

# The Spread of Pathogens

18/10

Communicable diseases are spread between individuals by direct contact, indirectly, such as you are all exposed to pathogens, or by air, via aerosols, such as flu or tuberculosis. Pathogens are pathogens, but they don't stay in the air for long and spread little.

## Model 1 - The SIR Model



1. Model 1: In a group will not cause the epidemic unless a large number of people are infected. When many people get together, even without any direct contact
2. Pathogens that have been to become important, are they easy? Distribution of disease
3. Pathogens that have evolved into others of the human population? They keep them

# Spread Of Pathogens Pogil Answer Key

**VM Jensen**



## **Spread Of Pathogens Pogil Answer Key:**

**Environmental Lifestyles and Transmission of Pathogens**, 2014      **You are Responsible for the Spread of Disease** Z. Shakhashiri, 1952      **INFECTIOUS DISEASES** NARAYAN CHANGDER, 2024-07-10 If you need a free PDF practice set of this book for your studies feel free to reach out to me at cbsenet4u gmail com and I ll send you a copy THE INFECTIOUS DISEASES MCQ MULTIPLE CHOICE QUESTIONS SERVES AS A VALUABLE RESOURCE FOR INDIVIDUALS AIMING TO DEEPEN THEIR UNDERSTANDING OF VARIOUS COMPETITIVE EXAMS CLASS TESTS QUIZ COMPETITIONS AND SIMILAR ASSESSMENTS WITH ITS EXTENSIVE COLLECTION OF MCQS THIS BOOK EMPOWERS YOU TO ASSESS YOUR GRASP OF THE SUBJECT MATTER AND YOUR PROFICIENCY LEVEL BY ENGAGING WITH THESE MULTIPLE CHOICE QUESTIONS YOU CAN IMPROVE YOUR KNOWLEDGE OF THE SUBJECT IDENTIFY AREAS FOR IMPROVEMENT AND LAY A SOLID FOUNDATION DIVE INTO THE INFECTIOUS DISEASES MCQ TO EXPAND YOUR INFECTIOUS DISEASES KNOWLEDGE AND EXCEL IN QUIZ COMPETITIONS ACADEMIC STUDIES OR PROFESSIONAL ENDEAVORS THE ANSWERS TO THE QUESTIONS ARE PROVIDED AT THE END OF EACH PAGE MAKING IT EASY FOR PARTICIPANTS TO VERIFY THEIR ANSWERS AND PREPARE EFFECTIVELY      **Preventing the Spread of Disease**, 1940      **Preventing the Spread of Disease** H. LaMont Youtz, South Dakota State College of Agriculture and Mechanic Arts. Agricultural Extension Service, United States. Department of Agriculture, 1927      **The Sources and modes of infection** Charles Value Chapin, 1912      **Germs and Disease** Nova Scotia. Provincial Board of Health, 1893      **Pandemics - Causes and Cures** Douglas J Alford, 2020-07-19 This is the true story of the causes and cures of pandemics We start with the spread of bacteria and virus germs We carry on to understand cells and cancers With hope we see the successes like Smallpox and Polio People continue to work together to create cures      Evaluation of the Use of Wastewater Based Epidemiology as a Surveillance Tool and the Potential Effects of Vaccines and Students Beliefs and Practices in Mitigating the Spread of COVID-19 Among Students at East Carolina University Avian White, 2022 Worldwide newly emerging and re emerging infectious diseases and pathogens have led to increases in the number and frequency of disease outbreaks Although these disease outbreaks are not new increases in outbreaks have led to the need for public health agencies to effectively monitor disease spread It has been estimated that 25% of 60 million deaths occurring yearly are the result of infectious diseases Fauci et al 2005 Nii Trebi 2017 Thus disease monitoring tools are of utmost importance The outbreak and spread of a severe acute respiratory illness in China alerted the world to a potentially new or re emerging pathogen As the virus rapidly spread it was named Severe Acute Respiratory Syndrome 2 SARS CoV 2 by the World Health Organization WHO The SARS CoV 2 virus was deemed a public health emergency and later declared a pandemic as people across the world contracted COVID 19 The rapid spread of the COVID 19 pandemic underscored the need for disease monitoring and surveillance to mitigate spread SARS CoV 2 causes fever dry cough shortness of breath and in some instances loss of taste and smell However some persons particularly those

with pre existing conditions may experience severe symptoms of high fever severe cough pneumonia and even death WHO 2020 In the United States alone an estimated 88 044 073 cases have occurred since the start of the epidemic Worldometer 2022 Early strategies to handle the epidemic included temporary sheltering in place orders and many institutions including schools and universities shifted to online strategies to ensure continuity in learning As these entities later sought to fully re open and regain a sense of normalcy many were tasked with establishing monitoring systems to help detect potential outbreaks The use of wastewater based surveillance was evaluated as a tool in helping to identify when and where student polymerase chain reaction PCR testing should be conducted Here we utilized wastewater based epidemiology by sampling dormitory wastewater thrice weekly during Spring and Fall 2021 Data obtained from this sampling was used to help identify potential cases of COVID 19 in dormitories Additionally as vaccines were developed and distributed the relationship between vaccination rates and COVID 19 cases on campus was investigated Lastly students attitudes and behaviors toward the virus were also evaluated by administering an online survey tool designed through REDCAP systems This survey utilized a Likert scale where possible to aid in analysis and comparison of student responses between Spring 2021 and Fall 2021 semesters Results from this study found significantly higher concentrations of SARS CoV 2 in wastewater were observed during the Spring relative to the Fall semester Dorms with higher numbers of COVID 19 cases also had higher concentrations of SARS CoV 2 in their wastewater A significant inverse relationship was observed between vaccine rates and student COVID 19 cases As vaccinations rates increased within the dormitories the number of student cases decreased Students became more receptive to the vaccine in the Fall semester in comparison to the Spring This change in attitudes may have helped the University s vaccination rates in the Fall semester thus affecting student COVID 19 rates Here we saw students a significant difference in virus perception between Spring 2021 and Fall 2021 semesters Specifically a lower number of students having a negative perception of the virus Additionally students reported having less restrictive behavior e g visitors mask wearing in Fall 2021 compared to Spring 2021 Overall this study showed that universities may successfully use surveillance techniques such as wastewater based epidemiology to help determine when swarm testing of students should be initiated It also provided evidence that vaccination campaigns may have helped to reduce the incidence rate of COVID 19 on campus Gaining an understanding of how students feel and behave regarding the threat of disease outbreaks the implementation of various preventative measures and the effects that changes in educational delivery platforms may have on learning and social interactions are also important for developing successful programs to mitigate the spread of diseases The Spread of Disease [chart-large]., 2000

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