

# PREVENT EPIDEMICS AND THE SPREAD OF DISEASE

**Prevent Epidemics and the Spread of Disease (PE)** - Controlling infectious or communicable disease is fundamental to public health. Prevent Epidemics and the Spread of Disease Standards address surveillance, investigation, and prevention and control measures. These measures must be in place for every-day activities such as reportable disease follow-up as well as events of disease outbreaks. Epidemiology, environmental health, and laboratory functions are equal elements in this system.

- Standard PE1** - Provide and maintain a surveillance system to gather information about common, rare, and environmental diseases, including disease outbreaks.
- Standard PE2** - Provide and maintain a comprehensive reportable disease follow-up and disease outbreak investigation system that incorporates epidemiology, environmental, and laboratory functions.
- Standard PE3** - Provide and maintain measures to prevent and control the spread of infectious, communicable, and environmental diseases.

**STANDARD PE1 - PROVIDE AND MAINTAIN A SURVEILLANCE SYSTEM TO GATHER INFORMATION ABOUT COMMON, RARE, AND ENVIRONMENTAL DISEASES, INCLUDING DISEASE OUTBREAKS.**

**PE1a-L** - Develop and maintain a 24 hour, seven days a week, 365 days a year surveillance system.

Components of the system must include:

- mechanism for notification among partners
- process to educate and inform partners and the public
- process for disease confirmation
- epidemiological review of disease activities

**PE1b-L** - Conduct disease surveillance activities in accordance with state recommended resources.

State recommended resources include but are not limited to:

- Iowa Department of Public Health (IDPH) EPI Manual
- University Hygienic Laboratory (UHL) Web site
- Communicable Disease Manual
- Epidemiology and Prevention of Vaccine Preventable Diseases (Pink Book)
- Centers for Disease Control and Prevention (CDC) and Food and Drug Administration (FDA) Web sites
- IDPH Foodborne Outbreak Investigation Manual
- Iowa Disease Surveillance System
- Federal, state, local laws and ordinances

**PE1c-L** - Establish partnerships and work cooperatively on disease surveillance initiatives.

Partners should include but not be limited to:

- other state health departments
- Federal Government (CDC, HHS, FDA, etc.)
- UHL personnel
- infection control practitioners
- health care professionals
- school nurses
- child care providers
- all other state agencies (e.g., Homeland Security, Department of Inspections and Appeals, Department of Natural Resources, etc.)
- local public health agencies
- national health organizations (ASTHO, APHA, CSTE, etc.)
- public/environmental health personnel
- laboratorians
- veterinarians
- academicians
- institutions (educational, long-term care, residential care, correctional facilities)

**PE1d-L** - Assure timely collection and delivery of specimens to designated laboratory.

**PE1e-L** - Evaluate the effectiveness of the surveillance system annually.

**PE1f-L** - Develop and implement an improvement plan annually based on evaluation of the surveillance system.

**PE1g-L** - Assure that staff members are knowledgeable and trained in current practices in disease surveillance.

**PE1a-S** - Develop and maintain a 24 hour, seven days a week, 365 days a year surveillance system.

Components of the system must include:

- mechanism for notification among partners
- process to educate and inform partners and the public
- process for disease confirmation
- epidemiological review of disease activities

**PE1b-S** - Provide technical assistance, epidemiological consultation, information, and resource referral to local public health agencies regarding disease surveillance on federal, state, local laws and ordinances.

**PE1c-S** - Provide state epidemiological capacity and expertise as a resource regarding disease education and outbreak management.

**PE1d-S** - Develop and maintain state recommended resources to conduct disease surveillance.

**PE1e-S** - Assure the state public health laboratory identifies and detects infectious diseases and, contributes to a statewide surveillance system.

**PE1f-S** - Assure the state public health laboratory has the ability to respond to the needs of health care providers and public health practitioners.

In addition to assuring laboratory services:

- Support the need for a state public health lab to develop and/or implement new technologies so that the latest and most effective methods to accurately detect pathogens are available for public health and health care providers.
- Support state public health laboratory in informing and educating other reference labs throughout the state with current guidelines.
- Support state public health lab in maintaining federal Clinical Laboratory Improvement Amendment (CLIA) standard.

**PE1g-S** - Assure that disease surveillance training is available to local public health agencies.

**PE1h-S** - Conduct disease surveillance activities according to state recommended epidemiology resources.

State recommended resources include but are not limited to:

- Iowa Department of Public Health (IDPH) EPI Manual
- University Hygienic Laboratory (UHL) Web site
- Communicable Disease Manual
- Federal, state, local laws and ordinances
- Centers for Disease Control and Prevention (CDC) and Food and Drug Administration (FDA) Web sites
- IDPH Foodborne Outbreak Investigation Manual
- Iowa Disease Surveillance System
- Epidemiology and Prevention of Vaccine Preventable Diseases (Pink Book)

**PE1i-S** - Provide timely statewide reportable disease summaries in a manner consistent with the state code.

**PE1j-S** - Establish partnerships and work cooperatively on disease surveillance initiatives.

Partners should include but not be limited to:

- other state health departments
- Federal Government (CDC, HHS, FDA, etc.)
- UHL personnel
- infection control practitioners
- health care professionals
- school nurses
- child care providers
- institutions (educational, long-term care, residential care, correctional facilities)
- all other state agencies (e.g., Homeland Security, Department of Inspections and Appeals, Department of Natural Resources, etc.)
- local public health agencies
- national health organizations (ASTHO, APHA, CSTE, etc)
- public/environmental health personnel
- laboratorians
- veterinarians
- academicians

**PE1k-S** - Evaluate the effectiveness of the surveillance system and provide updates annually to partners.

**PE1l-S** - Develop and implement an improvement plan annually based on evaluation of the surveillance system.

**PE1m-S** - Assure that state public health department staff members are knowledgeable and trained in current practices in disease surveillance.

**STANDARD PE2 - PROVIDE AND MAINTAIN A COMPREHENSIVE REPORTABLE DISEASE FOLLOW-UP AND DISEASE OUTBREAK INVESTIGATION SYSTEM THAT INCORPORATES EPIDEMIOLOGY, ENVIRONMENTAL, AND LABORATORY FUNCTIONS.**

**PE2a-L** - Develop, implement, and maintain written policies and procedures, including assignment of responsibilities for reportable disease follow-up and disease outbreak investigations.

**PE2b-L** - Conduct reportable disease follow-up investigations and disease outbreak investigation activities in accordance with state recommended resources.

State recommended resources include, but are not limited to:

- Iowa Department of Public Health (IDPH) EPI Manual
- University Hygienic Laboratory (UHL) Web site
- Communicable Disease Manual
- Epidemiology and Prevention of Vaccine Preventable Diseases (Pink Book)
- Centers for Disease Control and Prevention (CDC) and Food and Drug Administration (FDA) Web sites
- IDPH Foodborne Outbreak Investigation Manual
- Iowa Disease Surveillance System
- Federal, state, local laws and ordinances

**PE2c-L** - Establish partnerships and work cooperatively with community partners on reportable and disease outbreak investigations.

Partners should include but not be limited to:

- other state health departments
- Federal Government (CDC, HHS, FDA, etc.)
- UHL personnel
- infection control practitioners
- health care professionals
- school nurses
- child care providers
- institutions (educational, long-term care, residential care, correctional facilities)
- all other state agencies (e.g., Homeland Security, Department of Inspections and Appeals, Department of Natural Resources, etc.)
- local public health agencies
- national health organizations (ASTHO, APHA, CSTE, etc.)
- public/environmental health personnel
- laboratorians
- veterinarians
- academicians

**PE2d-L** - Evaluate the effectiveness of the investigation system annually.

**PE2e-L** - Complete a lessons learned report following significant events.

**PE2f-L** - Develop and implement an improvement plan annually based on evaluation of the investigation system and lessons learned reports.

**PE2g-L** - Assure that staff members are knowledgeable and trained in current practices in disease follow-up and outbreak investigation.

**PE2a-S** - Develop, implement, and maintain written policies and procedures, including assignment of responsibilities between local and state public health departments.

**PE2b-S** - Develop comprehensive communication plan between local and state public health departments.

**PE2c-S** - Develop and maintain state based resources for disease follow-up and outbreak management.

**PE2d-S** - Provide state epidemiological capacity and expertise as a resource regarding disease education and outbreak management.

**PE2e-S** - Provide technical assistance, epidemiological consultation, information, and resource referral to local public health agencies regarding disease education and outbreak management.

**PE2f-S** - Assure that disease follow-up and outbreak management is available for local public health agencies.

**PE2g-S** - Conduct reportable disease follow-up investigations and disease outbreak investigation activities in accordance with state recommended resources.

State recommended resources include, but are not limited to:

- Iowa Department of Public Health (IDPH) EPI Manual
- University Hygienic Laboratory (UHL) Web site
- Communicable Disease Manual
- Epidemiology and Prevention of Vaccine Preventable Diseases (Pink Book)
- Centers for Disease Control and Prevention (CDC) and Food and Drug Administration (FDA) Web sites
- IDPH Foodborne Outbreak Investigation Manual
- Iowa Disease Surveillance System
- Federal, state, local laws and ordinances

**PE2h-S** - Establish partnerships and work cooperatively with community partners on reportable disease and outbreak investigations.

Partners should include but not be limited to:

- other state health departments
- Federal Government (CDC, HHS, FDA, etc.)
- UHL personnel
- infection control practitioners
- health care professionals
- school nurses
- child care providers
- institutions (educational, long-term care, residential care, correctional facilities)
- all other state agencies (e.g., Homeland Security, Inspections and Appeals, Department of Natural Resources, etc.)
- local public health agencies
- national health organizations (ASTHO, APHA, CSTE, etc.)
- public/environmental health personnel
- laboratorians
- veterinarians
- academicians

**PE2i-S** - Evaluate the effectiveness of the investigation system and provide updates annually to partners.

**PE2j-S** - Complete a lessons learned report following significant events.

**PE2k-S** - Develop and implement an improvement plan annually based on evaluation of the investigation system and lessons learned reports.

**PE2l-S** - Assure that state public health department staff members are knowledgeable and trained in current practices in disease follow-up and outbreak management.

**STANDARD PE3 - PROVIDE AND MAINTAIN MEASURES TO PREVENT AND CONTROL THE SPREAD OF INFECTIOUS, COMMUNICABLE, AND ENVIRONMENTAL DISEASES.**

**LOCAL CRITERIA**

**PE3a-L** - Identify, design, and implement prevention and control measures for individuals, communities, and the environment.

Prevention and control measures should include, but are not limited to:

- public information and education
- vaccinations/immunizations for children and adults
- quarantine and isolation strategies
- environmental health controls
- treatment guidelines

**PE3b-L** - Provide clear, culturally appropriate, timely, and effective education, information, and consultation about prevention, management, and control of communicable diseases to the public and health care community.

**PE3c-L** - Evaluate the effectiveness of the prevention and control measures annually.

**PE3d-L** - Develop and implement an improvement plan annually based on evaluation of the prevention and control measures.

**PE3e-L** - Assure that staff members are knowledgeable and trained in current practices to prevent and control the spread of infectious, communicable, and environmental diseases.

**STATE CRITERIA**

**PE3a-S** - Identify, design, and implement prevention and control measures for individuals, communities, and the environment.

Prevention and control measures should include, but are not limited to:

- public information and education
- quarantine and isolation strategies
- treatment guidelines
- vaccinations/immunizations for children and adults
- environmental health controls

**PE3b-S** - Review, update, and distribute date-marked prevention and control measures to partners.

**PE3c-S** - Provide technical assistance, epidemiological consultation, information, and resource referral to local public health agencies regarding disease prevention and control on federal, state, local laws and ordinances.

**PE3d-S** - Provide models to measure effectiveness of disease prevention and control interventions.

- PE3e-S** - Serve as surge capacity for local public health agencies directly involved in outbreak control.
- PE3f-S** -Assure that training in prevention and control of infectious, communicable and environmental diseases is available for local public health agencies.
- PE3g-S** -Provide clear, culturally appropriate, timely, and effective education, information, and consultation about prevention, management, and control of communicable diseases to the public and health care community.
- PE3h-S** -Evaluate the effectiveness of the prevention and control measures annually.
- PE3i-S** - Develop and implement an improvement plan annually based on evaluation of the prevention and control measures.
- PE3j-S** - Assure that state public health department staff members are knowledgeable and trained in current practices to prevent and control infectious, communicable and environmental diseases.