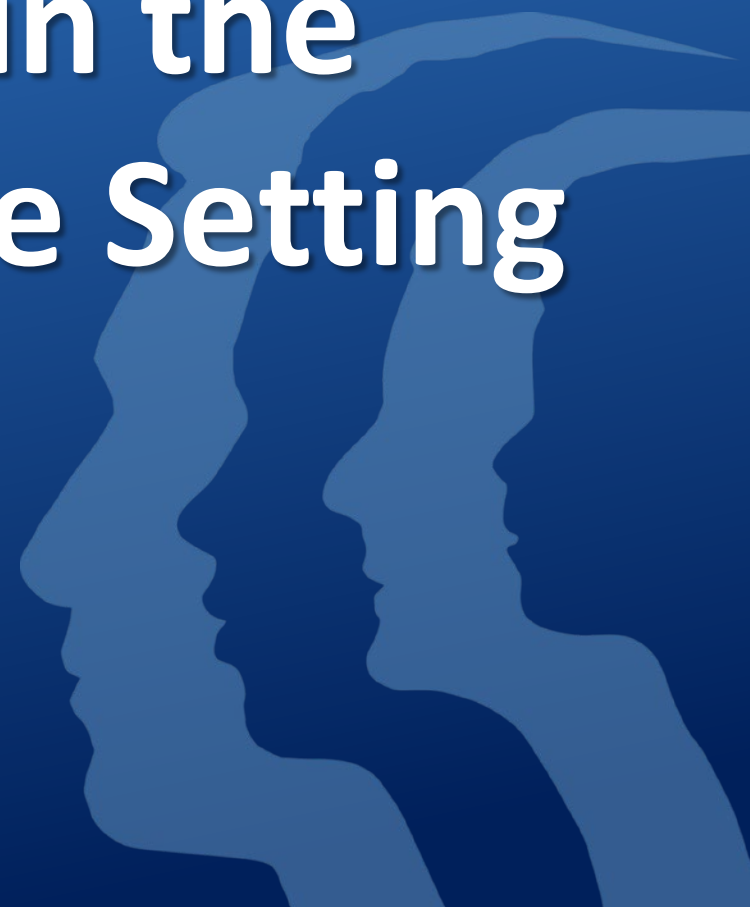




# Reporting and Managing Outbreaks in the Long Term Care Setting

**TIFFANY ELIZALDE RN, BSN**  
DISTRICT PUBLIC HEALTH NURSE  
MONROVIA HEALTH CENTER  
SERVICE PLANNING AREA 3



# LAC FACTS

- Covers 4300 square miles
- Over 10 million residents
- 99 acute care hospitals
- Over 350 sub-acute/long-term care facilities





# Outbreak Management Components

## Communication

- Core Team
- Department of Public Health

## Investigation & Monitoring

- Specimen Collection
- Treatment/Prophylaxis

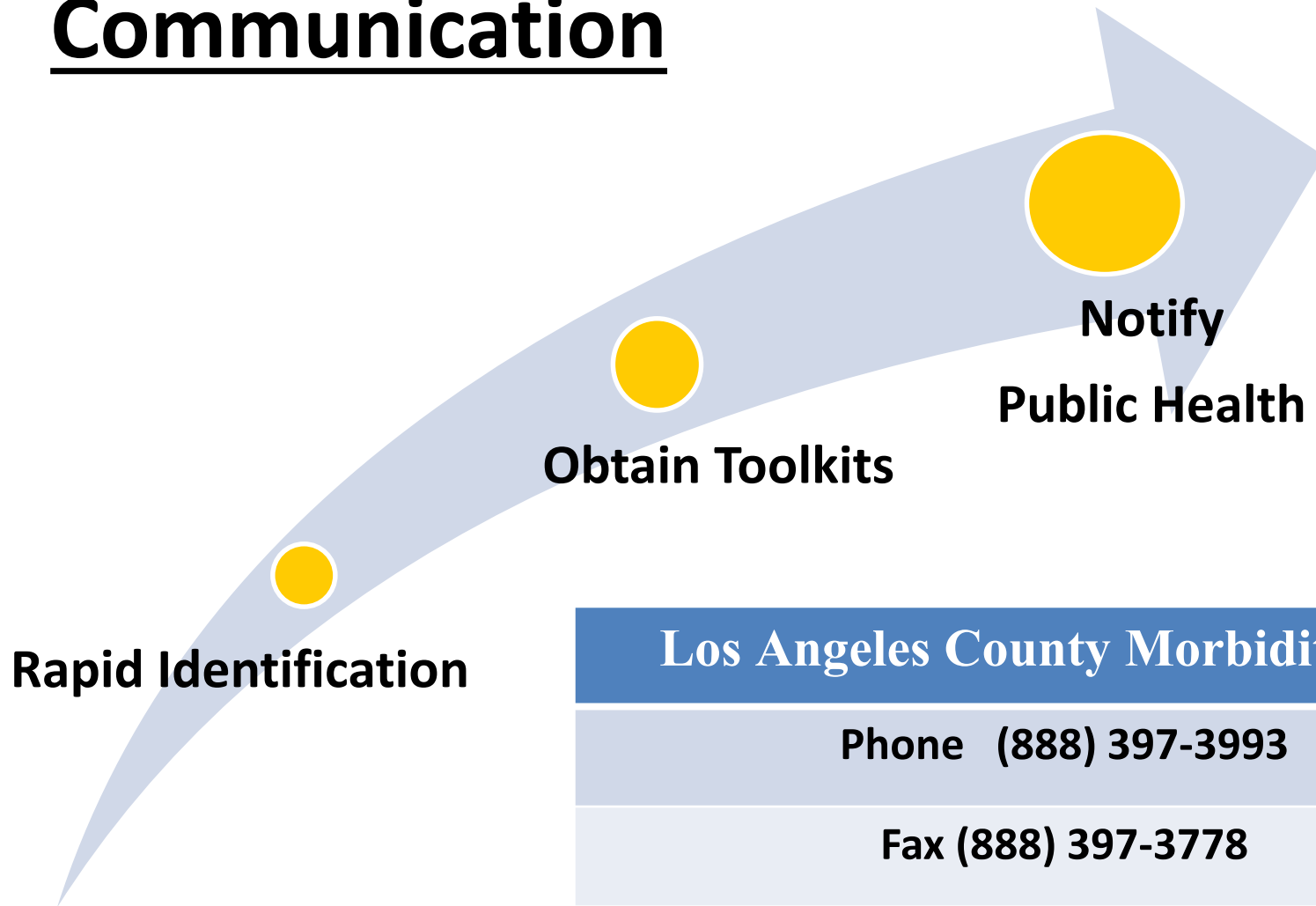
## Infection Control

- Environmental Control
- Personal Protective Equipment

## Education

- Toolkits

## Communication



### Los Angeles County Morbidity Unit

Phone (888) 397-3993

Fax (888) 397-3778

After hours: (213) 974-1234



# CALIFORNIA HEALTH REGULATIONS

- California Code of Regulations (CCR)
  - Title 17
    - Public Health
      - ❖ **Reportable Diseases & Conditions, §2500**
  - Title 22, Social Security
    - GACH, Acute Psych, SNF, Intermediate Care, etc.
      - ❖ **Reporting, §70737**
- California Health & Safety Code

# What Is Reportable?



(Revised 10/10/16)



County of Los Angeles • Department of Public Health



Please Post

## REPORTABLE DISEASES AND CONDITIONS

Title 17, California Code of Regulations (CCR), § 2500

It is the duty of every health care provider, knowing of or in attendance on a case or suspected case of any diseases or conditions listed below, to report to the local health officer for the jurisdiction where the patient resides. "Health care provider" encompasses physicians (surgeons, osteopaths, oriental medicine practitioners), veterinarians, podiatrists, physician assistants, registered nurses (nurse practitioners, nurse midwives, school nurses), infection control professionals, medical examiners/forensic, dentists, and chiropractors, as well as any other person with knowledge of a case or suspected case.

**Note:** This list is specific to Los Angeles County and differs from state and federal reporting requirements.\*

For laboratory reporting: [www.publichealth.lacounty.gov/lab/index.htm](http://www.publichealth.lacounty.gov/lab/index.htm) For veterinary reporting: [www.publichealth.lacounty.gov/vet/index.htm](http://www.publichealth.lacounty.gov/vet/index.htm)

### Urgency Reporting Requirements

**☒** = Report **immediately** by telephone **●** = Report by telephone **within 1** working day

**☒** = Report by electronic transmission (including FAX), telephone or mail **within 1** working day from identification

**○** = Report by electronic transmission (including FAX), telephone or mail **within 7** calendar days from identification

### REPORTABLE DISEASES

- |  |  |   |
|--|--|---|
| ☒ Amebiasis  | ☒ Hantavirus Infection   | ○ Rocky Mountain Spotted Fever  |
| ○ Anaplasmosis   | ☒ Hemolytic Uremic Syndrome  | ○ Rubella (German Measles)  |
| ☒ Anthrax, human or animal +   | ○ Hepatitis A, acute infection   | ○ Rubella Syndrome, Congenital  |
| ☒ Babesiosis   | ○ Hepatitis B, specify acute or chronic  | ☒ Salmonellosis, other than Typhoid Fever +   |
| ☒ Botulism: infant, foodborne, or wound  | ○ Hepatitis C, specify acute or chronic  | ☒ Scabies, atypical or crusted *  |
| ○ Brucellosis, animal; except infections due to <i>Brucella canis</i> +  | ○ Hepatitis D (DcHA), specify acute or chronic   | ☒ Scombroid Fish Poisoning  |
| ○ Brucellosis, human +   | ○ Hepatitis E, acute infection   | ☒ Shiga Toxin, detected in feces  |
| ○ Campylobacteriosis   | ○ Human Immunodeficiency Virus (HIV) infection, stage 3 (AIDS) ■ (§2641.30-2643.20)                    | ☒ Shigellosis   |
| ○ Chancreid ■  | ○ Human Immunodeficiency Virus (HIV), acute infection ■ (§2641.30-2643.20)                             | ☒ Smallpox (Variola)  |
| ☒ Chick-enpox (Varicella), only hospitalizations, deaths, and outbreaks (≥3 cases, or one case in a high-risk setting) | ○ Influenza deaths, laboratory confirmed cases only, <u>all ages</u> *                                 | ☒ Streptococcal Infection, outbreaks any type   |
| ○ Chikungunya Virus Infection  | ○ Influenza, novel strains, human  | ☒ Streptococcal Infection, individual case in a food handler or dairy worker  |
| ○ <i>Chlamydia trachomatis</i> Infection, including lymphogranuloma venereum (LGV) ■                                   | ○ Legionellosis  | ☒ Streptococcal Infection, Invasive Group A, including Streptococcal Toxic Shock Syndrome and Necrotizing Fasciitis; do <u>not</u> report individual cases of pharyngitis or scarlet fever. * |
| ☒ Cholera +  | ○ Leprosy (Hansen's Disease)   | ○ <i>Streptococcus pneumoniae</i> , invasive *  |
| ☒ Ciguatera Fish Poisoning   | ○ Leptospirosis +  | ☒ Syphilis ■  |
| ○ Coccidioidomycosis   | ○ Lyme Disease   | ○ Tetanus   |
| ○ Creutzfeldt-Jakob Disease (CJD) and other Transmissible Spongiform Encephalopathies (TSE)                            | ○ Malaria +  | ○ Trichinosis   |
| ☒ Cryptosporidiosis  | ☒ Measles (Rubeola)  | ○ Tuberculosis + ■  |
| ○ Cyclosporiasis   | ○ Meningitis, specify etiology: viral, bacterial, fungal, or parasitic                                 | ○ Tularemia, animal   |
| ○ Cysticercosis or Taeniasis   | ○ Meningococcal Infection  | ☒ Tularemia, human +  |
| ○ Dengue Virus Infection   | ○ Mumps  | ☒ Typhoid Fever, cases and carriers +   |
| ☒ Diphtheria +   | ○ Myelitis, acute flaccid *  | ☒ <i>Urbio</i> Infection +  |
| ☒ Domoic Acid (Amnesic Shellfish) Poisoning  | ○ Novel virus infection with pandemic potential  | ☒ Viral Hemorrhagic Fevers, human or animal (e.g., Crimean-Congo, Ebola, Lassa and Marburg viruses)   |
| ○ Echiniosis   | ☒ Paralytic Shellfish Poisoning  | ○ West Nile Virus (WNV) Infection   |
| ☒ Encephalitis, specify etiology: viral, bacterial, fungal or parasitic  | ○ Pertussis (Whooping Cough)   | ○ Yellow Fever  |
| ☒ <i>Escherichia coli</i> , shiga toxin producing (STEC) including <i>E. coli</i> O157 +                               | ☒ Plague, human or animal +  | ○ Yersiniosis   |
| ☒ Flavivirus: infection of undetermined species  | ○ Poliovirus Infection   | ☒ Zika Virus Infection  |
| ☒ Foodborne Disease  | ○ Psittacosis  |   |
| ☒ Foodborne Outbreak; 2 or more suspected cases from separate households with same assumed source                      | ○ Q Fever  | ○ OCCURRENCE OF ANY UNUSUAL DISEASE   |
| ○ Giardiasis   | ○ Rabies, human or animal  |   |
| ○ Gonococcal Infection ■   | ○ Relapsing Fever  |   |
| ☒ <i>Haemophilus influenzae</i> , invasive disease only, all serotypes, less than 5 years of age                       | ○ Respiratory Syncytial Virus, only deaths and less than 5 years only                                  | ☒ OUTBREAKS OF ANY DISEASE, including diseases not listed above. Specify if occurring in an institution and/or the open community.  |
|  | ○ Ricketttsial Diseases (non-Rocky Mountain Spotted Fever), including Typhus and Typhus-like illnesses |   |

### Reportable Non-Communicable Diseases or Conditions

- |   |   |   |
|---|---|---|
| ○ Alzheimer's Disease and Related Conditions (CCR § 2802, § 2806, § 2810) | ○ Disorders Characterized by Lapses of Consciousness (CCR § 2806, § 2810) | ☒ Pesticide-Related Illnesses (Health and Safety Code § 105200) |
|---|---|---|

\* Reportable to the Los Angeles County Department of Public Health.  
+ Bacterial isolates and malarial slides must be forwarded to Los Angeles County Public Health Laboratory for confirmation. Health care providers must still report all such cases separately. Public Health Laboratory (652) 852-1300  
■ For questions regarding the reporting of HIV/AIDS, STDs or TB, contact the respective program:

#### Division of HIV and STD Programs

HIV reporting (213) 361-8516 STD reporting (213) 744-3106

#### TB Control Program

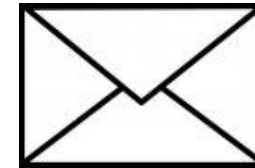
(213) 746-0800  
[www.publichealth.lacounty.gov/tb/ReportCases.htm](http://www.publichealth.lacounty.gov/tb/ReportCases.htm)

To report a case or outbreak of any disease, contact the Communicable Disease Reporting System  
Tel: (888) 397-3993 • Fax: (888) 397-3778  
[www.publichealth.lacounty.gov/acd/Cdrs.htm](http://www.publichealth.lacounty.gov/acd/Cdrs.htm)

- Over 88 communicable diseases, conditions, syndromes
- Unusual diseases
- Emerging diseases
- Outbreaks of any disease

# Urgency Reporting Requirements

- Report immediately by phone
  - Meningococcal infection
  - Outbreaks of any disease
- Report within 1 working day
  - Scabies, atypical or crusted
- Report within 7 calendar days
  - Legionellosis





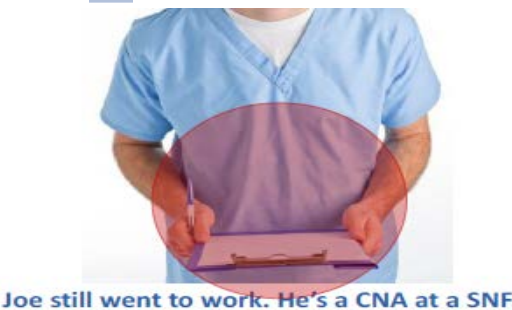
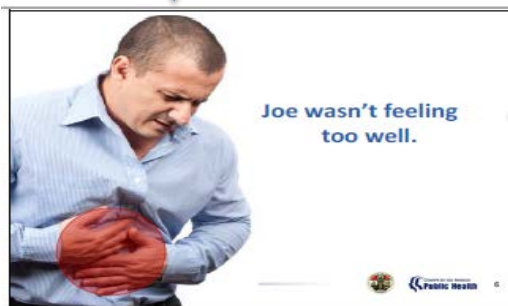
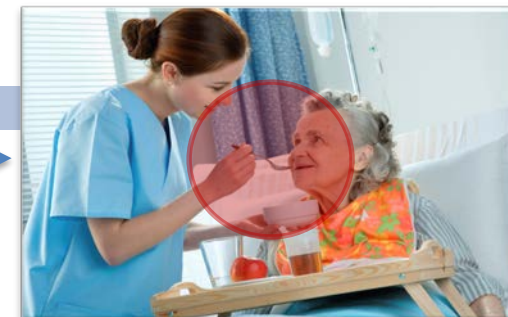
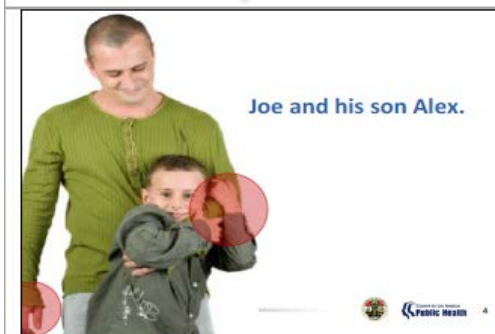


# Why Report?

- Required by law
- Determine extent of morbidity
- Evaluate risk of transmission
- Implement rapid interventions
  - Protect public/healthcare workers



# Case File: Joe's Story



## Investigation & Monitoring

- ✓ Assess employees and initiate line list
- ✓ Assess residents and initiate line list
- ✓ Cohort residents and staff
- ✓ Collect samples for identification
- ✓ Treat employees/residents prophylactically
- ✓ Close facility to new admissions if indicated
- ✓ Notify transferring location
- ✓ Daily assessments
- ✓ Communicate with District Public Health Nurse until case is closed



# Outbreak Management



- ✓ Implement recommended control measures
- ✓ Place in appropriate precaution / isolation
- ✓ Enhance environmental cleaning
- ✓ Provide personal protective equipment (PPE)
- ✓ Dispose of PPE appropriately
- ✓ Reinforce hand washing / covering coughs
- ✓ Cease all social activities
- ✓ Close dining hall
- ✓ Continue to monitor employees and residents on a daily basis for new cases
- ✓ Update Public Health Nurse





## Education

- ✓ **Obtain Toolkits on Acute Communicable Disease Control Website for guidance and materials**
- ✓ Provide training to all staff
- ✓ Provide hand written material
- ✓ Provide in several languages
- ✓ Reinforce signs/symptoms to report
- ✓ Inform staff of updates
- ✓ Stress transmission to home or other jobs
- ✓ District Public Health Nurse can assist



<http://publichealth.lacounty.gov/acd>

Accessing  
Flu / Scabies / Norovirus  
Toolkits



# Accessing Toolkits



Click on “Diseases & Conditions” link on ACDC home page

Translate A-Z Index A B C D E F G H I J K L M N O P Q R S T U V W X Y Z ALL Font Size | A A A

COUNTY OF LOS ANGELES Public Health

Acute Communicable Disease Control

Home About FAQ Comment Contact Us A-Z Index

< Report a disease or outbreak. >



Acute Communicable Disease Control

- ACDC Main Page
- Diseases & Conditions**
- Guidelines/Manuals
- Reporting a Disease
- Materials
- Los Angeles Health Alert Network (LAHAN)
- Skilled Nursing Facilities

Acute Communicable Disease Control

Los Angeles County Department of Public Health  
Basics of Infection Prevention — 2 Day Mini Course  
May 14–15, 2018  
**DETAILS HERE**

Influenza (Flu)

Hepatitis A

# Accessing Toolkits



Have questions about things like where to go for vaccinations or other health care services?

Call 2-1-1.

## Adobe Reader



Note: PDF documents on this site were created using Adobe Acrobat 5.0 or later. If you are using an earlier version of Adobe Acrobat Reader (4.x or less), document functionality may be reduced.

- [Hospital Outreach and Infections](#) \*
- [Immunization Program](#) (now called Vaccine Preventable Disease Control Program) \*
- [Influenza \(Seasonal Pandemic, Avian & Swine Flu\)](#)
- [Influenza Surveillance](#)
- [Kawasaki Syndrome](#)
- [Klebsiella pneumoniae, carbapenem-resistant \(CRKP\)](#)
- [Legionellosis - Legionnaire's Disease / Pontiac Fever](#)
- [Leprosy \(Hansen Disease\)](#)
- [Leptospirosis](#)
- [Lice](#)
- [Listeriosis, Nonperinatal](#)
- [Listeriosis, Perinatal](#)
- [Lyme Disease](#)
- [Malaria](#)
- [Measles \(Rubeola\)](#) (Immunization Program)
- [Meningitis and Meningococcal Disease](#)
- [Methicillin-Resistant Staphylococcus Aureus \(Community-Associated MRSA\)](#)
- [Middle East Respiratory Syndrome \(MERS\)](#)
- [Mumps](#) (Immunization Program)
- [Murine \(Endemic\) Typhus](#)
- [Norovirus](#)
- [Pandemic H1N1 \(Swine Flu\)](#)
- [Pertussis \(Whooping Cough\)](#) (Immunization Program)
- [Plague](#)
- [Pneumococcal Disease \(Streptococcus Pneumoniae - Invasive\)](#)
- [Pontiac Fever \(Legionellosis\)](#)
- [Psittacosis](#)
- [Q-Fever](#)
- [Rabbit Fever \(Tularemia\)](#)
- [Rabies](#)
- [Regional Antibiogram](#)
- [Relapsing Fever](#)
- [Reye Syndrome](#)
- [Rheumatic Fever, Acute](#)
- [Rocky Mountain Spotted Fever and Spotted Fever Group Ricksettsia](#)
- [Rubella \(German or 3-Day Measles\)](#) (Immunization Program)
- [Salmonellosis](#)
- [Salmonellosis and Reptiles](#)
- [SARS \(Severe Acute Respiratory Syndrome\)](#)
- [Scabies](#)



Scroll to find disease

In this example we click on "Norovirus" link





## Click on Toolkit link

The screenshot shows the website interface for the County of Los Angeles Public Health. At the top, there are browser tabs and navigation links. Below that is a search bar and social media icons. The main navigation bar includes 'Home', 'About', 'FAQ', 'Comment', 'Contact Us', and 'A-Z Index'. On the left, there is a sidebar menu for 'Acute Communicable Disease Control' with options like 'ACDC Main Page', 'Diseases & Conditions', and 'Public Health Resources'. The main content area is titled 'Acute Communicable Disease Control' and 'Gastrointestinal Illnesses - Noroviruses'. It lists several resources, with the 'Norovirus Outbreak Prevention Toolkit: A Guide for Preventing Norovirus Outbreaks in Skilled Nursing Facilities' link highlighted by a red box and a red arrow. To the right, there are three large buttons: 'Report Foodborne Illness' (green), 'Report a Disease' (blue), and 'Report a Problem' (orange).

# Another way to access toolkits



## Report a disease or outbreak.



- Acute Communicable Disease Control
- ACDC Main Page
- Diseases & Conditions
  - Guidelines/Manuals
  - Reporting a Disease
  - Materials
  - Los Angeles Health Alert Network (LAHAM)
  - Skilled Nursing Facilities**
  - Public Health Resources
- Info for the Public (FAQ's)

Communicable Disease Control

### Valley Fever Symposium

May 12, 2018 9am-3pm  
Kaiser Permanente Antelope Valley  
4 AMA PRA Category 1 Credit™

ACDC Annual Morbidity Report and Special Studies - 2016  
ACDC Special Studies Report - 2016

- Influenza (Flu)
- Hepatitis A

Click on “Skilled Nursing Facilities” link on ACDC home page

-OR-

Go to <http://publichealth.lacounty.gov/acd/SNF.htm>

# Another way to access toolkits



Translate

A-Z Index

[A](#) [B](#) [C](#) [D](#) [E](#) [F](#) [G](#) [H](#) [I](#) [J](#) [K](#) [L](#) [M](#) [N](#) [O](#) [P](#) [Q](#) [R](#) [S](#) [T](#) [U](#) [V](#) [W](#) [X](#) [Y](#) [Z](#) [ALL](#)

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**Acute Communicable Disease Control**

Home

About

FAQ

Comment

Contact Us

A-Z Index

## Acute Communicable Disease Control

[ACDC Main Page](#)

[Diseases & Conditions](#)

[Guidelines/Manuals](#)

[Reporting a Disease](#)

[Materials](#)

[Los Angeles Health Alert Network \(LAHAN\)](#)

[Skilled Nursing Facilities](#)

[Public Health Resources](#)

[Info for the Public \(FAQ's\)](#)

[Report a Problem](#)

[Health Advisories](#)

[Health Ed Materials](#)

[Reports, Publications & Presentations](#)

[Frequently Used Links](#)

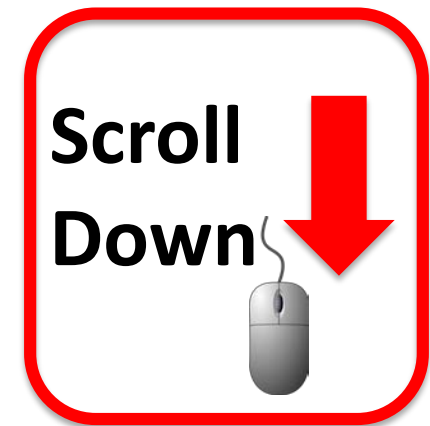
## Acute Communicable Disease Control

### Skilled Nursing Facilities: Infection Prevention Resources and Guidance

Your central guide to education and events relevant to improving infection prevention at your facility.



**Los Angeles County Department of Public Health**  
**Basics of Infection Prevention — 2 Day Mini Course**  
**May 14–15, 2018**  
**DETAILS HERE**



[LA County Influenza Guidance for Long-Term Care Facilities During Elevated Levels of Influenza Activity \(1-19-18\)](#)

[Special Report: 2016 SNF Symposium Summary](#)

### Infection Control and Prevention in Skilled Nursing Facilities Symposium 2017

#### Presentation Archive:

- Prevention, Management, and Reporting of Carbapenem-Resistant Enterobacteriaceae

# Another way to access toolkits



<b>Acute Communicable Disease Control (ACDC)</b>	
<u>Frequently Used Links</u>	Links to other LAC DPH programs, journals, organizations and data.
Influenza: - <a href="#">General Information</a> - <a href="#">LAC DPH Surveillance</a> - <a href="#">Influenza Watch</a> - <a href="#">Outbreak Prevention for SNFs</a> - <a href="#">Flu Health Education Materials</a> - <a href="#">Flu Vaccination</a>	Information on influenza including resources and guidance for outbreak mitigation and prevention. Influenza Watch is a free electronic newsletter summarizing influenza activity in LAC and published during influenza season.
LAC DPH Health Officer Order: Influenza Vaccination and Masking for for Healthcare Workers - <a href="#">Informational Webpage</a> - <a href="#">SNF Toolkit</a>	Resources explaining the mandate and supporting influenza vaccination for healthcare personnel.
Norovirus - <a href="#">General Information</a> - <a href="#">Outbreak Prevention Toolkit</a>	Norovirus information and resources; how-to-guide for norovirus outbreak prevention and control in SNFs.
Scabies - <a href="#">General Information</a> - <a href="#">Toolkit for Acute and Long-term Care Facilities</a>	Scabies information and resources; how-to-guide for scabies outbreak prevention and control in medical settings.
LAC DPH Disease Guidelines and Recommendations - <a href="#">Listing</a> - <a href="#">Regulations for Communicable Disease Reporting (B82)</a> - <a href="#">Communicable Disease Manual (B73)</a>	Provides guidance for admissions and infection control in healthcare settings; Provides information on communicable diseases including legal requirements, procedures and investigation forms.
<a href="#">Health Education Materials</a>	Health education materials including flyers and posters.





# Influenza Line List



**\*Do we list Symptomatic and Asymptomatic Staff/Residents? YES**



Acute Communicable Disease Control Program  
313 N. Figueroa St., Rm 212, Los Angeles, CA 90012  
213-240-7941 (phone) 213-482-4856 (fax)  
www.publichealth.lacounty.gov

## Influenza and ILI Outbreak Line List for Healthcare Facilities

### STAFF

Facility Name: \_\_\_\_\_

Contact Person/Phone No.: \_\_\_\_\_

Outbreak Number : \_\_\_\_\_ Date : \_\_\_\_\_

Total Number of Staff at time of outbreak: \_\_\_\_\_

Staff Information			Staff Duties			Vaccination status	Illness Description						Diagnostics				Outcome								
Staff Name	Date of birth or Age	Sex (M/F)	Unit/Ward Assigned to	Direct Resident Contact? (Y/N), if yes, job title	Work at multiple sites? (Y/N)	Influenza vaccination (Y/N), if yes, date of vaccination	Date of illness onset	Fever (Y/N) or highest temperature ("F")*	Cough (Y/N)	Myalgia/Body Aches (Y/N)	Chills (Y/N)	Sore throat (Y/N)	Shortness of breath (Y/N)	Other (Y/N)	Chest X-ray confirmed pneumonia (Y/N)	Doctor visit (Y/N)	Specimen collected (Y/N)	Specimen Type (NP, Sputum, Other)	Diagnosis/Lab Result	Antivirals (Y/N), Date started/Date ended	Antibiotics (Y/N), Date started/Date ended	Final Diagnosis Influenza/Pneumonia/Other	Hospitalized (Y/N)	Died (Y/N, if yes, date)	



Acute Communicable Disease Control Program  
313 N. Figueroa St., Rm 212, Los Angeles, CA 90012  
213-240-7941 (phone) 213-482-4856 (fax)  
www.publichealth.lacounty.gov

## Influenza and ILI Outbreak Line List for Healthcare Facilities

### RESIDENTS

Facility Name: \_\_\_\_\_

Contact Person/Phone No.: \_\_\_\_\_

Outbreak Number : \_\_\_\_\_ Date : \_\_\_\_\_

Total Number of Residents at time of outbreak: \_\_\_\_\_

Resident Information			Resident Location		Vaccination status		Illness Description						Diagnostics				Outcome									
Resident Name	Date of birth or Age	Sex (M/F)	Room #	Unit/Ward	Influenza (Y/N), if yes, provide date	Pneumococcal (Y/N), if yes, provide date	Date of illness onset	Fever (Y/N) or highest temperature ("F")*	Cough (Y/N)	Myalgia/Body Aches (Y/N)	Chills (Y/N)	Sore throat (Y/N)	Shortness of breath (Y/N)	Other (Y/N)	Chest X-ray confirmed pneumonia (Y/N)	Doctor visit (Y/N)	Specimen collected (Y/N)	Specimen Type (NP, Sputum, Other)	Diagnosis/Lab Result	Antivirals (Y/N), Date started/Date ended	Antibiotics (Y/N), Date started/Date ended	Final Diagnosis Influenza/Pneumonia/Other	Hospitalized (Y/N)	Died (Y/N, if yes, date)		
1.																										
2.																										



# When is it Over?

- When transmission no longer occurs
  - No additional cases are identified
  - All requested documents are received
- Routine investigation
  - Closure email
- Complex investigation
  - Closure letter
    - » Investigation summary
    - » Final recommendations





*Thank You*

**Tiffany Elizalde, R.N., B.S.N.  
Public Health Nurse**

**Monrovia Health Center  
Service Planning Area 3  
Foothill District**

