

# Alaska Infectious Disease Reporting & Investigation



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# Learning Objectives



- **DESCRIBE** purpose of section of epidemiology
- **DEFINE** public health emergencies
- **LOCATE** infectious disease investigation procedures and the necessary resources for infectious disease investigation/education
- **IDENTIFY** expectations for conducting a case interview to ascertain needed information
- **EXPLORE** the public health nurse's role in detecting an outbreak or cluster of an infectious disease

# Presentation Layout



**PART I: SECTION OF EPI OVERVIEW**

**PART II: RESOURCES**

**PART III: CASE INVESTIGATION PROCESS**

**PART IV: OUTBREAK IDENTIFICATION**

Part I:  
Section of Epidemiology  
Overview

# What is Epidemiology?



- Study of health-related states and events (not just diseases)
- “Epidemiology is the study of how often diseases occur in different groups of people and why.”
  - ✦ The BMJ. Chapter 1: What is Epidemiology. Retrieved from [www.bmj.com/about-bmj/resources/readers/publications/epidemiology-uninitiated/1-what-epidemiology](http://www.bmj.com/about-bmj/resources/readers/publications/epidemiology-uninitiated/1-what-epidemiology)

# What is Epidemiology: Purpose



- **Alaska Section of Epidemiology Mission Statement**

*“The Alaska Section of Epidemiology keeps Alaskans safe from communicable diseases; injuries; and environmental, occupational, and other health hazards.”*

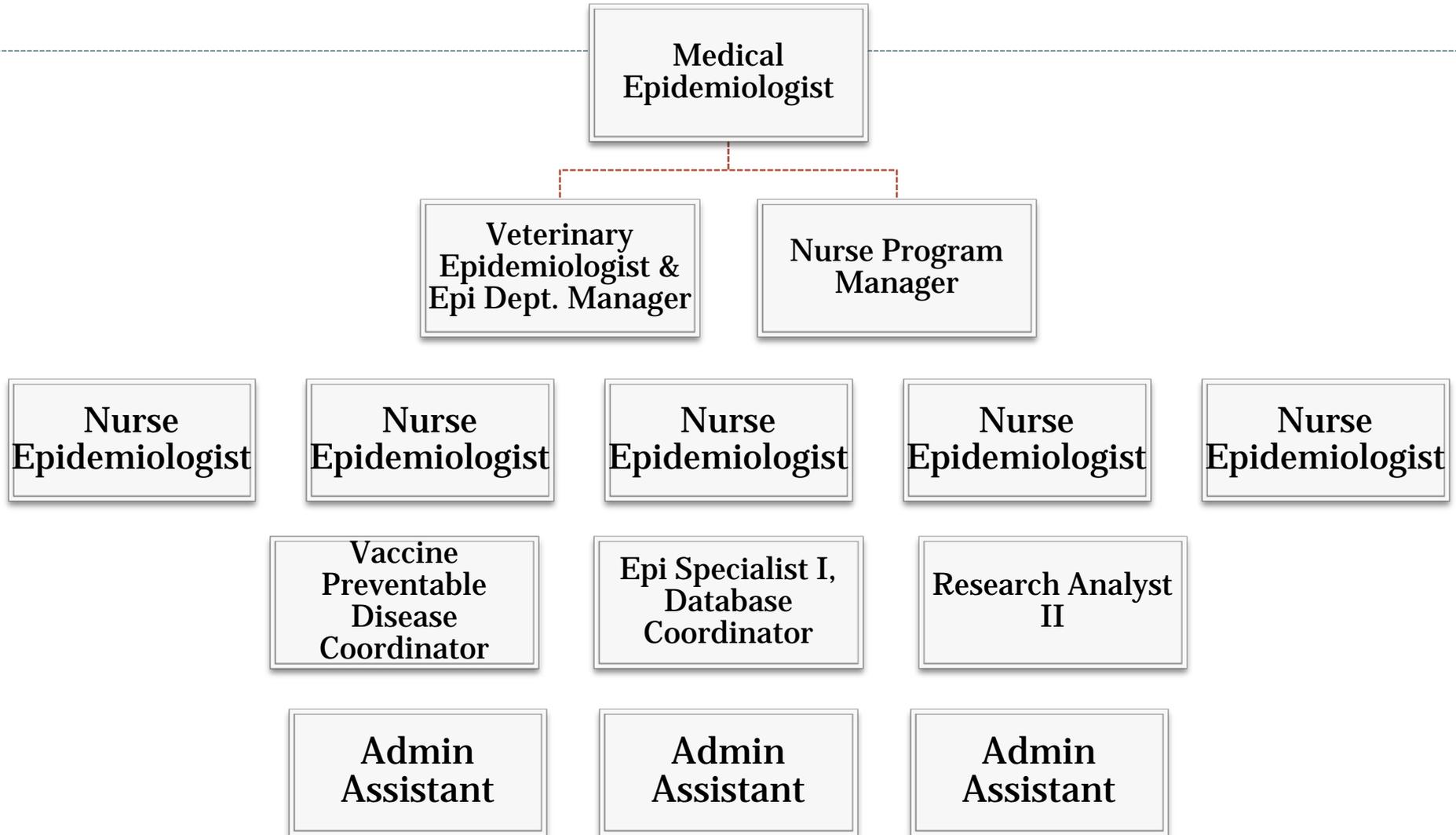
# Alaska Section of Epidemiology



Section Chief  
Joe McLaughlin



# TB/Infectious Disease Program Staff



# TB/Infectious Disease Program



- **OUR JOB IS TO**

- Track disease trends
- Implement control programs/interventions
- Rapidly investigate outbreaks to reduce morbidity and mortality
  - Identify cause of disease/illness
  - Identify people who are at risk
  - Intervene to control, stop, or prevent the spread of infectious illnesses

# Reporting



- **What is Reportable?**
  - Communicable diseases
  - Injuries
  - Environmental, occupational, and other health hazards
- **Who Reports?**
  - Laboratories
  - Providers
  - Public Health Nurses

# Why Report?



**Mandated by Alaska law**

# Reportable Conditions

- Mandated by law
- Includes infectious and non-infectious illnesses/events
- Relevant laws linked on Epi website

The screenshot shows the website for the Alaska Department of Health and Social Services, specifically the page for "Conditions Reportable to Public Health in Alaska". The page includes a navigation bar with links for Home, Divisions and Agencies, Services, News, and Contact Us. The main content area is divided into three columns: "What Is Reportable" (with sub-sections for Health Care Providers and Laboratories), "How To Report" (with sub-sections for Methods and Report Forms), and "Other Reporting Resources". A red arrow points to a link in the "Other Reporting Resources" section: "Alaska statutes and regulations relevant to disease reporting and control".

**State of Alaska** myAlaska My Government Resident Business in Alaska Visiting Alaska State Employees

Alaska Department of Health and Social Services

Home Divisions and Agencies Services News Contact Us

Health and Social Services > Public Health > Epidemiology > Conditions Reportable to Public Health in Alaska

## Conditions Reportable to Public Health in Alaska

This site provides information to help health care providers and laboratories comply with public health reporting requirements in Alaska. Further assistance may be obtained by calling the Section of Epidemiology at (907) 269-8000.

Conditions Reportable to Public Health Manual  
Updated December 2016

**To report Public Health Emergencies call (907) 269-8000 or after hours (800) 478-0084**

**Other Reporting Resources**

- > Alaska statutes and regulations relevant to disease reporting and control
- > Frequently Asked Questions about infectious disease reporting
- > One page posters of all reportable infectious

**What Is Reportable**

**by Health Care Providers**

- > Birth Defects
- > Blood Lead Level Testing
- > Cancer
- > Firearm Injuries
- > Healthcare-Associated Infections
- > Immunization Administration Data
- > Infectious Diseases
- > Newborn Hearing Loss
- > Occupational Disease and Injuries
- > Sexually Transmitted Diseases, HIV Infections and AIDS
- > Toxic or Hazardous Exposures

**by Laboratories**

- > Infectious Disease Pathogens

**How To Report**

**Methods**

**Report Forms**

- > Birth Defects
- > Blood Lead Level Testing
- > Cancer
- > Firearm Injuries
- > Healthcare-Associated Infections
- > Immunization Administration Data
- > Infectious Diseases
- > Influenza-Associated Mortality
- > Newborn Hearing Loss
- > Occupational Disease and Injuries
- > Sexually Transmitted Diseases, HIV Infections and AIDS
- > Toxic or Hazardous

**Section of Epidemiology**

- Home
- Conditions Reportable
- Epidemiology Bulletins
- Contact Us

**Programs**

- Environmental Public Health
- Health Impact Assessment
- HIV/STD
- Immunization
- Infectious Disease
- Injury Surveillance

**Resources**

- Confidentiality & Privacy Protection Resources
- Links
- Contact Us

# Why is reporting important?



- **Planning and evaluation of disease prevention and control programs**
- **Assists in resource allocation**
- **Assures appropriate medical therapy**
- **Detects common-source outbreaks so interventions can be applied**

# Infectious Disease and HIPAA



Pursuant to 45 CFR § 164.512(b) of the Privacy Rule, covered entities such as your organization may disclose, without individual authorization, protected health information to public health authorities " ... authorized by law to collect or receive such information for the purpose of preventing or controlling disease, injury, or disability, including, but not limited to, the reporting of disease, injury, vital events such as birth or death, and the conduct of public health surveillance, public health investigations, and public health interventions .... "

# Routine Reporting: Infectious Diseases



- More than 45 infectious diseases/infectious disease groupings are reportable by health care providers
- Disease report forms are on Section of Epi's website

The screenshot displays the website for the Alaska Department of Health and Social Services. The header includes the state logo and navigation links for 'myAlaska', 'My Government', 'Resident', 'Business in Alaska', 'Visiting Alaska', and 'State Employees'. The main navigation bar contains 'Home', 'Divisions and Agencies', 'Services', 'News', and 'Contact Us'. The breadcrumb trail indicates the current location: 'Health and Social Services > Public Health > Epidemiology'.

The main content area is divided into three columns:

- To report**
  - Public Health Emergencies call**  
(907) 269-8000 or after hours (800) 478-0084
  - Conditions Reportable to Public Health  
Updated December 2016
  - 
  - Reporting Forms
  - Report Suspected
- Spotlight**
  - Volcanic Eruptions - Health Effects  
December 23, 2016
  - Notice of Recruitment for an Infectious Disease Medical Epidemiologist  
Updated January 2017
  - Heroin and Opioid Information  
August 9, 2016
  -   
Influenza Information  
Updated February 9, 2017
- Bulletins**
  - Exposure to Carbon Monoxide at Two Facilities — Anchorage, December 2016  
February 14, 2017
  - Recommended Schedule Change for 9vHPV Vaccine  
January 24, 2017
  - Cervical Cancer Incidence, Mortality, and Screening in Alaska  
January 24, 2017
  - HIV Outbreak in a Rural Alaska Community, 2016

On the right side, there are three navigation boxes:

- Section of Epidemiology**
  - Home
  - Conditions Reportable
  - Epidemiology Bulletins
  - Contact Us
- Programs**
  - Environmental Public Health
  - Health Impact Assessment
  - HIV/STD
  - Immunization
  - Infectious Disease
  - Injury Surveillance
- Resources**
  - Confidentiality & Privacy
  - Protection Resources
  - Links

# Mandatory Reportable Diseases in Alaska

<http://dhss.alaska.gov/dph/Epi/Pages/default.aspx>

The screenshot shows the website for the Alaska Department of Health and Social Services. The header includes the state logo and navigation links like 'myAlaska', 'My Government', 'Resident', 'Business in Alaska', 'Visiting Alaska', and 'State Employees'. The main navigation bar lists 'Home', 'Divisions and Agencies', 'Services', 'News', and 'Contact Us'. The breadcrumb trail reads 'Health and Social Services > Public Health > Epidemiology'. The page content is organized into several columns:

- Left Column:** A list of links including 'To report Public Health Emergencies call (907) 269-8000 or after hours (800) 478-0084', 'Conditions Reportable to Public Health Updated December 2016' (highlighted with a red box), 'Reporting Forms', and 'Report Suspected Foodborne Illness' with a cartoon character illustration.
- Spotlight Column:** Features articles such as 'Volcanic Eruptions - Health Effects' (December 23, 2016), 'Notice of Recruitment for an Infectious Disease Medical Epidemiologist' (Updated January 2017), 'Heroin and Opioid Information' (August 9, 2016), 'Flu Info' (Influenza Information, Updated February 2, 2017), 'Marijuana Health Information' (February 24, 2015), and 'Zika Virus Information' (December 6, 2016).
- Bulletins Column:** Lists updates like 'Recommended Schedule Change for 9vHPV Vaccine' (January 24, 2017), 'Cervical Cancer Incidence, Mortality, and Screening in Alaska' (January 24, 2017), 'HIV Outbreak in a Rural Alaska Community, 2016' (January 12, 2017), 'The Epidemiology of Acute Hepatitis B Infections — Alaska, 1980–2015' (December 14, 2016), and 'Prevalence of Congenital Microcephaly — Alaska, 2007–2014' (November 21, 2016).
- Section of Epidemiology Column:** Contains sub-sections for 'Home', 'Conditions Reportable', 'Epidemiology Bulletins', 'Contact Us', 'Programs' (including Environmental Public Health, Health Impact Assessment, HIV/STD, Immunization, Infectious Disease, and Injury Surveillance), and 'Resources' (including Confidentiality & Privacy Protection Resources, Links, and Contact Us).

# Reporting to the Section of EPI



Condition	Timeframe	Acceptable report methods
<b>Public Health Emergencies</b>	<b>Immediate</b>	<b>Phone*</b>
<b>Infectious diseases</b> <ul style="list-style-type: none"> <li>• Sexually transmitted diseases or HIV</li> <li>• All other infectious diseases</li> </ul>	<b>Within 5 days</b>	<b>Phone*, Fax, Mail</b>
<b>Firearm injuries</b>	<b>Within 5 days</b>	<b>Phone*, Fax</b>
<b>Occupational disease and injury</b>	<b>Within 5 days</b>	<b>Phone, Fax</b>
<b>Blood lead levels (link p14)</b> <ul style="list-style-type: none"> <li>• &gt;5 ug/dl in persons &lt; 18 years old</li> <li>• &gt;10 ug/dl in persons ≥18 years old</li> </ul>	<b>Within 1 week</b>	<b>Phone*, Fax, Mail</b>
<b>Toxic or hazardous exposures</b>	<b>Within 1 day</b>	<b>Phone*, Fax</b>
<b>Healthcare associated infections required to be reported to federal authorities</b>	Follow NHSN practice	NHSN

# Urgent Diseases Reported to TB/ID program



## Public Health Emergencies & immediate reporting requirements

### Infectious Diseases Reportable by Health Care Providers

#### *Immediate Reporting:*

<b>Anthrax</b>	<b>Poliomyelitis</b>
<b>Botulism</b>	<b>Rabies in a human or an animal</b>
<b>Diphtheria</b>	<b>Rubella</b>
<b>Glanders</b>	<b>Severe Acute Respiratory Syndrome (SARS)</b>
<b>Hemorrhagic fever, including dengue fever</b>	<b>Smallpox</b>
<b>Influenza, suspected novel strains</b>	<b>Tetanus</b>
<b>Measles</b>	<b>Tularemia</b>
<b>Melioidosis</b>	<b>Yellow fever</b>
<b>Meningococcal invasive disease</b>	 <b>An outbreak or unusual number or clustering of diseases or other conditions of public health importance</b>
<b>Paralytic shellfish poisoning</b>	
<b>Plague</b>	

Diseases shown in bold are public health emergencies; if you suspect or diagnose a disease that represents a public health emergency, immediately call 1-907-269-8000 during business hours or 1-800-478-0084 after hours.

To report a public health emergency:

Business hours — 1-907-269-8000

After hours — 1-800-478-0084

# Contacting Epi Staff



**To report Public Health Emergencies call  
(907) 269-8000  
or after hours (800) 478-0084**



**Give us a call if you have questions... we are here to help!**



> **To report Public Health Emergencies call (907) 269-8000 or after hours (800) 478-0084**

> Conditions Reportable to Public Health  
*Updated December 2016*



> Reporting Forms

> Report Suspected Foodborne Illness



> Register Now



> Alaska Public Health Alert Network (PHAN) Archive

## Spotlight

> Volcanic Eruptions - Health Effects  
*December 23, 2016*

> Notice of Recruitment for an Infectious Disease Medical Epidemiologist  
*Updated January 2017*

> Heroin and Opioid Information  
*August 9, 2016*



> Influenza Information  
*Updated February 9, 2017*

> Marijuana Health Information  
*February 24, 2015*

> Zika Virus Information  
*December 6, 2016*

> Tuberculosis in Alaska — 2015 Annual Report  
*July 5, 2016*

> State Substance Abuse Epidemiologic Profile  
*November 07, 2013*

## Bulletins

> Exposure to Carbon Monoxide at Two Facilities — Anchorage, December 2016  
*February 14, 2017*

> Recommended Schedule Change for 9vHPV Vaccine  
*January 24, 2017*

> Cervical Cancer Incidence, Mortality, and Screening in Alaska  
*January 24, 2017*

> HIV Outbreak in a Rural Alaska Community, 2016  
*January 12, 2017*

> The Epidemiology of Acute Hepatitis B Infections — Alaska, 1980-2015  
*December 14, 2016*

> Prevalence of Congenital Microcephaly — Alaska, 2007-2014  
*November 21, 2016*

> Overview of Recent Synthetic Opioid Overdose Deaths  
*November 7, 2016*

## Section of Epidemiology

Home  
Conditions Reportable  
Epidemiology Bulletins  
Contact Us

### Programs

Environmental Public Health  
Health Impact Assessment  
HIV/STD  
Immunization  
Infectious Disease  
Injury Surveillance

### Resources

Confidentiality & Privacy Protection Resources  
Links  
Contact Us

# Non-Mandatory Reporting



## **Food Poisoning/Suspected Foodborne illness:** (unknown etiology)

- **Community members and/or providers are welcome to report**
- **Report by:**
  - **Sending email to [InfDisease@alaska.gov](mailto:InfDisease@alaska.gov)**  
- OR -
  - **Call Section of Epidemiology at (907) 269-8000**

# Part II: Resources

# <http://dhss.alaska.gov/dph/Epi/id/Pages/default.aspx>

## Health Topics A-Z

**State of Alaska** myAlaska My Government Resident Business in Alaska Visiting Alaska State Employees

Alaska Department of **Health and Social Services**

Home Divisions and Agencies Services News Contact Us

Health and Social Services > Public Health > Epidemiology > Infectious Disease

### Resources

- > 5-Year Disease Summary
- > Epi Procedure Manual

### Health Topics A - Z

- > Acute Flaccid Myelitis
- > Bed Bugs
- > Botulism
- > Campylobacter
- > Dengue
- > Ebola Virus Disease
- > Group A Streptococcus
- > Food and Waterborne Disease
- > Haemophilus influenzae
- > Hand, Foot & Mouth Disease
- > Hepatitis
- > Influenza
- > Lice
- > Listeria
- > Measles
- > Meningococcal Disease
- > MERS
- > Mumps
- > Norovirus
- > Pertussis
- > Pneumococcal Disease
- > Q Fever
- > Rabies
- > RSV
- > Salmonellosis
- > Shellfish Poisoning
- > Tetanus
- > Tuberculosis
- > Vaccine-Preventable Disease
- > Varicella (Chicken Pox)

### Infectious Disease Program

The Infectious Disease Program protects and improves the health of Alaskans by detecting and responding to outbreaks of disease, and provides education and consultation regarding the distribution and burden of infectious diseases in Alaska.

### Section of Epidemiology

- Home
- Conditions Reportable
- Epidemiology Bulletins
- Contact Us

### Programs

- Environmental Public Health
- Health Impact Assessment
- HIV/STD
- Immunization
- Infectious Disease
- Injury Surveillance

### Infectious Disease

- Home
- Food and Waterborne Diseases
- Healthcare Associated Infections
- Hepatitis Prevention
- Influenza
- Syndromic Surveillance
- Tuberculosis Control
- Vaccine-Preventable Diseases (VPD)
- Epi Procedure Manual

# Epi Procedure Manual-MMM



<http://dhss.alaska.gov/dph/Epi/Pages/pubs/mmm/default.aspx>

The screenshot shows the Alaska Department of Health and Social Services website. The header includes the state logo and navigation links for myAlaska, My Government, Resident, Business in Alaska, Visiting Alaska, and State Employees. The main navigation bar includes Home, Divisions and Agencies, Services, News, and Contact Us. The breadcrumb trail reads: Health and Social Services > Public Health > Epidemiology > Epidemiology Procedure Manual.

## Epidemiology Procedure Manual

The **Epidemiology Procedure Manual** is periodically reviewed and updated as appropriate by the **Section of Epidemiology Infectious Disease Program**. Ongoing corrections and updates are added as needed. If you print hard copies of individual chapters, please always check the on-line version for the most up-to-date information.

The original purpose of this manual, also lovingly called the "Midnight Madness Manual," was to provide standardized protocols about public health emergencies for the Section of Epidemiology (SOE) Infectious Disease Team ("Epi Team") when responding to after-hours calls. The first edition was written in 1995 by Mindy Schloss. Since then, this manual has gone through several iterations. While many in the Division of Public Health found the disease information and case management forms to be useful, the Manual remained a patchwork of documents until 2007 when it became fully electronic.

The contents of this manual are not designed as an all-inclusive procedure document. It has pertinent information and forms intended to help the user: 1) advise a health care provider on diagnosis and treatment; 2) obtain needed laboratory specimens; 3) conduct patient interviews; and 4) provide brief patient educational materials. The *Control of Communicable Diseases Manual* published by the American Public Health Association is a vital reference.

Staff using this manual should remember to report any suspected or laboratory confirmed case of reportable disease. A list of conditions reportable to public health and the associated report forms can be found at this link: <http://dhss.alaska.gov/dph/Epi/Pages/pubs/conditions/default.aspx>. Reports may be made via fax (907-561-4239) or phone (907-269-8000). Diseases designated as public health emergencies should be reported immediately via phone (907-269-8000 during business hours, 1-800-478-0084 after hours).

**Section of Epidemiology**

- Home
- Conditions Reportable
- Epidemiology Bulletins
- Contact Us

**Programs**

- Environmental Public Health
- Health Impact Assessment
- HIV/STD
- Immunization
- Infectious Disease
- Injury Surveillance

**Resources**

- Confidentiality & Privacy
- Protection Resources
- Links
- Contact Us

The screenshot shows the Alaska Department of Health and Social Services website. The header includes the state logo and navigation links for myAlaska, My Government, and R. The main navigation bar includes Home, Divisions and Agencies, Services, News, and Contact Us. The breadcrumb trail reads: Health and Social Services > Public Health > Epidemiology > Epidemiology Procedure Manual: Table of Contents.

## Table of Contents

### Epidemiology Procedure Manual – Table of Contents

- > Acute Flaccid Myelitis Chapter *(last updated 12/7/16)*
- > Arboviral Disease Chapter  *(last updated 6/1/16)*
- > Blood and Body Fluids Chapter  *(last updated 3/4/16)*
- > Botulism Chapter  *(last updated 9/2/16)*
- > Brucellosis Chapter  *(last updated 11/23/16)*
- > Diphtheria Chapter  *(last updated 3/2/15)*
- > Folliculitis Chapter  *(last updated 3/3/15)*
- > Foodborne & Waterborne Disease Information
- > Hantavirus Chapter  *(last updated 5/22/15)*
- > Hepatitis A Chapter  *(last updated 3/2/15)*
- > Hepatitis B, acute Chapter *(last updated 6/15/16)*
- > Haemophilus influenzae Chapter *(last updated 9/9/16)*
- > Influenza Chapter  *(last updated 11/25/16)*
- > Laboratory Testing Information and Forms
- > Legionellosis Chapter  *(last updated 3/17/15)*
- > Listeriosis Chapter  *(last updated 3/2/15)*

# State Public Health Lab Directory

<http://dhss.alaska.gov/dph/Labs/Pages/default.aspx>

State of Alaska myAlaska My Government Resident Business in Alaska Visiting Alaska State Employees

Alaska Department of Health and Social Services  
Division of Public Health

Home Divisions and Agencies Services News Contact Us

Health and Social Services > Public Health > State Laboratories

### Alaska State Public Health Laboratories

As of February 27, 2017, ASVL will begin to charge for respiratory viral panel (RVP) testing. Influenza PCR testing will remain free-of-charge for surveillance purposes. We hope that you will continue to support the RVP tests as this is our best tool to provide surveillance of other respiratory viruses besides influenza.

- > [Respiratory Virus Panel \(RVP\) Fee-for-Service](#)
- > [For Zika testing information please see Request Testing.](#)
- > [Submitting samples for measles testing](#)  
Updated June 2015
- > [Alaska Measles Testing Guidance](#)  
Updated 6/11/15
- > [Lab Submission Guidelines: Suspected Ebola Cases](#)  
Updated 10/14/14

### Anchorage Laboratory

Business Hours:  
8:00AM-4:30PM, Monday – Friday  
Phone: 907-334-2100  
Fax: 907-334-2161

Emergency Calls After Hours: 1-855-222-9918

Address:  
5455 Dr. Martin Luther King Jr Ave  
PO Box 196093  
Anchorage, AK 99507

*Please note: Due to Postal Service cutbacks specimen testing may be delayed 24 hours.*

### Alaska State Virology Laboratory

### Alaska State Public Health Laboratories

- State Laboratories Home
- Request Testing
- Core Functions
- Anchorage Laboratory
- Fairbanks Laboratory
- Alaska State Virology Laboratory (ASVL) Week Report
- Analytical Chemistry
- Clinical Laboratory Improvement Amendments (CLIA)
- Radiological Health
- Bioterrorism/Special Pathogens
- Test Directory and Publications
- Contact Us

**Test Directory includes lab forms and how to collect specimens**

## Request Forms

*Please note:* The Alaska State Public Health Laboratories no longer collect specimens. Specimens will be rejected as the Labs no longer provide this service.

- > [Lab Supply Request](#)
- > [Anchorage Lab Request Form](#)  
Aptima(CT/GC), TB, Syphilis, Bacteriology, Parasitology, Pertussis,
- > [Fairbanks Lab Request Form](#)  
Viral Culture, Molecular Virology, HIV, Hepatitis, Viral Serology

## Directory

- > [Important Notice: Specimen Labeling - April 24, 2014](#)
- > [Laboratory Test Directory](#)

# Helpful Resources/References

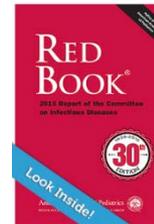


Epi has, and PHN may have too:

1. Control of Communicable Diseases Manual



2. Red Book-American Academy of Pediatrics



3. Procedures to investigate FBI.

<http://dhss.alaska.gov/dph/Epi/id/Pages/dod/foodwater/default.aspx>

4. CDC-Centers for Disease Control and Prevention

<https://www.cdc.gov/diseasesconditions/>

5. CDC Food Safety

<https://www.cdc.gov/foodsafety/index.html>



# Free Online Trainings



- **Tuberculosis**
  - Curry International Tuberculosis Center
    - [Archived Training Videos](#)
      - Fundamentals of TB Case Management
      - Nontuberculous Mycobacterial Infections
  - CDC
    - [TB Education and Training](#)
      - TB 101
      - Self Study Modules (#9)
  - American Thoracic Society
    - [Webinar Series](#)
- **Enteric Illness/Food & Water Safety**
  - [Tennessee Integrated Food Safety Centers of Excellence](#)
  - [All Integrated Food Safety Centers of Excellence](#)
- **Various (infectious disease, environmental, gen. public health)**
  - Council of State and Territorial Epidemiologists
    - [Webinar Library](#)
      - CIFOR guidelines (foodborne illness)

# Public Health Nurses & Section of Epi Staff



**Section of Epi is here to help!**

**Don't forget your colleagues and coworkers  
can be great resources as well.**

**Part III:**  
**Case Investigation Process for**  
**PHNs**

# Process for Infectious Disease Reporting



1. Reportable illness (condition) report received by Epi from
  - Provider (by fax or call)
  - AND/OR-
  - Laboratory (by fax, call, or automatic electronic report)
2. Nurse epidemiologist receives & reviews
3. Faxes case report form to public health center
4. Public Health Center receives faxed case report form and follows internal procedures for documenting
5. Case is assigned to a PHN for follow up and interview
  - All investigations are initiated within one business day of receipt of report using the disease-specific questionnaire , when available, found on the Section of Epi's webpage

# Case investigation



- 6. PHN makes contact with provider when needed**
  - Client may not know about diagnosis yet
  - Call the provider
    - Determine if client aware of diagnosis
    - If not, what is the plan
  - Request clinical notes when needed
- 7. PHN outreaches case/guardian for interview**
  - Expectation is 3 outreach attempts
    - Ideally 2 phone calls and a letter
- 8. Disease specific questionnaire is returned to Epi via fax with either:**
  - interview information
  - OR -
  - with documentation of failed outreach



# Example of a case report form received from Epi.

Case Information		
Disease/Condition	Investigation ID	Date Reported
Salmonellosis	138899337	01/13/2017

Patient Information			
First Name	Last Name	Date Of Birth	Age
FORM	DEMO	01/01/2017	12 Days
Sex	Race	Ethnicity	Occupation
Female	Black or African American	Hispanic or Latino	
Street Address	Home Phone	Work Phone	
123 MAIN ST	907-999-9999		
City	County	Zip	State
FAIRBANKS	FAIRBANKS NORTH STAR BOROU	99709	Alaska

Clinical Information			
Method of Diagnosis	Hospitalized	Chart Number	
	Unknown		
Date of Onset	Jaundiced	Name of Hospital	
Pregnant	EDC or Delivery Date	Died	Date of Death
		Unknown	

Laboratory Information 1 (from: Quest)			
Date of Collection	Specimen Source	Serogroup	Serotype
			- UNKNOWN -
Test Name 1	Test Result 1	Comments & Additional Information 1	
Culture (Salmonella Spp)	Positive		

Reporter Information			
First Name	Last Name	Reporting Facility	Phone

Provider Information			
First Name	Last Name	Facility	Phone
JOHN	SMITH	Fairbanks Memorial Hospital	907-222-2222

# Case Report Form: Identify the Organism



Case Information			
Disease/Condition	Investigation ID	Date Reported	
Salmonellosis	138899337	01/13/2017	

Patient Information			
First Name	Last Name	Date Of Birth	Age
FORM	DEMO	01/01/2017	12 Days
Sex	Race	Ethnicity	Occupation
Female	Black or African American	Hispanic or Latino	
Street Address	Home Phone	Work Phone	
123 MAIN ST	907-999-9999		
City	County	Zip	State
FAIRBANKS	FAIRBANKS NORTH STAR BOROUG	99709	Alaska

Clinical Information			
Method of Diagnosis	Hospitalized	Chart Number	
	Unknown		
Date of Onset	Jaundiced	Name of Hospital	
Pregnant	EDC or Delivery Date	Died	Date of Death
		Unknown	

Laboratory Information 1 (from: Quest)			
Date of Collection	Specimen Source	Serogroup	Serotype
			- UNKNOWN -
Test Name 1	Test Result 1	Comments & Additional Information 1	
Culture (Salmonella Spp)	Positive		

Reporter Information			
First Name	Last Name	Reporting Facility	Phone

Provider Information			
First Name	Last Name	Facility	Phone
JOHN	SMITH	Fairbanks Memorial Hospital	907-222-2222

Printed: 01/24/2017

## Salmonella!

- Test names and results vary depending on testing.
- Not all will say “positive”
- If you have questions ask

# Preparing for the interview

- Identify the tool or questionnaire you will use for the interview:  
<http://dhss.alaska.gov/dph/Epi/id/Pages/default.aspx>

- Find Salmonellosis

The screenshot shows the website for the Alaska Department of Health and Social Services. The page is titled "Infectious Disease Program" and features a navigation menu with "Home", "Divisions and Agencies", "Services", "News", and "Contact Us". The main content area includes a "Resources" section with links to a "5-Year Disease Summary" and an "Epi Procedure Manual". Below this is a "Health Topics A - Z" list where "Salmonellosis" is highlighted with a red dashed circle and a red arrow. The "Infectious Disease Program" section contains a description of the program's mission and several promotional graphics for "KNOW MORE HEPATITIS", "ZIKA", "PARALYTIC SHELLFISH POISONING", and "BOTULISM IN ALASKA". A right-hand sidebar lists various programs and surveillance activities.

# Preparing for the interview



- Select the Salmonella Questionnaire for Public Health Professionals  
<http://dhss.alaska.gov/dph/Epi/id/Pages/Salmonellosis.aspx>

## Resources for the General Public

- › Salmonella Fact Sheet

## Resources for Healthcare Providers

- › Salmonella Questionnaire for Public Health Professionals
- › Enteric Illness Investigation Policies and Procedures
- › Salmonella Bulletins from the Section of Epidemiology

The image shows a form titled "Salmonellosis (non-typhoidal) ALASKA". It includes sections for "CASE IDENTIFICATION" and "DEMOGRAPHICS". The "CASE IDENTIFICATION" section has fields for Name (LAST, first, initials), Address (street, city, zip), email, and Phone(s) (home, work, cell, message). It also has checkboxes for "ALTERNATIVE CONTACT" (Parent, Spouse, Friend) and "SOURCES OF REPORT" (ELR, Lab, ICP, Physician). The "DEMOGRAPHICS" section has checkboxes for SEX (female, male) and RACE (check all that apply). There is also a "FOR STATE USE ONLY" section with checkboxes for "confirmed", "presumptive", "suspect", and "no case", and a "Date of first report" field.

- Brush up on disease, be prepared to provide education/answer questions

**Alaska Division of Public Health**  
*Prevention Promotion Protection*

**Salmonellosis Fact Sheet**

**What is Salmonellosis?**  
Salmonellosis is an infection of the intestines caused by bacteria called *Salmonella*.

**How is Salmonellosis spread?**  
*Salmonella* bacteria leave the body in the stool. Persons infected with *Salmonella* can pass the bacteria to others if they do not wash their hands well after using the bathroom. A person can become infected with *Salmonella* by:

- Eating food or drinking water or milk that has been contaminated with *Salmonella* bacteria.
- Touching infected animals and then eating or touching the mouth without washing hands

# Interview with your client



- **Use critical thinking skills**
- **Conduct the interview (interview tool as guide)**
  - **Use open ended questions**
  - **have a conversation**
  - **identify areas for expansion**
  - **Utilize the same motivational interviewing techniques that are recommended for other services (e.g. STIs, Vaccines, Contraception, etc.)**
- **Documentation may vary by each Public Health Center**
- **Documentation for Epi is the interview form**

# Items of Epidemiological Importance



- **Verify the diagnosis**
- **Determine if this is a public health emergent/urgent illness that requires immediate action**  
(example: measles, meningococcal disease)
- **Evaluate the extent of illness**
- **Implement prevention and control measures**  
(example: isolation until no longer infectious)
- **Identify special circumstance**  
(example: hospital, day care or school setting)

# Knowledge Check



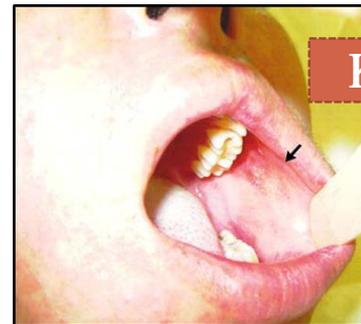
## Case Study



## VPD Example

Call to Public Health Nurse from Epi.

- **Dr. House called to report an 8 month old male with fever (102.6 F), cough, observed clustered/white lesions on the buccal mucosa and teething for the past 2 days. Family just returned from trip to Africa. Patient is not UTD on vaccinations.**
- **Diagnosis : “Koplik spots, illness suspicious for measles”**



Koplik spot

# VPD Case Investigation



- **Epi Nurse informs PHN:**
  - Requested physician obtain a nasopharyngeal swab for measles PCR via state lab
  - Home isolation for case, until 4 days after rash
  - Assessing pediatric office for exposures

# Knowledge Check



What would your next  
steps be?

# Public Health Nurse



## PHN follow-up

- **Brush up on measles using one of your many resources!**
  - **From MMM you know:**
    - **ISOLATE:**
      - **Case for 4 days after onset of rash**
      - **Susceptible contacts days 5-21 post-exposure**
    - **INTERVIEW**
      - **Interview the client's guardian using the form (found in the manual)**
    - **VACCINATE**
    - **REFER**
      - **Exposed immunocompromised and pregnant women to their healthcare provider(s)**

# Public Health Nurse Responsibilities



1. **Attempt to determine the source of infection**
  - **The source may facilitate further disease transmission!**
2. **Ensure that proper testing has been performed**
3. **Ensure treatment has been initiated**
4. **Provide education:**
  - **Reinforce self-isolation**
5. **Identify contacts who may also have similar symptoms**
  - **Get their names and contact info**
6. **Identify whether high risk settings exist for disease transmission**

# Part IV: Outbreaks

# Outbreak and Clusters



## Outbreak

“Disease occurrence among a population that is in excess of what is expected in a given time and place.”

## Cluster

“Group of cases in a specific time and place that might be more than expected.”

# Identifying Outbreaks & Clusters



- **Important to complete interview forms for individual cases**
  - **If there is a “yes” answer on an interview form question, ascertain and record the details**
- **We may not uncover an outbreak until after initial interviews have been conducted**
- **Follow-up interviews**

# Identifying Outbreaks & Clusters



- PHNs are the eyes and ears of their community and can identify increasing GI complaints, etc.
- The outbreak may not be for a reportable illness (example: norovirus)
- Laboratory information can assist
  - If appropriate, recommend specimen collection
- Notification from community or agency (assisted living, call in complaints)

# Questions



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