



RIC 2007

**Preparedness for
Pandemic Influenza**

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The Burden of Influenza

Seasonal Influenza

- Globally: 250,000 to 500,000 deaths each year
- In the United States each year:
 - 36,000 deaths
 - >200,000 hospitalizations
 - \$37.5 billion in economic costs from influenza and pneumonia

Pandemic Influenza

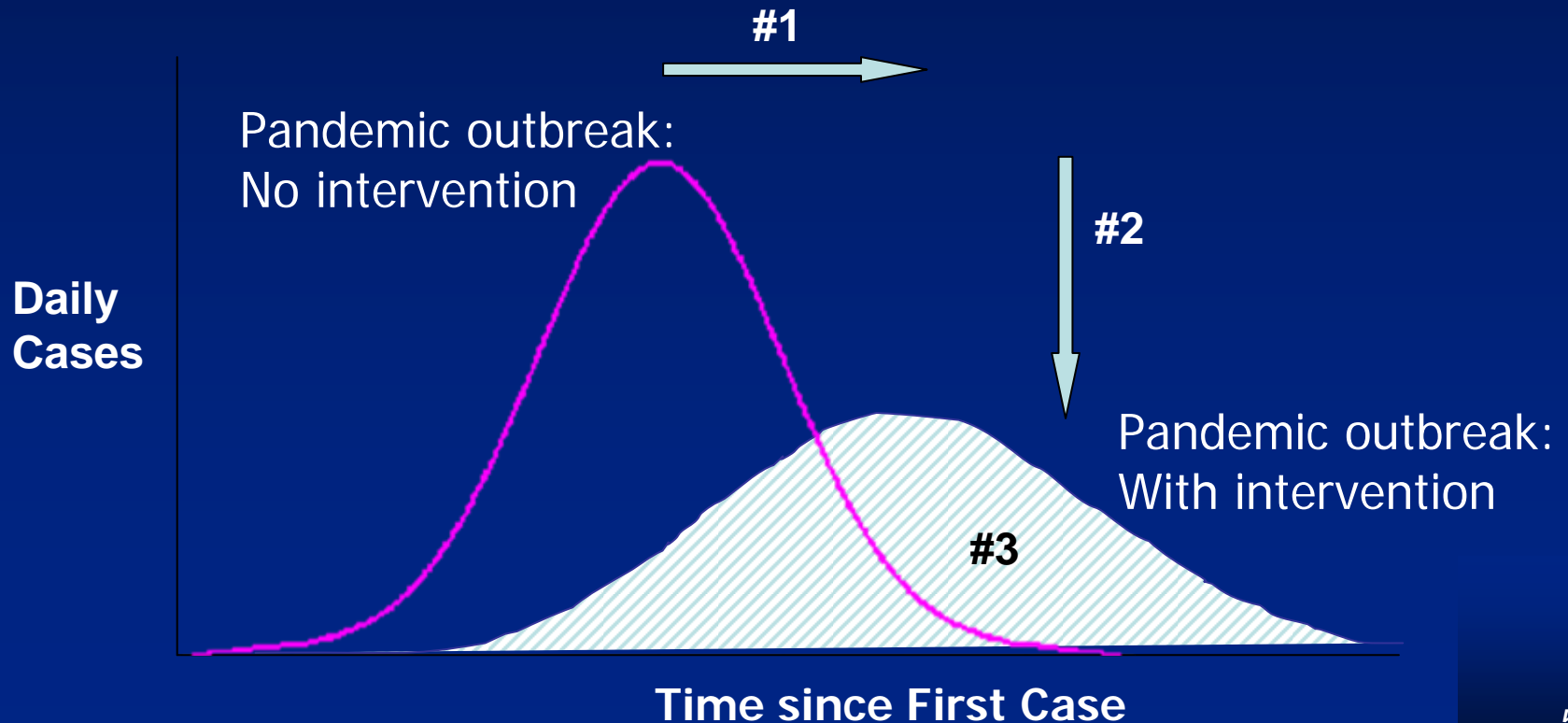
- Can happen any time of the year
- Attack rate of 30% as opposed to 2-20%
- Often comes in waves
- Can affect all age groups; not just high risk groups
- Higher severity of illness and higher risk of death

Overview of the Issues

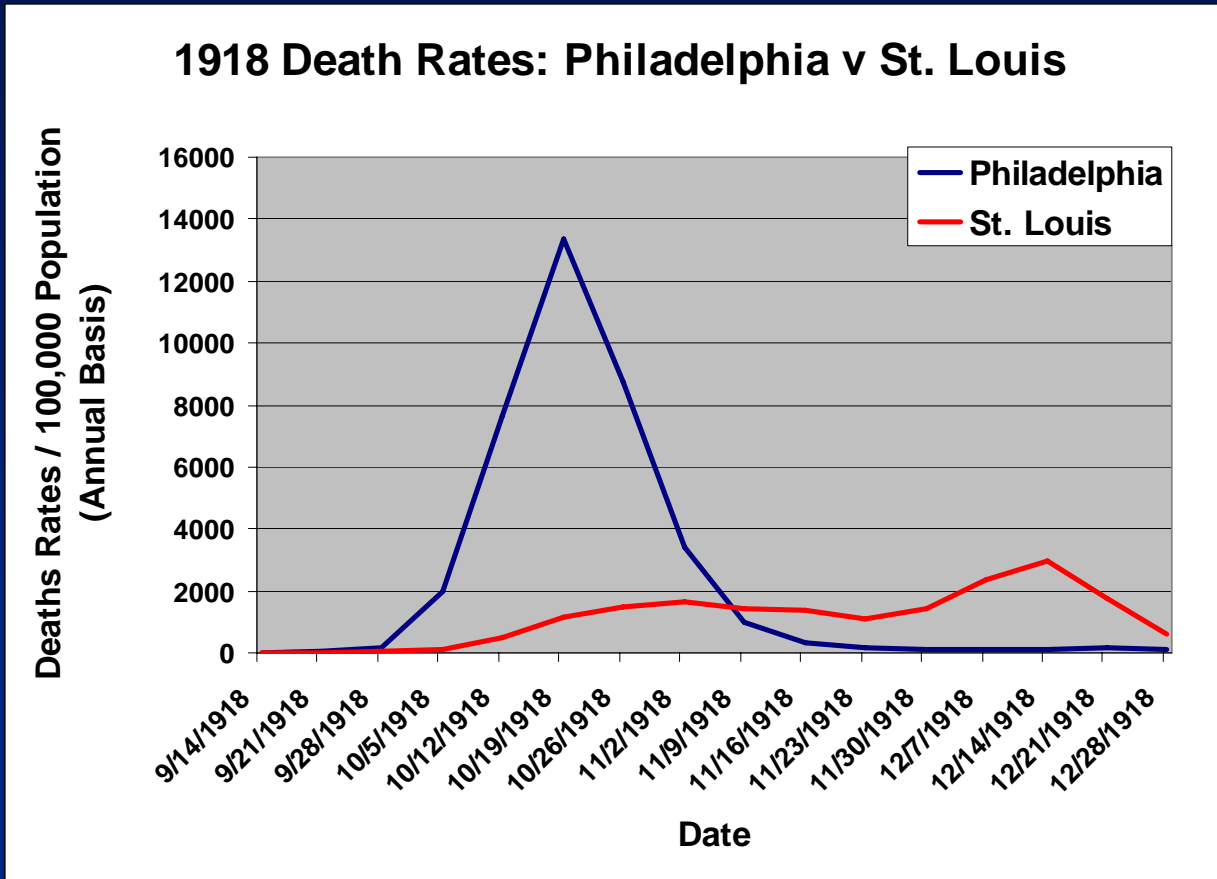
Characteristic	Moderate (1957/68-like)	Severe (1918-like)
Illness	90 million (30%)	90 million (30%)
Outpatient medical care	45 million (50%)	45 million (50%)
Hospitalization	865,000	9,900,000
ICU care	128,750**	1,485,000**
Mechanical ventilation	64,875**	742,500**
Deaths	209,000	1,903,000

Overarching Goals

1. Delay disease transmission and outbreak peak
2. Decompress peak burden on healthcare infrastructure
3. Diminish overall cases



Real Life Data

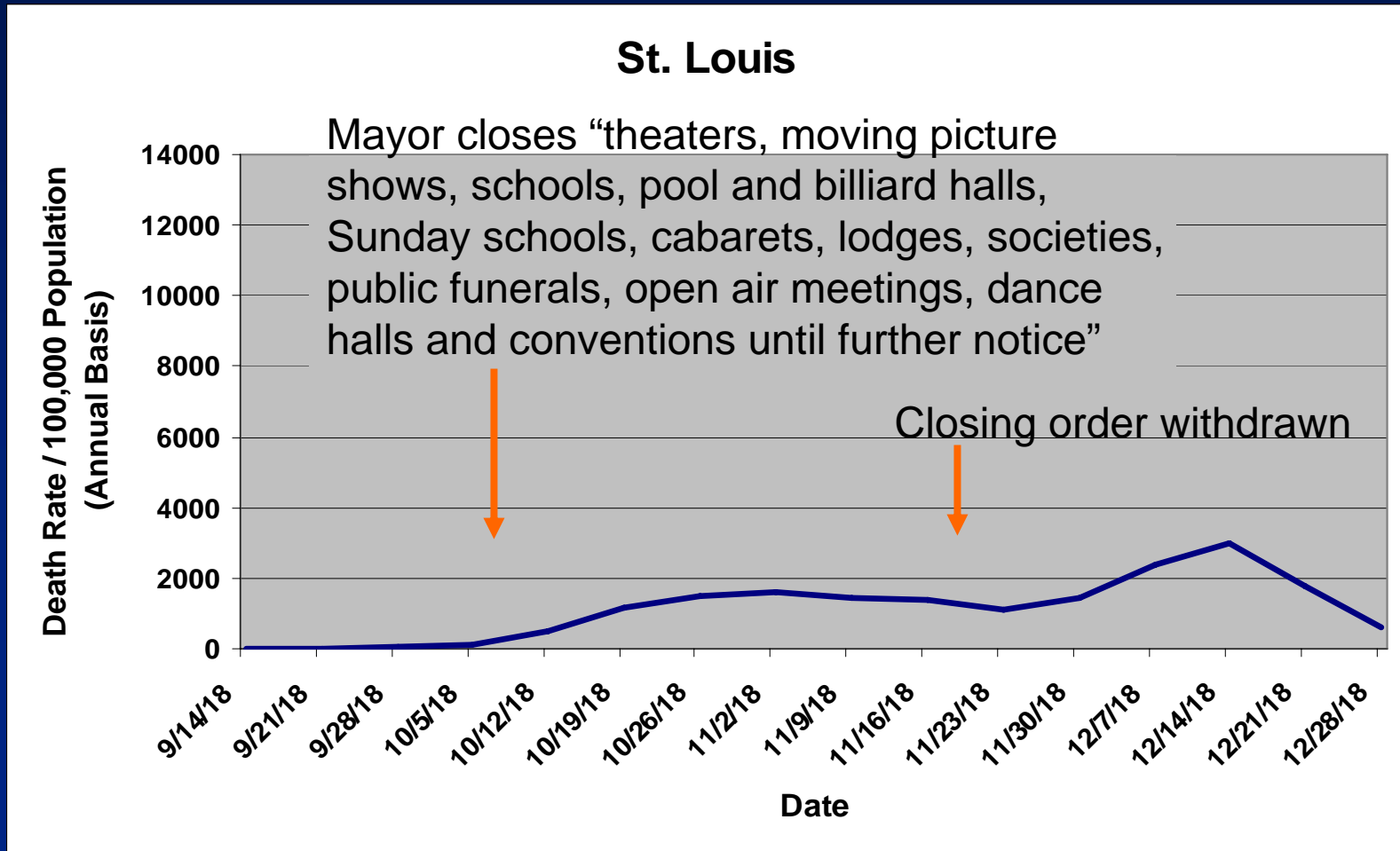


Philadelphia

Photo # NH 41730 F5L aircraft hull in Liberty Loan parade in Philadelphia, 28 Sept. 1918



St. Louis





HHS Goals

- Slow spread, decrease illness and death, buy time
 - Proposed Non-pharmaceutical Interventions at:
 - Home
 - School
 - Workplace/community
- Vaccine when available
- Local decisions
- Communicate, communicate, communicate!

State and Local Pandemic Influenza Planning Checklist

- ✓ Community Leadership and Networking
- ✓ Surveillance
- ✓ Health System Partnerships
- ✓ Infection Control and Clinical Care
- ✓ Vaccine Distribution and Use
- ✓ Antiviral Drug Distribution and Use
- ✓ Community Disease Control and Prevention
- ✓ Communications
- ✓ Workforce Support

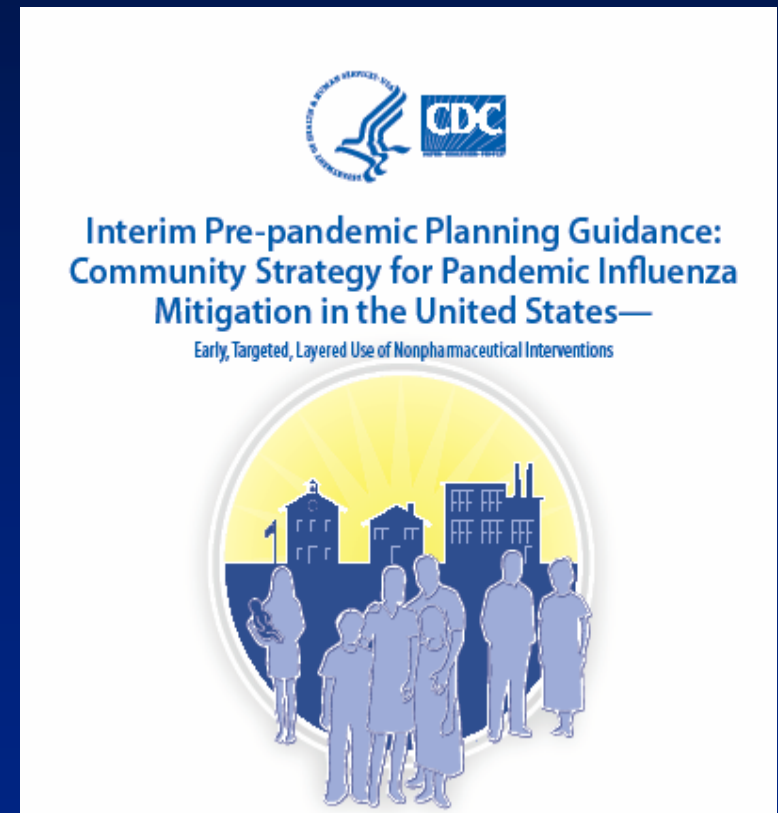
STATE AND LOCAL PANDEMIC INFLUENZA PLANNING CHECKLIST			
<p>Planning for pandemic influenza is critical. To assist you in your efforts, the Department of Health and Human Services (HHS) and the Centers for Disease Control and Prevention (CDC) have developed the following checklist. It identifies important, specific activities you can do now to prepare. Many are specific to pandemic influenza, but a number also pertain to any public health emergency.</p> <p>This checklist is based on the HHS Pandemic Influenza Plan, Public Health Guidance for State and Local Partners, but is not intended to set forth mandatory requirements. Each state and local jurisdiction should determine for itself whether it is adequately prepared for disease outbreaks in accordance with its own laws and procedures.</p> <p>Community Preparedness Leadership and Networking [Preparedness Goal 1—Increase the use and development of interventions known to prevent human illness from chemical, biological, radiological agents, and naturally occurring health threats.]</p>			
Completed	In Progress	Not Started	
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	• Establish a Pandemic Preparedness Coordinating Committee that represents all relevant stakeholders in the jurisdiction (including governmental, public health, healthcare, emergency response, agriculture, education, business, communication, community-based, and faith-based sectors, as well as private citizens) and that is accountable for articulating strategic priorities and overseeing the development and execution of the jurisdiction's operational pandemic plan.
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	• Delineate accountability and responsibility, capabilities, and resources for key stakeholders engaged in planning and executing specific components of the operational plan. Assume that the plan includes timelines, deliverables, and performance measures.
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	• Within every state, clarify which activities will be performed at a state, local, or coordinated level, and indicate what role the state will have in providing guidance and assistance.
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	• Assume that the operational plan for pandemic influenza response is an integral element of the overall state and local emergency response plan established under Federal Emergency Support Function 8 (ESF8): Health and medical service and compliant with National Incident Management Systems.
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	• Address integration of state, local, tribal, territorial, and regional plans across jurisdictional boundaries in the plan.
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	• Formalize agreements with neighboring jurisdictions and address communication, mutual aid, and other cross-jurisdictional needs.
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	• Ensure existence of a demographic profile of the community (including special needs populations and language minorities) and ensure that the needs of these populations are addressed in the operation plan.
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	• Address provision of psychosocial support services for the community (including patients and their families, and those affected by community containment procedures in the plan (see Supplement 11)).
<p>December 2, 2005 Version 4.4</p>			

The Strategic National Stockpile (SNS)

- CDC controlled
- Pre-positioning
- Medications, PPE, Medical Equipment
- Distribute to States and Tribes
- From State/Tribe to Individuals via PODs

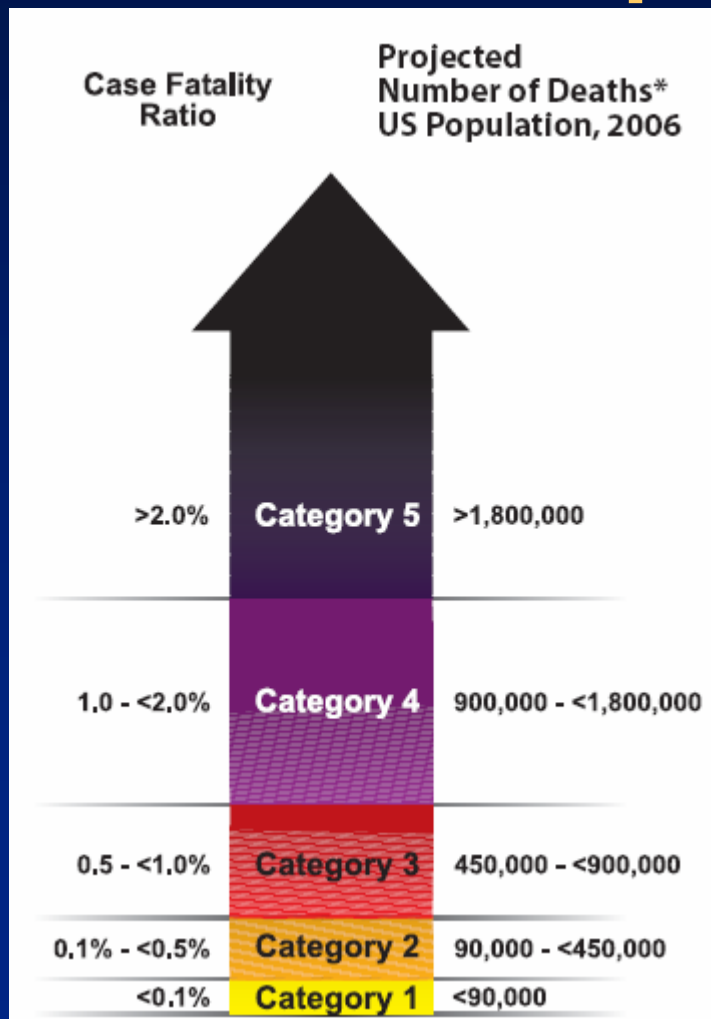
Things to Consider in YOUR Planning

- Minimum Safe/Effective Staffing
- Alternative Work Environments
- Pay and Other Benefits
- Ethics of Work Site Quarantine
- Local (Community) Leadership
- PODs-Opportunity for Engagement?
- Paperwork “Relief”
- Severity of Pandemic



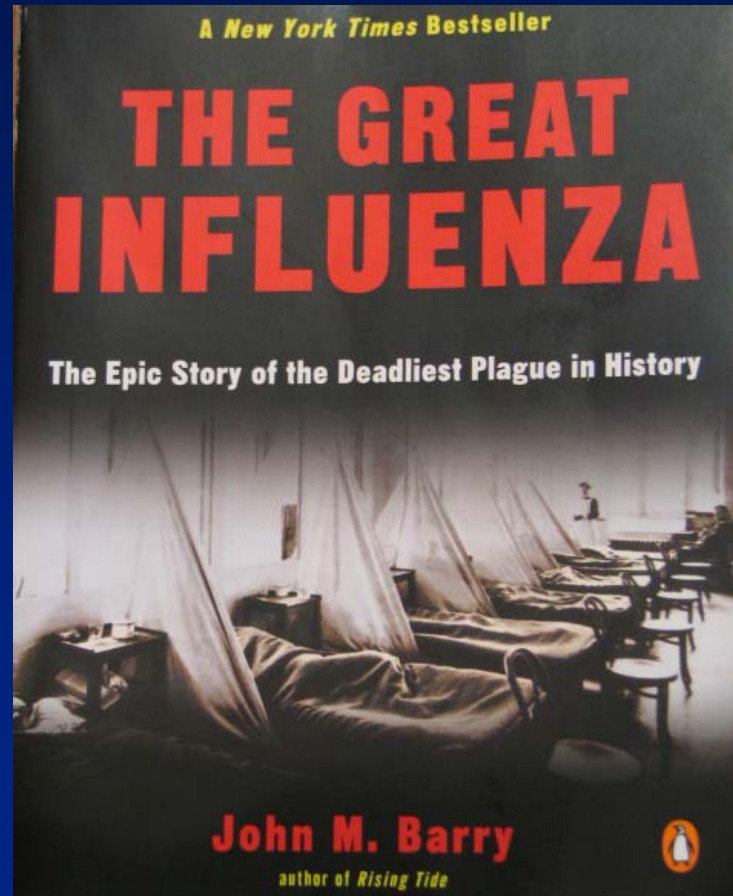
Appendix 4 - Pandemic Influenza Community Mitigation Interim Planning Guide for Businesses and Other Employers

Incorporating Severity



Interventions* by Setting	Pandemic Severity Index		
	1	2 and 3	4 and 5
Home Voluntary isolation of ill at home (adults and children); combine with use of antiviral treatment as available and indicated	Recommend†§	Recommend†§	Recommend†§
Voluntary quarantine of household members in homes with ill persons¶ (adults and children); consider combining with antiviral prophylaxis if effective, feasible, and quantities sufficient	Generally not recommended	Consider**	Recommend**
School Child social distancing -dismissal of students from schools and school based activities, and closure of child care programs -reduce out-of-school social contacts and community mixing	Generally not recommended	Consider: ≤4 weeks††	Recommend: ≤12 weeks§§
Workplace / Community Adult social distancing -decrease number of social contacts (e.g., encourage teleconferences, alternatives to face-to-face meetings) -increase distance between persons (e.g., reduce density in public transit, workplace) -modify postpone, or cancel selected public gatherings to promote social distance (e.g., postpone indoor stadium events, theatre performances) -modify work place schedules and practices (e.g., telework, staggered shifts)	Generally not recommended	Consider	Recommend

Questions/Discussion



BACK UP SLIDES



Avian Influenza Update

- ✓ Widespread and spreading prevalence in migratory birds; broad host range
- ✓ Continued outbreaks among domestic poultry
- ✓ Mammalian infection (cats, pigs, etc.) lethal
- ✓ Virus is evolving
- ✓ Sporadic human cases (269 reports to date)
 - Most in young and healthy
 - Case-fatality 58%
 - Rare person-to-person transmission (confirmation issue)

Sustained and rapid person-to-person transmission

Major Planning Assumptions

- Planning for a 1918–like pandemic
- Incident of National Significance determined at US Stage 2
- Federal public health and medical assistance provided to States, Tribes and Territories will be coordinated by HHS/ASPR
- Public health and medical support to Foreign nations and international organizations will be coordinated by HHS/ASPR/OGHA and DOS
- HHS can expect States, Tribes and Territories to request traditional and non-traditional public health and medical assets
- Military and Federal healthcare facilities will be overwhelmed

PI and the SNS

- Stockpile
 - Tamiflu: 21.6 million adult regimens in SNS with 7.9 million ordered
 - Tamiflu oral suspension: 20,500 regimens in SNS with 75,140 ordered
 - Relenza: 84,000 regimens in SNS with 6 million ordered
 - Pre-pandemic Vaccine
 - Pandemic Vaccine?
 - Ventilators
 - Masks/Needles/Syringes/Gloves