

## Vaccines: A Perspective from the National Vaccine Program Office

Bruce G. Gellin, M.D., M.P.H.  
Director  
National Vaccine Program Office  
Office of Public Health and Science  
U.S. Department of Health and Human Services

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## National Vaccine Program

### Mission:

**“To achieve optimal prevention of human infectious diseases through immunization and to achieve optimal prevention of adverse reactions to vaccines.”**

(P.L. 99-660)



## NVPO: A Shared Vision of Vaccines and Immunizations

“Vaccine development and immunization efforts are dependent on an intricate system in which many public and private participants have traditional roles and responsibilities.

“Although some of these participants communicate regularly, the system lacks any formal means to coordinate the establishment and attainment of goals in the effort to combat infectious diseases.”

Source: Institute of Medicine -- Vaccine Supply and Innovation (1985)

**Notice to Readers: National Vaccine Advisory Committee Report on Strengthening the Vaccine Supply**

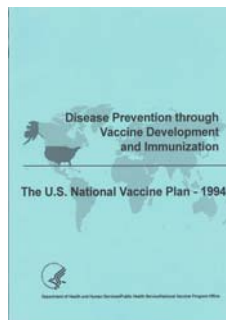
The National Vaccine Advisory Committee has released a report entitled “Strengthening the Supply of Routinely Recommended Vaccines in the United States: A Report of the National Vaccine Advisory Committee.” The report describes the immediate and contributing factors leading to the 2001–2002 vaccine supply shortages and outlines 12 recommendations to prevent future shortages. The report is available at <http://www.cdc.gov/od/ncv/ac/vvac-vsa.htm>

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## U.S. National Vaccine Plan: Goals

- Develop new and improved vaccines
- Ensure optimal vaccine safety and effectiveness
- Better educate the public and members of the health professions on the benefits and risks of immunization
- Achieve better use of existing vaccines to prevent disease disability and death



[http://www.cdc.gov/od/nvpo/vacc\\_plan/index.htm](http://www.cdc.gov/od/nvpo/vacc_plan/index.htm)

## Accelerated Vaccine Research and Development



<http://www.niaid.nih.gov/dmid/vaccines/jordan20>

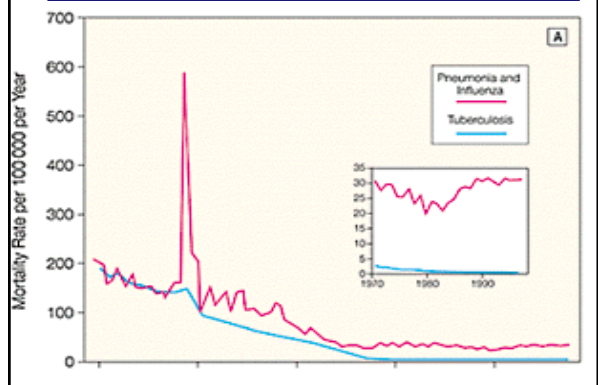
# Project BioShield

## Purpose:

- To accelerate the process of research, development, purchase, and availability of effective countermeasures against agents of bioterror.



# Pandemic Influenza Preparedness



# Pandemic Influenza Preparedness

“The pandemic clock is ticking, we just don’t know what time it is.”

Edgar Marcuse, MD

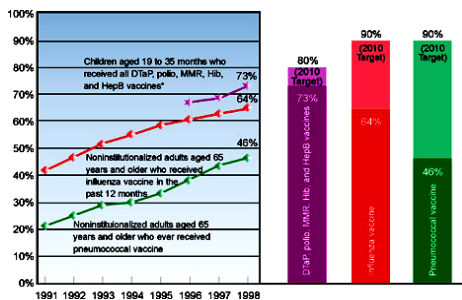
Chairman, National Vaccine Advisory Committee  
1994-1998



**World Health Organization**  
Emergency travel advisory  
**Severe Acute Respiratory Syndrome (SARS)**  
March 15, 2003

- More than 150 new suspected cases of Severe Acute Respiratory Syndrome, an atypical pneumonia for which cause has not yet been determined.
- Reports from Canada, China, Hong Kong Special Administrative Region of China, Indonesia, Philippines, Singapore, Thailand, and Viet Nam.

# Healthy People 2010: Achieving the Goal?



# Racial and Ethnic Disparities in Immunization Initiative (READII):

- Influenza Vaccine Coverage Rates\***
  - Caucasians: 68%
  - African Americans: 48%
  - Hispanics: 57%
- Pneumococcal Vaccine Coverage Rates\***
  - Caucasians: 60%
  - African Americans: 38%
  - Hispanics: 38%

\*Adults 65 years of age and older: 1999/2001



## The Basics of Pandemic Preparedness: Interpandemic Vaccination

Increase influenza and pneumococcal immunization rates in adults  
(Healthy People 2010)

Reduce racial and ethnic disparities  
(READII)



## Adult Immunization Program?



## Pandemic Influenza Preparedness: Assuring Vaccine Supply

### \$100 million (FY'04):

Work with industry to develop year round domestic influenza vaccine production capacity ... providing surge capacity needed in the event of a pandemic.”

### Global Health Security Action Group

Global influenza vaccine manufacturing capacity



## A Strong Foundation for Today's Challenges

“The real high technology of medicine ... is the kind that is so effective that it seems to attract the least public notice; it has become to be taken for granted... exemplified best by modern methods of immunization.”

Lewis Thomas  
*Lives of a Cell* (1974)