



SWINE FLU

**We hope that this
information
will help you to
understand
“swine flu” & to
improve your
awareness of local
responses
& activities**



Wellness updates...

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Swine Flu?

- *Swine flu is a respiratory disease, caused by influenza type A which infects pigs*
- *Until now it has not normally infected humans, but the latest form clearly does, & can be spread from person to person - probably through coughing and sneezing*
- *Outbreaks of swine flu happen regularly in pigs*
- *People can get it (but not usually)& It can spread from person to person just like seasonal flu spreads*



A funeral wreath sits on Gerardo Leyva's grave in the town of Xonacatlan, Mexico. A week after the death of one of Mexico's first swine flu victims, Leyva's family still hasn't been given any medicine nor has any public health worker interviewed them about contacts with pigs or other potential swine flu sources.

(AP Photo / April 27, 2009)

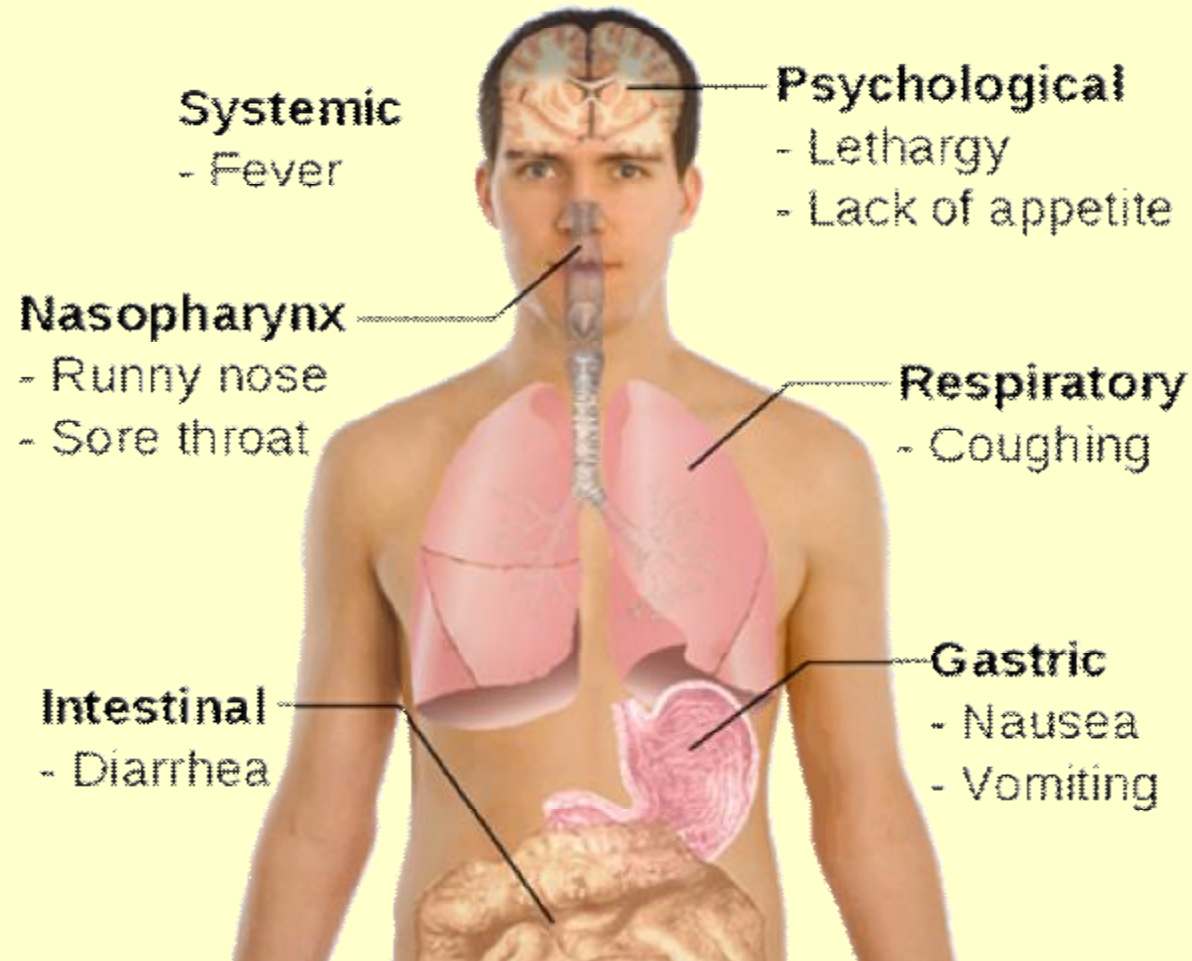
SWINE FLU - THE BASICS

- *Symptoms usually similar to seasonal flu but deaths recorded in Mexico*
- *It is a new version of the H1N1 strain which caused the 1918 flu pandemic*
- *Too early to say whether it will lead to a pandemic*
- *Current treatments do work, but there is no vaccine*
- *Good personal hygiene, such as washing hands, covering nose when sneezing advised*



Signs & Symptoms

Symptoms of Swine flu



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In swine(Pig)

Symptoms include

- Ø fever
- Ø Lethargy
- Ø Sneezing
- Ø Coughing
- Ø difficulty breathing
- Ø decreased appetite



In humans

Symptoms include

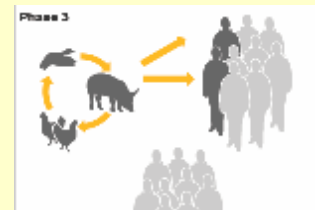
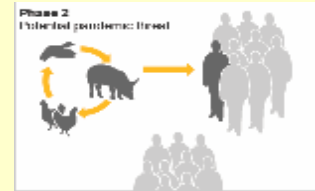
- Ø Fever
- Ø cough
- Ø sore throat
- Ø body aches
- Ø headache
- Ø chills and fatigue.



The 2009 outbreak has shown an increased percentage of patients reporting diarrhea and vomiting

7 Phases

- **Phase 1:** No infections in humans are being caused by viruses circulating in animals
- **Phase 2:** Animal flu virus causes infection in humans, and is a potential pandemic threat
- **Phase 3:** Flu causes sporadic cases in people, but no significant human-to-human transmission
- **Phase 4:** Human-to-human transmission and community-level outbreaks
- **Phase 5:** Human-to-human transmission in at least two countries. Strong signal pandemic imminent
- **Phase 6:** Virus spreads to another country in a different region. Global pandemic under way
- **Phase 7:** Pandemic activity appears to be decreasing though second wave possible.
Post-pandemic: activity returns to normal, seasonal flu levels



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-Flu Pandemics-

1918

- *First reported in America in March 1918*
- *Spanish flu pandemic*
- *The pandemic lasted from March 1918 to June 1920 spreading even to the Arctic and remote Pacific islands*
- *Infected 50% of the world's population*
- *Killed 40-50m people*
- *Type : H1N1*



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Asian Flu

1957

- *H2N2 is a subtype of the species Influenza*
- *A virus sometimes called bird flu virus*
- *It originated from mutation in wild ducks combining with a pre-existing human injure*
- *It is estimated that anywhere from 1 million to 4 million people were killed worldwide*
- *Type : H2N1*



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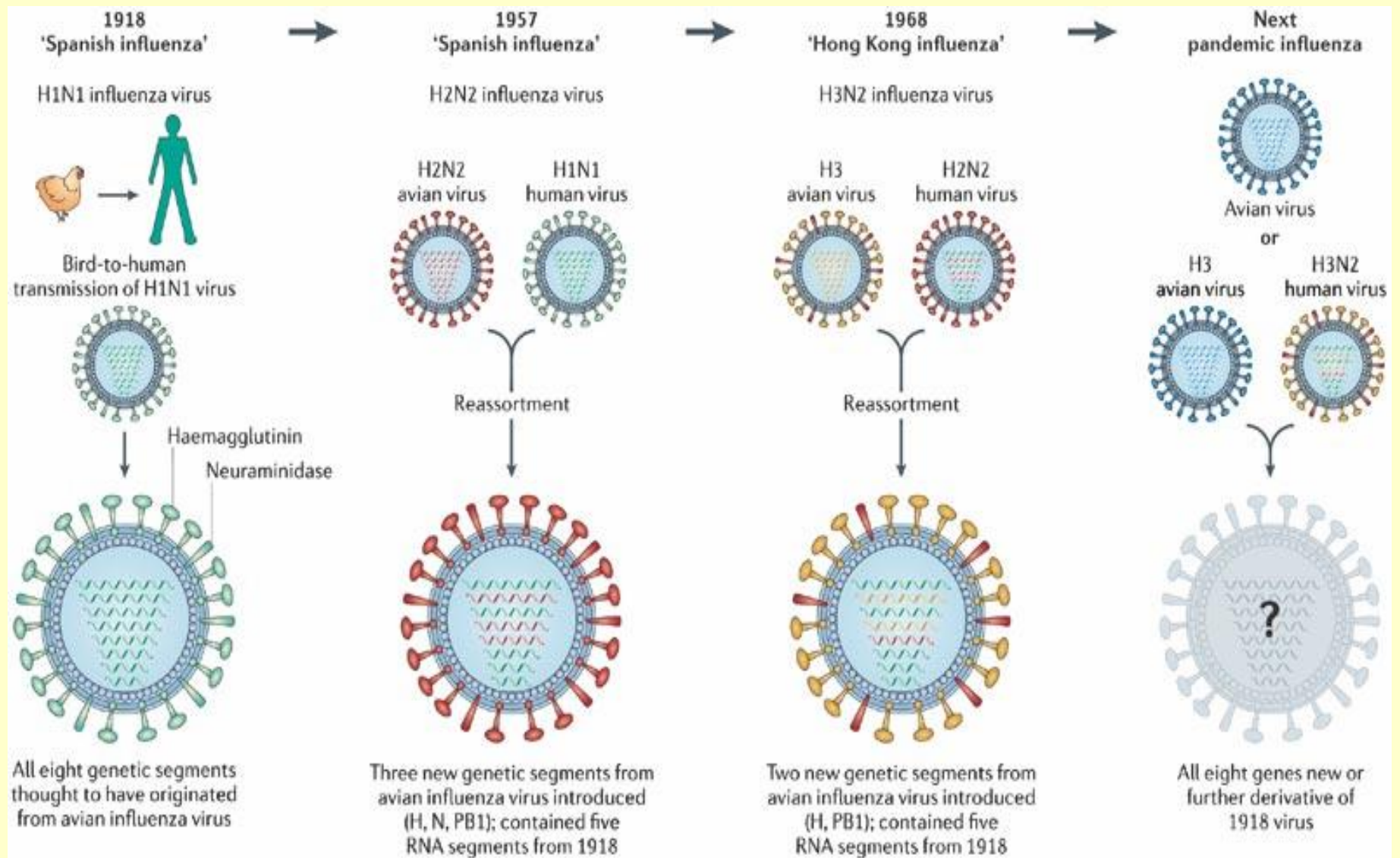
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Influenza A virus subtype H3N2

1968

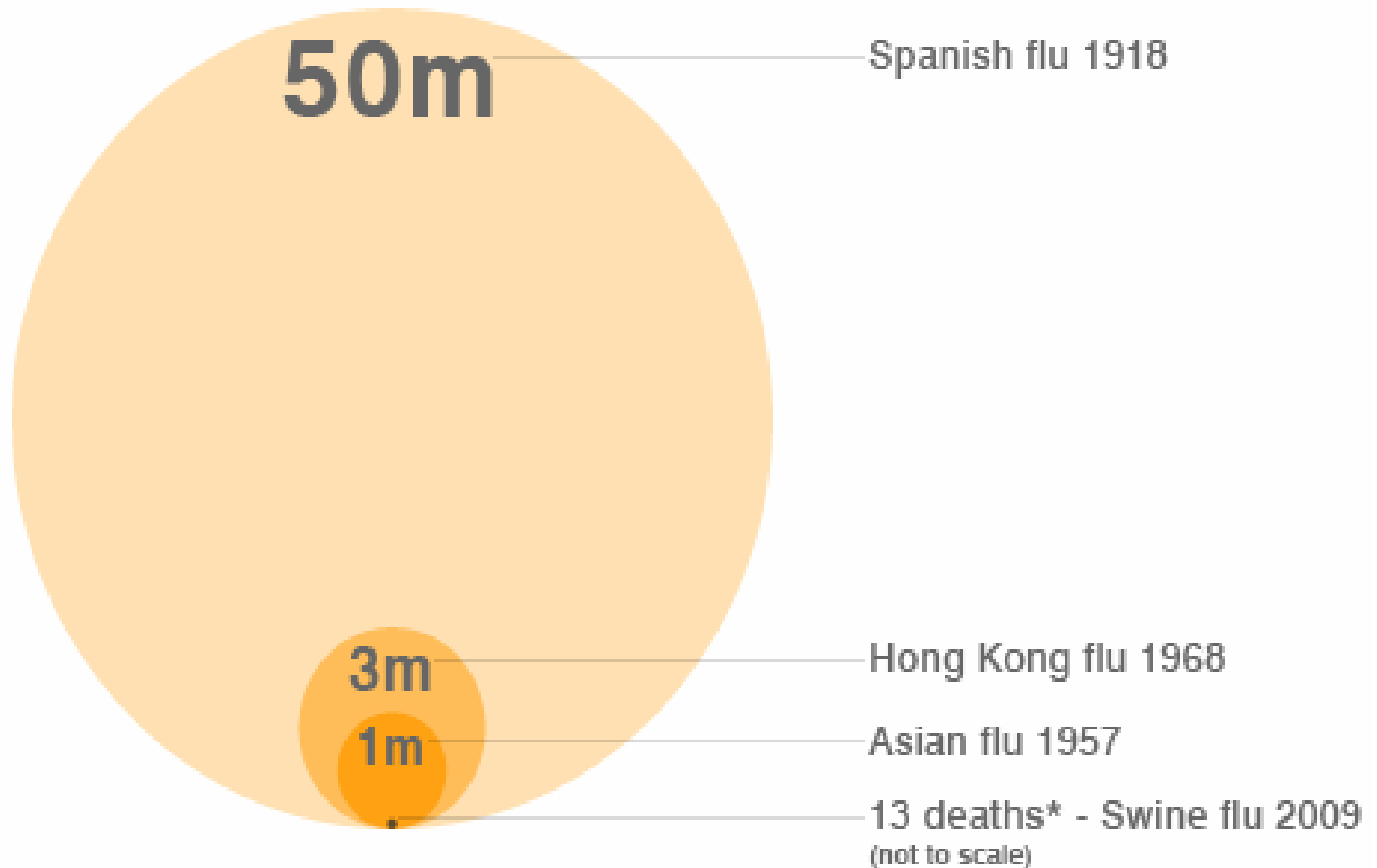
- *First detected in Hong Kong*
- *Type: H3N2 (H3N2 viruses can infect birds and mammals. In birds, humans, and pigs, the virus has mutated into many strains)*
- *Killed up to one million people globally*





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Nature Reviews | Drug Discovery

DEATHS FROM PREVIOUS FLU PANDEMICS



* As of 1 May 2009

SOURCE: Health Protection Agency, WHO

Why we should be Worried?



- *When any new strain of flu emerges that acquires the ability to pass from person to person, it is monitored very closely in case it has the potential to spark a global epidemic, or pandemic*
- *So far, more than 1,000 cases of the virus have been reported in 20 countries*
- *Nobody knows the full potential impact of a pandemic, but experts have warned that it could cost millions of lives worldwide. The Spanish flu pandemic, which began in 1918, and was also caused by an H1N1 strain, killed millions of people(occurred at a time when antibiotics were not available to treat symptoms)*

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Cont¹⁴...

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- *Fact that many of the victims are young does point to something unusual. Normal, seasonal flu tends to affect the elderly disproportionately*

U.S. Human Cases of Swine Flu Infection

(As of April 27, 2009 1:00 PM ET)

State	# of laboratory confirmed cases
California	7 cases
Kansas	2 cases
New York City	28 cases
Ohio	1 case
Texas	2 cases
TOTAL COUNT	40 cases
International Human Cases of Swine Flu Infection See: World Health Organization	

List of Influenza H1N1 affected countries

As on 4.5.2009

- *Austria*
- *Canada*
- *Hong Kong Special Administrative Region of China*
- *Costa Rica*
- *Colombia*
- *Denmark*
- *El Salvador*
- *France*
- *Germany*
- *Ireland*



- *Israel*
- *Italy*
- *Mexico*
- *Netherlands*
- *New Zealand*
- *Portugal*
- *Republic of Korea*
- *Spain*
- *Switzerland*
- *United Kingdom*
- *U.S.A.*

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Can the virus be controlled?

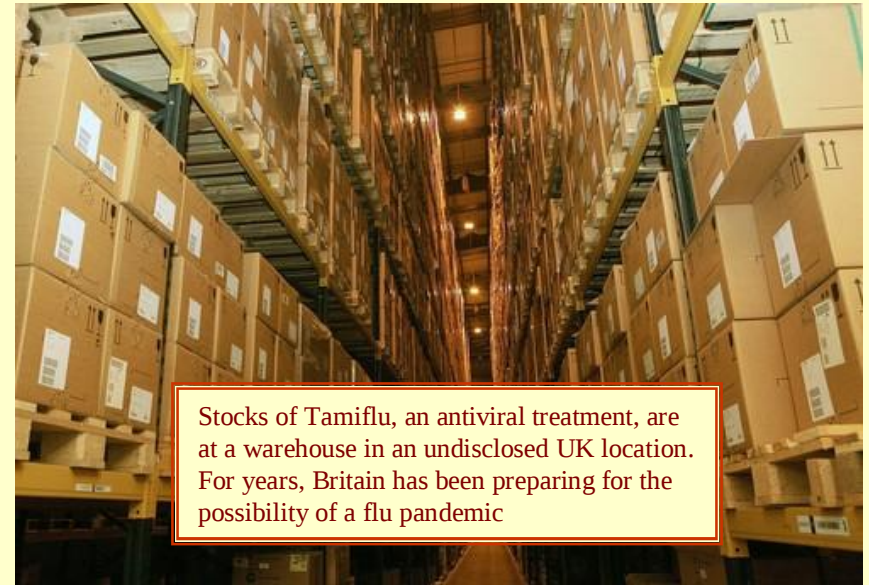
- In the era of readily available air travel, containment will be extremely difficult*
- The World Health Organization says that restricting flights will have little effect*
- It dispute that screening of passengers is also unlikely to have much impact, as symptoms may not be apparent in many infected people.*



Robert Nickla prepares clinical samples submitted for influenza testing at the Arizona State Laboratory in Phoenix on. Federal officials confirmed Wednesday that Arizona has recorded its first case of the swine flu

Treatment

- *Two drugs commonly used to treat flu, Tamiflu and Relenza, seem to be effective at treating cases that have occurred there so far*
- *The drugs must be administered at an early stage to be effective*



Vaccine?

- *It is uncertain how effective currently available flu vaccines would be at offering protection against the new strain, as it is genetically distinct from other flu strains*



Manufacturers are currently working on the seasonal flu vaccine

- *It may take months to perfect it, & manufacture enough supplies to meet what could be huge demand*
- *A vaccine was used to protect humans from a version of swine flu in the US in 1976(caused serious side effects)*
- *Right now, there is NO vaccine for swine flu*

Nurse Ann-Marie Andre-Jonsson displays equipment used detecting the swine flu virus at the Malmo Academic



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Stay safe

- Medical advice : flu-like symptoms who might have been in contact with the swine virus, they should stay at home & call their healthcare provider for advice
- Avoid close contact with people who appear unwell & who have fever
- Good hygiene : covering your nose & mouth when coughing or sneezing, using a tissue when possible and disposing of it promptly
- Wash your hands frequently with soap & water to reduce the spread of the virus from your hands to face or to other people



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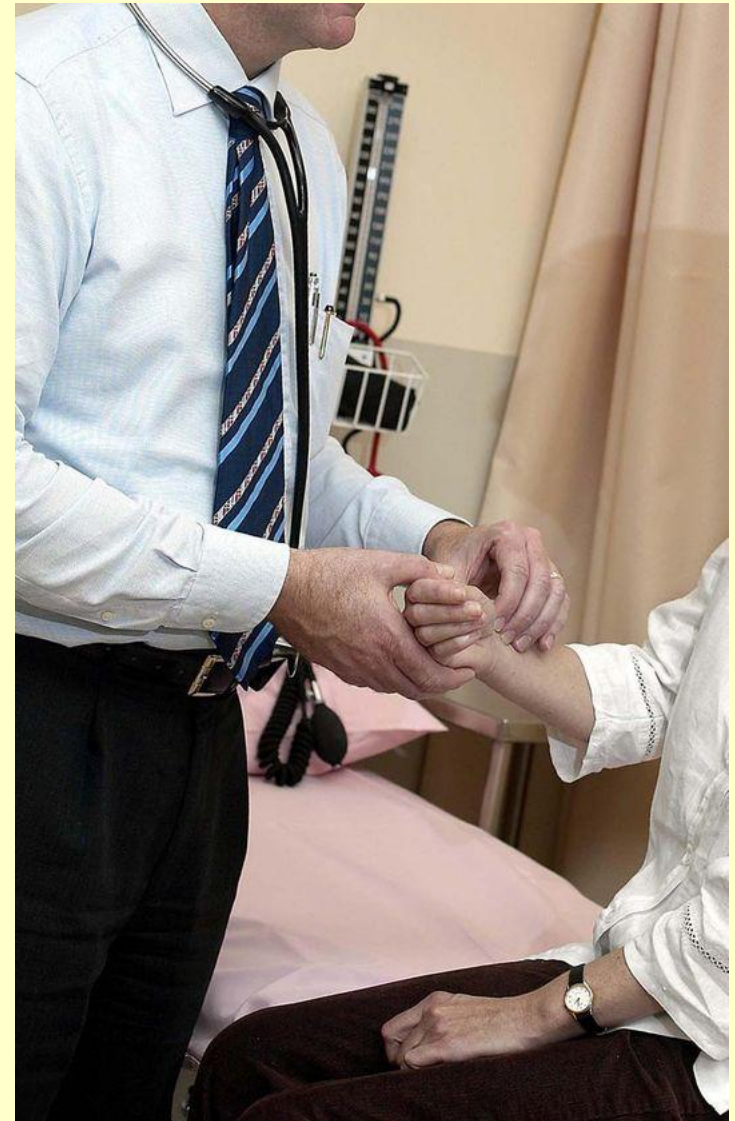
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- *If caring for someone with a flu-like illness, a mask may be worn to cover the nose and mouth to reduce the risk of transmission*
- *In Mexico masks have been handed out to the general public*



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Is it safe to eat pig meat?



- *Yes*
- *There is no evidence that swine flu can be transmitted through eating meat from infected animals*
- *However, it is essential to cook meat properly. A temperature of 70C (158F) would be sure to kill the virus*
- *Experts are also stressing that this is now a disease which is being passed between people*
- *It added there was no evidence of infection in pigs, nor of humans acquiring infection directly from pigs*

BBC NEWS

Bird flu

The damage of bird flu which has caused scores of human deaths in South East Asia in recent years is a different damage to that responsible for the current outbreak of swine flu

- Bird Flu

- a) Type : H2N1
- b) Human-to-human transmission are extremely rare



- Swine Flu

- a) Type : H1N1
- b) Human-to-human transmission



Is it safe to travel?

- *WHO is not recommending travel restrictions*
- *Scientific research based on mathematical modeling indicates that restricting travel will be of limited or no benefit in stopping the spread of disease*
- *Travellers can protect themselves and others by following simple recommendations related to travel aimed at preventing the spread of infection*
- *Individuals who are ill should delay travel plans and returning travellers who fall ill should seek appropriate medical care*

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Economic impact of swine flu

- Tourist impact : In Mexico, bars, shopping centers, cinemas, and even churches have been closed over the weekend
- Sports : Authorities in the football-mad nation have held top-flight games behind closed doors
- Schools : A parent walks her child home from Saint Brigid's School in Brooklyn after the Catholic school was hit by a case of swine flu and was closed for the week



Don't Panic...

*Even the
monuments are
playing it safe..*



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“Live Strong.... I Pray God”



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Sources

- *BBC News* 
- *UN World Health Organisation* 
- *Ministry of Health and Family Welfare* 
- *Google: Images* 
- *Wikipedia* 



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- *Heartily
Thank You.....*

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