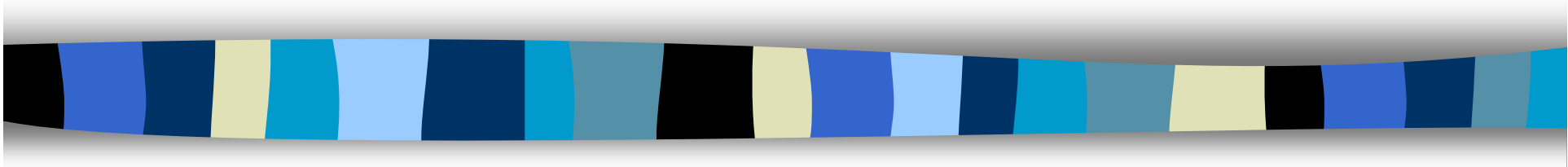


Preparing for Pandemic Influenza



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City of Berkeley

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Today's Topics

- Pandemic Influenza 101
- Flu...in Berkeley?
- Public Health Measures in Pandemic
- Councilmember Role in Pandemic

Pandemic Influenza

- New influenza virus
- No one has immunity
- Spreads easily from person to person

- Likely to spread rapidly
- Worldwide epidemic
- Many ill, many deaths

Why are we worried now?

- H5N1 avian influenza (“bird flu”)
 - Infected birds and poultry: Asia, Europe, Africa
 - Human cases, but no sustained human-to-human transmission
 - High fatality rate (>50%) in humans

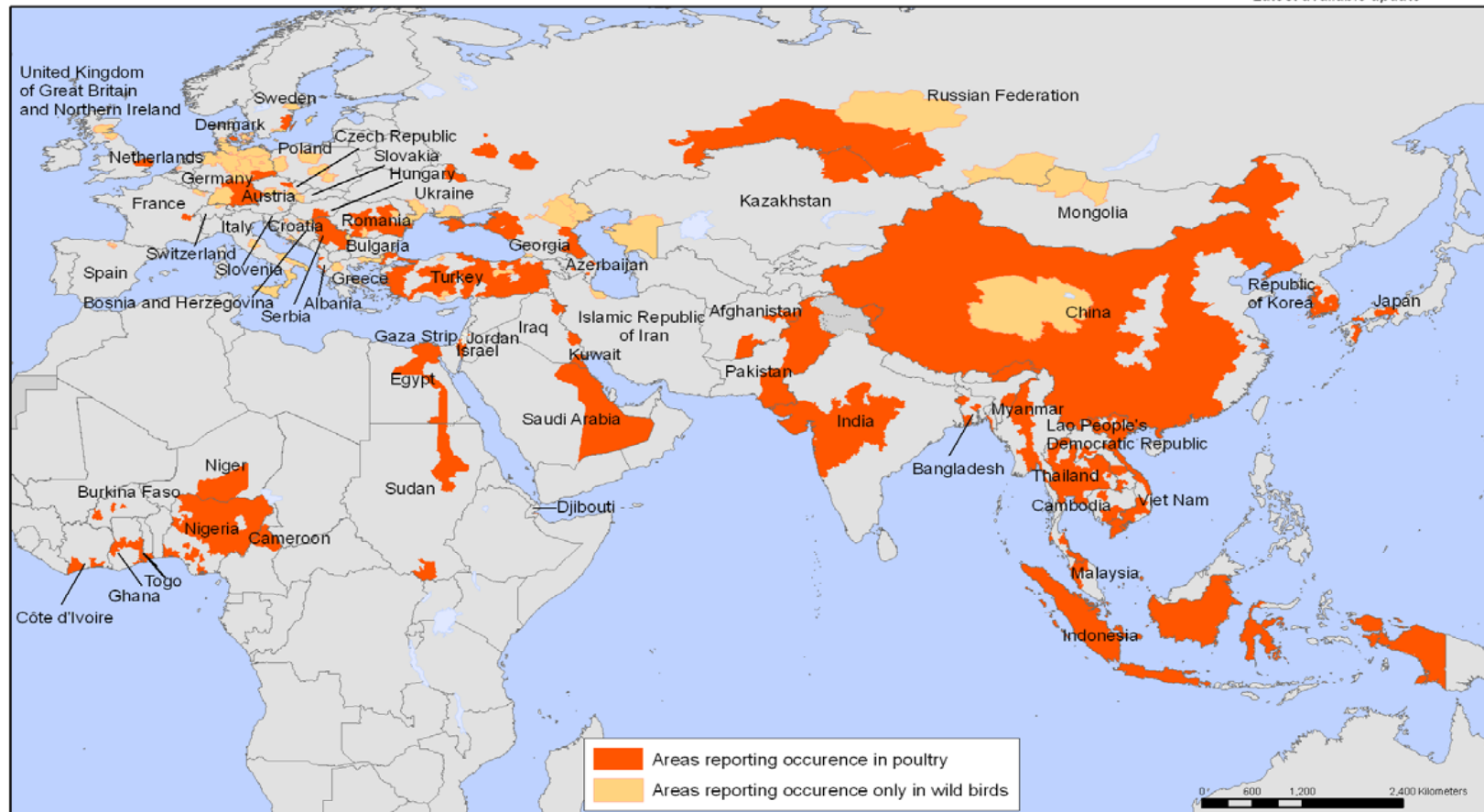
- Requires only mutation to allow efficient human to human transmission

- Global travel
 - Bay Area gateway to Asia

H5N1 influenza in poultry and wild birds since 2003

Areas reporting confirmed occurrence of H5N1 avian influenza in poultry and wild birds since 2003

Status as of 27 September 2007
Latest available update



 **World Health Organization**
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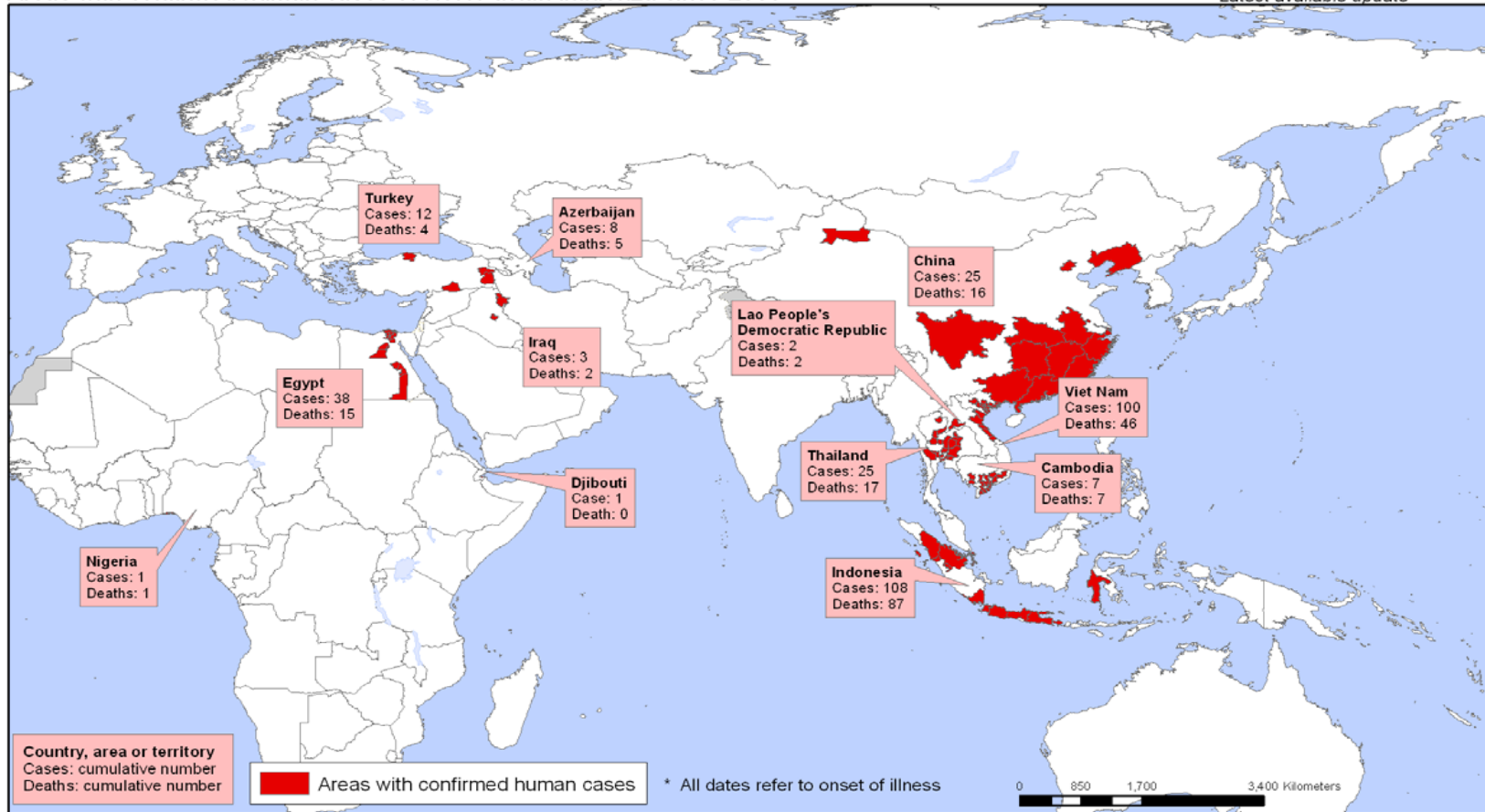
The boundaries and names shown and the designations used on this map do not imply the expression of any opinion whatsoever on the part of the World Health Organization concerning the legal status of any country, territory, city or area or of its authorities, or concerning the delimitation of its frontiers 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
Communicable Diseases (CDS) World Health Organization

H5N1 Influenza in Humans since 2003

Areas with confirmed human cases of H5N1 avian influenza since 2003 *

Status as of 08 October 2007
Latest available update



World Health Organization

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Pandemic Flu vs. Earthquake

- Impacts human resources vs. physical infrastructure
- Requires different response
- Different timeline – sustained operations
- Limited outside assistance - YOYO
- What's similar?
 - We know it will happen, but we can't predict exactly when, where it will start, or how severe it will be

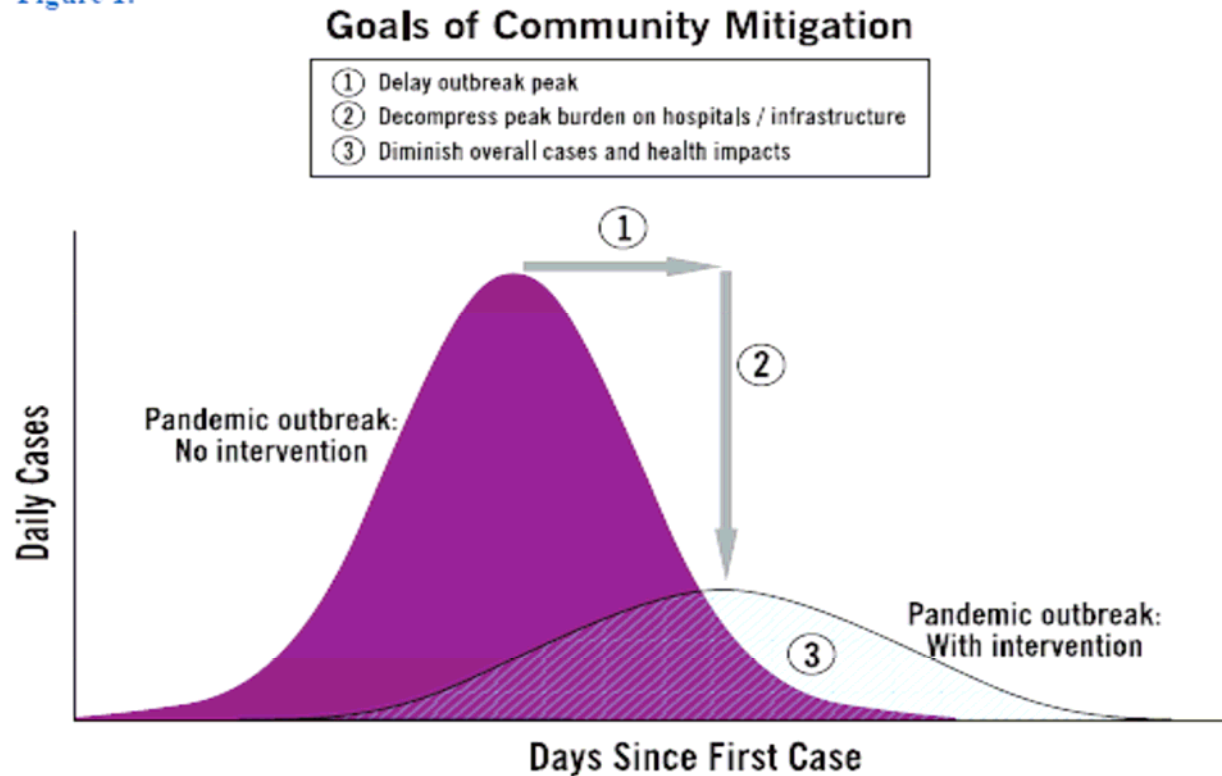
Assumptions in Pandemic Flu Planning

- 2-3 waves over 18 – 24 months, each 8-12 weeks
- 30-50% absenteeism (sick, caring for sick, afraid)
- Vaccine – not available 1st wave, then not enough
- Antiviral medications – limited supply, ? Effective
- Medical resources overwhelmed

Goals for Response to Pandemic Flu

- Minimize illness, suffering, and death
- Minimize economic and social impact

Figure 1.



Public Health Measures in Pandemic

- Surveillance
- Infection Control
- Non-pharmaceutical interventions
- Health care services modifications
- Public education, risk communication

Health Officer Authority in Public Health Emergencies

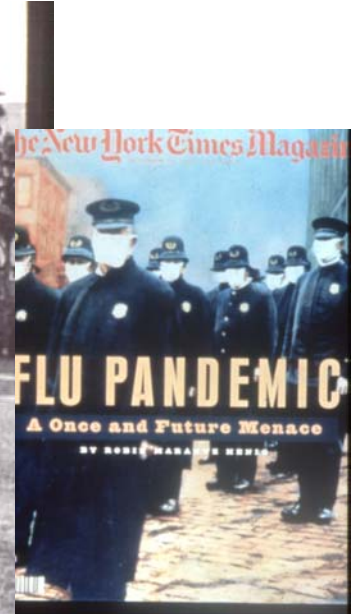
- A local emergency means...“extreme peril to the safety of persons and property...caused by such conditions as air pollution, fire, flood, storm, *epidemic*, riot....”
- Health Officer Authority:
 - “Take measures as may be necessary to prevent the spread of the disease”
 - “Require...isolation, or quarantine, for any case of... communicable disease , when...necessary for the protection of the public health.”
- Local Health Officer has authority to declare local health emergency (SB 1430)

Surveillance

- How many cases and where?
- How severe and how fast-spreading?
- How are vulnerable populations affected?
- What is the status of health care resources?

Infection Control

- Wash your hands
- Home when you're sick
- Avoid touching eyes/nose/mouth
- Cover your cough
- Keep your distance from others
- Masks



Non-pharmaceutical Interventions

- Isolation and quarantine
 - Useful only very early in pandemic to buy a little time
- Social distancing
 - Six feet apart
 - Surgical masks
 - Altered workplace practices (e.g. telecommute)
- Limit public gatherings
 - Sports events, concerts, places of worship, etc.
 - Public transit guidance
- School dismissal

School Dismissal

- Day care, pre-school, K-12, college/university
- Who decides? Trigger?
- What do children do?
- What do parents do?
- What about essential workers?

Health Care Services Modifications

- Emphasis on home care
- “Community Care Centers”
- Altered standards of hospital care

Allocation of Scarce Resources

- Expect resource limitations
 - Medications and Vaccine
 - Masks
 - Hospital beds and Ventilators
- Who gets them? Who decides?
- Federal, State, and Regional (ABAHO) guidance is being developed
- Goal: equitable, transparent, consistent allocation

Public Education and Risk Communication

- “Hot line” for the public
- Messages
 - Infection control in the home and workplace
 - Home care instructions
 - Child care guidelines
 - Community resources
- Health care provider alerts
- Outreach to vulnerable populations

Implications of Public Health Measures

- Potential social and economic disruption
 - Possible essential service disruption
 - Unmet child care needs
 - Unmet health care needs
- Mental health issues
 - Fear, panic, rumors, stress
 - Youth “at loose ends” without structured activities
- Exacerbation of disparities/inequities
 - Unemployment; loss of benefits
 - Inequitable distribution of resources (real or perceived)
- Need for City-wide response

Continuity of Operations

- Identify and maintain essential services
- Reduce or discontinue non-essential (or less essential) services
- Maximize personnel availability
 - Workplace infection control
 - Cross training/reassignment
 - Telecommuting or staggered shifts

COB Pandemic Influenza Preparedness

- Collaboration (planning, exercises) with: BUSD, UC, ABSMC, LifeLong, LBNL, childcare, ACCMA
- Leadership tabletop exercise
- Pandemic Flu CERT module recently piloted; the first ever!
- Providers notified re: avian flu surveillance
- “WHACK” campaign in schools
- “Get Ready Berkeley” information distribution
- ABAHO regional pandemic flu planning
- Local and regional PIO coordination (JIC)
- Mask purchase
- City-wide COOP planning underway

Council Role in Pandemic

- Represent the City of Berkeley
 - Work with PIO to give clear, consistent, and accurate information
 - Honest, informative, balanced
 - Assist with reaching ALL constituents, including the most vulnerable or hard-to-reach
 - Understand and convey rationale for public health measures
 - Maintain public's confidence in city's response
- Ratify local declaration of emergency
- Ensure continuity of government

Flu...in Berkeley? Fall 2007 Exercise Goals

- Understand how pandemic differs from other disasters in needed response
- Practice public health leadership role in PH emergency
- Practice infection control measures in EOC
- PH staff drill on orders for school dismissal, social distancing and public messaging
- Engage partners in exercise