

# NIEHS WTP PATHOGEN SAFETY DATA GUIDE TRAINING MODULE

## Worksheet Answer Key

Form small groups, select a recorder/reporter and map out the answers on the worksheet below.

### 1. Introductions (small group activity)

**Objective:** to get to know one another, identify key infectious disease hazards in our workplaces, and get oriented to the experience and needs of participants.

a) What worksites and occupations are represented in this group?

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b) What are some of the key infectious disease hazards at your workplace?

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c) What prior experience have you had in addressing infectious disease hazards at work? Describe what happened, successes and obstacles.

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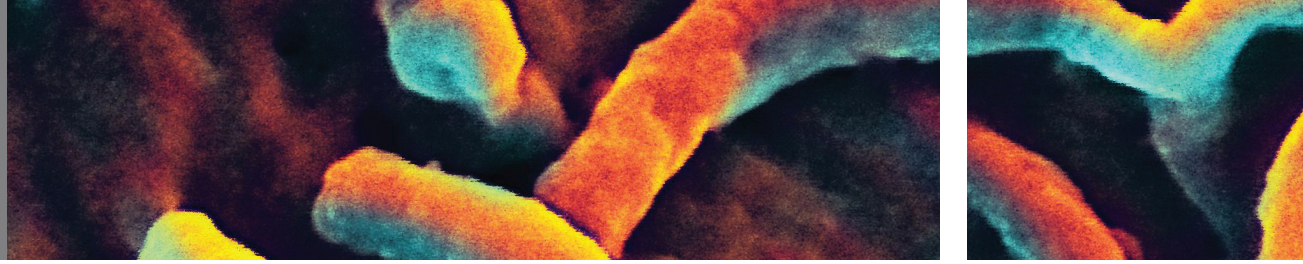
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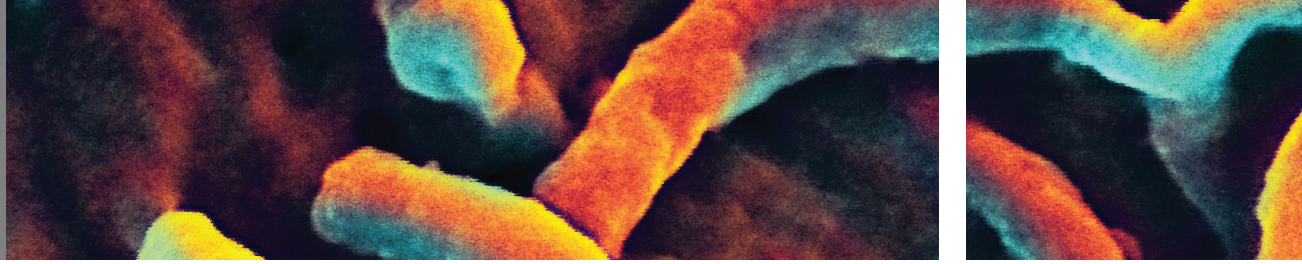


## 2. Terms and Definitions Exercise (individual activity)

**Objective:** To become familiar with key terms and definitions used in pathogen safety data resources and become comfortable using the glossary in the Guide.

This is an individual exercise. Match the terms on the left with the definitions on the right. Put the answers in the Answers column. If you are not familiar with the terminology, use the Glossary in the guidebook to look up the definitions.

Answers	Terms	Definitions
<b>G</b>	Virulence	A. An object, such as clothing, towels, and utensils that possibly harbor an infectious agent and are capable of transmitting it.
<b>C</b>	Pathogenicity	B. The time elapsed between exposure to a pathogenic organism and when symptoms and signs first appear.
<b>E</b>	Toxicity	C. The ability of an organism to cause disease and harm the host.
<b>A</b>	Fomite	D. Scientific classification
<b>B</b>	Incubation period	E. The degree to which a substance, including toxin or poison, can harm humans or animals.
<b>K</b>	Communicable disease	F. A measure taken to prevent disease.
<b>F</b>	Prophylaxis	G. The degree of damage caused by a pathogen and its ability to cause disease.
<b>H</b>	Zoonosis	H. A disease of animals that can be transmitted to humans
<b>J</b>	OPIM	I. Infectious microorganisms in human blood that can cause disease in humans.
<b>I</b>	Bloodborne Pathogens	J. Other potentially infectious material including saliva in dental procedures, amniotic fluid, pleural fluid, vaginal secretions, semen, fluid surrounding the brain and spinal cord, any body fluid that is visibly contaminated with blood, any unfixed tissue or organ from a human or non-human primate, and cell tissue cultures.
<b>D</b>	Taxonomy	K. An infectious or contagious disease spread from person to person, animal to person, or contaminated object or material to person.

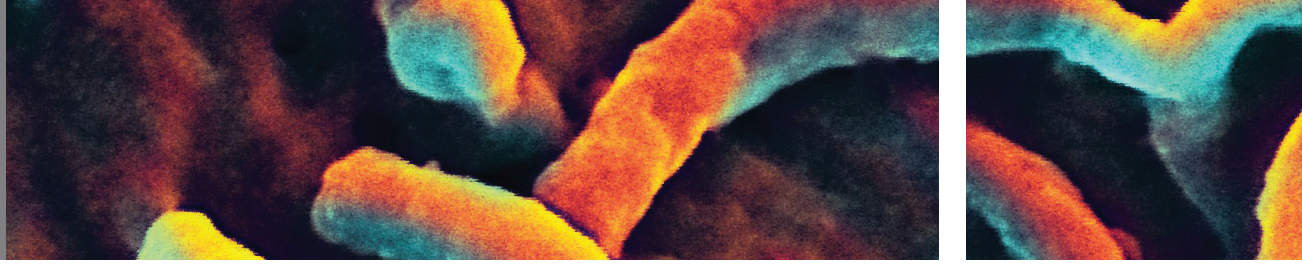


### 3. Characterizing Infectious Disease Hazards (small group activity)

**Objective:** Familiarize participants with existing pathogen safety data resources to identify an infectious agent's properties.

- a) What infectious agent are you researching? \_\_\_\_\_
- b) It is a: (check one)  bacterium  virus  fungi (mold)?
- c) How is it transmitted? \_\_\_\_\_
- d) What are the symptoms? \_\_\_\_\_
- e) What is the incubation period? \_\_\_\_\_
- f) Why is it important to know the incubation period? \_\_\_\_\_
- g) What is the pathogens' source? \_\_\_\_\_
- h) How long does the pathogen survive outside of the host? \_\_\_\_\_
- i) Have there been exposures to workers in your workplace?  Yes  No  Don't Know  
If yes, describe: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_
- j) Have there been cases among workers in your employment?  Yes  No  Don't Know  
If yes, describe: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**The case studies and related questions can be used as a substitute or supplement for Activity 3 and 4.**



**4. Occupational Exposure Risk Assessment and Control applied to the infectious disease agent in Question 3 above. (small group activity)**

**Objective:** Participants will become familiar with using Pathogen Safety Data for assessing occupational exposure and selection of control measures for infectious agents.

- a) List job classifications and departments of up to 3 exposure groups. Hazard groups include: blood and body fluids, respiratory, animal/insect

Job Classifications / Departments	Job Tasks	Hazard Groups

- b) What are the job specific routes of exposure? \_\_\_\_\_

- c) List methods that are available to identify the infectious agent?

\_\_\_\_\_

\_\_\_\_\_

- d) What level of protection is needed? Explain your answer.

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

- e) What type of engineering controls should be in place? \_\_\_\_\_

- f) What type of administrative controls should be in place? \_\_\_\_\_

- g) What type of respiratory protective equipment should be used? \_\_\_\_\_

- h) What type of Personal Protective Equipment should be used? \_\_\_\_\_

**5. Action Planning** *(This activity may be skipped in a direct training program.)*

This is a large group activity. Participants will write their ideas for using the PSD Guide and related Training Module in their work and share it with the group during the report back.

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