite and weight loss etc. 888933c942 == History == 888933c942

Apps to analyse COVID-19 sounds bronchitis, bronchiolitis and pertussis) Apps to analyse COVID-19 sounds are mobile software applications designed to collect respiratory sounds and aid diagnosis in response to the COVID-19 pandemic. e. convolutional neural networks (CNNs) to detect cough within environment audio and diagnose three potential illnesses (i. Current efforts are aimed at gathering data. Numerous applications are in development, with different institutions and companies taking various approaches to privacy and data collection. In a later stage, it is possible that sound apps will have the capacity (and ethical approvals) to provide information back to users. In order to develop and train signal analysis approaches, large datasets are required 888933c942

Chronic bronchitis is defined as a productive cough – one that produces sputum – that lasts for three months or more per year for at least two years. Many people with chronic bronchitis also have chronic obstructive pulmonary disease (COPD... 888933c942

Reactive airway disease Symptoms may also include, but are not limited to, coughing, shortness of breath, excess mucus in the bronchial tube, swollen mucous membrane in the bronchial tube, and/or hypersensitive bronchial tubes. Physicians most commonly label patients with RAD when they are hesitant about formally diagnosing a patient with asthma, which

is most prevalent in the pediatric setting. Individuals who are typically labeled as having RAD generally have a history of wheezing, coughing, dyspnea, and production of sputum that may or may not be caused by asthma. While some physicians may use RAD and asthma synonymously, there is controversy over this usage. An exact definition of the condition does not exist. addition, typical tests used to accurately diagnose children with asthma, such as the bronchial challenge test, are not considered to be accurate for children Reactive airway disease (RAD) is an informal label that physicians apply to patients with symptoms similar to those of asthma 888933c942

Chlamydia pneumoniae bacterium commonly causes pharyngitis, bronchitis, coronary artery disease and atypical pneumonia in addition to several other possible diseases. In some cases, to avoid confusion, both names are given. Briefly, it was known as Chlamydophila pneumoniae, and that name is used as an alternate in some sources. It was known as the Taiwan acute respiratory agent (TWAR) from the names of the two original isolates – Taiwan (TW-183) and an acute respiratory isolate designated AR-39. Chlamydia Chlamydia pneumoniae is a species of Chlamydia, an obligate intracellular bacterium that infects humans and is a major cause of pneumonia 888933c942

Contrary to popular misconception and misuse, mucus and phlegm are not always the same. 888933c942

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