

## Trends in Adult Vaccination Coverage

*Internal for NAHIS Provider Workgroup*

*March 6 2014 Meeting*

*Preliminary Data*

**National Health Interview Survey**  
2008-2012  
**Behavioral Risk Factor Surveillance System**  
2008-09 – 2012-13

National Center for Immunization & Respiratory Diseases  
Immunization Services Division



### Influenza Vaccination, $\geq 18$ years, by Race/Ethnicity: 2008-09 – 2011-12 Seasons, NHIS, United States

Group	2008-09 (%)	2009-10 (%)	2010-11 (%)	2011-12 (%)
<b>Overall</b>	35	37	38	39
<b>Race/ethnicity</b>				
White, non-Hispanic	39	40	41	42
Black, non-Hispanic	29*	29*	32*	34*
Hispanic	24*	26*	29*	28*
Other†	34	39	37	40

\*  $p < 0.05$  by t test for comparisons with non-Hispanic white as the reference.

† Other includes Asian, American Indian/Alaska Native, and multiple race.

### Influenza Vaccination, $\geq 18$ years, by Race/Ethnicity: 2008-09 – 2012-13 Seasons, BRFSS, United States

Group	2008-09 (%)	2009-10 (%)	2010-11 (%)	2011-12 (%)	2012-13 (%)
<b>Overall</b>	40	39	40	39	42
<b>Race/ethnicity</b>					
White, non-Hispanic	44	43	43	42	45
Black, non-Hispanic	35*	32*	34*	33*	36*
Hispanic	28*	28*	32*	29*	34*
Other†	41*	37*	37*	37*	42*

\*  $p < 0.05$  by t test for comparisons with non-Hispanic white as the reference.  
 † Other includes Asian, American Indian/Alaska Native, and multiple race.

Data published: <http://www.cdc.gov/flu/fluview/index.htm>

### Influenza Vaccination, 18-64 years, High-risk\*, by Race/Ethnicity: 2008-09 – 2011-12 Seasons, NHIS, United States

Group	2008-09 (%)	2009-10 (%)	2010-11 (%)	2011-12 (%)
<b>Overall</b>	41	44	46	45
<b>Race/ethnicity</b>				
White, non-Hispanic	42	47	46	45
Black, non-Hispanic	39	38†	44	48
Hispanic	43	37†	43	37†
Other§	32	45	48	48

\* Adults categorized as being at high risk for influenza-related complications self-reported one or more of the following: 1) ever being told by a physician they had diabetes, emphysema, coronary heart disease, angina, heart attack, or other heart condition; 2) having a diagnosis of cancer during the preceding 12 months (excluding nonmelanoma skin cancer) or ever being told by a physician they have lymphoma, leukemia, or blood cancer during the previous 12 months; 3) being told by a physician they have chronic bronchitis or weak or failing kidneys; or 4) reporting an asthma episode or attack during the preceding 12 months.

†  $p < 0.05$  by t test for comparisons with non-Hispanic white as the reference.  
 § Other includes Asian, American Indian/Alaska Native, and multiple race.

**Influenza Vaccination, 18-64 years, High-risk\*,  
by Race/Ethnicity:  
2008-09 – 2012-13 Seasons, BRFSS, United States**

Group	2008-09 (%)	2009-10 (%)	2010-11 (%)	2011-12 (%)	2012-13 (%)
<b>Overall</b>	48	45	47	45	47
<b>Race/ethnicity</b>					
White, non-Hispanic	49	47	48	48	48
Black, non-Hispanic	50	40†	41†	43†	45
Hispanic	43†	38†	47	39†	46
Other§	47	42	46	44	48

\* Adults categorized as being at high risk for influenza-related complications self-reported one or more of the following: 1) ever being told by a physician they had diabetes, emphysema, coronary heart disease, angina, heart attack, or other heart condition; 2) having a diagnosis of cancer during the preceding 12 months (excluding nonmelanoma skin cancer) or ever being told by a physician they have lymphoma, leukemia, or blood cancer during the previous 12 months; 3) being told by a physician they have chronic bronchitis or weak or failing kidneys; or 4) reporting an asthma episode or attack during the preceding 12 months.

† p<0.05 by t test for comparisons with non-Hispanic white as the reference.

§ Other includes Asian, American Indian/Alaska Native, and multiple race.

Data published: <http://www.cdc.gov/flu/fluview/index.htm>

**Influenza Vaccination, ≥ 65 years, by Race/Ethnicity:  
2008-09 – 2011-12 Seasons, NHIS, United States**

Group	2008-09 (%)	2009-10 (%)	2010-11 (%)	2011-12 (%)
<b>Overall</b>	70	67	70	70
<b>Race/ethnicity</b>				
White, non-Hispanic	72	69	72	72
Black, non-Hispanic	52*	56*	61*	58*
Hispanic	56*	56*	65	60*
Other†	77	64	67	70

\* p<0.05 by t test for comparisons with non-Hispanic white as the reference.

† Other includes Asian, American Indian/Alaska Native, and multiple race.

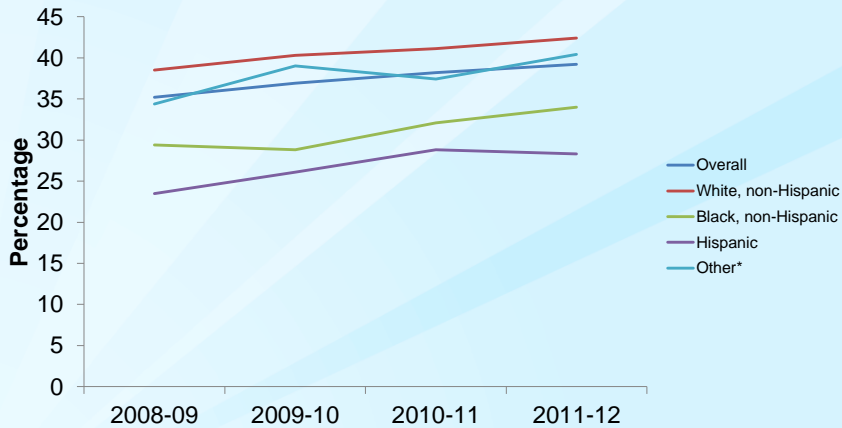
### Influenza Vaccination, ≥ 65 years, by Race/Ethnicity: 2008-09 – 2012-13 Seasons, BRFSS, United States

Group	2008-09 (%)	2009-10 (%)	2010-11 (%)	2011-12 (%)	2012-13 (%)
<b>Overall</b>	74	69	66	65	66
<b>Race/ethnicity</b>					
White, non-Hispanic	76	71	68	66	68
Black, non-Hispanic	64*	54*	55*	54*	55*
Hispanic	64*	51*	67	63	66
Other†	68*	67*	65	60*	64

\* p<0.05 by t test for comparisons with non-Hispanic white as the reference.  
† Other includes Asian, American Indian/Alaska Native, and multiple race.

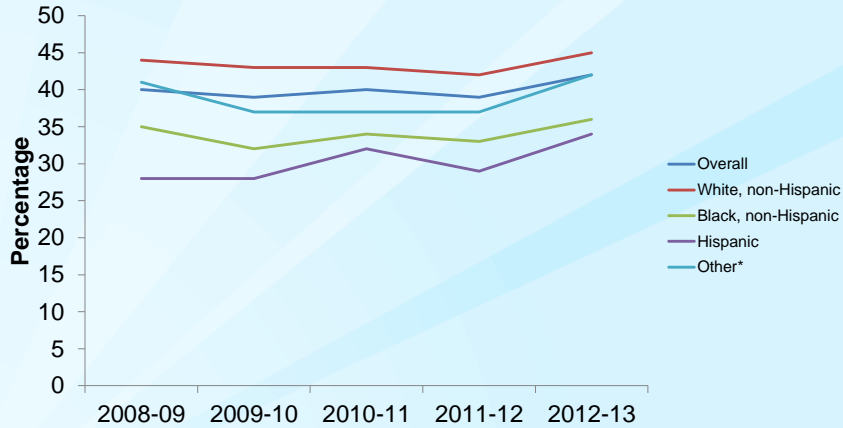
Data published: <http://www.cdc.gov/flu/fluview/index.htm>

### Influenza Vaccination, ≥ 18 years, by Race/Ethnicity: 2008-09 – 2011-12 Seasons, NHIS, United States



\* Other includes Asian, American Indian/Alaska Native, and multiple race.

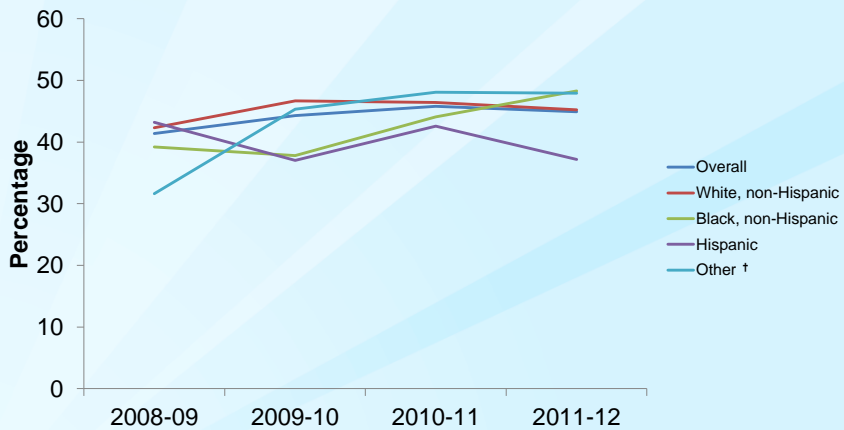
### Influenza Vaccination, ≥ 18 years, by Race/Ethnicity: 2008-09 – 2012-13 Seasons, BRFSS, United States



\* Other includes Asian, American Indian/Alaska Native, and multiple race.

Data published: <http://www.cdc.gov/flu/fluview/index.htm>

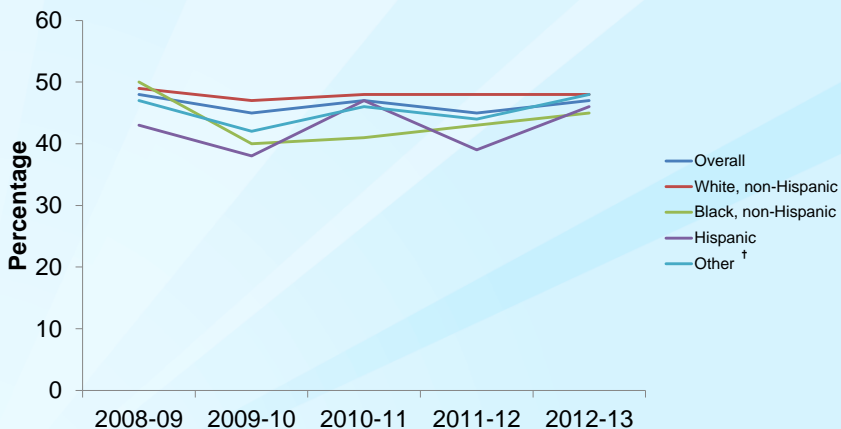
### Influenza Vaccination, 18-64 years, High-risk\*, by Race/Ethnicity: 2008-09 – 2011-12 Seasons, NHIS, United States



\* Adults categorized as being at high risk for influenza-related complications self-reported one or more of the following: 1) ever being told by a physician they had diabetes, emphysema, coronary heart disease, angina, heart attack, or other heart condition; 2) having a diagnosis of cancer during the preceding 12 months (excluding nonmelanoma skin cancer) or ever being told by a physician they have lymphoma, leukemia, or blood cancer during the previous 12 months; 3) being told by a physician they have chronic bronchitis or weak or failing kidneys; or 4) reporting an asthma episode or attack during the preceding 12 months.

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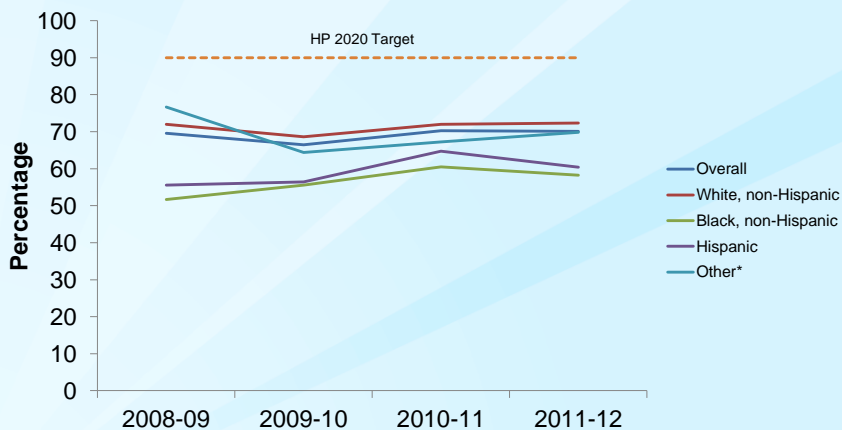
### Influenza Vaccination, 18-64 years, High-risk\*, by Race/Ethnicity: 2008-09 – 2012-13 Seasons, BRFSS, United States



\* Adults categorized as being at high risk for influenza-related complications self-reported one or more of the following: 1) ever being told by a physician they had diabetes, emphysema, coronary heart disease, angina, heart attack, or other heart condition; 2) having a diagnosis of cancer during the preceding 12 months (excluding nonmelanoma skin cancer) or ever being told by a physician they have lymphoma, leukemia, or blood cancer during the previous 12 months; 3) being told by a physician they have chronic bronchitis or weak or failing kidneys; or 4) reporting an asthma episode or attack during the preceding 12 months.  
<sup>†</sup> Other includes Asian, American Indian/Alaska Native, and multiple race.

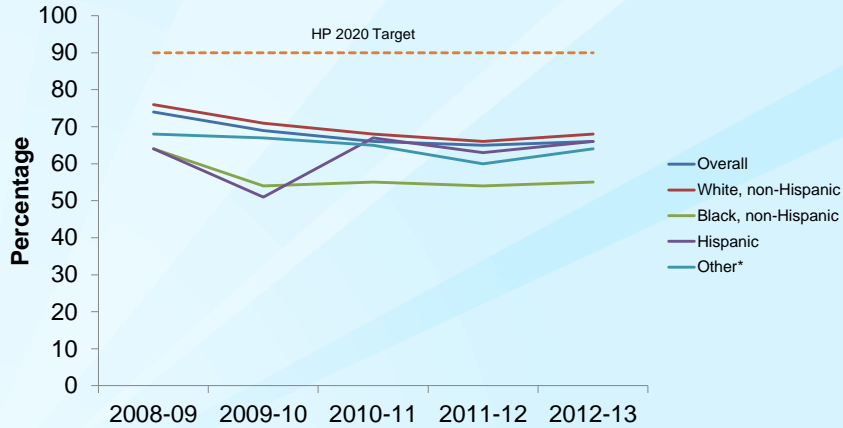
Data published: <http://www.cdc.gov/flu/fluview/index.htm>

### Influenza Vaccination, ≥ 65 years, by Race/Ethnicity: 2008-09 – 2011-12 Seasons, NHIS, United States



\* Other includes Asian, American Indian/Alaska Native, and multiple race.

### Influenza Vaccination, ≥ 65 years, by Race/Ethnicity: 2008-09 – 2012-13 Seasons, BRFSS, United States



\* Other includes Asian, American Indian/Alaska Native, and multiple race.

Data published: <http://www.cdc.gov/flu/fluview/index.htm>

### Pneumococcal Vaccination, 19-64 years\*, High-risk†, by Race/Ethnicity: NHIS 2008-2012, United States

Group	2008 (%)	2009 (%)	2010 (%)	2011 (%)	2012(%)
<b>Overall</b>	25	18	19	20	20
<b>Race/ethnicity</b>					
White, non-Hispanic	27	18	19	20	21
Black, non-Hispanic	23	18	19	23	20
Hispanic	16§	12§	15§	18§	14§
Asian, non-Hispanic	NA	NA	12§	12§	13§
Other	NA	NA	26	22	20

NA=Not available

\* Healthy People 2020 objective is for high-risk adults aged 18-64 years.

† Adults were considered at high risk for pneumococcal disease if they had ever been told by a doctor or other health professional that they had diabetes, emphysema, coronary heart disease, angina, heart attack, or other heart condition; had a diagnosis of cancer during the previous 12 months (excluding non-melanoma skin cancer); had ever been told by a doctor or other health professional that they had lymphoma, leukemia, or blood cancer; had been told by a doctor or other health professional that they had chronic bronchitis or weak or failing kidneys during the preceding 12 months; had an asthma episode or attack during the preceding 12 months (2009-2011); or were current smokers (2009-2011).

§ p<0.05 by t test for comparisons with non-Hispanic white as the reference.

Data published: <http://www.cdc.gov/vaccines/stats-surv/nhis/default.htm>

### Pneumococcal Vaccination, ≥ 65 years, by Race/Ethnicity: NHIS 2008-2012, United States

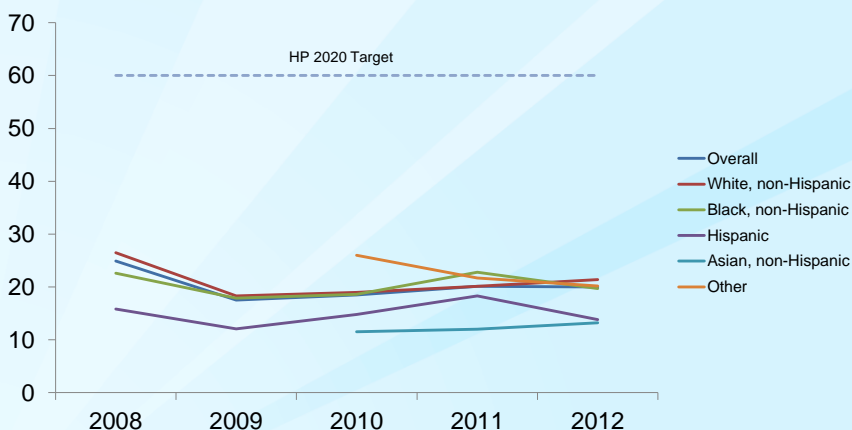
Group	2008 (%)	2009 (%)	2010 (%)	2011 (%)	2012(%)
<b>Overall</b>	60	61	60	62	60
<b>Race/ethnicity</b>					
White, non-Hispanic	64	65	64	67	64
Black, non-Hispanic	45*	45*	46*	48*	46*
Hispanic	36*	40*	39*	43*	43*
Asian, non-Hispanic	NA	NA	48*	40*	41*
Other	NA	NA	58	67	45*

NA=Not available

\* p<0.05 by t test for comparisons with non-Hispanic white as the reference.

Data published: <http://www.cdc.gov/vaccines/stats-surv/nhis/default.htm>

### Pneumococcal Vaccination, 19-64 years\*, High-risk†, by Race/Ethnicity‡: NHIS 2008-2012, United States

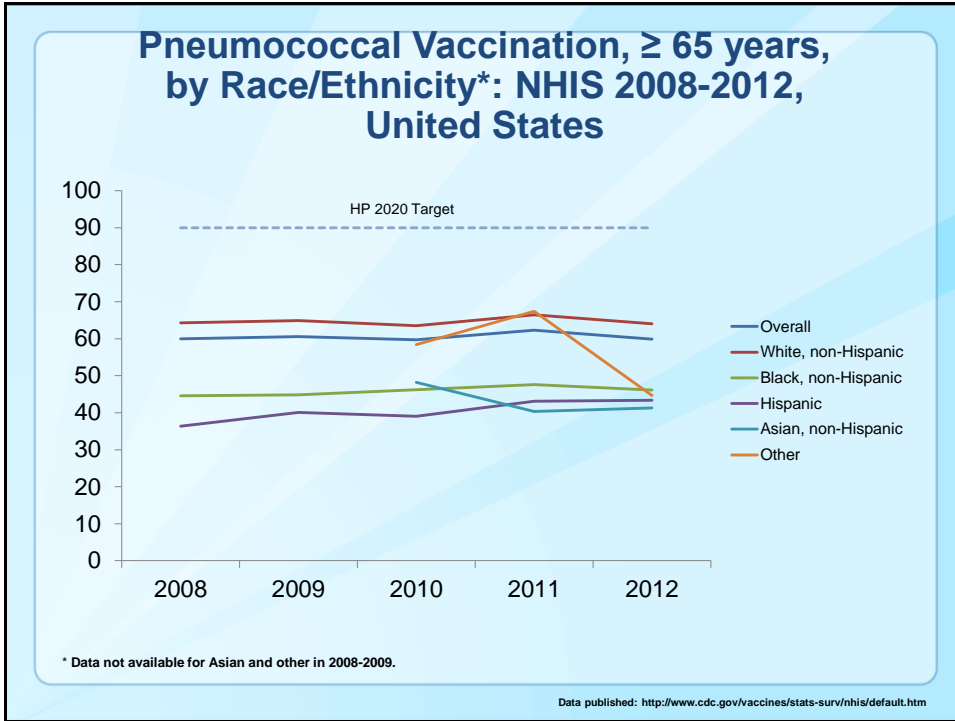


\* Healthy People 2020 objective is for high-risk adults aged 18-64 years.

† Adults were considered at high risk for pneumococcal disease if they had ever been told by a doctor or other health professional that they had diabetes, emphysema, coronary heart disease, angina, heart attack, or other heart condition; had a diagnosis of cancer during the previous 12 months (excluding nonmelanoma skin cancer); had ever been told by a doctor or other health professional that they had lymphoma, leukemia, or blood cancer; had been told by a doctor or other health professional that they had chronic bronchitis or weak or failing kidneys during the preceding 12 months; had an asthma episode or attack during the preceding 12 months (2009-2011); or were current smokers (2009-2011).

‡ Data not available for Asian and other in 2008-2009.

Data published: <http://www.cdc.gov/vaccines/stats-surv/nhis/default.htm>



### Tetanus Vaccination, Past 10 Years, 19-49 years, by Race/Ethnicity: NHIS 2008-2012, United States

Group	2008 (%)	2009 (%)	2010 (%)	2011 (%)	2012(%)
<b>Overall</b>	64	63	64	65	64
<b>Race/ethnicity</b>					
White, non-Hispanic	69	68	69	70	70
Black, non-Hispanic	57*	57*	57*	55*	56*
Hispanic	51*	54*	54*	56*	54*
Asian, non-Hispanic	NA	NA	50*	53*	54*
Other	NA	NA	62*	70	72

NA=Not available  
 \* p<0.05 by t test for comparisons with non-Hispanic white as the reference.

Data published: <http://www.cdc.gov/vaccines/stats-surv/nhis/default.htm>

### Tetanus Vaccination, Past 10 Years, 50-64 years, by Race/Ethnicity: NHIS 2008-2012, United States

Group	2008 (%)	2009 (%)	2010 (%)	2011 (%)	2012(%)
<b>Overall</b>	62	63	63	64	64
<b>Race/ethnicity</b>					
White, non-Hispanic	66	66	67	68	68
Black, non-Hispanic	52*	52*	53*	54*	52*
Hispanic	48*	54*	51*	53*	52*
Asian, non-Hispanic	NA	NA	48*	45*	48*
Other	NA	NA	68	68	70

NA=Not available

\* p<0.05 by t test for comparisons with non-Hispanic white as the reference.

Data published: <http://www.cdc.gov/vaccines/stats-surv/nhis/default.htm>

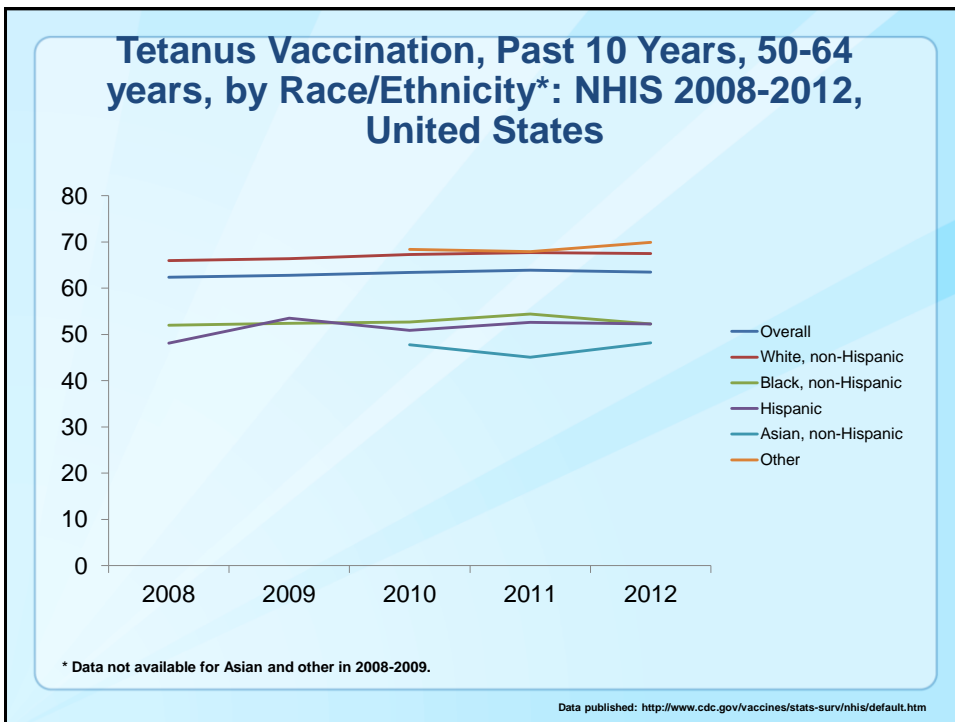
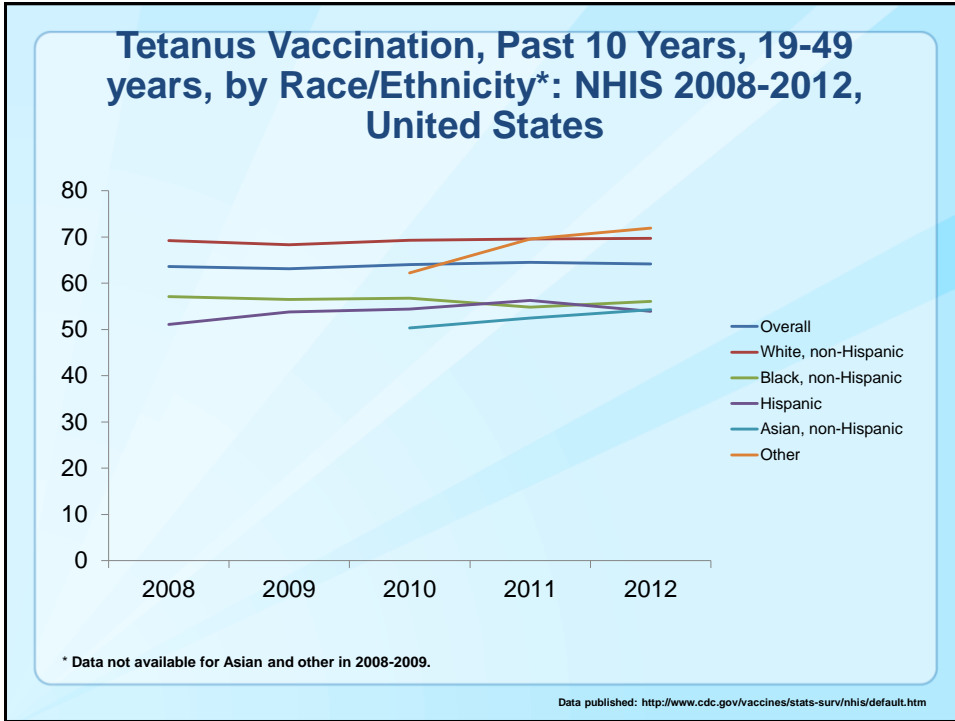
### Tetanus Vaccination, Past 10 Years, ≥ 65 years, by Race/Ethnicity: NHIS 2008-2012, United States

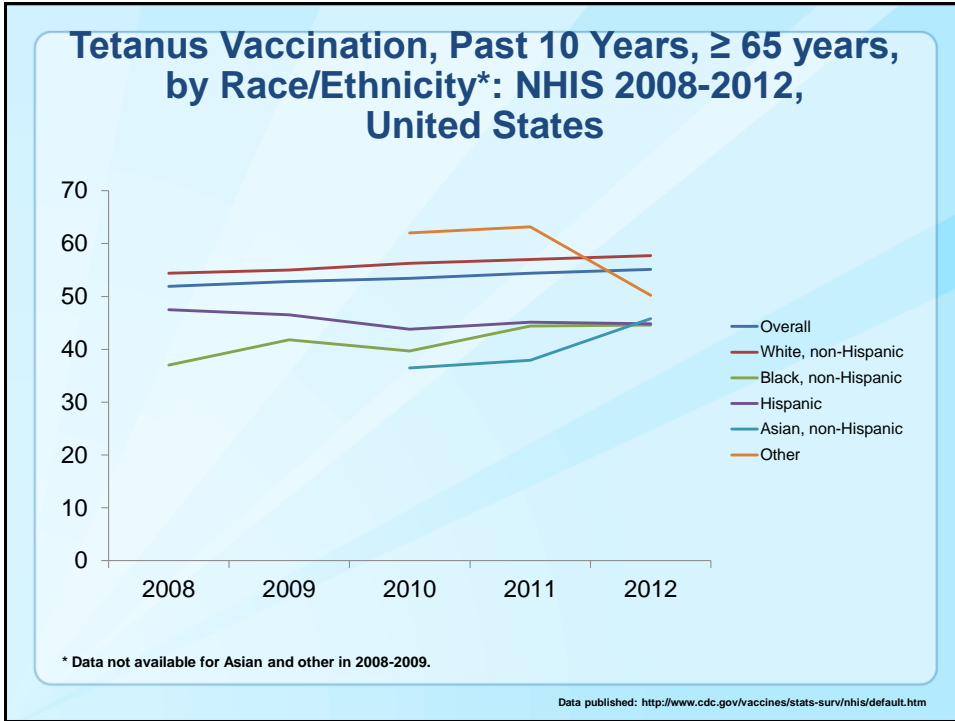
Group	2008 (%)	2009 (%)	2010 (%)	2011 (%)	2012(%)
<b>Overall</b>	52	53	53	54	55
<b>Race/ethnicity</b>					
White, non-Hispanic	54	55	56	57	58
Black, non-Hispanic	37*	42*	40*	44*	45*
Hispanic	48*	47*	44*	45*	45*
Asian, non-Hispanic	NA	NA	37*	38*	46*
Other	NA	NA	62	63	50

NA=Not available

\* p<0.05 by t test for comparisons with non-Hispanic white as the reference.

Data published: <http://www.cdc.gov/vaccines/stats-surv/nhis/default.htm>





### Tetanus Vaccination Including Pertussis Vaccine\* (Since 2005), ≥19 years, by Race/Ethnicity: NHIS 2012, United States

Group	2012(%)
<b>Overall</b>	14
<b>Race/ethnicity</b>	
White, non-Hispanic	16
Black, non-Hispanic	10†
Hispanic	9†
Asian, non-Hispanic	15
Other	21†

\* Respondents who had received a tetanus shot in the past 10 years were asked if their most recent shot was given in 2005 or later. Respondents who had received a tetanus shot since 2005 were asked if they were told that their most recent tetanus shot included the pertussis or whooping cough vaccine. Those without a "yes" or "no" classification for tetanus vaccination in the past 10 years or for tetanus vaccination since 2005, and those who reported tetanus vaccination since 2005 but did not know vaccine type (Td or Tdap) were excluded.

† p<0.05 by t test for comparisons with non-Hispanic white as the reference.

Data published: <http://www.cdc.gov/vaccines/stats-surv/nhis/default.htm>

### Tetanus Vaccination Including Pertussis Vaccine\* (Since 2005), 19-64 years, by Race/Ethnicity: NHIS 2008-2012, United States

Group	2008 (%)	2009 (%)	2010 (%)	2011 (%)	2012(%)
<b>Overall</b>	6	7	8	13	16
<b>Race/ethnicity</b>					
White, non-Hispanic	7	8	9	14	18
Black, non-Hispanic	6	6†	7†	11†	11†
Hispanic	4†	5†	5†	8†	9†
Asian, non-Hispanic	NA	NA	9	12	16
Other	NA	NA	8	20	23

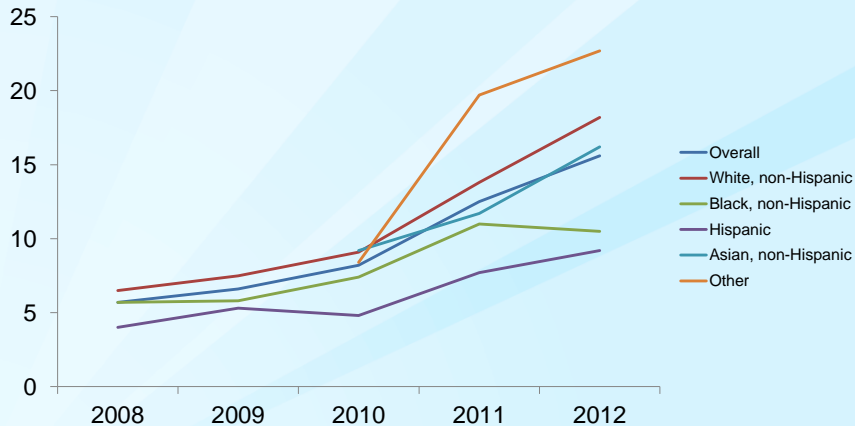
NA=Not available

\* Respondents who had received a tetanus shot in the past 10 years were asked if their most recent shot was given in 2005 or later. Respondents who had received a tetanus shot since 2005 were asked if they were told that their most recent tetanus shot included the pertussis or whooping cough vaccine. Those without a "yes" or "no" classification for tetanus vaccination in the past 10 years or for tetanus vaccination since 2005, and those who reported tetanus vaccination since 2005 but did not know vaccine type (Td or Tdap) were excluded.

† p<0.05 by t test for comparisons with non-Hispanic white as the reference.

Data published: <http://www.cdc.gov/vaccines/stats-surv/nhis/default.htm>

### Tetanus Vaccination Including Pertussis Vaccine\* (Since 2005), 19-64 years, by Race/Ethnicity†: NHIS 2008-2012, United States



\* Respondents who had received a tetanus shot in the past 10 years were asked if their most recent shot was given in 2005 or later. Respondents who had received a tetanus shot since 2005 were asked if they were told that their most recent tetanus shot included the pertussis or whooping cough vaccine. Those without a "yes" or "no" classification for tetanus vaccination in the past 10 years or for tetanus vaccination since 2005, and those who reported tetanus vaccination since 2005 but did not know vaccine type (Td or Tdap) were excluded.

† Data not available for Asian and other in 2008-2009.

Data published: <http://www.cdc.gov/vaccines/stats-surv/nhis/default.htm>

**Tetanus Vaccination Including Pertussis Vaccine\***  
**(Since 2005), ≥65 years, by Race/Ethnicity:**  
**NHIS 2012, United States**

Group	2012(%)
<b>Overall</b>	8
<b>Race/ethnicity</b>	
White, non-Hispanic	9
Black, non-Hispanic	6
Hispanic	3†
Asian, non-Hispanic	4†
Other	--§

\* Respondents who had received a tetanus shot in the past 10 years were asked if their most recent shot was given in 2005 or later. Respondents who had received a tetanus shot since 2005 were asked if they were told that their most recent tetanus shot included the pertussis or whooping cough vaccine. Those without a "yes" or "no" classification for tetanus vaccination in the past 10 years or for tetanus vaccination since 2005, and those who reported tetanus vaccination since 2005 but did not know vaccine type (Td or Tdap) were excluded.

† p<0.05 by t test for comparisons with non-Hispanic white as the reference.

§ Estimates are not reliable because of small sample size (n<30) or relative standard error (standard error/estimates) >0.3.

Data published: <http://www.cdc.gov/vaccines/stats-surv/nhis/default.htm>

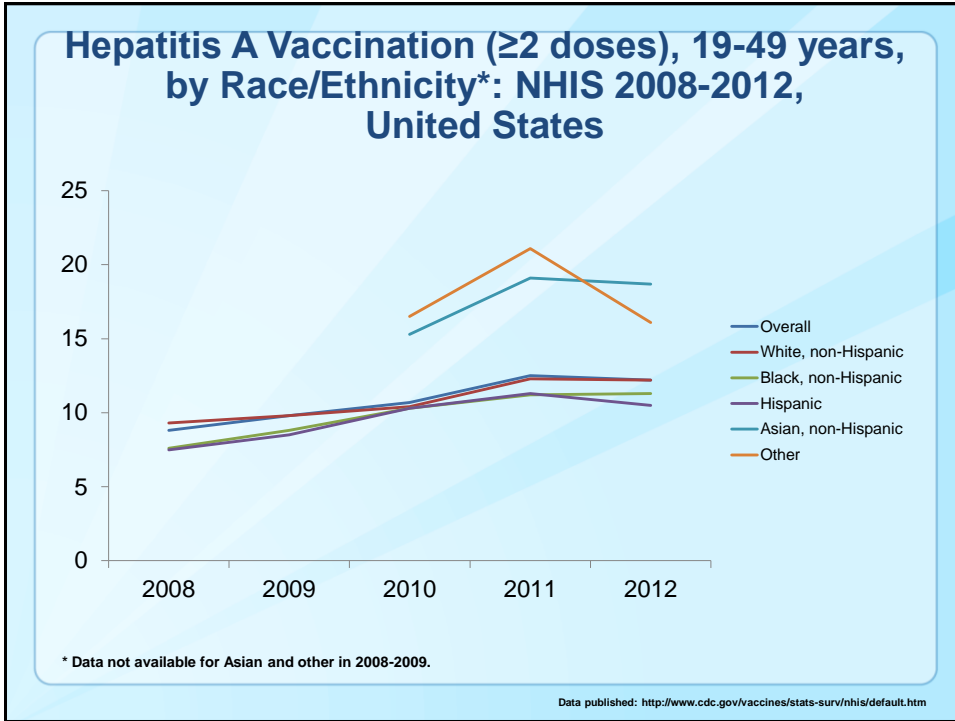
**Hepatitis A Vaccination (≥2 doses), 19-49 years,**  
**by Race/Ethnicity: NHIS 2008-2012, United States**

Group	2008 (%)	2009 (%)	2010 (%)	2011 (%)	2012(%)
<b>Overall</b>	9	10	11	13	12
<b>Race/ethnicity</b>					
White, non-Hispanic	9	10	10	12	12
Black, non-Hispanic	8	9	10	11	11
Hispanic	8	9	10	11	11*
Asian, non-Hispanic	NA	NA	15*	19*	19*
Other	NA	NA	17*	21*	16

NA=Not available

\* p<0.05 by t test for comparisons with non-Hispanic white as the reference.

Data published: <http://www.cdc.gov/vaccines/stats-surv/nhis/default.htm>



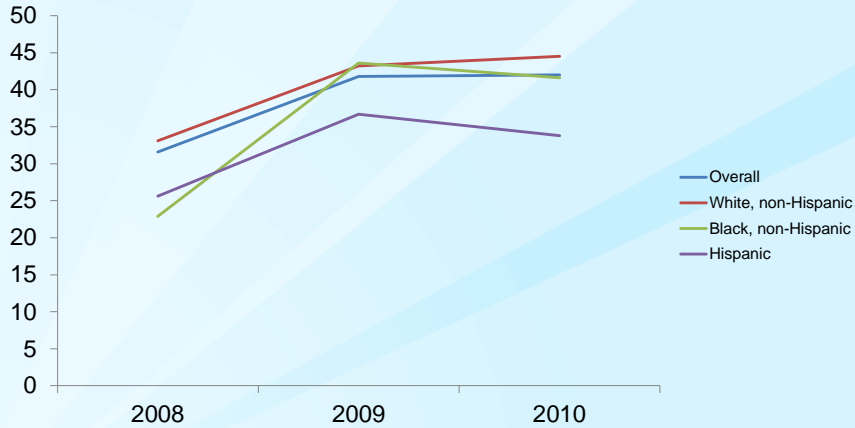
### Hepatitis B Vaccination, 19-49 years, High-risk\*, by Race/Ethnicity: NHIS 2008-2010, United States

Group	2008 (%)	2009 (%)	2010 (%)
<b>Overall</b>	32	42	42
<b>Race/ethnicity</b>			
White, non-Hispanic	33	43	45
Black, non-Hispanic	23	44	42
Hispanic	26	37	34 <sup>†</sup>
Asian, non-Hispanic	NA	NA	40
Other	NA	NA	-- <sup>§</sup>

NA=Not available  
<sup>\*</sup> Adults were considered at high risk for hepatitis B if they had hemophilia and had received clotting factor concentrations, were a man who had sex with other men, had taken street drugs by needle, had traded sex for money or drugs, had tested positive for human immunodeficiency virus (HIV), or had sex with someone who would meet any of the previous criteria; considered themselves at high risk for HIV infection, or reported having a sexually transmitted diseases other than HIV or acquired immunodeficiency syndrome (AIDS) during the previous 5 years (only in 2010). Information on high-risk status for hepatitis B was not collected in 2011.  
<sup>†</sup>p<0.05 by t test for comparisons with non-Hispanic white as the reference.  
<sup>§</sup> Estimates are not reliable because of small sample size (n<30) or relative standard error (standard error/estimates) >0.3.

Data published: <http://www.cdc.gov/vaccines/stats-surv/nhis/default.htm>

### Hepatitis B Vaccination, 19-49 years, High-risk\*, by Race/Ethnicity: NHIS 2008-2010, United States



\* Adults were considered at high risk for hepatitis B if they had hemophilia and had received clotting factor concentrations, were a man who had sex with other men, had taken street drugs by needle, had traded sex for money or drugs, had tested positive for human immunodeficiency virus (HIV), or had sex with someone who would meet any of the previous criteria; considered themselves at high risk for HIV infection, or reported having a sexually transmitted diseases other than HIV or acquired immune deficiency syndrome (AIDS) during the previous 5 years (only in 2010). Information on high-risk status for hepatitis B was not collected in 2011.

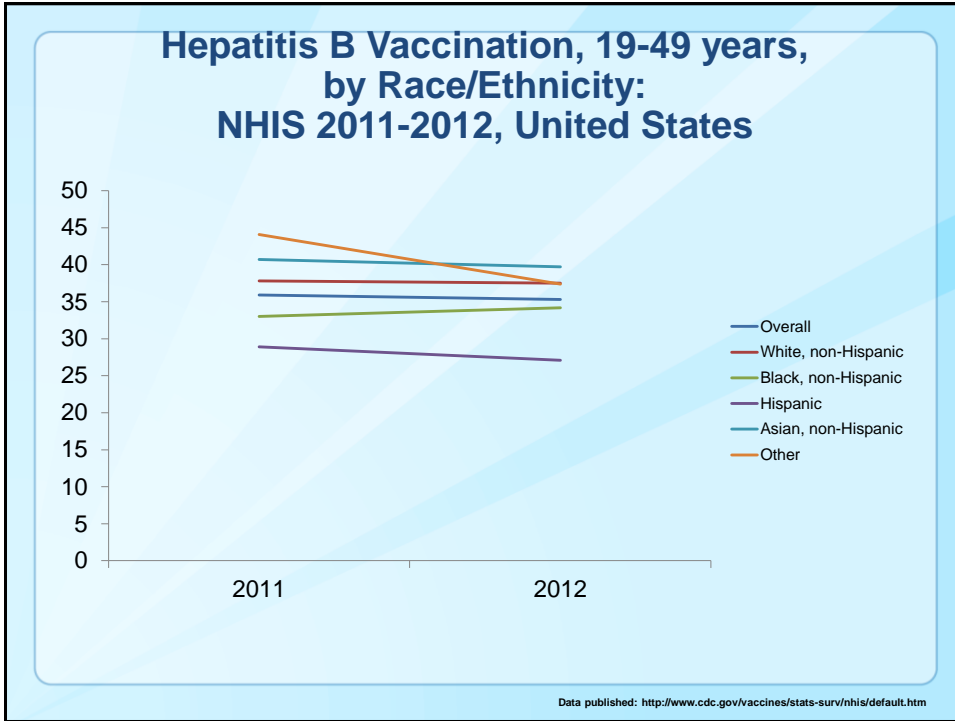
Data published: <http://www.cdc.gov/vaccines/stats-surv/nhis/default.htm>

### Hepatitis B Vaccination, 19-49 years, by Race/Ethnicity: NHIS 2011-2012, United States

Group	2011 (%)	2012 (%)
<b>Overall</b>	36	35
<b>Race/ethnicity</b>		
White, non-Hispanic	38	38
Black, non-Hispanic	33*	34*
Hispanic	29*	27*
Asian, non-Hispanic	41	40
Other	44	37

\* p<0.05 by t test for comparisons with non-Hispanic white as the reference.

Data published: <http://www.cdc.gov/vaccines/stats-surv/nhis/default.htm>

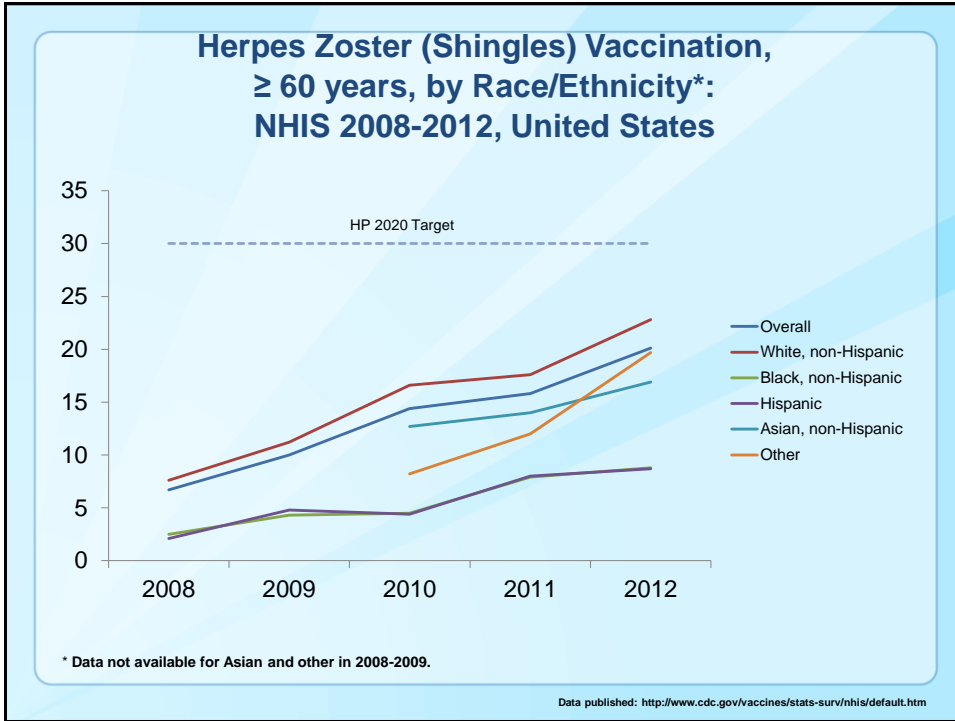


### Herpes Zoster (Shingles) Vaccination, ≥ 60 years, by Race/Ethnicity: NHIS 2008-2012, United States

Group	2008 (%)	2009 (%)	2010 (%)	2011 (%)	2012(%)
<b>Overall</b>	7	10	14	16	20
<b>Race/ethnicity</b>					
White, non-Hispanic	8	11	17	18	23
Black, non-Hispanic	3*	4*	5*	8*	9*
Hispanic	2*	5*	4*	8*	9*
Asian, non-Hispanic	NA	NA	13*	14*	17*
Other	NA	NA	8*	12	20

NA=Not available  
\* p<0.05 by t test for comparisons with non-Hispanic white as the reference.

Data published: <http://www.cdc.gov/vaccines/stats-surv/nhis/default.htm>

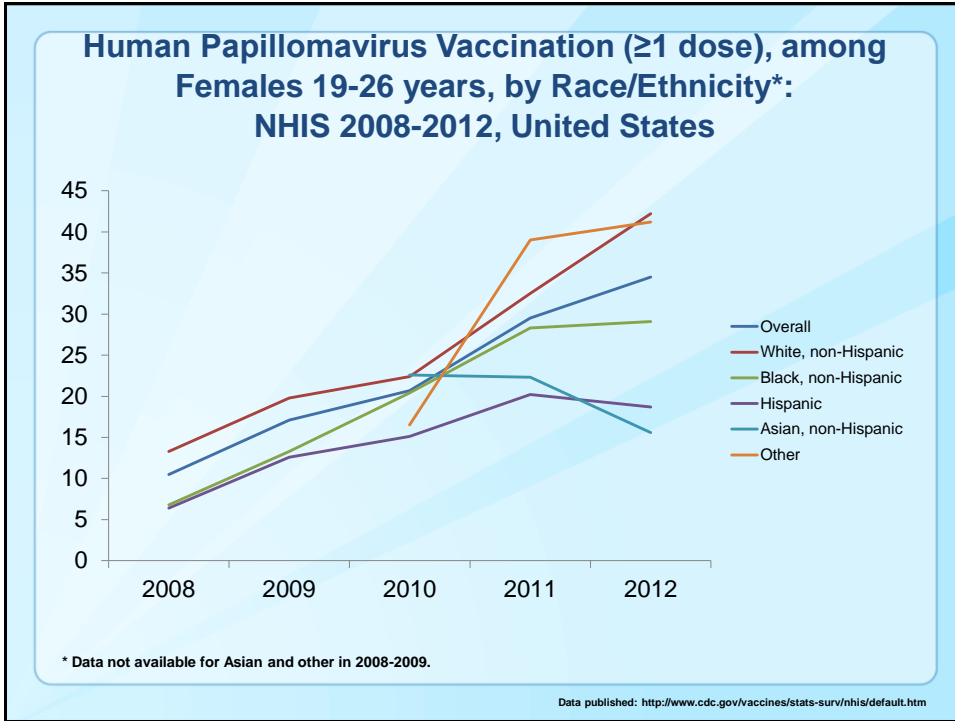


### Human Papillomavirus Vaccination (≥1 dose), among Females 19-26 years, Race/Ethnicity: NHIS 2008-2012, United States

Group	2008 (%)	2009 (%)	2010 (%)	2011 (%)	2012(%)
<b>Overall</b>	11	17	21	30	35
<b>Race/ethnicity</b>					
White, non-Hispanic	13	20	22	33	42
Black, non-Hispanic	7*	13*	20	28	29*
Hispanic	6*	13*	15*	20*	19*
Asian, non-Hispanic	NA	NA	23	22	16*
Other	NA	NA	17	39	41

NA=Not available  
\* p<0.05 by t test for comparisons with non-Hispanic white as the reference.

Data published: <http://www.cdc.gov/vaccines/stats-surv/nhis/default.htm>



### Tetanus Vaccination Including Pertussis Vaccine\*, Health-Care Personnel ≥19 years, by Race/Ethnicity: NHIS 2012, United States

Group	2012(%)
<b>Overall</b>	31
<b>Race/ethnicity</b>	
White, non-Hispanic	33
Black, non-Hispanic	23 <sup>†</sup>
Hispanic	25 <sup>†</sup>
Asian, non-Hispanic	39
Other	46

\* Respondents who had received a tetanus shot in the past 10 years were asked if their most recent shot was given in 2005 or later. Respondents who had received a tetanus shot since 2005 were asked if they were told that their most recent tetanus shot included the pertussis or whooping cough vaccine. Those without a "yes" or "no" classification for tetanus vaccination in the past 10 years or for tetanus vaccination since 2005, and those who reported tetanus vaccination since 2005 but did not know vaccine type (Td or Tdap) were excluded.

<sup>†</sup> p<0.05 by t test for comparisons with non-Hispanic white as the reference.

Data published: <http://www.cdc.gov/vaccines/stats-surv/nhis/default.htm>

### Tetanus Vaccination Including Pertussis Vaccine\*, Health-Care Personnel 19-64 years, by Race/Ethnicity: NHIS 2010-2012, United States

Group	2010 (%)	2011 (%)	2012(%)
<b>Overall</b>	20	27	33
<b>Race/ethnicity</b>			
White, non-Hispanic	22	27	35
Black, non-Hispanic	14†	22†	23†
Hispanic	14†	30	25†
Asian, non-Hispanic	27	28	41
Other	--§	31	46

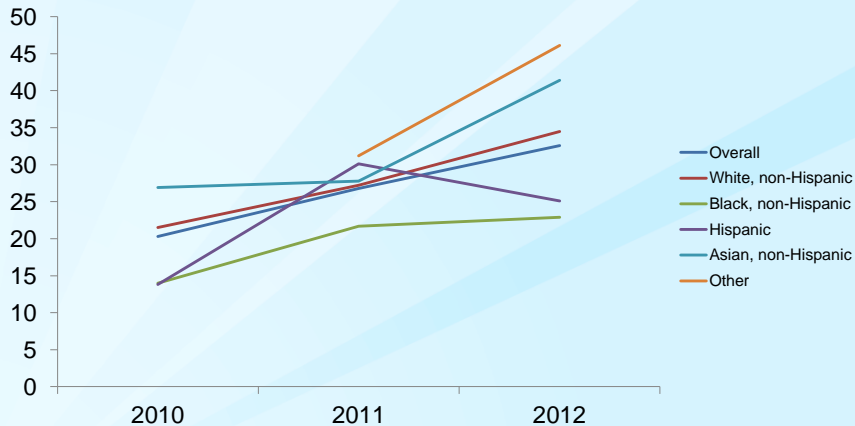
\* Respondents who had received a tetanus shot in the past 10 years were asked if their most recent shot was given in 2005 or later. Respondents who had received a tetanus shot since 2005 were asked if they were told that their most recent tetanus shot included the pertussis or whooping cough vaccine. Those without a "yes" or "no" classification for tetanus vaccination in the past 10 years or for tetanus vaccination since 2005, and those who reported tetanus vaccination since 2005 but did not know vaccine type (Td or Tdap) were excluded.

† p<0.05 by t test for comparisons with non-Hispanic white as the reference.

§ Estimates are not reliable because of small sample size (n <30) or relative standard error (standard error/estimates) >0.3

Data published: <http://www.cdc.gov/vaccines/stats-surv/nhis/default.htm>

### Tetanus Vaccination Including Pertussis Vaccine\*, Health-Care Personnel 19-64 years, by Race/Ethnicity: NHIS 2010-2012, United States



\* Respondents who had received a tetanus shot in the past 10 years were asked if their most recent shot was given in 2005 or later. Respondents who had received a tetanus shot since 2005 were asked if they were told that their most recent tetanus shot included the pertussis or whooping cough vaccine. Those without a "yes" or "no" classification for tetanus vaccination in the past 10 years or for tetanus vaccination since 2005, and those who reported tetanus vaccination since 2005 but did not know vaccine type (Td or Tdap) were excluded.

Data published: <http://www.cdc.gov/vaccines/stats-surv/nhis/default.htm>

### Tetanus Vaccination Including Pertussis Vaccine\*, Health-Care Personnel ≥65 years, by Race/Ethnicity: NHIS 2012, United States

Group	2012(%)
<b>Overall</b>	17
<b>Race/ethnicity</b>	
White, non-Hispanic	18
Black, non-Hispanic	--†
Hispanic	--†
Asian, non-Hispanic	--†
Other	--†

\* Respondents who had received a tetanus shot in the past 10 years were asked if their most recent shot was given in 2005 or later. Respondents who had received a tetanus shot since 2005 were asked if they were told that their most recent tetanus shot included the pertussis or whooping cough vaccine. Those without a "yes" or "no" classification for tetanus vaccination in the past 10 years or for tetanus vaccination since 2005, and those who reported tetanus vaccination since 2005 but did not know vaccine type (Td or Tdap) were excluded.

† Estimates are not reliable because of small sample size (n <30) or relative standard error (standard error/estimates) >0.3

Data published: <http://www.cdc.gov/vaccines/stats-surv/nhis/default.htm>

### Hepatitis B Vaccination (≥ 3 doses), Health-Care Personnel ≥ 19 years\*, by Race/Ethnicity: NHIS 2008-2012, United States

Group	2008 (%)	2009 (%)	2010 (%)	2011 (%)	2012(%)
<b>Overall</b>	69	65	63	64	65
<b>Race/ethnicity</b>					
White, non-Hispanic	74	65	64	65	66
Black, non-Hispanic	57†	66	59	57†	62
Hispanic	62†	56†	57	59†	60
Asian, non-Hispanic	NA	NA	73	70†	72
Other	NA	NA	70	70	76

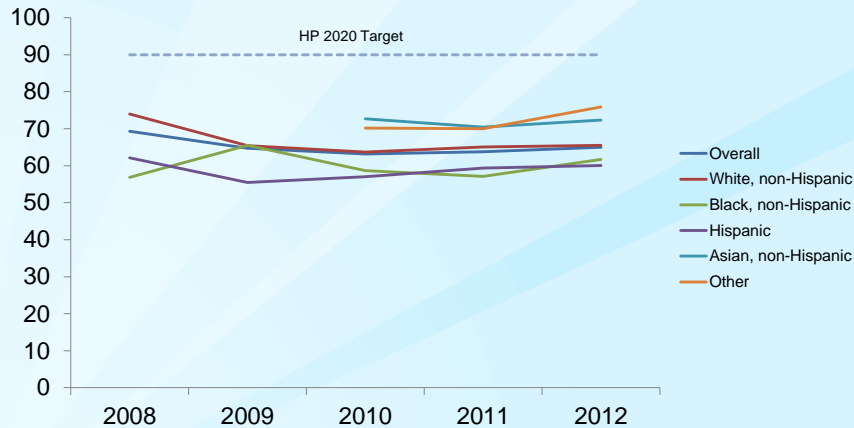
NA=Not available

\* 2008 data includes health-care personnel 19-49 years; 2009 data includes health-care personnel ≥ 18 years.

† p<0.05 by t test for comparisons with non-Hispanic white as the reference.

Data published: <http://www.cdc.gov/vaccines/stats-surv/nhis/default.htm>

### Hepatitis B Vaccination ( $\geq 3$ doses), Health-Care Personnel $\geq 19$ years\*, by Race/Ethnicity†: NHIS 2008-2012, United States



\* 2008 data includes health-care personnel 19-49 years; 2009 data includes health-care personnel  $\geq 18$  years.

† Data not available for Asian and other in 2008-2009.

Data published: <http://www.cdc.gov/vaccines/stats-surv/nhis/default.htm>

### For Additional Information

- ❑ NHIS 2008: [http://www.cdc.gov/nchs/data/hestat/vaccine\\_coverage/vaccine\\_coverage.htm](http://www.cdc.gov/nchs/data/hestat/vaccine_coverage/vaccine_coverage.htm)
- ❑ NHIS 2009: <http://www.cdc.gov/vaccines/stats-surv/nhis/2009-nhis.htm>
- ❑ NHIS 2010: <http://www.cdc.gov/mmwr/preview/mmwrhtml/mm6104a2.htm>
- ❑ NHIS 2011: [http://www.cdc.gov/mmwr/preview/mmwrhtml/mm6204a2.htm?s\\_cid=mm6204a2\\_w](http://www.cdc.gov/mmwr/preview/mmwrhtml/mm6204a2.htm?s_cid=mm6204a2_w)
- ❑ NHIS 2012: [http://www.cdc.gov/mmwr/preview/mmwrhtml/mm6305a4.htm?s\\_cid=mm6305a4\\_e](http://www.cdc.gov/mmwr/preview/mmwrhtml/mm6305a4.htm?s_cid=mm6305a4_e)
- ❑ Other Adult Vaccinations Reported via NHIS: <http://www.cdc.gov/vaccines/stats-surv/nhis/default.htm>
- ❑ BRFSS FluVaxView: <http://www.cdc.gov/flu/fluvoxview/index.htm>