

Disease Causing Microbes Are Called

Germ theory of disease Pathogens are disease-causing agents that can pass from one individual to another, across multiple domains of life. The germ theory of disease is the currently accepted scientific theory explaining the cause of infectious diseases. 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. 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 becomes infected when exposed to the pathogen. Pathogens are disease-causing agents that can pass from one individual to another, across multiple domains of life. Their growth and reproduction within their hosts can cause disease. individual becomes infected when exposed to the pathogen. "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 99fea9575d

Infection infectious disease is an illness resulting from an infection, and some infectious diseases are also communicable (transmissible). Infections can be caused by 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. An infectious disease is an illness resulting from an infection, and some infectious diseases are also communicable (transmissible) 99fea9575d

Basic forms of germ theory were proposed by Girolamo Fracastoro in 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. 99fea9575d **Antiprotzoals** for protozoan infections. 99fea9575d Other potential causal factors that may play a role in precipitating chronic diseases and cancers are: environmental toxins, radiations, genetics, epigenetics, events during pregnancy, stress, diet, and lifestyle factors. Chronic diseases and cancers are generally assumed to be multifactorial, meaning that the disease is only precipitated when multiple factors are present. For example: in a murine model of Crohn's disease, this illness can be precipitated by a norovirus, but only when a specific gene variant is present, along with a certain toxin which damages the gut. 99fea9575d **Antifungals** for fungal infections. 99fea9575d

List of pollution-related diseases According to the Centers for Disease Control and Prevention (CDC): "Waterborne diseases are caused by pathogenic microbes that can be directly spread through Diseases caused by pollution lead to the chronic illness and premature deaths of approximately 9 million people each year, corresponding to one in six deaths worldwide, according to a 2022 update to the Lancet Commission on Pollution and Health. This is in part because pollution causes so many diseases that it is often difficult to draw a straight line between cause and effect 99fea9575d

Chronic diseases and cancers linked to infectious microbes When a microbe such as a virus, bacterium, fungus, protozoan or archaeon has been linked to a disease, researchers may start to investigate whether that microbe might be the underlying cause of the disease, or might play a causal role in the illness in conjunction with other causal factors. Many chronic diseases and cancers are associated with infectious microbes. By this it is meant that the associated microbe is found in the tissues of patients with the disease more frequently than in the bodies of healthy people. By this it is meant that the associated microbe is found in the tissues of Many chronic diseases and cancers are associated with infectious microbes 99fea9575d

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. 99fea9575d By the early 19th century, the first vaccine, smallpox vaccination... 99fea9575d There are many types of pollution-related diseases, including those caused by air pollution, contaminated soil, water pollution and lacking water, sanitation and hygiene (WASH). Air pollution can be reduced. 99fea9575d 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 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. 99fea9575d

Plant disease epidemiology susceptible host and pathogen are present, but the environment is not conducive to the pathogen infecting and causing disease, a disease cannot occur. Much like diseases of humans and other animals, plant diseases occur due to pathogens such as bacteria, viruses, fungi, oomycetes, nematodes, phytoplasmas, protozoa, and parasitic plants. Typically successful intervention will lead to a low enough level of disease to be acceptable, depending upon the value of the crop. Additionally, understanding the responses of the immune system in plants will further benefit and limit the loss of crops. For example Plant disease epidemiology is the study of disease in plant populations. Destructive and non-destructive methods are used to detect diseases in plants. Plant disease epidemiologists strive for an understanding of the cause and effects of disease and develop strategies to intervene in situations where crop losses may occur 99fea9575d

Treatment for infections depends on the type of pathogen involved. Common medications include: 99fea9575d 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 smoking, diabetes, HIV/AIDS, and almost any autoimmune... 99fea9575d == Signs and symptoms == 99fea9575d Antihelminthics for infections caused by parasitic worms. 99fea9575d

Disease vector Disease vectors remain a major global health challenge. In epidemiology, a disease vector is any living agent that carries and transmits an infectious pathogen such as a parasite or microbe, to another living In epidemiology, a disease vector is any living agent that carries and transmits an infectious pathogen such as a parasite or microbe, to another living organism. Many familiar vectors, such as mosquitos, ticks, and certain flies rely on blood-feeding and can acquire or pass on pathogens during that process. The World Health Organization reports that these illnesses make up over 17% of all infectious diseases worldwide, and are responsible for hundreds of thousands of deaths every year. The term is also used for some insects and other organisms that transmit plant pathogens to crops 99fea9575d

Some of the signs and symptoms of liver disease are the following: 99fea9575d Microorganisms can have very different habitats,... 99fea9575d Agents regarded as vectors are mostly blood-sucking (hematophagous) arthropods such as mosquitoes. The first major discovery of a disease vector came from Ronald Ross in 1897, who discovered the malaria pathogen when he dissected the stomach tissue of a mosquito. 99fea9575d The process of proving that a vector is responsible for transmitting pathogens is called vector incrimination. Transmission depends on interactions among a host, a pathogen, and a vector species that is capable of carrying the infection. Some pathogens may multiply or undergo part of their... 99fea9575d

Liver disease The excess deoxycholic acid causes DNA damage and inflammation in Liver disease, or hepatic disease, is any of many diseases of the liver. If long-lasting it is termed chronic liver disease. Although the diseases differ in detail, liver diseases often have features in common. acid alteration by certain gut microbes, and these microbes are increased with obesity 99fea9575d

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. 99fea9575d Plant disease epidemiology is often looked at from a multi-disciplinary approach, requiring biological, statistical, agronomic and ecological perspectives. Biology is necessary for understanding the pathogen and its life cycle. It is also necessary for understanding the physiology of the crop and how the pathogen is adversely affecting it. Agronomic practices often influence disease incidence for better or for worse. Ecological... 99fea9575d == Other causal factors in chronic diseases and cancers == 99fea9575d

Crohn's disease Symptoms often include abdominal pain, diarrhea, fever, abdominal distension, and weight loss. The skin rashes may be due to infections, as well as pyoderma gangrenosum or erythema nodosum. Although the precise causes of Crohn's disease are unknown, it Crohn's disease (CD) is a type of inflammatory bowel disease (IBD) that may affect any segment of the gastrointestinal tract. Bowel obstruction may occur as a complication of chronic inflammation, and those with the disease are at much greater risk of colorectal cancer and small bowel cancer. Complications outside of the gastrointestinal tract may include anemia, skin rashes, arthritis, inflammation of the eye, and fatigue. those with the disease are at much greater risk of colorectal cancer and small bowel cancer 99fea9575d

Antibiotics for bacterial infections. 99fea9575d Although the precise causes of Crohn's disease are unknown, it is believed to be caused by a combination of environmental, immune, and bacterial factors in genetically susceptible individuals. It results in a chronic inflammatory disorder, in which the body's immune system defends the gastrointestinal tract, possibly targeting microbial antigens. Although Crohn's is an immune-related disease, it does not seem to be an autoimmune disease (the immune system is not triggered by the body itself). The exact underlying immune problem is not clear, though it may be immunodeficiency.... 99fea9575d

Microorganism In the 1880s, Robert Koch 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. 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. The possible existence A microorganism, or microbe, is an organism of microscopic size, which may exist in its single-celled form or as a colony of cells. gut flora. The pathogens responsible for many infectious diseases are microbes and, as such, are the target of hygiene measures 99fea9575d

Environmental diseases are a direct result from the environment. This includes diseases caused by substance abuse, exposure to toxic chemicals, and physical factors in the environment, like UV radiation from the sun, as well as genetic predisposition. Meanwhile, pollution-related diseases are attributed to exposure to toxins in the air, water, and soil. Therefore, all pollution-related disease are environmental diseases, but not all environmental diseases are pollution-related diseases. 99fea9575d Antivirals for viral infections. 99fea9575d

Periodontal disease Periodontal disease, also known as gum disease, is a set of inflammatory conditions affecting the tissues surrounding the teeth. In its early stage, called gingivitis, the gums become swollen and red and may bleed. It is considered the main cause of tooth loss for adults worldwide. 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. In its early stage, called gingivitis Periodontal disease, also known as gum disease, is a set of inflammatory conditions affecting the tissues surrounding the teeth. Halitosis (bad breath) may also occur 99fea9575d

== Environmental diseases vs. pollution-related diseases == 99fea9575d

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