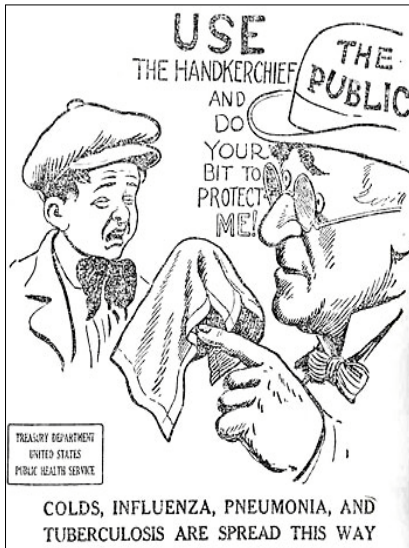


# 2009 H1N1 Vaccine and Immunization Strategy

2009 National Influenza Vaccine Summit  
June 29, 2009

Bruce G. Gellin, MD, MPH  
Director, National Vaccine Program Office



# Pandemic Vaccine Strategy

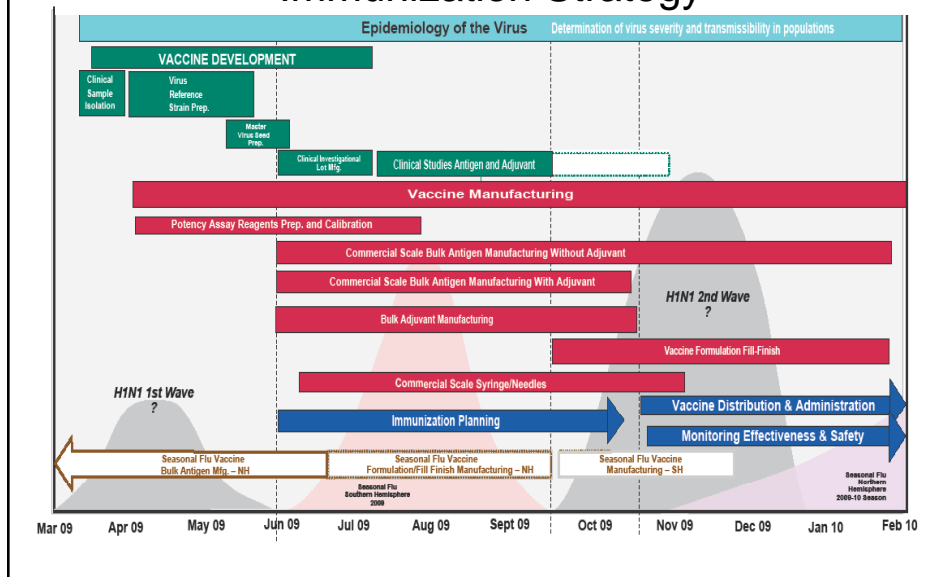
## National Strategy for Pandemic Influenza (Nov. 2005):


- Goal: To produce sufficient vaccine for U.S. population within 6 months of pandemic onset

### 2009 H1N1 Vaccine Strategy:


- Clinical studies will inform vaccine formulation and safety profile
- Strain change: Anticipate licensure of formulations similar to seasonal influenza vaccine (antigen alone)
- Pre-EUA packages in preparation for vaccines with adjuvant
- Scenario-sensitive vaccine production & administration approach
- **Key vaccine decision issues:**
  - Vaccine type(s)
  - Preservative (thimerosal)
  - Adjuvant
- **Key immunization program issues:**
  - Prioritization of vaccine: Target groups
  - Implementation plans
  - Vaccine safety and effectiveness monitoring
  - Intersection with seasonal influenza vaccine program
  - Communications

## US 2009 Pandemic H1N1 Vaccine and Immunization Strategy






## GUIDANCE ON ALLOCATING AND TARGETING PANDEMIC INFLUENZA VACCINE




U.S. DEPARTMENT OF HEALTH AND HUMAN SERVICES  
U.S. DEPARTMENT OF HOMELAND SECURITY

<http://www.pandemicflu.gov/vaccine/allocationguidance.pdf>

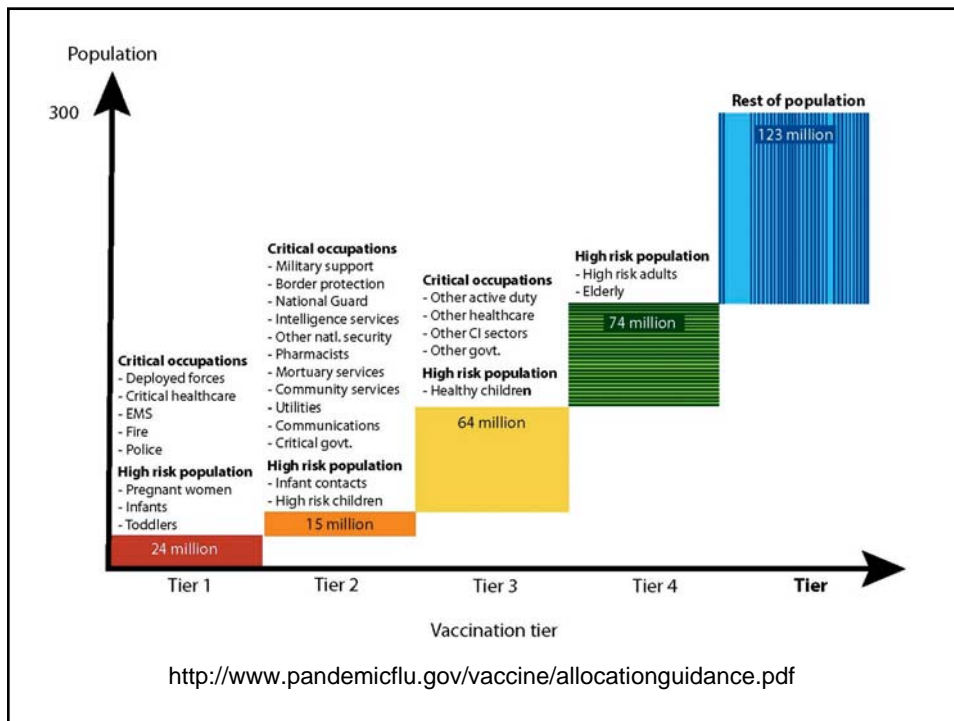
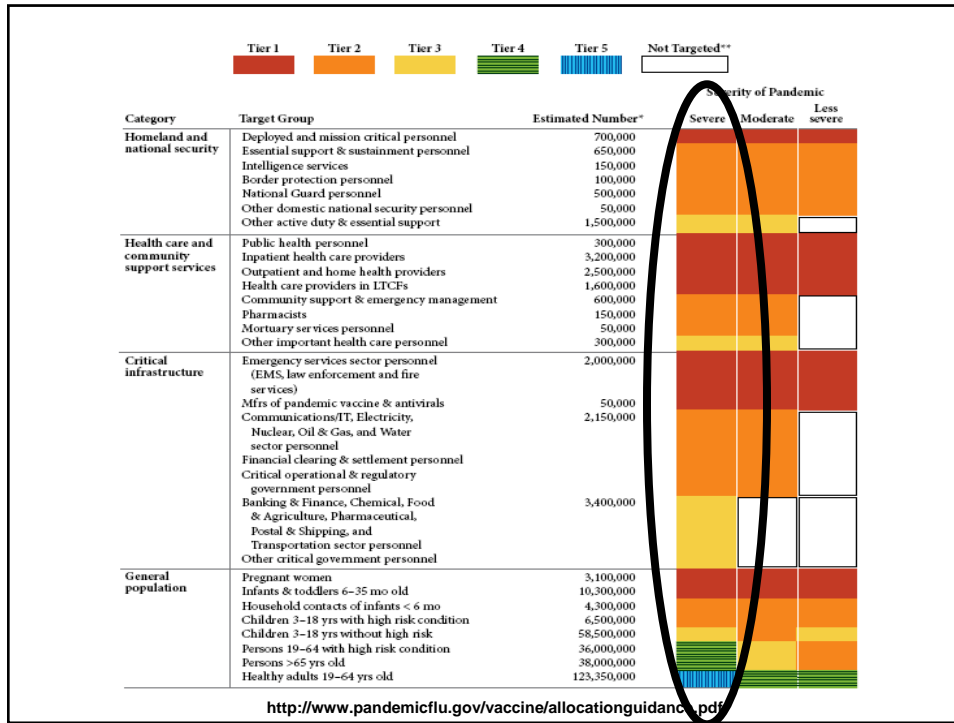


**National Vaccine Program Office**

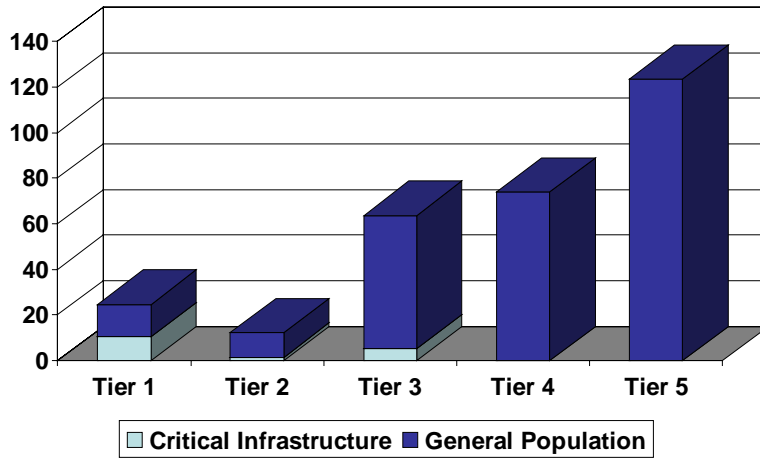


		Tier 1	Tier 2	Tier 3	Tier 4	Tier 5	Not Targeted**	Severity of Pandemic			
		Severe	Moderate	Less severe				Severe	Moderate	Less severe	
Category	Target Group	Estimated Number*									
<b>Homeland and national security</b>	Deployed and mission critical personnel	700,000									
	Essential support & sustainment personnel	650,000									
	Intelligence services	150,000									
	Border protection personnel	100,000									
	National Guard personnel	500,000									
	Other domestic national security personnel	50,000									
<b>Health care and community support services</b>	Other active duty & essential support	1,500,000									
	Public health personnel	300,000									
	Inpatient health care providers	3,200,000									
	Outpatient and home health providers	2,500,000									
	Health care providers in LTCFs	1,600,000									
	Community support & emergency management	600,000									
	Pharmacists	150,000									
	Mortuary services personnel	50,000									
<b>Critical infrastructure</b>	Other important health care personnel	300,000									
	Emergency services sector personnel (EMS, law enforcement and fire services)	2,000,000									
	Mfrs of pandemic vaccine & antivirals	50,000									
	Communications/IT, Electricity, Nuclear, Oil & Gas, and Water sector personnel	2,150,000									
	Financial clearing & settlement personnel	3,400,000									
	Critical operational & regulatory government personnel	3,400,000									
	Banking & Finance, Chemical, Food & Agriculture, Pharmaceutical, Postal & Shipping, and Transportation sector personnel	3,400,000									
<b>General population</b>	Other critical government personnel	3,400,000									
	Pregnant women	3,100,000									
	Infants & toddlers 6-35 mo old	10,300,000									
	Household contacts of infants < 6 mo	4,300,000									
	Children 3-18 yrs with high risk condition	6,500,000									
	Children 3-18 yrs without high risk	58,500,000									
	Persons 19-64 with high risk condition	36,000,000									
Persons >65 yrs old	38,000,000										
Healthy adults 19-64 yrs old	123,350,000										

<http://www.pandemicflu.gov/vaccine/allocationguidance.pdf>



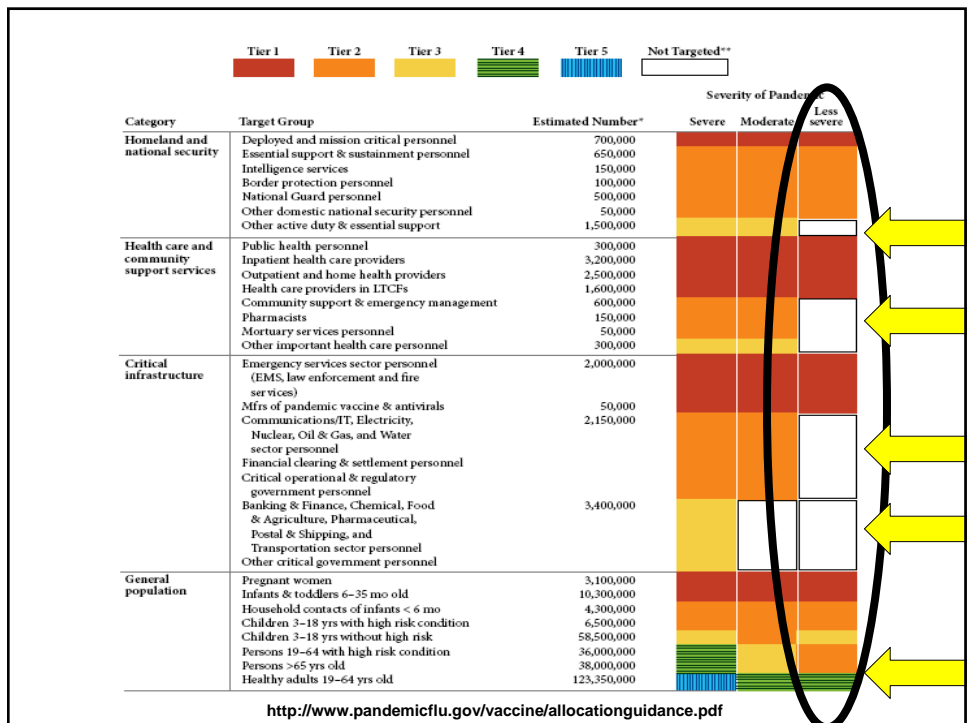
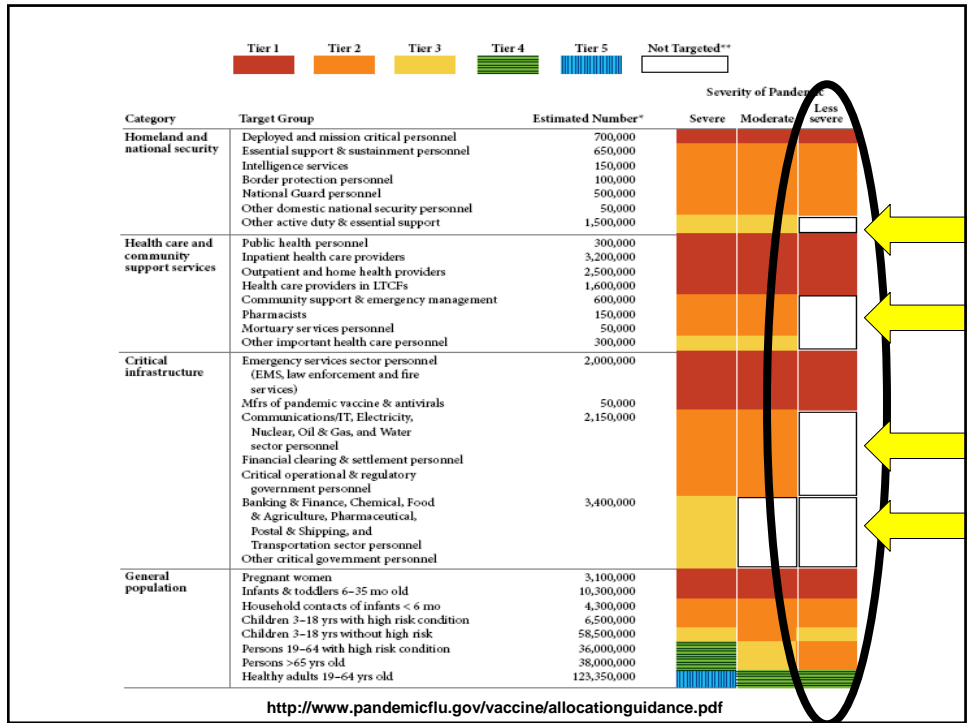
# Pandemic Vaccine Prioritization: Severe Pandemic



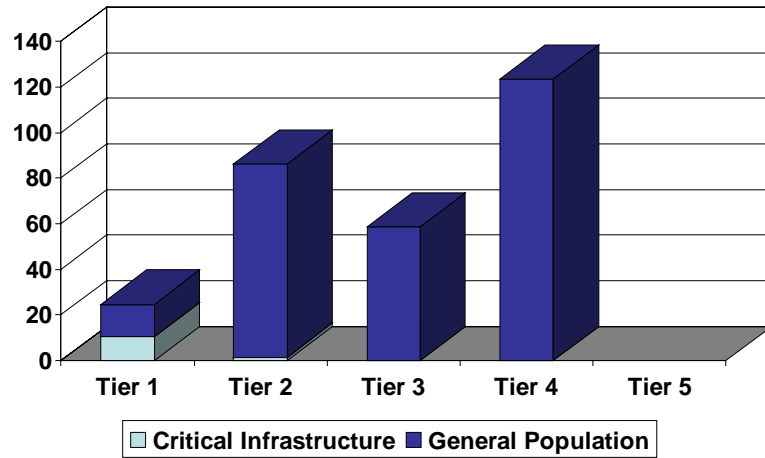
Category	Target Group	Estimated Number*	Severity of Pandemic		
			Severe	Moderate	Less severe
Homeland and national security	Deployed and mission critical personnel	700,000	Severe	Moderate	Less severe
	Essential support & sustainment personnel	650,000	Severe	Moderate	Less severe
	Intelligence services	150,000	Severe	Moderate	Less severe
	Border protection personnel	100,000	Severe	Moderate	Less severe
	National Guard personnel	500,000	Severe	Moderate	Less severe
	Other domestic national security personnel	50,000	Severe	Moderate	Less severe
Health care and community support services	Other active duty & essential support	1,500,000	Severe	Moderate	Less severe
	Public health personnel	300,000	Severe	Moderate	Less severe
	Inpatient health care providers	3,200,000	Severe	Moderate	Less severe
	Outpatient and home health providers	2,500,000	Severe	Moderate	Less severe
	Health care providers in LTCFs	1,600,000	Severe	Moderate	Less severe
	Community support & emergency management	600,000	Severe	Moderate	Less severe
	Pharmacists	150,000	Severe	Moderate	Less severe
	Mortuary services personnel	50,000	Severe	Moderate	Less severe
Other important health care personnel	300,000	Severe	Moderate	Less severe	
Critical infrastructure	Emergency services sector personnel (EMS, law enforcement and fire services)	2,000,000	Severe	Moderate	Less severe
	Mfrs of pandemic vaccine & antivirals	50,000	Severe	Moderate	Less severe
	Communications/IT, Electricity, Nuclear, Oil & Gas, and Water sector personnel	2,150,000	Severe	Moderate	Less severe
	Financial clearing & settlement personnel		Severe	Moderate	Less severe
	Critical operational & regulatory government personnel		Severe	Moderate	Less severe
	Banking & Finance, Chemical, Food & Agriculture, Pharmaceutical, Postal & Shipping, and Transportation sector personnel	3,400,000	Severe	Moderate	Less severe
	Other critical government personnel		Severe	Moderate	Less severe
	General population		Severe	Moderate	Less severe
Pregnant women	3,100,000	Severe	Moderate	Less severe	
Infants & toddlers 6-35 mo old	10,300,000	Severe	Moderate	Less severe	
Household contacts of infants < 6 mo	4,300,000	Severe	Moderate	Less severe	
Children 3-18 yrs with high risk condition	6,500,000	Severe	Moderate	Less severe	
Children 3-18 yrs without high risk	58,500,000	Severe	Moderate	Less severe	
Persons 19-64 with high risk condition	36,000,000	Severe	Moderate	Less severe	
Persons >65 yrs old	38,000,000	Severe	Moderate	Less severe	
Healthy adults 19-64 yrs old	123,350,000	Severe	Moderate	Less severe	

■ Tier 1   
 ■ Tier 2   
 ■ Tier 3   
 ■ Tier 4   
 ■ Tier 5   
  Not Targeted\*\*

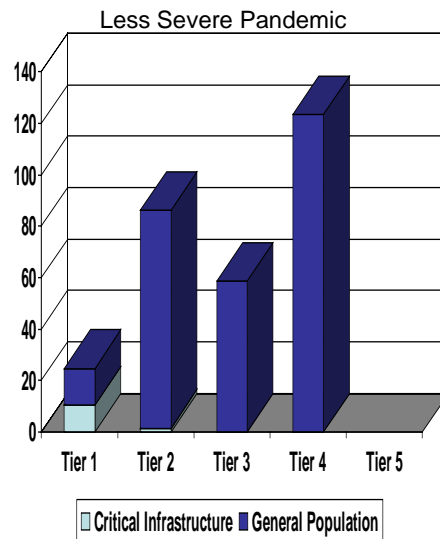
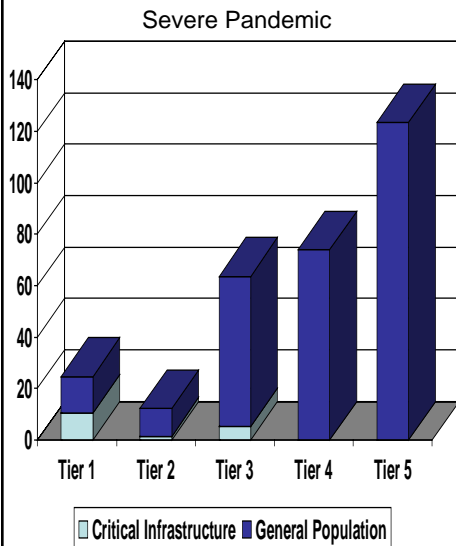
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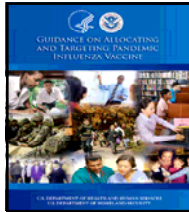


## Pandemic Vaccine Prioritization: Less Severe Pandemic

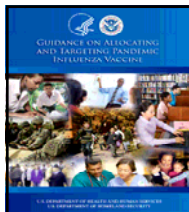


## Pandemic Vaccine Prioritization





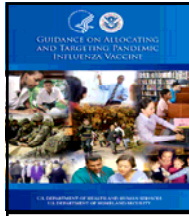
“...it is important that plans are flexible as the guidance may be modified based on the status of vaccine technology, the characteristic of pandemic illness, and risk groups for severe disease – factors that will remain unknown until a pandemic actually occurs.”



“At the time of a pandemic, national leaders will obtain advice from scientific and public health experts to determine whether the guidance should be modified based on the characteristics of the emerging pandemic.”







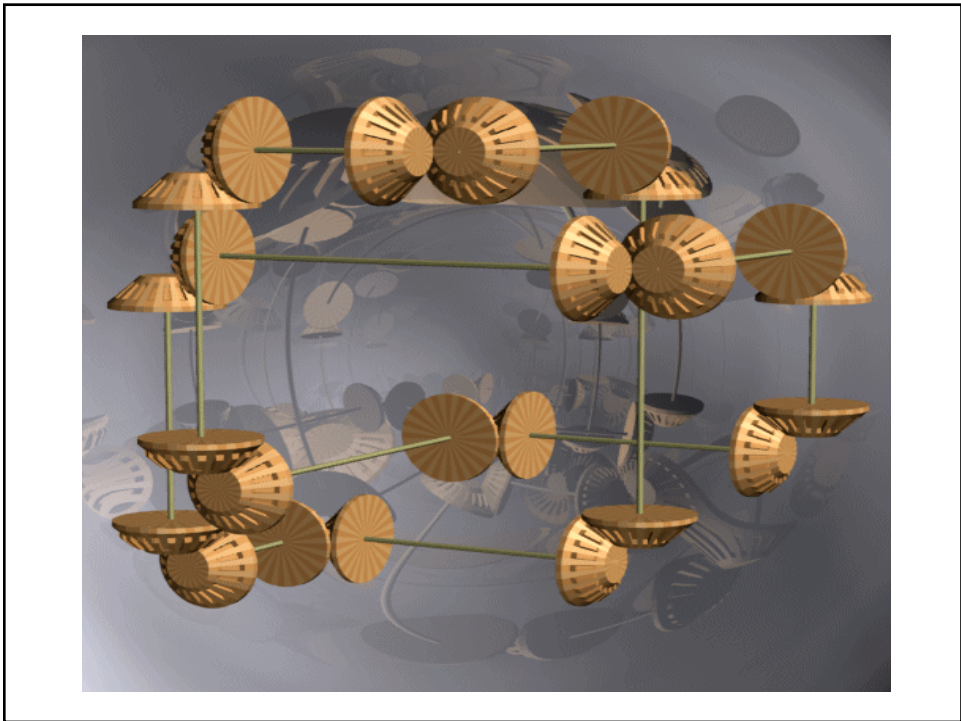
“Guidance on pandemic vaccine allocation and targeting will be reassessed periodically before a pandemic occurs to consider the new scientific advances, changes in vaccine production capacity, and advances in other medical and public health response measures.”



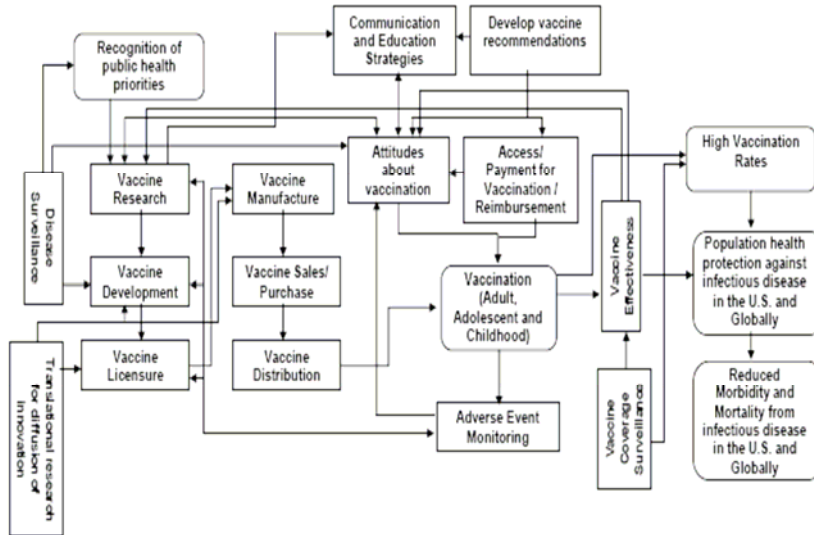
## Input from Stakeholders and the Public

- Protecting those who are essential to the pandemic response and providing care for those who are ill
- Protecting workers who are at greater risk of infection due to their job
- Protecting those who maintain essential community services
- Protecting children





## Overview of the Vaccine and Immunization Enterprise



[http://www.hhs.gov/nvpo/vacc\\_plan/](http://www.hhs.gov/nvpo/vacc_plan/)