Pandemic Influenza Checklists

Toby L Merlin, MD

Deputy Director, Influenza
Coordination Unit
Center for Disease Control and
Prevention





Objectives of Presentation

- Overview of US Government Pandemic Influenza Checklists
 - Purpose
 - Format
 - Details
 - Strengths and weaknesses
- Why bother with pandemic influenza checklists (or preparedness)?





Pandemic Influenza Challenges

- Illness and Death
- Increase/decrease demand for services
- Staff absenteeism
- Contagion
- Fear of contagion
- Disruption of transportation and distribution
- Social disruption





Pandemic Influenza Challenges

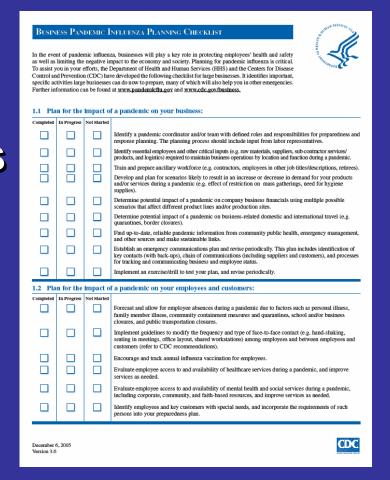
- Crisis environment, rumors, distortions
- Public health interventions
 - Personal protective equipment
 - Social distancing
 - Cancellation of mass gatherings
 - School dismissal
 - Distribution and administration of antivirals and vaccines





Pandemic Influenza Checklists

- Provide framework for action
- Identify key elements for planning
- Move from uncertainty to measured informed action







Approach to Checklists

- Small number of broad categories of actions
- Memorable organizational framework
- Mutually exclusive, collectively exhaustive categories – MECE
- Keep it simple, keep it short
- Include target audience in development





Format for Checklists

- Plan for impact on operations
- Protect employees, customers, others
- Establish policies
- Allocate resources
- Communicate and educate employees
- Coordinate with external organizations





US GOVERNMENT PANDEMIC INFLUENZA CHECKLISTS

January, 2008

- State and Local Public Health
- Individuals and Families
- Business
- US Business with Overseas Operations
- Childcare and Preschool
- School Districts
- Colleges and Universities
- Home Health Care
 - **Medical Offices and Clinics**





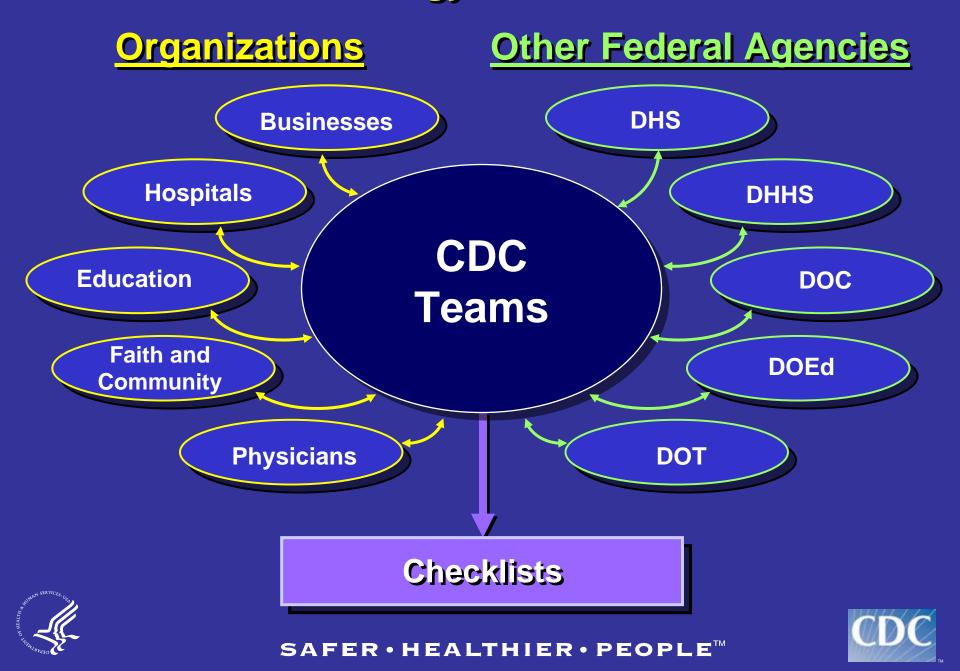
US GOVERNMENT PANDEMIC INFLUENZA CHECKLISTS

January, 2008

- Emergency Medical Service and Medical Transport
- Long Term Care and other Residential Care Facilities
- Faith-based and Community Organizations
- Law Enforcement
- Correctional Facilities
- Travel Industry
- Health Insurers
- Hospital (version 2)



Methodology for Checklists



US Government Pandemic Influenza Checklists

Strengths

- Initial early release
- Production driven by demand from target audiences
- Target audiences involved in production
- Successful format frequently copied

Weaknesses

- Government clearance eventually delayed release of later checklists
- Not linked to more detailed toolkits
- Not "living" documents





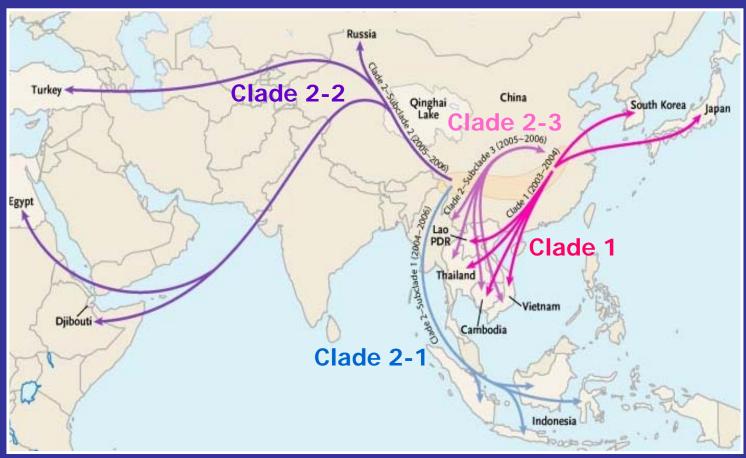
Why bother with pandemic influenza checklists?

Or pandemic influenza preparedness?





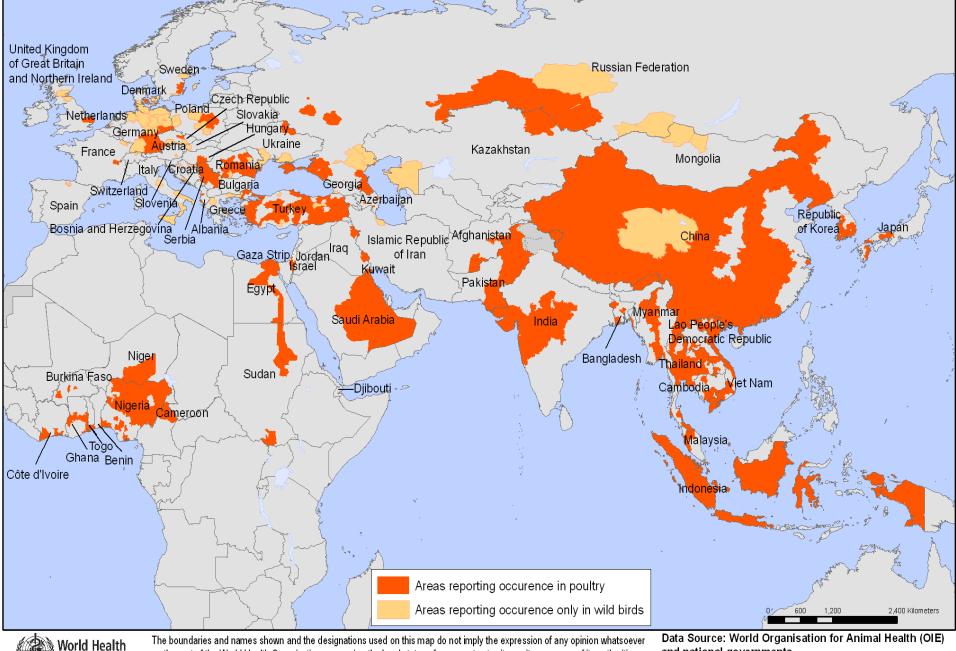
Spread of Influenza A(H5N1) Viruses



Webster RG, Govorkova EA. N Engl J Med. 2006; 355: 2174-7.







© WHO 2007. All rights reserved

Organization

on the part of the World Health Organization concerning the legal status of any country, territory, city or area or of its authorities, or concerning the delimitation of its frontiers or boundaries. Dotted lines on maps represent approximate border lines for which there may not yet be full agreement.

Data Source: World Organisation for Animal Health (OIE) and national governments

Map Production: Public Health Mapping and GIS

International Health Regulations Coordination, World Health Organization

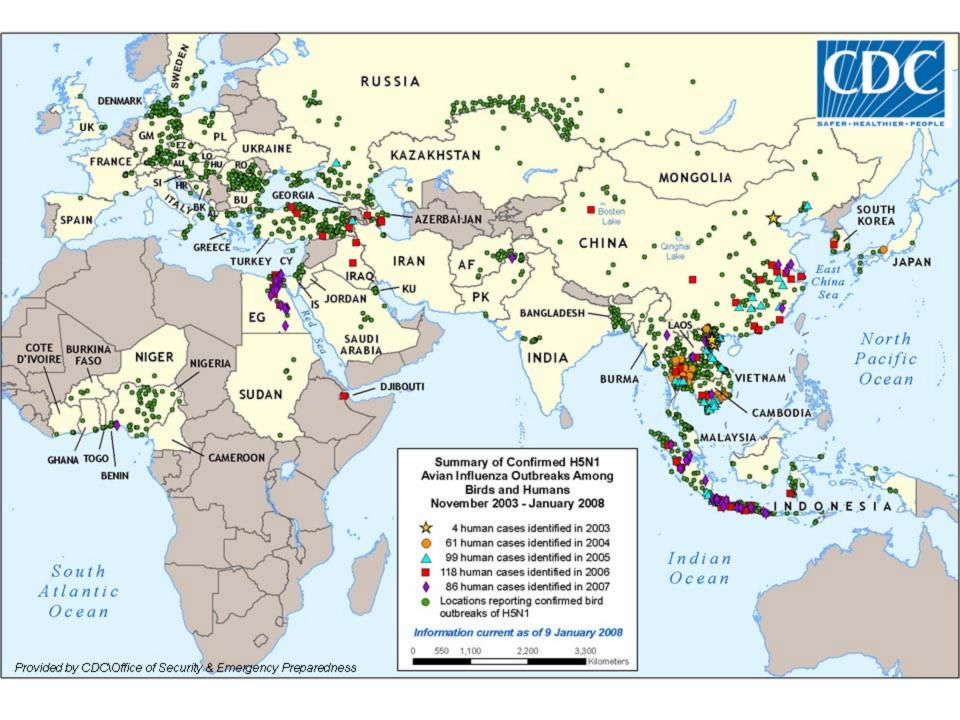
Cumulative Number of Confirmed Human Cases of Avian Influenza A/(H5N1) Reported to WHO

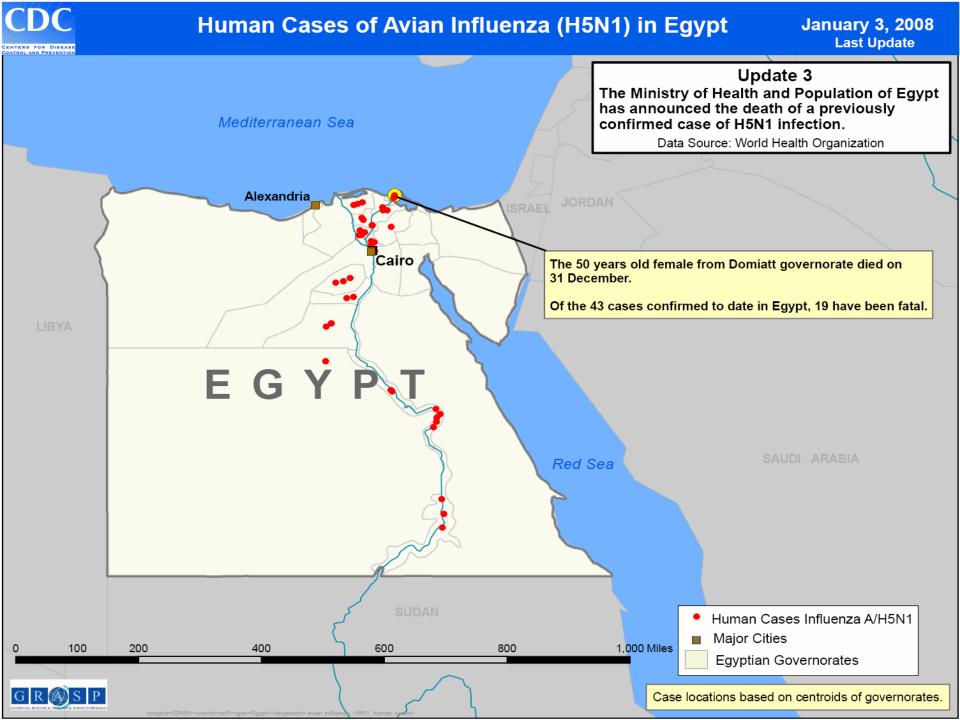
11 January 2008

Count	c2003de		2004		2005		2006		2007		Total	
ry	se	ath	cas es	deat hs	cas es	deat hs	cas es	deat hs	cas es	deat hs	cas	dea ths
Azerb	0 ^S	0 ^S	0	0	0	0	8	5	0	0	8	5
Gi jam b odia	0	0	0	0	4	4	2	2	1	1	7	7
China	1	1	0	0	8	5	13	8	5	3	27	17
Djibou	0	0	0	0	0	0	1	0	0	0	1	0
Egypt	0	0	0	0	0	0	18	10	25	9	43	19
Lao	0	0	0	0	20	13	55	45	42	36	117	94
eşia fr eq pl	0	0	0	0	0	0	3	2	0	0	3	2
e's Demo cratic	0	0	0	0	0	0	0	0	2	2	2	2
viyan Repub	0	0	0	0	0	0	0	0	1	0	1	0
ingeri ic aakist	0	0	0	0	0	0	0	0	1	1	1	1
Thaila	0	0	0	0	0	0	0	0	1	1	1	1
M drke	0	0	17	12	5	2	3	3	0	0	25	17
Viet	0	0	0	0	0	0	12	4	0	0	12	4
	3	3	29	20	61	19	0	0	8	5	101	47
Nam Total	4	4	46	32	98	43	115	79	86	58	349	216

Total number of cases includes number of deaths. WHO reports only laboratory-confirmed cases..All dates refer to onset of illness.







Human Cases of Avian Influenza (H5N1) in Indonesia

December 26, 2007 Last update

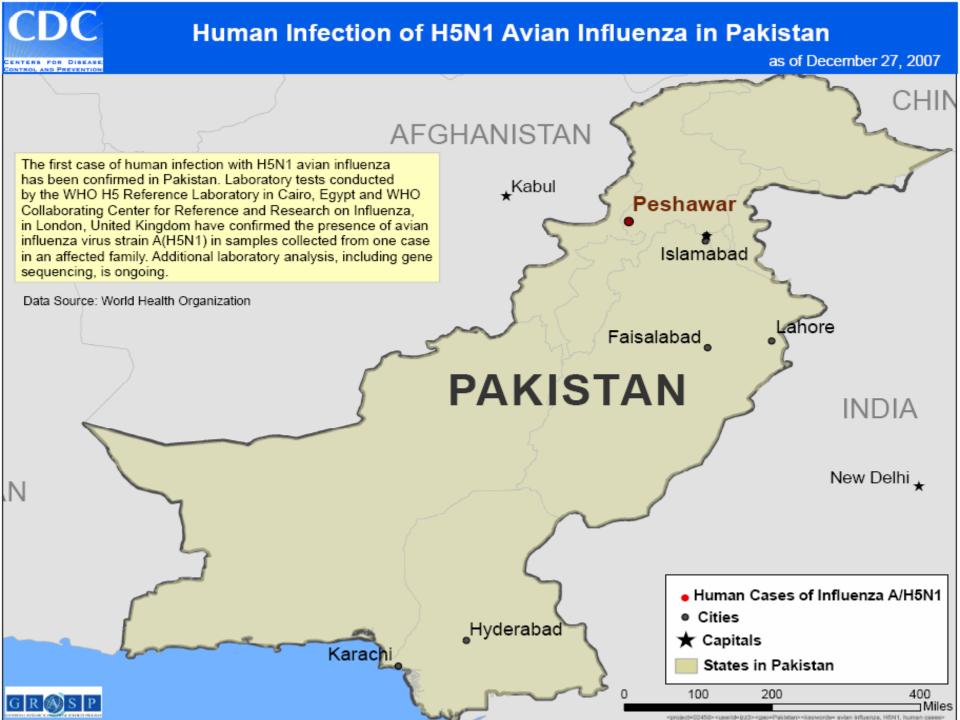
1.500



1 000

250

500



Investigation of potential arrival of H5N1 human infection in US

- At 3:30pm on Friday, December 7, 2007 CDC was notified by New York State Public Health of a 38-yo male who returned from Pakistan after possible exposure to H5N1 infection and was hospitalized in Nassau County, NY on December 6.
- Aggressive domestic and international investigation followed.





Events Leading to CDC Notification

Oct - November 2007							
28	29	30	31	1	2	3	
4	5	6	7	8	9	10	
11	12	13	14	15	16	17	
18	19/	20	21	22	23	24	
25	26	27	28	29	30		

2	3	4	5	6	7	8		
December 2007								





Why bother with pandemic influenza checklists?

Risk of severe influenza pandemic remains a very real threat!





