

Physical Education

9-12/Health April 14, 2020



9-12 Health Lesson: April 14,2020

Objective/Learning Target: Chapter 12.2 Transmission, Treatment, and Prevention of Infectious Diseases

- Differentiate between methods of disease transmission
- Explain the various patterns of infectious disease occurrence
- Practice effective methods of infectious disease prevention
- Compare treatments for bacterial and viral infections

Bell Work

What do you touch?

List all the objects you touch each day.

It is likely these objects are touched by other as well. Touching these items increases the likelihood for contact with pathogens and the chances that they could enter your body.

Brainstorm ways to avoid contracting an infectious disease from the surfaces you touch daily.

Methods of Transmission

 Direct Transmission **Direct Contact Droplet Spread** Indirect Transmission **By Animal** By Contaminated Objects **By Airborne Means**

Direct Transmission

Direct Contact microorganisms are passed during physical intimacy or contact Droplet Spread - when an

Droplet Spread - when an individual is within a few feet of an infected person who is coughing, sneezing, or speaking

Indirect Transmission

- By Animal somtimes pathogens use animals as transportation to a human victim • Vectors - mosquitoes, flies, ticks, fleas and lice
- Contamintated Animals
- By Airborne Means

Occurrence of Infectious Disease

- Epidemic infection happens in unexpectedly large numbers over a particular area Pandemic - infection affects an enormous number of people and spreads from one country to much of the world • Endemic - infection
 - levels in a particular area

naturally occurs at low

Prevention of Infectious Diseases

- Hand Washing
- Respiratory Etiquette
- Food Sanitation
 - Pasteurization kills
 pathogens in milk, juice
 and other foods
- Vaccines a dead or nontoxic part of a pathogen that is injected into a person to train their immune system to eliminate that live pathogen

Treatment for Infectious Diseases

- Antibiotics substances that target and kill pathogenic bacteria
 Some bacteria have
 - developed antibiotic
 resistance
 MRSA cannot be contained with antibiotics

Activity

Real World Health

In this lesson, you learned the spread of infectious disease can be prevented by washing your hands. In this activity, you will practice this important method of prevention. With a partner, review the proper methods for hand washing. Wash your hands using warm, soapy water for at least 20 seconds. (Singing "Happy Birthday" twice takes roughly 20 seconds.) Discuss alternative methods to use when water is not available.