
Vaccine Preventable Diseases in San Francisco

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Section Responsibilities

- Communicable Disease Control Unit (CDCU): Communicable disease control and surveillance (for all reportable diseases except STDs, TB and HIV)
 - Communicable Disease Prevention Unit (CDPU): Adult and childhood immunization programs, including the Adult Immunization and Travel Clinic (AITC)
 - Bioterrorism and Infectious Disease Emergency Response Unit (BIDEU): Infectious Disease Emergency Preparedness
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Vaccine preventable diseases: 2005 - 2010

	2005-09	2009	2010 (through 8/10/10)
■ Rubella	0	0	1
■ Measles	0-4	5	1
■ Pertussis	15-45	16	50
■ (Influenza)			

Rubella (German Measles)

- Acute viral illness, which causes fever and rash. Vaccine licensed in 1969.
 - Since 2003, less than 15 cases/yr have been reported in the US; ~1 yr in CA.
 - Disease is usually mild, but can cause arthritis, swollen lymph nodes, inflammation of the brain or other nerve tissues.
 - Infection during pregnancy can result in fetal death, premature delivery, or congenital rubella syndrome.
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Rubella: SF Resident

- In April, a case of Rubella was confirmed in a unvaccinated US-born SF adult, with no history of foreign travel.
 - Multiple individuals were exposed, including a susceptible pregnant woman (who did not become infected).
 - CDCP follow-up included case investigation, contact tracing, monitoring of exposed individuals, and dissemination of a Health Alert to the clinical community.
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Measles

- A highly-infectious acute viral illness characterized by fever, cough, URI symptoms and rash.
 - Vaccine has been licensed in the US since 1963, but current vaccine since 1968.
 - Complications include bronchitis, pneumonia, inflammation of the brain and death.
 - Endemic in many parts of the world, with outbreaks in Europe. Cases in US in unvaccinated individuals, associated with foreign travel.
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Measles: SF Resident

- Four cases of measles were diagnosed in the SF Bay Area within a 2 week period in February 2010, including one in a SF adult.
 - The SF case presented with mild illness, was unvaccinated, and had no history of foreign travel or contact with foreign travelers.
 - Raised concern that local transmission occurring among asymptomatic individuals.
 - Health Alert sent to SF Clinicians; no additional cases identified.
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Pertussis

- Bacterial infection that can include URI symptoms, difficulty breathing, cough with a “whoop” sound, and post-tussis vomiting.
 - Both immunity from infection and the vaccine wanes over time, resulting in decreased “herd” immunity and epidemic disease every 3-5 years.
 - Adults often have mild, undiagnosed disease and unknowingly spread the disease to more susceptible children. Unvaccinated infants at highest risk for disease.
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Pertussis in SF and CA

- 7 infant-deaths from pertussis state-wide this year (all less than 2 months of age).
 - In SF, have worked with birthing hospitals to offer Tdap vaccine to new moms; at SFGH offering to all household members. Working with ER's to replace Td with Tdap vaccine.
 - Have sent 2 Health Alerts and 2 VaxFax's to SF clinicians.
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Influenza

- One flu vaccine for the 2010-11 season!
 - The trivalent vaccine includes 2 influenza A components: swine H1N1 and H3N2, and an influenza B strain.
 - Currently, seeing some H3N2 activity - same H3N2 strain found in the vaccine.
 - This year, routine influenza vaccine is recommended for everyone \geq 6 months of age.
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Influenza

- Individuals who received H1N1 and/or seasonal flu shot last year should still receive the trivalent vaccine this year (2 doses for influenza-vaccine naïve children under 8).
 - Different formulations include the live attenuated nasal spray, and 3 types of inactivated injectable vaccine.
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Home

Disease Reporting & Control

Immunizations

Infectious Disease Emergencies

Infectious Disease A to Z

Publications



We prevent the spread of disease in San Francisco by investigating cases and outbreaks, promoting vaccination, and planning for infectious disease emergencies.

Learn more about what we do. 

► Quick Links

[Report a Disease](#)

[Health Alerts](#)

[Vax Fax - Vaccine Updates](#)

[Seasonal Flu](#)

[Pandemic Flu](#)

[Hep B Free](#)

[Adult Immunization and Travel Clinic \(AITC\)](#)

► Other Programs

[TB Services](#)

[HIV/AIDS Services](#)

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Report on Communicable Diseases in San Francisco

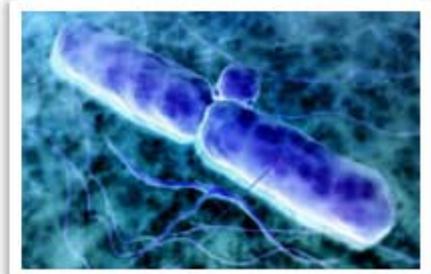
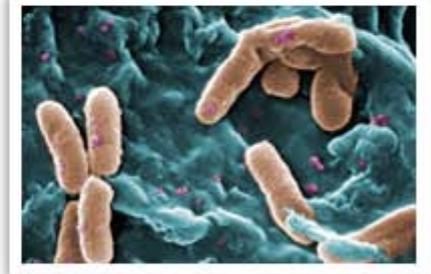
Read the recently released [Annual Report of Communicable Diseases in San Francisco for 2007](#). Learn what strategies the health department uses to control the spread of disease in our community.

New Pandemic Flu Flyers in English, Spanish, and Cantonese

Learn about [pandemic flu](#) and [how to prepare](#). Download or request materials in [English](#), [Spanish](#), and [Cantonese](#) from the San Francisco Department of Public Health.

Cover your Cough and Sneeze this Cold and Flu Season

[Cover your cough and sneeze](#) with your sleeve (not your hands) or wear a face mask to protect others from your germs.



CDCP Vaccine Preventable Disease Priority Activities

- Promote Tdap vaccine for all adults.
 - Off-label use in those over 65 years of age.
 - Discounted vaccine at AITC.
 - “Community Immunity” Campaign
 - Fall 2010/Winter 2011 Adult vaccine campaign
 - Three phases:
 - September: Adult Vaccine focus
 - October-November: Influenza focus
 - January: Influenza focus
 - PR campaign funded with H1N1 monies
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CDCP Vaccine Preventable Disease Priority Activities

- Outreach to families of school age children in San Francisco
 - Collaborating with DEM and SFUSD to distribute letter to all parents.
 - Panel discussions at schools.
 - Continue to outreach and educate clinical community regarding diseases and vaccinations.
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