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pathogenic bacteria are specially adapted and endowed with mechanisms for overcoming the normal body defences and can invade parts of the body such as the blood where bacteria are not normally found most pathogenic bacteria multiply in tissue fluids and not in host cells virulence factors virulence factors help bacteria to 1 invade the host 2 cause disease and 3 evade host defenses the following are types of virulence factors many bacteria have developed antimicrobial resistance which has significant implications for infectious diseases and favors the survival of resilient microorganisms this review emphasizes the significance of understanding the bacterial pathogens that cause this health threat on a global scale pathogens are taxonomically widely diverse and comprise viruses and bacteria as well as unicellular and multicellular eukaryotes every living organism is affected by pathogens including bacteria which are targeted by specialized viruses called phages the pathogenicity of an organism that is its ability to cause disease is determined by its virulence factors as learned earlier under bacterial genetics most of the virulence factors that enable bacteria to colonize the body and or harm the body are the products of quorum sensing genes pathogenic bacteria possess characteristics that allow them to evade the body s protective mechanisms and use its resources causing disease finally virulence describes the organism s propensity to cause disease through properties such as invasiveness and the production of toxins pathogenic bacteria utilise a number of mechanisms to cause disease in human hosts bacterial pathogens express a wide range of molecules that bind host cell targets to facilitate a variety of different host responses bacterial pathogenesis is the process by which bacteria infect and cause disease in a host not all bacteria are pathogens and have the ability for pathogenesis also known as virulence 21 bacterial pathogenicity a microbe that is capable of causing disease is referred to as a pathogen while the organism being infected is called a host the ability to cause disease is referred to as pathogenicity with pathogens varying in their ability types diseases prevention summary a pathogen is any organism that causes disease viruses bacteria fungi and parasites are all examples of pathogens your body is naturally full of there are five main types of pathogens bacteria bacteria are microscopic pathogens that reproduce rapidly after entering the body they can release toxins that damage tissues and cause pathogen species belong to 10 phyla and 24 classes scattered throughout the bacterial phylogeny we show that new human pathogens are discovered at a rapid rate finally we discuss how our results could be expanded to a database which could provide a useful resource for microbiologists 3 citations abstract this chapter is a brief introduction to pathogenic microorganisms and also discusses virulence factors an understanding of virulence factors is important as they represent potential targets for the detection of microbial pathogens a pathogen is usually defined as a microorganism that causes or can cause disease we have defined a pathogen as a microbe that can cause damage in a host viruses and certain bacteria including rickettsia and chlamydia are obligate intracellular pathogens that can grow only when inside a host cell if a microbe cannot be cultured a researcher cannot move past postulate 2 infectious diseases are caused by pathogens which include bacteria fungi protozoa worms viruses and even infectious proteins called prions pathogens of all classes must have mechanisms for entering their host and for evading immediate destruction by the host immune system pathogens are taxonomically widely diverse and comprise viruses and bacteria as well as unicellular and multicellular eukaryotes every living organism is affected by pathogens including bacteria which are targeted by specialized viruses called phages measles mumps and tuberculosis can be spread by coughing or sneezing a cough or a sneeze can release millions of microbes into the air in droplets of mucus or saliva which can then infect somebody else if they breathe in the infected particles

food microbes need nutrients for growth and they like to consume the same foods as humans five pathogenic bacteria include bacillus spirochetes rickettsia staphylococcus aureus and escherichia coli

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the pathogenicity of an organism that is its ability to cause disease is determined by its virulence factors as learned earlier under bacterial genetics most of the virulence factors that enable bacteria to colonize the body and or harm the body are the products of quorum sensing genes

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