

Disease Causing Microorganisms Are Called

Antivirals for viral infections. 8c3442f2f6 Asthma, chronic bronchitis, bronchiectasis and chronic obstructive pulmonary disease... 8c3442f2f6 Traditional accounts of the causes of disease may point to the "evil eye". 8c3442f2f6 The term pathogen came into use in the 1880s. Typically, the term pathogen is used to describe an infectious microorganism or agent, such as a virus, bacterium, protozoan, prion, viroid, or fungus. Small animals, such as helminths and insects, can also cause or transmit disease. However, these animals are usually referred to as parasites rather than pathogens. The scientific study of microscopic organisms, including microscopic pathogenic organisms, is called microbiology, while parasitology refers to the scientific study of parasites and the organisms that host them. 8c3442f2f6

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Pathogen A pathogen may also be referred to as an infectious agent, or simply a germ. Not all diseases are caused by pathogens, such In biology, a pathogen (from Greek πάθος (pathos) 'suffering, passion' and -γενής (-genēs) 'producer of'), in the oldest and broadest sense, is any organism, agent or micro-organism that can produce disease. Diseases in humans that are caused by infectious agents are known as pathogenic diseases. harboring a pathogen 8c3442f2f6

Disease to disease is called death by natural causes. There are four main types of disease: infectious diseases, deficiency diseases, hereditary diseases, and A disease is a particular abnormal condition that adversely affects the structure or function of all or part of an organism and is not immediately due to any external injury. Diseases are often known to be medical conditions that are associated with specific signs and symptoms. For example, internal dysfunctions of the immune system can produce a variety of different diseases, including various forms of immunodeficiency, hypersensitivity, allergies, and autoimmune disorders. A disease may be caused by external factors such as pathogens or by internal dysfunctions 8c3442f2f6

== Obstructive lung disease == 8c3442f2f6 There are several pathways through

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which pathogens can invade a host. The principal pathways have different episodic time frames, but soil has the longest or most persistent potential for harboring a pathogen. Infections can be caused by a wide range of pathogens, most prominently bacteria and viruses. Hosts can fight infections using their immune systems. Mammalian hosts react to infections with an innate response, often involving inflammation, followed by an adaptive response. Diseases in humans that are caused by infectious agents are known as pathogenic diseases. Not all diseases are caused by pathogens... Antihelminthics for infections caused by parasitic worms. The word etiology is derived from the Greek αἰτιολογία (aitiología), meaning "giving a reason for" (from Ancient Greek αἰτία (aitía) 'cause' and -λογία (-logía)). By the early 19th century, the first vaccine, smallpox vaccination...

Respiratory disease Respiratory diseases, or lung diseases, are pathological conditions affecting the organs and tissues that make gas exchange difficult in air-breathing animals. They include conditions of the respiratory tract including the trachea,

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bronchi, bronchioles, alveoli, pleurae, pleural cavity, the nerves and muscles of respiration. Respiratory diseases range from mild, self-limiting illnesses, such as the common cold, viral pharyngitis, and acute bronchitis, to life-threatening diseases such as bacterial pneumonia, pulmonary embolism, tuberculosis, acute asthma, lung cancer, chronic obstructive pulmonary disease, influenza, and COVID-19.

Respiratory diseases can be classified in many different ways, including by the organ or tissue involved, by the type and pattern of associated signs and symptoms, or by the cause of the disease 8c3442f2f6

Antibiotics for bacterial infections. 8c3442f2f6 Periodontal disease typically arises from the development of plaque biofilm, which harbors harmful bacteria such as *Porphyromonas gingivalis* and *Treponema denticola*. These bacteria infect the gum tissue surrounding the teeth, leading to inflammation and, if left untreated, progressive damage to the teeth and gum tissue. Recent meta-analysis have shown that the composition of the oral microbiota and its response to periodontal disease differ between men and women. These differences are particularly notable in the advanced stages of periodontitis, suggesting that sex-specific factors may influence susceptibility and progression. Factors that increase the risk of disease include

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smoking, diabetes, HIV/AIDS, and almost any autoimmune... 8c3442f2f6 Medieval thinking on the etiology of disease showed the influence of Galen and of Hippocrates. Medieval European doctors generally held the view that disease was related to the air and adopted a miasmatic approach to disease etiology. 8c3442f2f6 The Ancient Roman scholar Marcus Terentius Varro put forward early ideas about microorganisms in a 1st-century BC book titled *On Agriculture*. 8c3442f2f6 == Classification == 8c3442f2f6

Marine microorganisms Many macroscopic animals and plants have microscopic juvenile stages. Marine microorganisms are defined by their habitat as microorganisms living in a marine environment, that is, in the saltwater of a sea or ocean or the brackish water of a coastal estuary. Some microbiologists also classify viruses as microorganisms, but others consider these as non-living. A microorganism (or microbe) is any microscopic living organism or virus, which is invisibly small to the unaided human eye without magnification. They can be single-celled or multicellular and include bacteria, archaea, viruses, and most protozoa, as well as some fungi,

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algae, and animals, such as rotifers and copepods. Microorganisms are very diverse
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Pathogenic fungus Fungal infections are estimated to kill more people than either tuberculosis or malaria—about two million people per year. Approximately Pathogenic fungi are fungi that cause disease in humans or other organisms. Although fungi are eukaryotic, many pathogenic fungi are microorganisms. Although fungi are eukaryotic, many pathogenic fungi are microorganisms. Pathogenic fungi are fungi that cause disease in humans or other organisms. Approximately 300 fungi are pathogenic to humans; their study is called "medical mycology" 8c3442f2f6

Marine microorganisms have been variously estimated to make up between 70 and 90 percent of the biomass in the ocean. Taken together they form the marine microbiome. Over billions of years this microbiome has evolved many life styles and adaptations and come to participate in the global cycling of almost all chemical elements. Microorganisms are crucial to nutrient recycling in ecosystems as they act as decomposers. They are also responsible for nearly all photosynthesis that occurs...
8c3442f2f6 Basic forms of germ theory were proposed by Girolamo Fracastoro in

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1546, and expanded upon by Marcus von Plenciz in 1762. However, such views were held in disdain in Europe, where Galen's miasma theory remained dominant among scientists and doctors. Microorganisms can have very different habitats,... In medicine, etiology refers to the cause or causes of diseases or pathologies. Where no etiology can be ascertained, the disorder is said to be idiopathic. Etiological discovery in medicine has a history in Robert Koch's demonstration that species of the pathogenic bacteria *Mycobacterium tuberculosis* causes the disease tuberculosis; *Bacillus anthracis* causes anthrax, and *Vibrio cholerae* causes cholera. This line of thinking and evidence is summarized in Koch's postulates... Human pathogenic fungi do not form a single taxonomic group but are distributed across multiple fungal lineages. They are commonly classified by shared morphological and biological characteristics, including yeasts, thermally dimorphic fungi, and other groups. Although these fungi differ considerably in ecology and life cycle, each has evolved the capacity to colonize human tissues and cause disease.

Cause (medicine) the causes of disease may point to the "evil eye". The Ancient Roman scholar Marcus Terentius Varro put forward early ideas about

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microorganisms in a Cause, also called etiology () or aetiology, is the reason or origination of something 8c3442f2f6

Microorganism The possible existence of unseen microbial life was suspected from antiquity, with an early attestation in Jain literature authored in 6th-century BC India. The scientific study of microorganisms began with their observation under the microscope in the 1670s by Anton van Leeuwenhoek. discovered that microorganisms caused the diseases tuberculosis, cholera, diphtheria, and anthrax. In the 1850s, Louis Pasteur found that microorganisms caused food spoilage, debunking the theory of spontaneous generation. Microorganisms are extremely diverse, representing most A microorganism, or microbe, is an organism of microscopic size, which may exist in its single-celled form or as a colony of cells. In the 1880s, Robert Koch discovered that microorganisms caused the diseases tuberculosis, cholera, diphtheria, and anthrax 8c3442f2f6

The study of respiratory disease is known as pulmonology. A physician who specializes in respiratory disease is known as a pulmonologist, a chest medicine specialist, a respiratory medicine specialist, a respirologist or a thoracic medicine

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specialist. Treatment for infections depends on the type of pathogen involved. Common medications include: Infectious diseases remain a significant global health concern; communicable, maternal, neonatal, and nutritional diseases together accounted for an estimated 18.6% of global deaths in 2017. The branch of medicine that focuses on infections is referred to as infectious diseases.

Infection Microorganisms can cause tissue An infection is the invasion of tissues by pathogens, their multiplication, and the reaction of host tissues to the infectious agent and the toxins they produce. Disease can arise if the host's protective immune mechanisms are compromised and the organism inflicts damage on the host. An infectious disease is an illness resulting from an infection, and some infectious diseases are also communicable (transmissible)

Antiprotozoals for protozoan infections. == Description ==

Periodontal disease It is considered the main cause of tooth loss for adults worldwide. Usually, periodontal disease exists Periodontal disease, also known as

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gum disease, is a set of inflammatory conditions affecting the tissues surrounding the teeth. periodontitis-causing microorganisms, and to closely monitor affected teeth so early treatment can be rendered if the disease recurs. In its early stage, called gingivitis, the gums become swollen and red and may bleed. In its more serious form, called periodontitis, the gums can pull away from the tooth, bone can be lost, and the teeth may loosen or fall out. Halitosis (bad breath) may also occur
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Antifungals for fungal infections. 8c3442f2f6

Germ theory of disease It states that microorganisms known as pathogens The germ theory of disease is the currently accepted scientific theory explaining the cause of infectious diseases. Pathogens are disease-causing agents that can pass from one individual to another, across multiple domains of life. "Germ" refers not just to bacteria but to any type of microorganism, such as protists or fungi, or other pathogens, including parasites, viruses, prions, or viroids. Even when a pathogen is the principal cause of a disease, environmental and hereditary factors often influence the severity of the disease, and whether a potential host individual

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becomes infected when exposed to the pathogen. Their growth and reproduction within their hosts can cause disease. It states that microorganisms known as pathogens or "germs" can cause disease. These small organisms, which are too small to be seen without magnification, invade animals, plants, and even bacteria. germ theory of disease is the currently accepted scientific theory explaining the cause of infectious diseases 8c3442f2f6

In humans, disease is often used more broadly to refer to any condition that causes or can cause pain, dysfunction, distress, social problems, or death to the person affected, or similar problems for those in contact with the person. In this broader sense, it sometimes includes injuries, disabilities, disorders, syndromes, infections, isolated symptoms, deviant behaviors, and atypical variations of structure and function, while in other contexts and for other purposes these may be considered distinguishable categories. Diseases can affect people not only physically but also mentally, as contracting and living with a disease... 8c3442f2f6 Microorganisms are extremely diverse, representing most unicellular organisms in all three domains of life: two of the three domains, Archaea and Bacteria, only contain microorganisms. The third domain, Eukaryota, includes all multicellular organisms as well as many

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unicellular protists and protozoans that are microbes. Some protists are related to animals and some to green plants. Many multicellular organisms are also microscopic, namely micro-animals, some fungi, and some algae. 8c3442f2f6

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