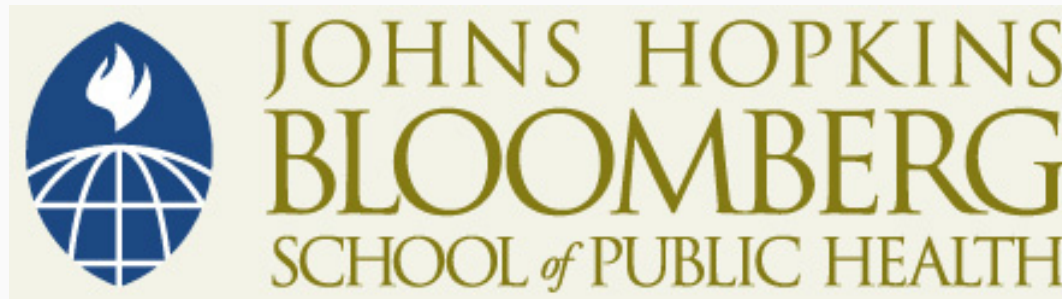


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The Impact of Pandemic Influenza on Public Health

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Johns Hopkins University

Part Six of Six

Where Are We?

Current WHO Phase of Pandemic Alert

Inter-Pandemic Phase: New Virus in Animals, NO Human Cases	Low Risk of Human Cases	1
	High Risk of Human Cases	2
Pandemic ALERT: New Virus Causes Human Cases	No or Very Limited Human-to-Human Transmission	3
	Evidence of Increased Human-to-Human Transmission	4
	Evidence of Significant Human-to-Human Transmission	5
PANDEMIC	Efficient and Sustained Human-to-Human Transmission	6

The Next Pandemic?

- Potential impact of the next pandemic (CDC)
 - 2-7.4 million deaths globally
 - In high-income countries . . .
 - ▶ 134-233 million outpatient visits
 - ▶ 1.5-5.2 million hospitalizations
 - ▶ ~25% increase in demand for ICU beds, ventilators, etc.

Planning Assumptions: U.S. Healthcare

- 50% or more of those who become sick will seek medical care
- Number of hospitalizations and deaths will depend upon the virulence of the pandemic virus

	Moderate (1957-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	745,500
Deaths	209,000	1,903,000

What Needs to Be Done?

- Surveillance
- Culling/domestic poultry vaccine issues
- Quarantine
- Vaccination against circulating flu
- H5N1 vaccine development
- Stockpiling of antivirals
- Quicker laboratory testing
- Stringent infection control practices
 - Hand washing disinfection, masks, etc.
- Masks
- Education
 - Vaccination, antivirals, masks, food safety, hand washing, disinfection, etc.
- Coordination
- Through planning and preparedness

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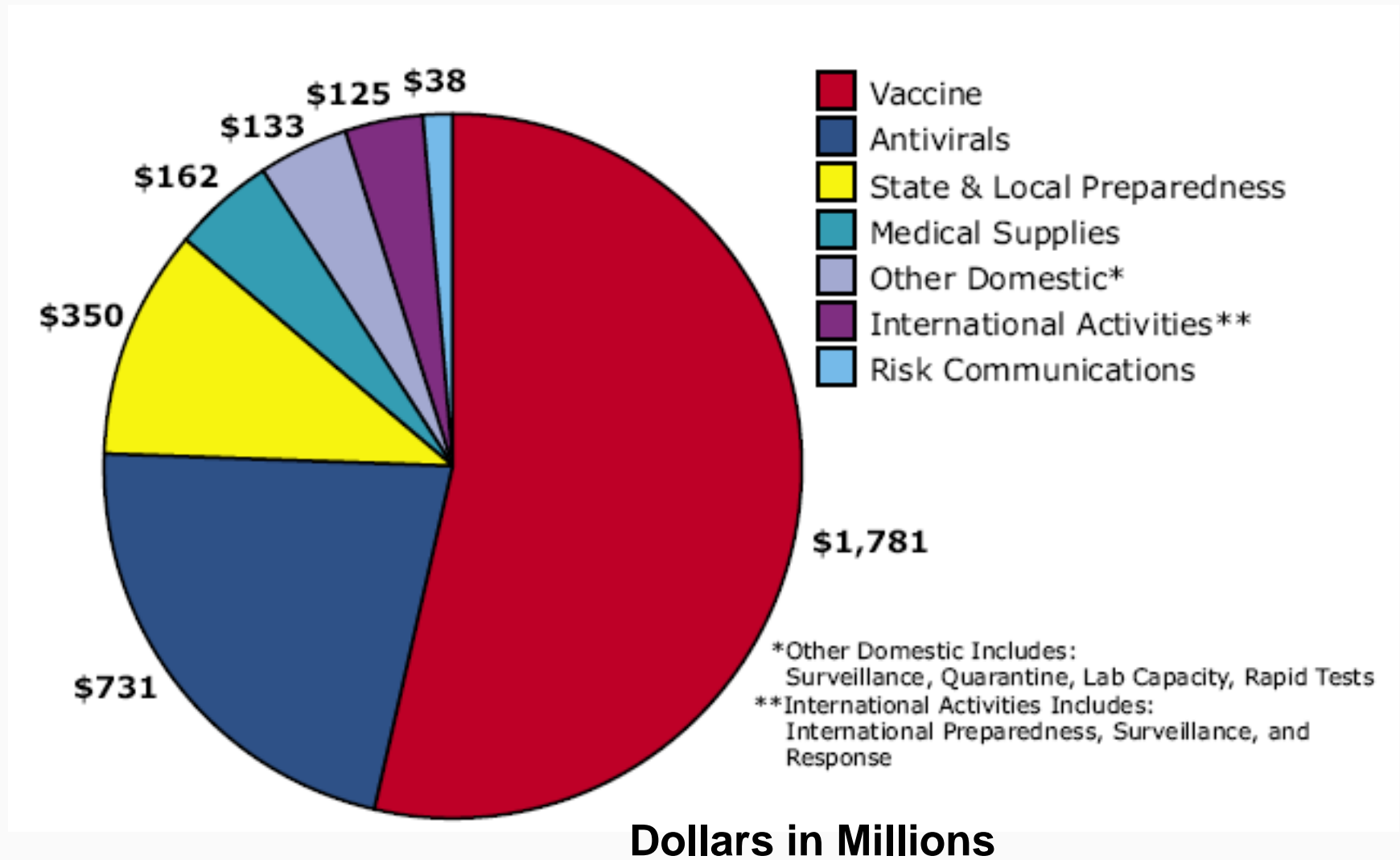
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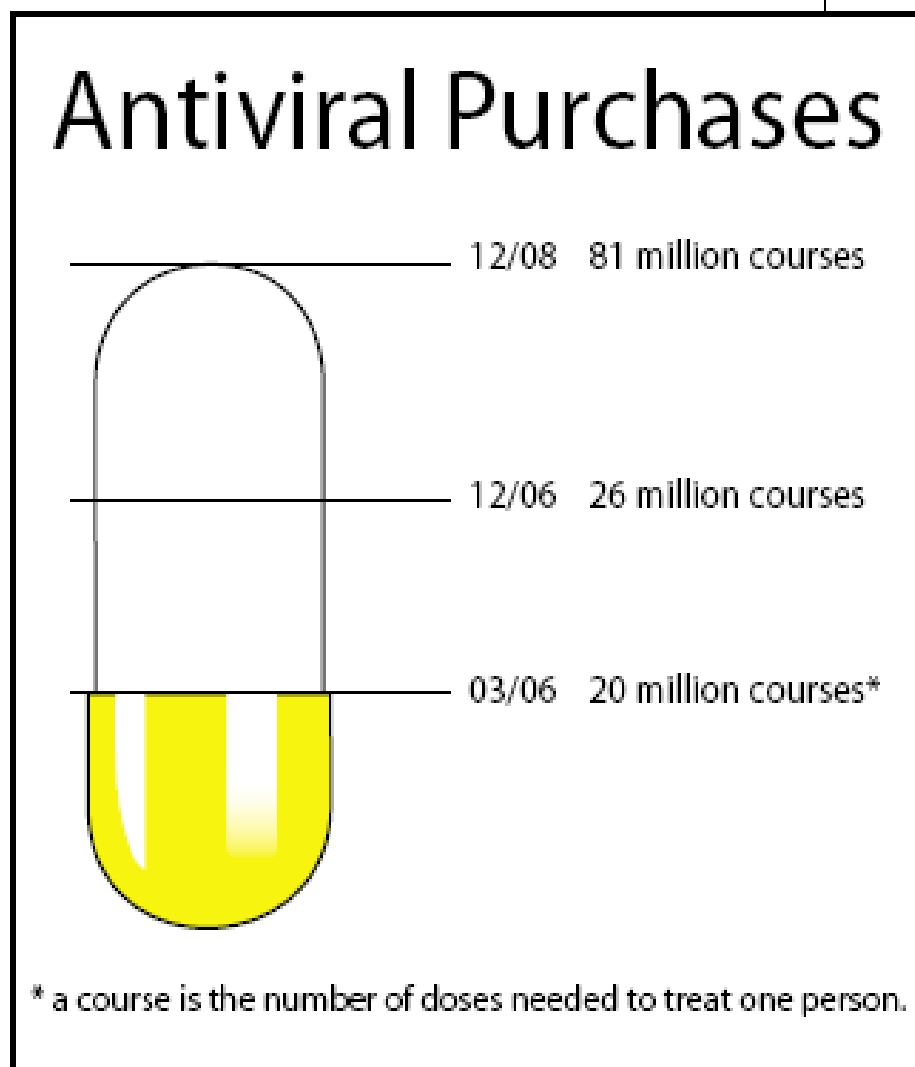
2004-05 U.S. Influenza Season: An Amazing Collaboration



U.S. Pandemic Influenza Plan Funding 2006 Appropriations

■ HHS allocations (\$3.3B)





Available Checklists:

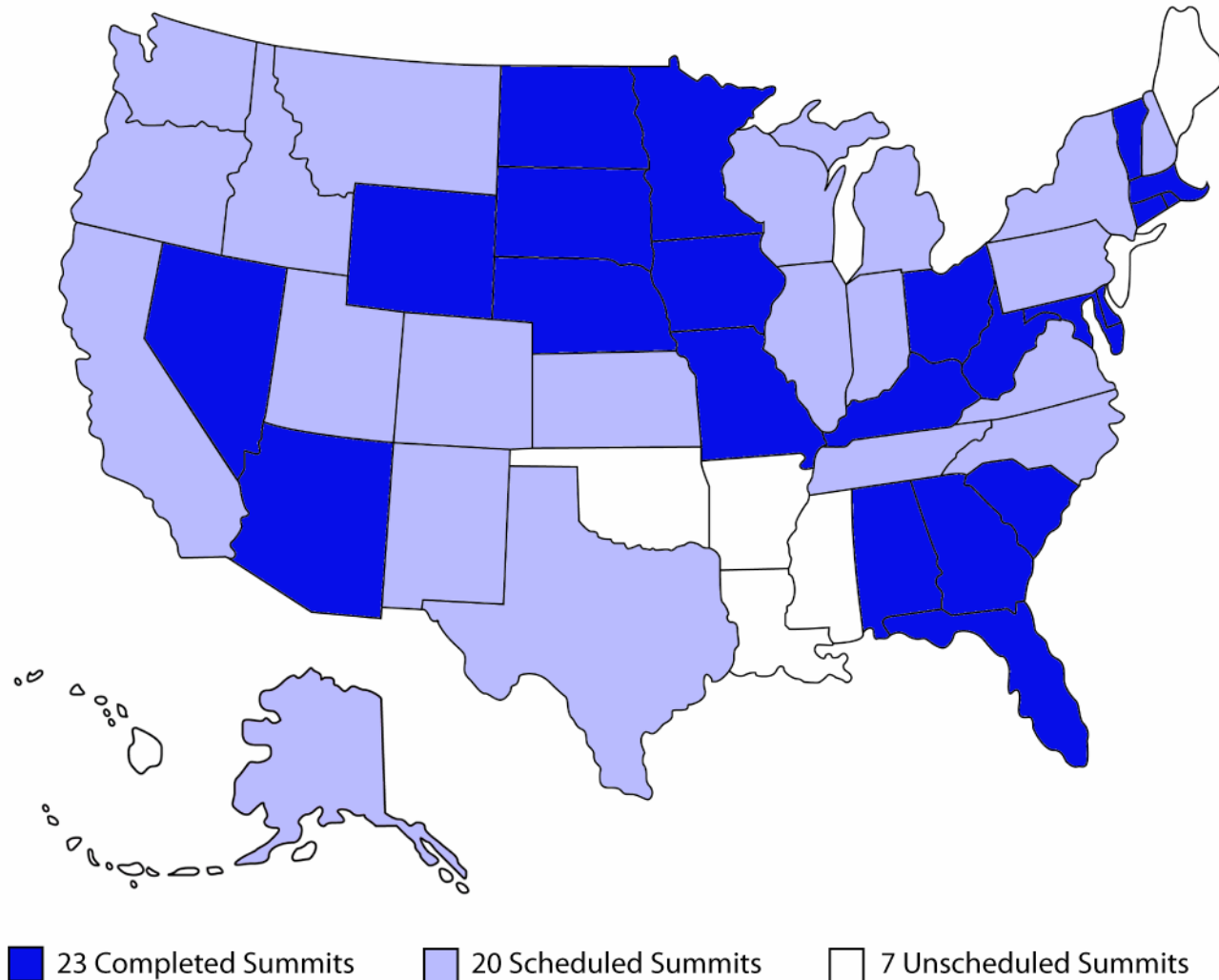
- State and Local
- Individuals and Families
- Business
- Schools (K-12)
- Faith-based and Community Organizations
- Medical Offices and Clinics
- Home Health Services

Upcoming Checklists:

- Emergency Medical Services
- Preschool
- Colleges and Universities
- Long Term Care
- Travel Industry
- Transportation



HHS Pandemic Planning - State Summit Overview



Take-Home Messages

- The threat to public health will remain so long as the virus continues to cause disease in domestic poultry
- The outbreaks in poultry are likely to take a very long time to control
- Should the final prerequisite for a pandemic be met, the consequences for human health around the world could be devastating
- Regardless of how the present situation evolves, the world needs to be better prepared to respond to the next influenza pandemic

Lessons Learned

- Timing has a lot to do with the outcome of a rain dance
- “The only thing more difficult than planning for an emergency is having to explain why you didn’t.”
- Be proactive, NOT reactive!!!!

Contact Information

- For additional information, please contact
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