



Projected Influenza Vaccination Target Population Sizes, Vaccination Coverage and Doses to be used during the 2008-09 Season

	2009 Population (millions) (1)	Projected Percent Vaccinated (2)	Projected Doses Used (millions) (2)
Persons recommended for vaccination based on age or high-risk condition	196.0	43.8%	85.8
≥6 mo through 18 yrs (3)	76.3	36.1%	27.6
6-23 mo (4)	6.3	32.2%	2.6
24-59 mo	12.6	60.9%	7.7
5-18 yrs	57.4	30.1%	17.3
≥50 yrs	96.2	54.5%	52.2
50-64 yrs	56.7	44.8%	25.4
≥65 yrs (5)	39.5	67.8%	26.8
Pregnant women (aged 19-49 yrs) (6)	6.6	15.6%	1.0
Others with chronic illness (7)			
19-49 yrs	16.9	29.7%	5.0
Persons recommended for vaccination because they care for or live with persons at high risk	65.5	25.2%	16.5
Health care personnel (aged 19-49 yrs) (8)	7.0	45.0%	3.2
Healthy household contacts (9)			
19-49 yrs	58.5	22.8%	13.3
Total target persons (85.4% of U.S. population)	261.5	39.1%	102.3
Non-target persons (aged 19 to 49 yrs)	42.7	19.1%	8.2
Total, persons aged ≥6 months	304.2	36.3%	110.5
<i>Total, persons in the United States</i>	<i>306.3</i>		

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- (1.) Based on U.S. Interim population projections by age, sex, race, and Hispanic origin: 2000 to 2050 (Population Projections Branch, U.S. Census Bureau, released 5/11/04).
- (2.) Projections are provided in this table for planning purposes. Projected vaccination rates and doses used for persons aged ≥ 2 years were estimated by applying the annual increase in estimated influenza vaccination coverage from the 2005-06 to 2006-07 seasons, based on data from the National Health Interview Survey (NHIS), to each of the two subsequent seasons (<http://www.cdc.gov/mmwr/PDF/rr/rr5707.pdf>, Table 3).
- (3.) For children ages 6m through 8 years percent vaccinated and projected doses used are based on data showing receipt of one or more doses. The estimate of doses used among children 6-23 months of age was adjusted upward to account for 29% of vaccinees receiving two doses during the influenza season. A similar adjustment to account for second doses received by 2 through 8 year-olds was not done because data are not available on second dose usage among these children. Projected vaccination rates and doses used for children aged 6-23 months were estimated based on data from the National Immunization Survey (NIS) 2006 (http://www.cdc.gov/vaccines/stats-surv/nis/data/tables_2006.htm) and 2007 (http://www.cdc.gov/vaccines/stats-surv/nis/data/tables_2007.htm) (not all are fully vaccinated). Beginning with the 2008-09 season, annual influenza vaccination for all children aged 6 months-18 years is recommended. The previous recommendation was for vaccination of children aged 6 to 59 months. Annual vaccination of all children aged 5 through 18 years should begin in September 2008 or as soon as vaccine is available for the 2008-09 influenza season, if feasible.
- (4.) The 2007 population estimate does not include approximately 2 million children who would turn age 6 months during October through March, but does include children who turned 24 months during this period.
- (5.) Includes approximately 1.4 million persons in nursing homes <http://www.cdc.gov/nchs/data/hus/hus07.pdf#117>.
- (6.) This estimate of women who would be pregnant at any time during September 2008 through March 2009 is based on the December 5, 2007 National Vital Statistics Reports Vol. 56 No. 7. Currently every 12 months about 6.4 million pregnancies end and about the same number start resulting in an average of 0.5 million starts and 0.5 million stops per month. Adjustments were made for pregnancies among women aged <19 or >50 yrs; pregnancies not carried to term; and expected increases in annual number of pregnancies during 2007 and 2008. http://www.cdc.gov/nchs/data/nvsr/nvsr56/nvsr56_07.pdf
- (7.) Estimated number of persons aged 19-49 years (excluding those who were pregnant during the influenza season) at high risk for influenza complications because of chronic illness based on age-specific population estimate and estimated proportion of persons reporting selected medical conditions for the National Health Interview Survey (NHIS) (14.9% for persons aged 18-49 based on NHIS 2002, which was the most recent year neuromuscular disease prevalence was measured. Not all high-risk conditions for influenza are covered by the NHIS. For persons aged 18-49, reported medical conditions utilized by the NHIS that we used to estimate the number of high-risk persons included: 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. Several neuromuscular conditions are also included in the high-risk definition (stroke, senility, multiple sclerosis, Parkinson's disease, and seizures).
- (8.) Based on self-reported occupation from the 2007 NHIS and excludes those persons "at high risk for visit or complication" shown in the top section of the table.
- (9.) Estimates are of healthy household contacts of: a) persons aged <6 months; or b) those persons recommended for vaccination based on age or high-risk condition with the exception of healthy persons aged 5 through 18. The estimates are based on multiplying the estimated number of persons not at increased risk, by the estimated proportion of such persons living in a household with at least one person at increased risk (54.5% for persons aged 19-49 years). Proportions were estimated from the 2002 NHIS using multiple imputation methods. Persons aged <5 years or ≥ 50 years were considered at increased risk. Out-of-home caretakers of children aged <5 years are not included, because estimates of population size and vaccination coverage are not available.

For more information, visit www.cdc.gov/flu, or call the CDC-Info hotline at (800) 232-4636 (English and español), or (800) 232-6348 (TTY).

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