Preventing Infectious Diseases Among WPI Students

Aaron Behanzin
Worcester Polytechnic Institute

Ijeoma Ezeonyebuchi
Worcester Polytechnic Institute

Michelle Ly
Worcester Polytechnic Institute

Ting Ting Wang
Worcester Polytechnic Institute

Follow this and additional works at: http://digitalcommons.wpi.edu/gps-posters

Recommended Citation
Behanzin, Aaron; Ezeonyebuchi, Ijeoma; Ly, Michelle; and Wang, Ting Ting, "Preventing Infectious Diseases Among WPI Students" (2009). Great Problems Seminar Posters. Book 301.
http://digitalcommons.wpi.edu/gps-posters/301

This Text is brought to you for free and open access by the Great Problems Seminar at DigitalCommons@WPI. It has been accepted for inclusion in Great Problems Seminar Posters by an authorized administrator of DigitalCommons@WPI.
Preventing Infectious Diseases Among WPI Students

Aaron Behanzin, Ijeoma Ezeonyebuchi, Michelle Ly, Ting Ting Wang

Goal: To educate the WPI community on the transmission of infectious diseases and how to avoid them both on campus and off campus, especially in IQP/MQP project centers.

Direct Contact
A disease that is transmitted between an infected person and an uninfected person through touching.

Examples:
- Whooping Cough (Pertussis): a bacterial disease
  - Symptoms: runny nose, mild fever, sneezing, watery red eyes, exhaustion, severe coughing
  - Treatment: medicine to treat the symptoms
  - Prevention: avoid contact with infected people, wash hands often

- Mononucleosis: a viral illness that causes fatigue
  - Symptoms: swollen glands & tonsils, fever, sore throat, weakness
  - Treatment: throat lozenges, bed rest, TYLENOL
  - Prevention: don’t share items, wash hands often

- Swine Flu (H1N1): influenza caused by a virus related to a virus isolated from infected swine
  - Symptoms: fever, cough, muscle aches, chills
  - Treatment: medicine to treat the symptoms
  - Prevention: vaccine, wash hands often

- Hepatitis A: inflammation of the liver
  - Symptoms: vomiting, jaundice, liver pain
  - Treatment: medicine to treat the symptoms
  - Prevention: vaccine, wash hands often

General Ways of Prevention:
- Wash hands often and use hand sanitizer with at least 60% alcohol
- Wear long clothing and bug repellants
- Don’t share items
- Make sure foods are thoroughly cooked and water boiled
- Stay away from sick people (3 – 6 feet)
- Maintain proper hygiene
- Immunization

Indirect Contact
A disease that is transmitted through contact with surfaces that is contaminated by an infected person.

Examples:
- Severe acute respiratory syndrome (SARS): an infectious respiratory illness
  - Symptoms: fever, cough, muscle aches, chills
  - Treatment: medicine to treat the symptoms
  - Prevention: avoid contact with infected people, wash hands often

- Cholera: a bacterial disease
  - Symptoms: fever, headache, seizures, delirium
  - Treatment: medicine to treat the symptoms
  - Prevention: long clothing, bug repellant, bed nets

- Yellow Fever: a viral infection transmitted by mosquitoes
  - Symptoms: fever, headache, seizures, delirium, jaundice, vomiting blood
  - Treatment: medicine to treat the symptoms
  - Prevention: long clothing, bug repellant, bed nets, vaccine

Body Fluids
A disease that is transmitted through the waste, blood, or saliva and acquired through its ingestion.

Examples:
- Cholera: a bacterial disease
  - Symptoms: fever, headache, seizures, delirium
  - Treatment: medicine to treat the symptoms
  - Prevention: long clothing, bug repellant, bed nets

- Hepatitis A: inflammation of the liver
  - Symptoms: vomiting, jaundice, liver pain
  - Treatment: medicine to treat the symptoms
  - Prevention: vaccine, wash hands often

Vector-Borne
A disease that is transmitted to humans by another organism like an insect or mammal.

Examples:
- Malaria: a disease caused by a parasite transmitted from the bite of mosquitoes
  - Symptoms: chills, high fever, sweating
  - Treatment: antimalarial drugs
  - Prevention: long clothes, bug repellant, bed nets

References:
- Mayo Clinic staff. Whooping cough.
- Methods of disease transmission.
- Infection control and prevention.
- List of common infectious diseases.
- Vector borne diseases.
- Malaria.
- Severe acute respiratory syndrome.