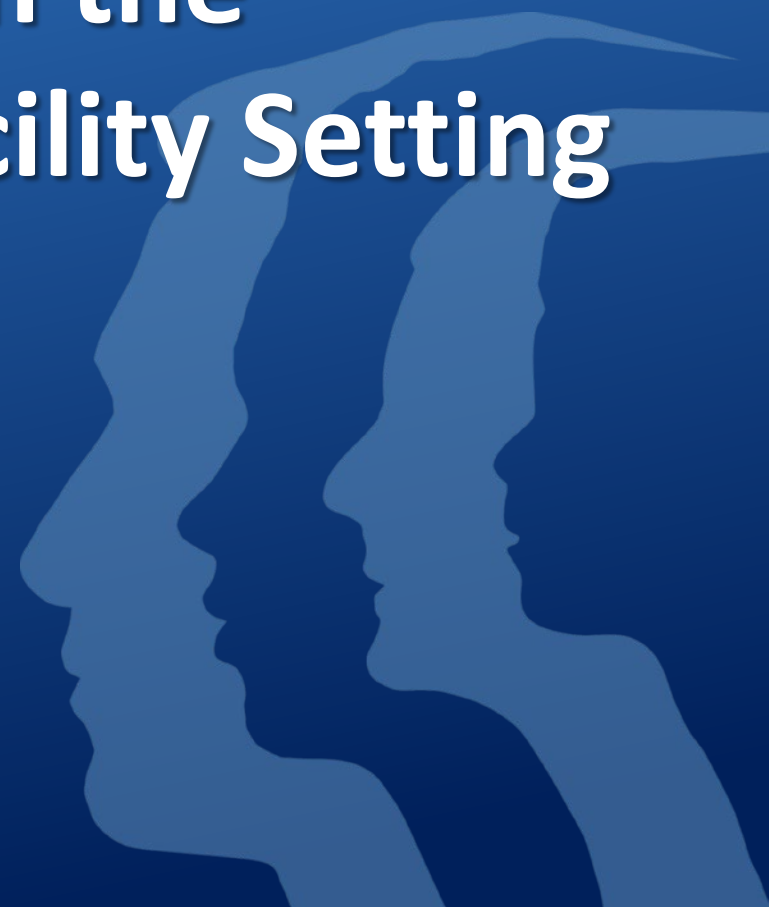




Reporting and Managing Outbreaks in the Long Term Care Facility Setting



LAC FACTS

- Covers 4300 square miles
- Over 10 million residents
- 99 acute care hospitals
- Over 320 sub-acute/long-term care facilities





Outbreak Management Components

Communication – Core Team & Dept. of Public Health

Investigation & Monitoring

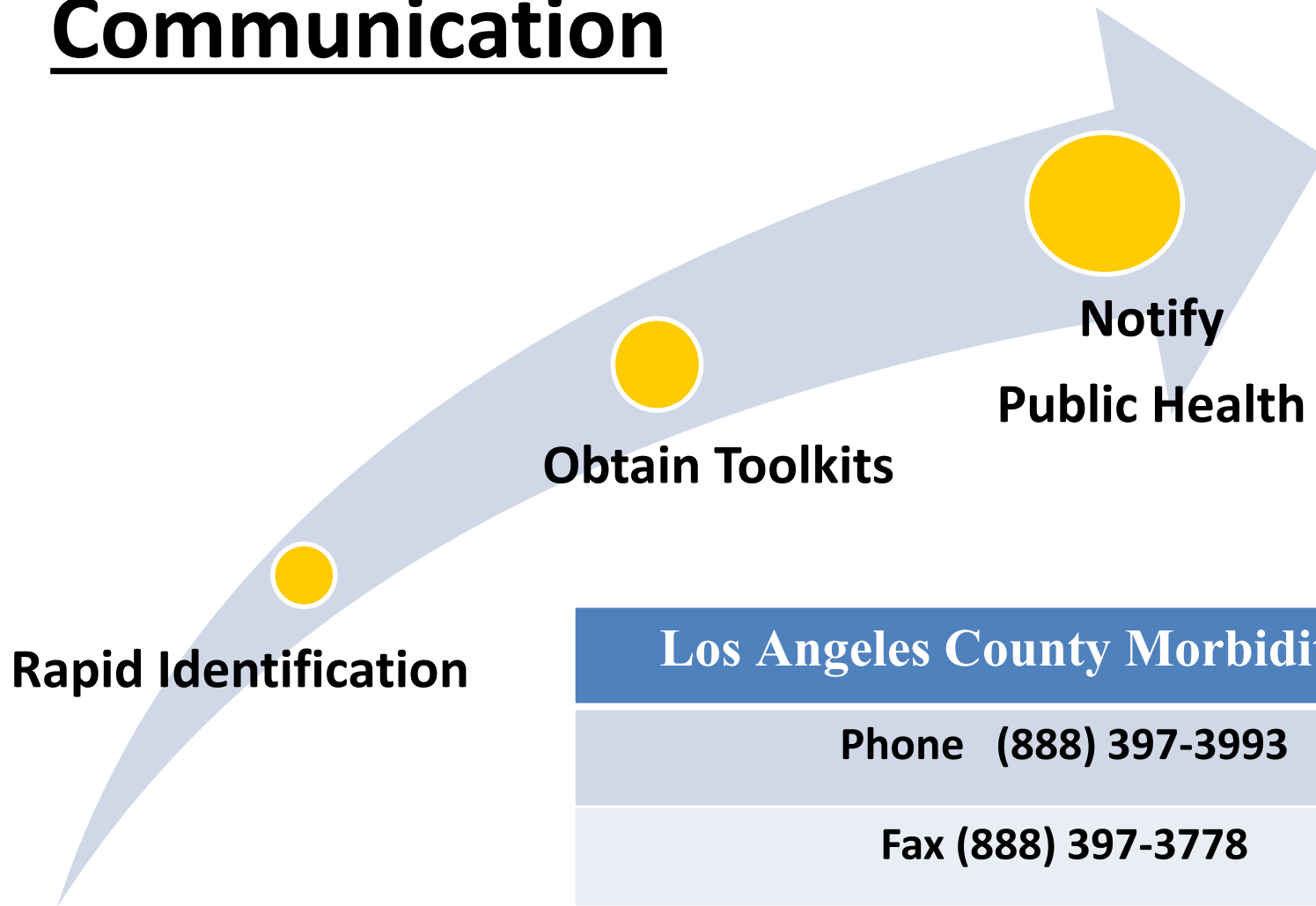
Specimen Collection

Treatment/Prophylaxis, if needed

Infection Control – HH, Precautions, Environmental Cleaning

Education

Communication



Los Angeles County Morbidity Unit

Phone (888) 397-3993

Fax (888) 397-3778

After hours: (213) 974-1234

What Is Reportable?



Please Post
Revised January 2019.



REPORTABLE DISEASES AND CONDITIONS

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

It is the duty of every health care provider, knowing or in attendance on a case or suspected case of any of the 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/coroners, 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 *

- ☑ Report **immediately** by telephone (for both confirmed and suspected cases)
- ☑ Report by telephone **within 1 working day** from identification
- ☑ 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
- ★ Mandated by and reportable to the Los Angeles County Department of Public Health
- ± Report electronically via the **National Healthcare Safety Network** (<https://www.cdc.gov/nhsn/index.html>) if enrolled. If not enrolled, use the LAC DPH CRE Case Report Form (<http://publichealth.lacounty.gov/aod/Diseases/EpiForms/CRERepSNF.pdf>)
- For TB reporting questions: contact the TB Control Program (213) 745-0800 or visit www.publichealth.lacounty.gov/tbhealthpro.htm
- For HIV/STD reporting questions: contact the Division of HIV and STD Programs. HIV (213) 351-8516, STDs (213) 368-7441 www.publichealth.lacounty.gov/dhsp/ReportCase.htm

For laboratory reporting: www.publichealth.lacounty.gov/lab/index.htm For veterinary reporting: www.publichealth.lacounty.gov/vet/index.htm

REPORTABLE COMMUNICABLE DISEASES

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

REPORTABLE NON-COMMUNICABLE DISEASES OR CONDITIONS

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

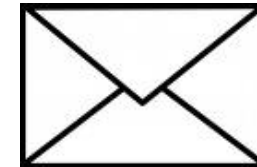
To report a case or outbreak of any disease, contact the Communicable Disease Reporting System
Tel: (888) 397-3993 • Fax: (888) 397-3778 or (213) 482-5508

Health Professionals Reporting Webpage: www.publichealth.lacounty.gov/clinicians/report

- Latest Revision Jan. 2019
- 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
 - Occurrence of any unusual disease
- 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



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

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



Specimen Collection

- **Influenza**
 - A nasopharyngeal (NP) swab is the optimal
 - collected within the first 4 days of symptom onset
- **Norovirus**
 - Requires fresh (unfrozen) stool
 - Stool should be obtained from ill individuals
 - Ideally within 48-72 hrs. post onset
 - Must be kept refrigerated
- **Scabies** – skin scraping

Treatment/Prophylaxis

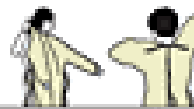
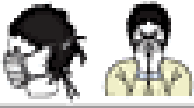

- **Influenza**
 - Supportive care and antiviral medication
 - Prophylaxis to contacts
- **Norovirus**
 - Supportive care, Oral hydration if possible
 - IV hydration if unable to take oral hydration
 - Anti-emetics
- **Scabies**
 - Topical Scabicide (most frequent) and/or Oral anti-parasitic agent
 - Prophylaxis to contacts

Infection Control

- ✓ 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
- ✓ Restrict group activities if needed
- ✓ Continue to monitor employees and residents on a daily basis for new cases
- ✓ Update Public Health Nurse

SEQUENCE FOR PUTTING ON PERSONAL PROTECTIVE EQUIPMENT (PPE)

The type of PPE used will vary based on the level of protection required, such as standard and contact, droplet or airborne infection control precautions. The procedure for putting on and removing PPE should be followed for the specific type of PPE.

- 1. GOWN**
 - Fully cover torso from neck to knees, arms to wrist of wrists, and wrap around the back
 - Tie ties in back of neck and wrist
- 2. MASK OR RESPIRATOR**
 - Secure ties or elastic bands at middle of head and back
 - Fit flexible band to nose bridge
 - Fit snug to face and below chin
 - Fit check respirator
- 3. GOGGLES OR FACE SHIELD**
 - Place over face and eyes and adjust to fit
- 4. GLOVES**
 - Extend to coverage of isolation gown

USE SAFE WORK PRACTICES TO PROTECT YOURSELF AND LIMIT THE SPREAD OF CONTAMINATION

- Keep hands away from face
- Limit surface contact
- Change gloves when task or activity work is over
- Perform hand hygiene



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

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





Skilled Nursing Facilities Webpage

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

The screenshot displays a web browser window with the URL <http://publichealth.lacounty.gov/acd/index.htm>. The page features a grid of 12 navigation buttons with icons and text labels:

- Diseases and Conditions
- Healthcare Outreach Unit
- Vector-Borne and Zoonotic Disease
- Skilled Nursing Facilities
- Foodborne Disease
- Planning, Evaluation, and Response
- Waterborne Disease
- Health Education Materials
- Seasonal Influenza (Flu)
- Disease Reports and Special Studies
- Automated Disease Surveillance
- Guidelines and Manuals

Below the grid are two sections: "Reportable Diseases and Conditions" and "Annual Morbidity Reports".

Annotations on the screenshot include:

- A red arrow pointing from a box labeled "Click here" to the "Skilled Nursing Facilities" button.
- A red arrow pointing from a box labeled "List of Reportable Diseases" to the "Reportable Diseases and Conditions" section.

The Windows taskbar at the bottom shows the time as 3:54 PM on 10/11/2018.



SNF Webpage (2)

The screenshot shows a web browser window displaying the County of Los Angeles Public Health website. The address bar shows the URL <http://publichealth.lacounty.gov/acd/SNF.htm>. The page features a navigation menu with links for Home, About, FAQ, Comment, Contact Us, and A-Z Index. The main content area is titled "Acute Communicable Disease Control" and includes a sidebar with a list of links such as "ACDC Main Page", "Diseases & Conditions", and "Guidelines/Manuals". The main content area contains a section titled "Acute Communicable Disease Control" with a sub-section "Skilled Nursing Facilities: Infection Prevention Resources and Guidance". This section provides a central guide to education and events relevant to improving infection prevention at a facility. It includes a link to "LA County Influenza Guidance for Long-Term Care Facilities During Elevated Levels of Influenza Activity (1-19-18)" and a "Special Report: 2016 SNF Symposium Summary". Below this, there is a section for the "2018 U.S. Antibiotics Awareness Week: Skilled Nursing Facility Educational Event" with a "Presentation Archive" listing three presentations: "The Clinical Microbiology Laboratory: Our Role in Antimicrobial Stewardship", "Antibiotic Stewardship Updates and Resources for California Skilled Nursing Facilities", and "A QAPI Approach to CDI Reduction Using the National Healthcare Safety Network (NHSN)". A "Handouts" section lists four documents: "Checklist for Core Elements of Antibiotic Stewardship in Nursing Homes", "NHSN Facility Enrollment Checklist For Long-Term Care Facilities", "Instructions For Long Term Care Facilities Reporting CRE In NHSN", and "Infection Control Risk Assessment Guidelines for Long Term Care Facilities".

Useful Links and Resources



Acute Communicable Disease Control (ACDC)	
Frequently Used Links	Links to other LAC DPH programs, journals, organizations and data.
Influenza: - General Information - LAC DPH Surveillance - Influenza Watch - Outbreak Prevention for SNFs - Flu Health Education Materials - Flu Vaccination	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 - Informational Webpage - SNF Toolkit	Resources explaining the mandate and supporting influenza vaccination for healthcare personnel.
Norovirus - General Information - Outbreak Prevention Toolkit	Norovirus information and resources; how-to-guide for norovirus outbreak prevention and control in SNFs.
Scabies - General Information - Toolkit for Acute and Long-term Care Facilities	Scabies information and resources; how-to-guide for scabies outbreak prevention and control in medical settings.
LAC DPH Disease Guidelines and Recommendations - Listing - Regulations for Communicable Disease Reporting (B82) - Communicable Disease Manual (B73)	Provides guidance for admissions and infection control in healthcare settings; Provides information on communicable diseases including legal requirements, procedures and investigation forms.
Health Education Materials	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)



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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.																									





Thank You

**Debbie Poon, MSN, R.N.
Public Health Nurse**

**Central Health Center
Community Field Services
Service Planning Area 4**

