Adult Vaccination Coverage
National Household Interview Survey (NHIS) 2015

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Cindy Weinbaum MD MPH
Immunization Services Division
Centers for Disease Control and Prevention
Adult Vaccination Coverage, NHIS 2015

- NHIS collects information from the noninstitutionalized U.S. civilian population using nationally representative samples.
  - Face-to-face interviews are conducted by the U.S. Census Bureau for CDC’s National Center for Health Statistics.
  - The total adult sample was 33,348 persons aged ≥19 years.
- 2015 data comprehensive analyses published May 5, 2017

Adult Vaccination Coverage for Selected Vaccines and Age Groups, National Health Interview Survey, 2010-15, and BRFSS survey for influenza vaccine 2010-16 seasons

Williams WW, et al. MMWR 2017
Adult Vaccination Coverage, Selected Vaccines by Age and Increased Risk (IR) Status, United States

- Pneumococcal, HR 19-64yrs: 23 (+2.8)
- Pneumococcal, ≥65 yrs: 64
- Herpes Zoster (Shingles), ≥60 yrs: 31 (+2.7)

HP2020 Targets

Williams WW, et al. MMWR 2017
Adult Tetanus-containing Vaccination Coverage by Age and High-risk Status, United States

- Td or Tdap past 10 yrs, 19-49 yrs: 62%
- Td or Tdap past 10 yrs, 50-64 yrs: 64%
- Td or Tdap past 10 yrs, ≥65 yrs: 57%
- Tdap past 10 yrs, ≥19 yrs: 23% (+3.1)
- Tdap past 10 yrs, Living with infant: 42% (+10.0)
- Tdap past 10 yrs, HCP ≥19 yrs: 46%

Williams WW, et al. MMWR 2017
Hepatitis B Vaccination Coverage by Age and High-risk Status, United States

HepB (≥3 doses), ≥19 yrs: 25%
HepB (≥3 doses), Chronic Liver Disease: 27%
HepB (≥3 doses), HCP ≥19 yrs: 65% (+4.1%)
HepB (≥3 doses), 19-49 yrs: 32%
HepB (≥3 doses), Diabetes 19-59 yrs: 24%
HepB (≥3 doses), Diabetes ≥60 yrs: 13%

HP2020 Targets
Williams WW, et al. MMWR 2017
HPV Vaccination Coverage (≥1 dose ever), Adults 19-26 years of age by Sex, United States

- Females 19-26 yrs: 42%
- Females 19-21 yrs: 42%
- Females 22-26 yrs: 41%
- Males 19-26 yrs: 10%
- Males 19-21 yrs: 16%
- Males 22-26 yrs: 7%

Williams WW, et al. MMWR 2017
Summary: Adult Vaccination Coverage Rate Increases from 2014 to 2015

- Pneumococcal, HR 19-64 yrs: 2.8, 23%
- Herpes Zoster, ≥60 yrs: 2.7, 31%
- Tdap, ≥19 yrs: 3.1, 23%

Williams WW, et al. MMWR 2017
Racial/Ethnic Vaccination Disparities -- NHIS 2015

- Racial/ethnic differences persisted for all seven vaccines assessed
  - widened for pneumococcal and herpes zoster

- Non-Hispanic black and Hispanic health care personnel had lower coverage than white HCP for influenza, Tdap, and HepB vaccinations.

Williams WW, et al. MMWR 2017
Association of Health Insurance Status and Usual Place of Health Care with Vaccination Coverage, 2015 NHIS

- 89% surveyed adults reported health insurance coverage

- Immunization coverage 2-5 times higher for persons with health insurance for influenza, Tdap, herpes zoster, and HPV

- Even among insured persons with $\geq 10$ physician contacts in past 12 months, 18.2%–85.6% missing a recommended vaccine

Williams WW, et al. MMWR 2017
Limitations of NHIS Findings

- NHIS excludes persons in the military and those residing in institutions – results apply to the civilian, non-institutionalized population
- Response rate 55.2% -- low response rate can result in selection bias if the nonresponse is unequal among participants regarding vaccination
- Reported vaccination status and high-risk/increased-risk conditions not validated by medical records
- Self-report of vaccination subject to recall bias
- Tdap estimates: potential bias due to exclusions

Williams WW, et al. MMWR 2017
For more information, contact CDC
1-800-CDC-INFO (232-4636)

The findings and conclusions in this report are those of the authors and do not necessarily represent the official position of the Centers for Disease Control and Prevention.