



Community-Based Emergency Preparedness and Response Planning for Pandemic Influenza in Educational Institutions

Implemented by Kenan Institute Asia
in Partnerships with UNICEF and
Ministries of Education and Health
in Thailand and Vietnam



with support from



JAPAN
From the People of Japan



USAID
FROM THE AMERICAN PEOPLE

Why?



1.



Avian influenza H5N1

2.



Human cases of H5N1

- animal to human
- human to human

3.



WHO influenza pandemic warning

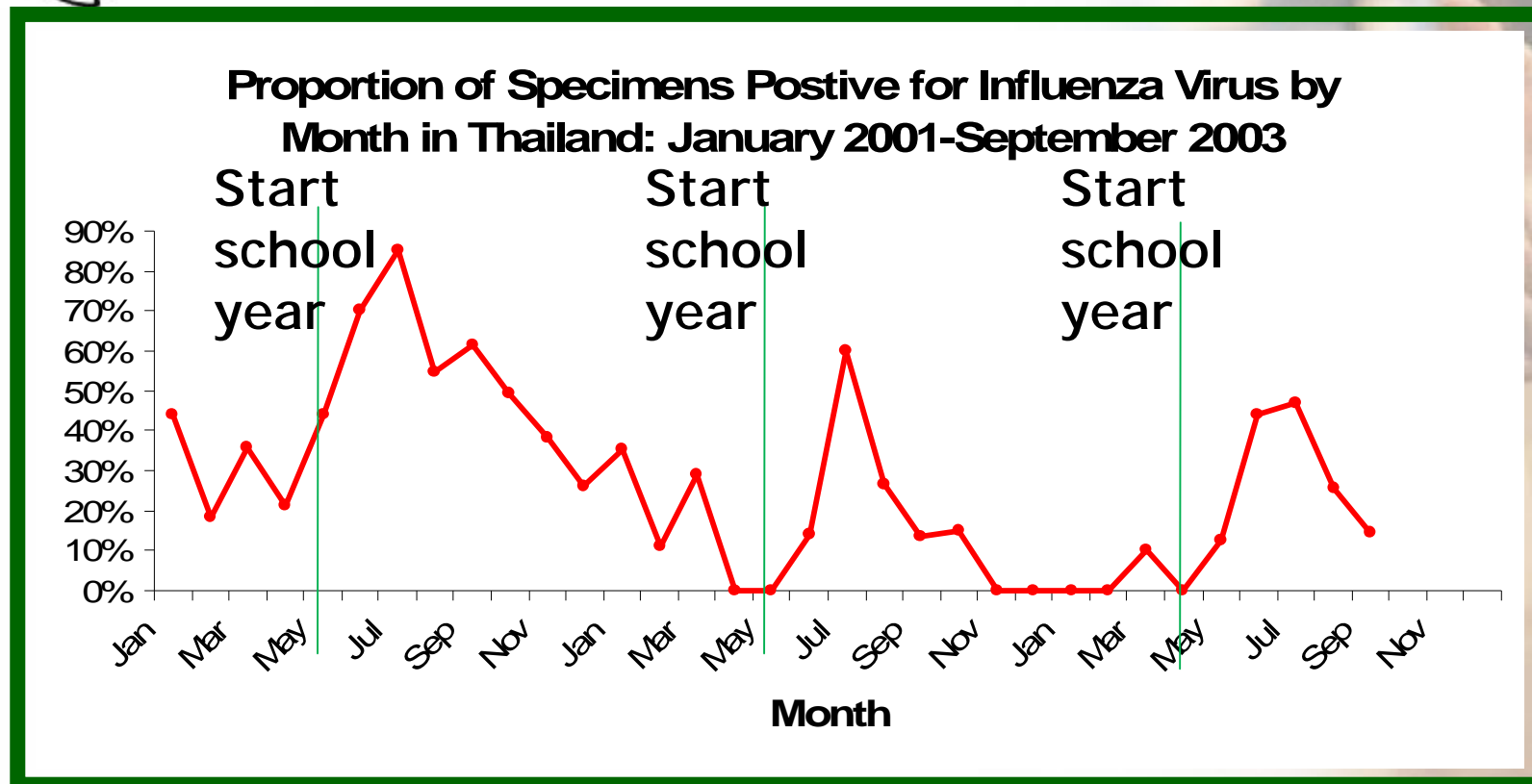
Why?



4.



Children drive transmission in epidemics of influenza



Why?



5. Children are superspreaders

- Data from the US Centers for Disease Control indicate that *children have the highest rates of influenza infection of any age group during the normal influenza season and are important disseminators of the virus into communities.*
- Children are *2 to 4 times more likely to be infected with influenza than adults.*
 - In the 1957 "Asian Flu" pandemic in the UK, *up to 50% of schoolchildren developed influenza, and in residential schools, attack rates reached 90%, often affecting the whole school within a fortnight.*
 - *Children under 12 can be infectious after recovery (up to 7 days)*

Why?

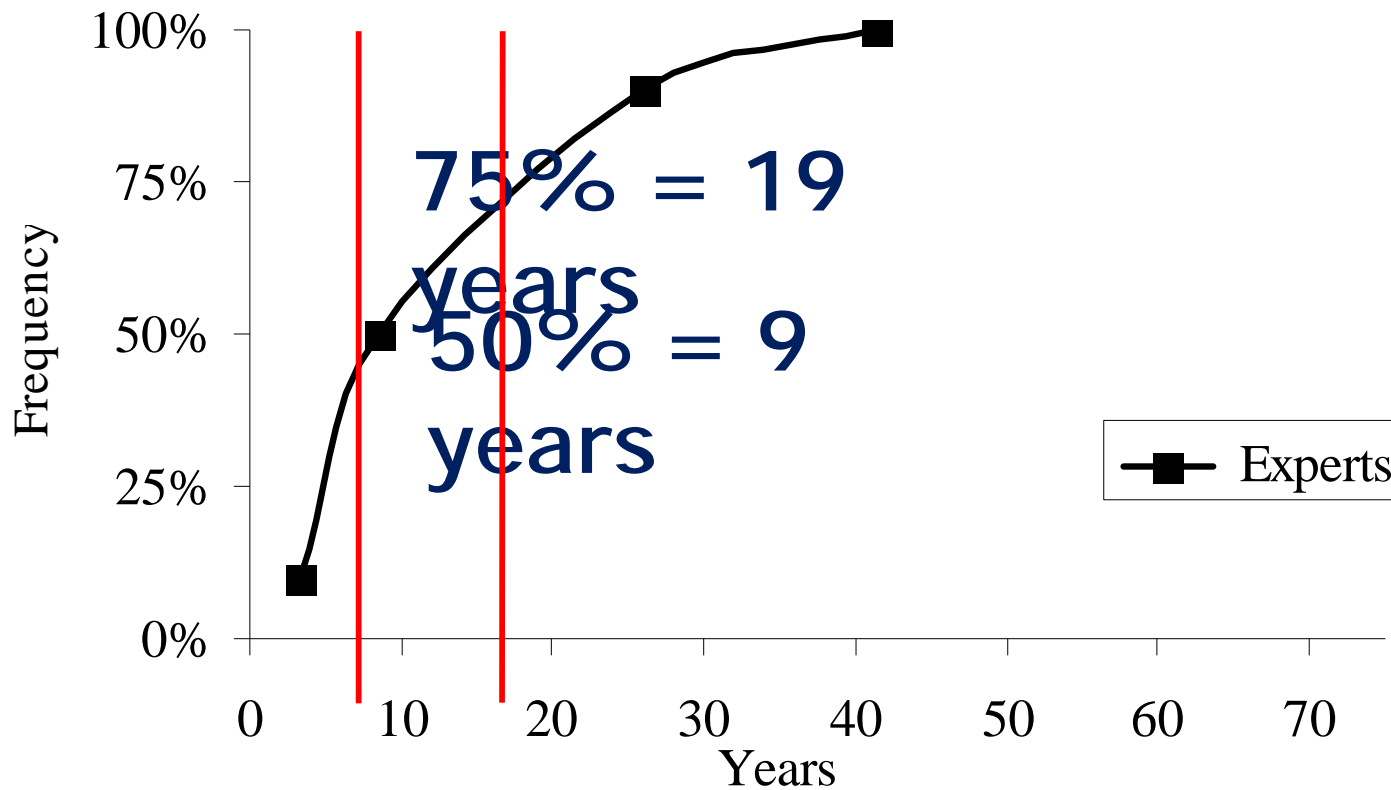


5. Children are superspreaders

- Children younger than 12 years can *shed the virus for up to 6 days before onset of symptoms, spreading influenza to others before their symptoms even surface, and they can shed the virus for 21 days, remaining infective long after recovering from illness.*
- Families with school-age children have an average of *one-third of the family members infected each year (US data).*
- *School-aged children will have the highest rates of illness (about 40%) , they will shed the greatest amount of virus, and are likely to pose the greatest risk for transmission (US national pandemic influenza plan assumptions).*

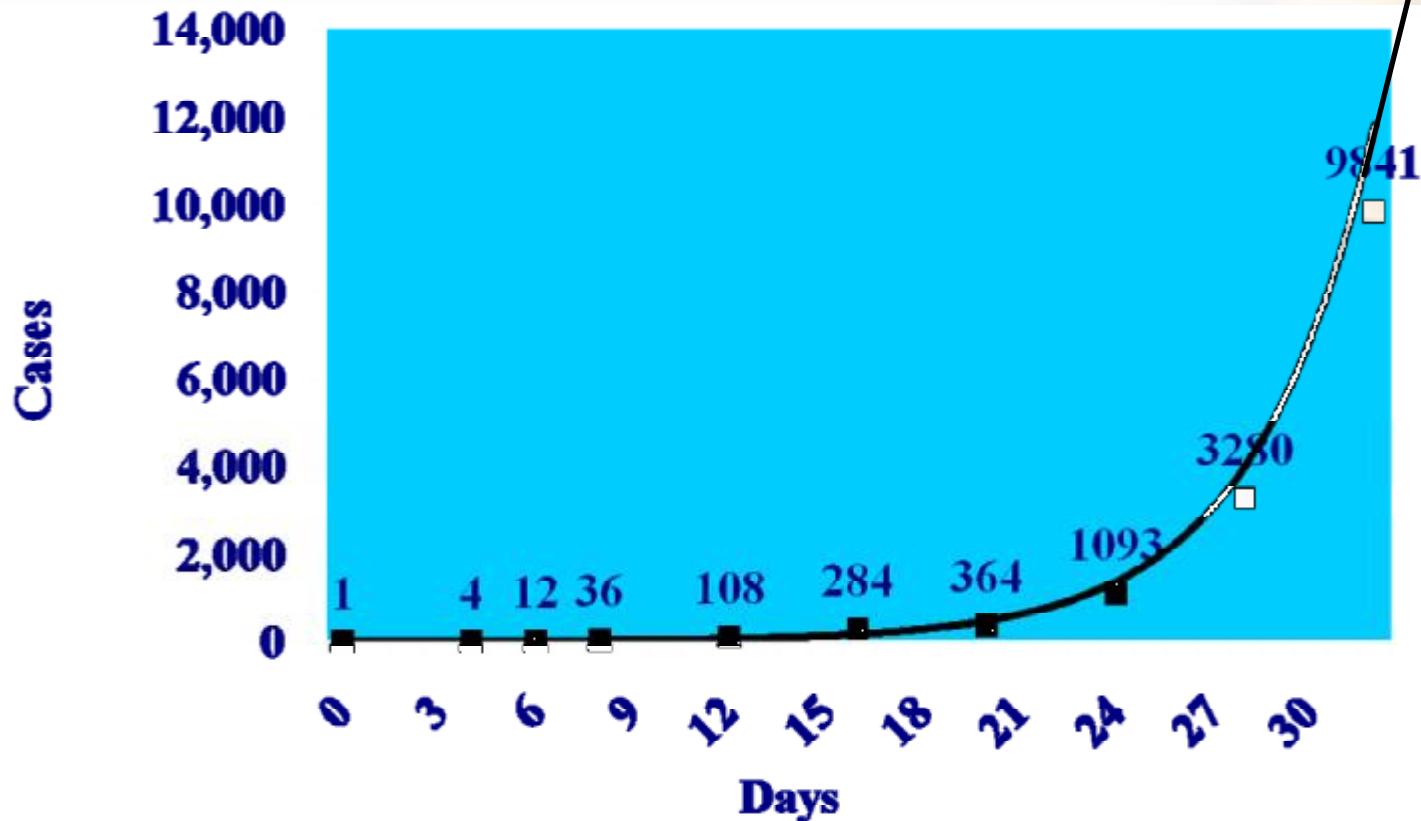
U.S. Experts opinions - November 2005

When will a pandemic occur?



Theoretical Spread of Human Influenza H5N1

Basic Reproductive number, $R_0 = 3$



$\frac{\text{days}}{\text{cases}}$
 $\frac{45}{363} = 2,39$
 $\frac{42}{24} = 797,$
 $\frac{39}{07} = 265,$
 $\frac{36}{96} = 88,5$
 $\frac{33}{33} = 29,5$

Experts November 2005

Health Impact of Pandemic Influenza

Cases 650 – 2,800 million

Deaths 25 - 165 million



What?



Community-Based Emergency Preparedness
and Response Planning
for
Pandemic Influenza in
Educational Institutions

School Emergency Preparedness and Response Planning

1. Development of a participatory approach for a school/community based process for disaster risk management analysis (in Thailand)
2. Development and testing of school-based emergency/disaster preparedness and response plans (EPRP) for coping with pandemic influenza and other emergencies (in Thailand)
3. Field testing of EPRP formulation process in 39 schools from all 5 regions of Thailand
4. Production and dissemination of guidelines for school-based EPRPs in Thailand to all 33,000 schools
5. Training for 179 education service area offices and Provincial Health Offices on school-based EPRP implementation (Thailand)

School Emergency Preparedness and Response Planning

6. Translation into English and dissemination to GMS countries
7. Agreement with UNICEF/Vietnam and MOET to organize a workshop to adapt the Thailand participatory process for a school/community based process for disaster risk management analysis to the Vietnamese context
8. Agreement with UNICEF/Vietnam to co-sponsor training on testing of school-based emergency/disaster preparedness and response plans (EPRP) for coping with pandemic influenza and other emergencies in all 64 provinces
9. Future: Production and dissemination of guidelines for school-based EPRPs for disasters and pandemic influenza in Vietnam.

*Guidelines for Management of School Emergency
Preparedness and Response Plans for Pandemic
Influenza for School Administrators*

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Forward by Minister of Education

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- Curriculum/teacher guide development
- Pre-testing of materials
- Teacher orientation/training/on-site
follow-up in 39 schools from all 5 regions
- Distribution to all 33,000 schools in
Thailand
- Training of supervisor support teams in all
175 school districts

Teacher's Guides: K, 1-3, 4-6, 7-9, 10-12



BAAM

9 Posters and CD-ROM



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Thank You

