

Swine Influenza A: Information for Child Care Providers
INTERIM DAYCARE ADVISORY
4-29-2009

The State of Connecticut Department of Public Health (DPH) would like to provide information to childcare providers about the recently reported cases of a novel influenza virus, *swine flu*, identified in the U.S. and other countries. The guidance provided here will give you some basic information about swine flu and list additional resources so that you can stay current on this evolving issue. For information about swine flu, visit the DPH web site at <http://www.ct.gov/ctfluwatch/swineflu> or the Centers for Disease Control and Prevention (CDC) at www.cdc.gov/flu/swine. This site will be updated as new information becomes available. A fact sheet from CDC, *Key Facts about Swine Influenza* is attached for your review. In addition, a one-page fact sheet, *Preventing the Flu: Good Health Habits Can Help Stop Germs*, which can be distributed to staff and parents is also attached. It may also be helpful to post this information at sites around your childcare facility.

General Information:

- Swine Influenza (swine flu) is a respiratory disease of pigs caused by type A influenza viruses that causes regular outbreaks in pigs. People do not normally get swine flu, but human infections can and do happen. Swine flu viruses have been reported to spread from people-to-people, however, at this time, it is not known how easily the virus spreads between people.
- Swine influenza viruses are not transmitted by food. You cannot get swine influenza from eating pork or pork products.
- There is no vaccine available at this time for the current outbreak of the swine flu virus.
- To help prevent the transmission of swine flu, good health and hygiene practices are essential. These include:
 - Washing your hands often with soap and water, especially after you cough or sneeze. If water is not available, alcohol-based hand sanitizers can be used.
 - Covering your nose and mouth with a tissue when you cough or sneeze (if a tissue is not available, the crook of the arm). Carefully dispose of the tissues in a wastebasket, and then wash your hands.
 - Do not share drinking cups or food.
- For additional information on preventing the spread of germs visit the following CDC sites:
 - <http://www.cdc.gov/cleanhands/>
 - <http://www.cdc.gov/flu/protect/stopgerms.htm>
- Children who have recently traveled to an area that has reported cases of swine flu who do not have any symptoms **do not** need to be excluded from the childcare setting. For an updated listing of areas that have confirmed cases of swine flu see the DPH or CDC websites at www.cdc.gov/flu/swine and <http://www.ct.gov/ctfluwatch/swineflu>.

Daycare Closures:

- Closure of a childcare facility should be strongly considered in settings with a confirmed, probable, or a suspected case epidemiologically linked to a confirmed case. For advice on definitions of these terms and guidance on closures, consult with your local health department. Alternatively, the state health department can be consulted.
- If the childcare facility closes, they should also cancel all child care related gatherings and encourage parents and students to avoid congregating outside of the childcare facility.
- Childcare facilities should dismiss children for a time period to be evaluated on an ongoing basis depending upon epidemiological findings.
- Childcare facilities should consult with their local health departments for guidance on reopening. If no additional confirmed or suspected cases are identified among children (or staff) for a period of 7 days, facilities may consider reopening.
- Childcare facilities should report any closures and re-openings to child daycare licensing at (860) 509-8045.
- Childcare facilities in unaffected areas should begin to prepare for the possibility of the childcare facility closure. This includes asking teachers, parents and officials in charge of critical childcare-associated programs (such as meal services) to make contingency plans.

Ill children/teachers/staff

Swine flu signs and symptoms are the same as the strains that cause seasonal influenza, they are:

**Fever
Cough
Sore throat
Possibly vomiting and / or diarrhea**

To prevent the spread of influenza in the childcare setting:

- First, and most importantly, remind parents and enforce policies regarding having ill children stay at home during their illness. If they have influenza they will need to stay at home for least 7 days after the onset of illness or until 48 hours after their symptoms resolve, whichever is longer.
- If a child becomes ill, the child should be evaluated by their health care provider, especially if they traveled to an area with confirmed cases of swine flu.
- Remind and inform staff to remain home while ill.
- Be sure the program's policies and procedures are being followed.
- Review and implement *CDC Guidelines and Recommendations for Preventing the Spread of Influenza (the Flu) in Child Care Settings: Guidance for Administrators, Care Providers, and Other Staff*, (<http://www.cdc.gov/flu/professionals/infectioncontrol/childcaresettings.htm>)

- Make sure staff are familiar with the above guidelines and that they are being implemented in your program. Remind childcare staff to clean/disinfect frequently touched surfaces within the facility. Clean and sanitize mouth toys often.
- Provide information to parents on steps that can be taken to prevent flu. (See attached fact sheet, *Preventing the Flu: Good Health Habits Can Help Stop Germs.*)
- Monitor the postings on the state DPH and CDC web sites about swine flu to see if child care facilities need to take additional actions.
- Aspirin (acetylsalicylic acid) should not be given to children or teenagers with fever who have the flu. This can cause a rare but serious illness called Reye's syndrome.

Additional information on preventing the spread of influenza can be found at:
<http://www.pandemicflu.gov/plan/school/preschool.html>.

For generic information on disaster preparedness, see NACCRRA's web site
http://www.naccrra.org/for_parents/coping/disaster.php

Additional resources for schools and childcare settings, including Connecticut pandemic influenza planning materials can be found at:
<http://www.ct.gov/ctfluwatch/cwp/view.asp?a=2533&Q=314858>.

Additional generic planning information for schools and childcare settings, including examples of state and local plans, can be found on the Department of Education's website at: <http://www.ed.gov/admins/lead/safety/emergencyplan/pandemic/index.html>.

Preventing the Flu: Good Health Habits Can Help Stop Germs

Fact Sheet

1. Avoid close contact.

Avoid close contact with people who are sick. When you are sick, keep your distance from others to protect them from getting sick too.

2. Stay home when you are sick.

Stay home from work, school, and errands when you are sick. Keep sick children at home. You will help prevent others from catching the illness.

3. Cover your mouth and nose.

Cover your mouth and nose with a tissue when coughing or sneezing. Throw the tissue in the trash after you use it.

4. Wash your hands often.

Washing your hands and the hands of your children often will help protect you from germs.

5. Avoid touching your eyes, nose or mouth.

Germs are often spread when a person touches something that is contaminated with germs and then touches his or her eyes, nose, or mouth.

6. Practice other good health habits.

Get plenty of sleep, be physically active, manage your stress, drink plenty of fluids, and eat nutritious food.



QUESTIONS & ANSWERS

Key Facts about Swine Influenza (Swine Flu)

What is Swine Influenza?

Swine Influenza (swine flu) is a respiratory disease of pigs caused by type A influenza virus that regularly causes outbreaks of influenza in pigs. Swine flu viruses cause high levels of illness and low death rates in pigs. Swine influenza viruses may circulate among swine throughout the year, but most outbreaks occur during the late fall and winter months similar to outbreaks in humans. The classical swine flu virus (an influenza type A H1N1 virus) was first isolated from a pig in 1930.

How many swine flu viruses are there?

Like all influenza viruses, swine flu viruses change constantly. Pigs can be infected by avian influenza and human influenza viruses as well as swine influenza viruses. When influenza viruses from different species infect pigs, the viruses can reassort (i.e. swap genes) and new viruses that are a mix of swine, human and/or avian influenza viruses can emerge. Over the years, different variations of swine flu viruses have emerged. At this time, there are four main influenza type A virus subtypes that have been isolated in pigs: H1N1, H1N2, H3N2, and H3N1. However, most of the recently isolated influenza viruses from pigs have been H1N1 viruses.

Swine Flu in Humans

Can humans catch swine flu?

Swine flu viruses do not normally infect humans. However, sporadic human infections with swine flu have occurred. Most commonly, these cases occur in persons with direct exposure to pigs (e.g. children near pigs at a fair or workers in the swine industry). In addition, there have been documented cases of one person spreading swine flu to others. For example, an outbreak of apparent swine flu infection in pigs in Wisconsin in 1988 resulted in multiple human infections, and, although no community outbreak resulted, there was antibody evidence of virus transmission from the patient to health care workers who had close contact with the patient.

How common is swine flu infection in humans?

In the past, CDC received reports of approximately one human swine influenza virus infection every one to two years in the U.S., but from December 2005 through February 2009, 12 cases of human infection with swine influenza have been reported.

What are the symptoms of swine flu in humans?

The symptoms of swine flu in people are expected to be similar to the symptoms of regular human [seasonal influenza](#) and include fever, lethargy, lack of appetite and coughing. Some people with swine flu also have reported runny nose, sore throat, nausea, vomiting and diarrhea.

Can people catch swine flu from eating pork?

No. Swine influenza viruses are not transmitted by food. You can not get swine influenza from eating pork or pork products. Eating properly handled and cooked pork and pork products is safe. Cooking pork to an internal temperature of 160°F kills the swine flu virus as it does other bacteria and viruses.

Key Facts about Swine Influenza (Swine Flu)

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How does swine flu spread?

Influenza viruses can be directly transmitted from pigs to people and from people to pigs. Human infection with flu viruses from pigs are most likely to occur when people are in close proximity to infected pigs, such as in pig barns and livestock exhibits housing pigs at fairs. Human-to-human transmission of swine flu can also occur. This is thought to occur in the same way as seasonal flu occurs in people, which is mainly person-to-person transmission through coughing or sneezing of people infected with the influenza virus. People may become infected by touching something with flu viruses on it and then touching their mouth or nose.

What do we know about human-to-human spread of swine flu?

In September 1988, a previously healthy 32-year-old pregnant woman was hospitalized for pneumonia and died 8 days later. A swine H1N1 flu virus was detected. Four days before getting sick, the patient visited a county fair swine exhibition where there was widespread influenza-like illness among the swine.

In follow-up studies, 76% of swine exhibitors tested had antibody evidence of swine flu infection but no serious illnesses were detected among this group. Additional studies suggest that one to three health care personnel who had contact with the patient developed mild influenza-like illnesses with antibody evidence of swine flu infection.

How can human infections with swine influenza be diagnosed?

To diagnose swine influenza A infection, a respiratory specimen would generally need to be collected within the first 4 to 5 days of illness (when an infected person is most likely to be shedding virus). However, some persons, especially children, may shed virus for 10 days or longer. Identification as a swine flu influenza A virus requires sending the specimen to CDC for laboratory testing.

What medications are available to treat swine flu infections in humans?

There are four different antiviral drugs that are licensed for use in the US for the treatment of influenza: amantadine, rimantadine, oseltamivir and zanamivir. While most swine influenza viruses have been susceptible to all four drugs, the most recent seven swine influenza viruses isolated from humans are resistant to amantadine and rimantadine. At this time, CDC recommends the use of oseltamivir or zanamivir for the treatment and/or prevention of infection with swine influenza viruses. More information on treatment recommendations can be found at www.cdc.gov/flu/swine/recommendations.htm.

What other examples of swine flu outbreaks are there?

Probably the most well known is an outbreak of swine flu among soldiers in Fort Dix, New Jersey in 1976. The virus caused disease with x-ray evidence of pneumonia in at least 4 soldiers and 1 death; all of these patients had previously been healthy. The virus was transmitted to close contacts in a basic training environment, with limited transmission outside the basic training group. The virus is thought to have circulated for a month and disappeared. The source of the virus, the exact time of its introduction into Fort Dix, and factors limiting its spread and duration are unknown. The Fort Dix outbreak may have been caused by introduction of an animal virus into a stressed human population in close contact in crowded facilities during the winter. The swine influenza A virus collected from a Fort Dix soldier was named A/New Jersey/76 (Hsw1N1).

Is the H1N1 swine flu virus the same as human H1N1 viruses?

No. The H1N1 swine flu viruses are antigenically very different from human H1N1 viruses and, therefore, vaccines for human seasonal flu would not provide protection from H1N1 swine flu viruses.

Key Facts about Swine Influenza (Swine Flu)

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Swine Flu in Pigs

How does swine flu spread among pigs?

Swine flu viruses are thought to be spread mostly through close contact among pigs and possibly from contaminated objects moving between infected and uninfected pigs. Herds with continuous swine flu infections and herds that are vaccinated against swine flu may have sporadic disease, or may show only mild or no symptoms of infection.

What are signs of swine flu in pigs?

Signs of swine flu in pigs can include sudden onset of fever, depression, coughing (barking), discharge from the nose or eyes, sneezing, breathing difficulties, eye redness or inflammation, and going off feed.

How common is swine flu among pigs?

H1N1 and H3N2 swine flu viruses are endemic among pig populations in the United States and something that the industry deals with routinely. Outbreaks among pigs normally occur in colder weather months (late fall and winter) and sometimes with the introduction of new pigs into susceptible herds. Studies have shown that the swine flu H1N1 is common throughout pig populations worldwide, with 25 percent of animals showing antibody evidence of infection. In the U.S. studies have shown that 30 percent of the pig population has antibody evidence of having had H1N1 infection. More specifically, 51 percent of pigs in the north-central U.S. have been shown to have antibody evidence of infection with swine H1N1. Human infections with swine flu H1N1 viruses are rare. There is currently no way to differentiate antibody produced in response to flu vaccination in pigs from antibody made in response to pig infections with swine H1N1 influenza.

While H1N1 swine viruses have been known to circulate among pig populations since at least 1930, H3N2 influenza viruses did not begin circulating among US pigs until 1998. The H3N2 viruses initially were introduced into the pig population from humans. The current swine flu H3N2 viruses are closely related to human H3N2 viruses.

Is there a vaccine for swine flu?

Vaccines are available to be given to pigs to prevent swine influenza. There is no vaccine to protect humans from swine flu. The seasonal influenza vaccine will likely help provide partial protection against swine H3N2, but not swine H1N1 viruses.

Related Links

[INFLUENZA: Pigs, People and Public Health \(Fact Sheet\)](#)

For more information, visit <http://www.cdc.gov/flu/swine/>,
or call CDC at 800-CDC-INFO (English and Spanish) or 888-232-6348 (TTY).

April 23, 2009

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