



INFLUENZA (FLU)

Interim Estimates of Populations Targeted for Influenza Vaccination From 2002 National Health Interview Survey Data and Estimates for 2004 Based on Influenza Vaccine Shortage Priority Groups

	2002-03 Population (millions) (1)	Percent Vaccinated (2)	Doses
High Risk	84.9	43.6%	37.0
>64 years (3)	35.6	66.2%	23.6
Chronic illness (4)	39.4	28.1%	11.1
50-64	13.5	43.6%	5.9
19-49	18.8	23.9%	4.5
2-18 yrs	6.8	10.0%	0.7
Pregnant women (5)	4.0	12.4%	0.5
All children 6-23 months (6)	5.9	30.0%	1.8
Other Target Groups	102.9	20.0%	20.6
Health Care Personnel <65 (7)	7.0	38.4%	2.7
Household Contacts (8) of high risk persons aged:	75.8	15.4%	11.9
50-64 yrs	10.0	36.3%	3.6
19-49 yrs	37.8	14.6%	5.5
2-18 yrs	28.0	10.0%	2.8
Healthy 50-64 olds who are not household contacts of high risk persons	20.1	29.8%	6.0
Total target	187.8	30.7%	57.6
Non-target persons <50 years	97.3	15.3%	14.9
Total, persons aged >5 months	286.4	25.3%	72.5
Total, all persons	288.4		
% of U.S. pop'n in target group	65.1		
Priority groups for 2004-05 vaccine:			
>64 years	35.6	66.2%	23.6
Chronic illness 2-64 years	39.4	28.1%	11.1
Pregnant women	4.0	12.4%	0.5
All children 6-23 months	5.9	30.0%	1.8
Healthcare workers <65 years	7.0	38.4%	2.7
Household contacts of < 6 months (9)	6.3	18.0%	1.1
Sub-total	98.2		40.8
5% estimated adjustment for increase in population size and vaccine demand			2.0
Total Estimate			42.8

Interim Estimates of Populations Targeted for Influenza Vaccination and Vaccination Rates of Those Groups From 2002 and Estimates for 2004

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- (1.) Based on 7/1/02 population estimates (Table NA-EST2002-ASRO-01 – National Population Estimates – Characteristics; Population Division, U.S. Census Bureau, released 6/18/03).
- (2.) Vaccination rates in adult groups based on 2002 NHIS vaccine coverage estimates. Vaccination rates in pediatric groups based on estimates from surveys of specific groups (including some from 2003-04 season) since no national estimate are available from years since the full recommendation to vaccinate children 6-23 months began.
- (3.) Includes approximately 1.5 million institutionalized persons and assumes a vaccination rate of 80% for these persons.
- (4.) Estimated number of persons at high risk for influenza complications because of chronic illness based on age-specific population estimate and estimated proportion of persons (or parents for persons aged <18 years) reporting selected medical conditions for the National Health Interview Survey (NHIS) (29.7% for persons aged 50-64 and 14.1% for persons aged 18-49, based on NHIS 1997-2001; 10.5% for children 2-18 years of age and 5.87% for children 6-23 months based on NHIS 2001). For persons aged 18-64, reported medical conditions included having one or more of the following conditions: ever having been told by a physician they have diabetes, emphysema, coronary artery disease, angina, heart attack or other heart conditions; being diagnosed with cancer in the past 12 months (excluding non-melanoma skin cancer) or ever being told by a physician they had lymphoma, leukemia or blood cancer; in the past 12 months being told by a physician they have chronic bronchitis or weak or failing kidneys; or reporting an asthma attack or episode in the past 12 months. For children aged <18 years, high risk conditions included ever having been told by a physician of having diabetes, cystic fibrosis, sickle cell anemia, congenital heart disease, other heart disease, or current asthma.
- (5.) Estimate of women who would be pregnant at any time during the influenza season is based on 4 million births in the U.S.
- (6.) Does not include approximately 2 million children who would turn age 6 months during October through March, but would include children who would turn 24 months during this period.
- (7.) Based on self-reported occupation from the 2002 NHIS.
- (8.) Estimates of healthy household contacts based on multiplying the estimated number of persons not at increased risk, excluding health-care personnel, by the estimated proportion of such persons living in a household with at least one person at increased risk (33% for persons aged 50-64 years, 35% for persons aged 19-49 years, and 45% for persons aged 2-18 years). Proportions were estimated from the 2000 NHIS using Monte Carlo imputation of chronic illness and health-care occupational status; persons aged <2 years or ≥65 years were considered at increased risk. Out-of-home caretakers of children aged <2 years are not included.
- (9.) Based on NHIS 2002 estimate of average household size of 3.22 persons 2-64 years of age among those households with children <6 months.

For more information, visit www.cdc.gov/flu, or call the National Immunization Hotline at (800) 232-2522 (English), (800) 232-0233 (español), or (800) 243-7889 (TTY).

October 11, 2004

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