#### National Center for Immunization & Respiratory Diseases



# Adult Vaccination Coverage National Household Interview Survey (NHIS) 2015

**Presentation to the National Vaccine Advisory Committee** 

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**Cindy Weinbaum MD MPH** 

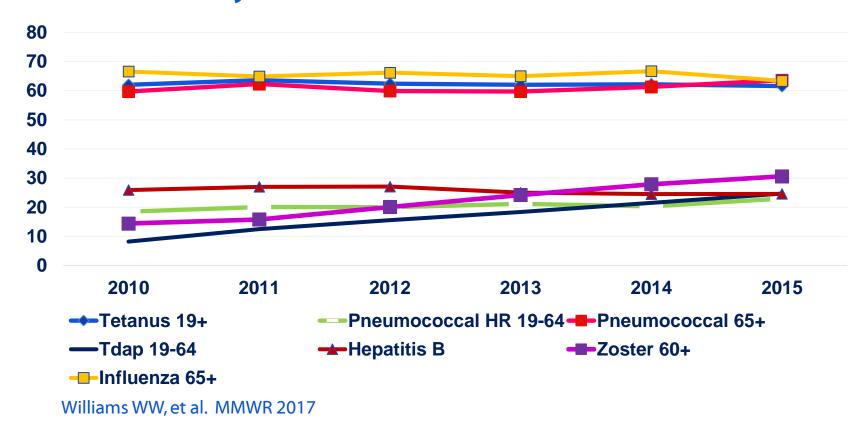
**Immunization Services Division** 

**Centers for Disease Control and Prevention** 

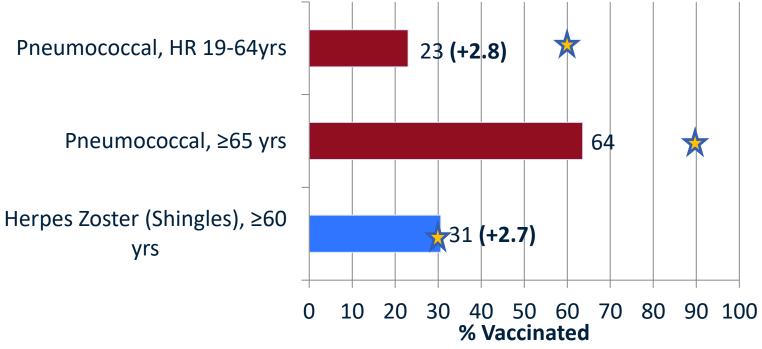
#### **Adult Vaccination Coverage, NHIS 2015**

- 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

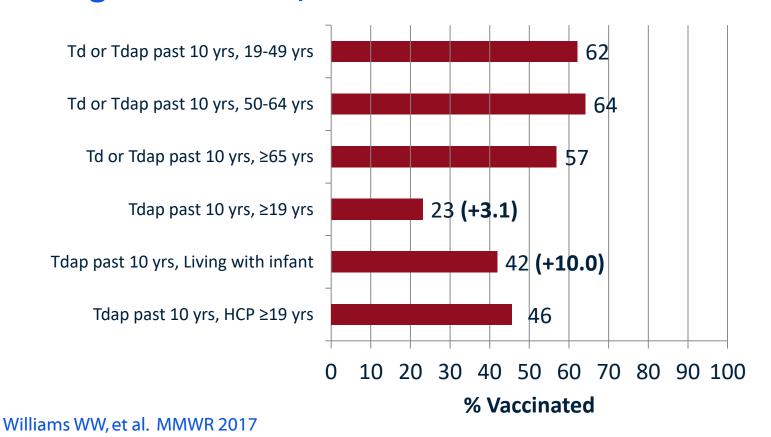


### Adult Vaccination Coverage, Selected Vaccines by Age and Increased Risk (IR) Status, United States

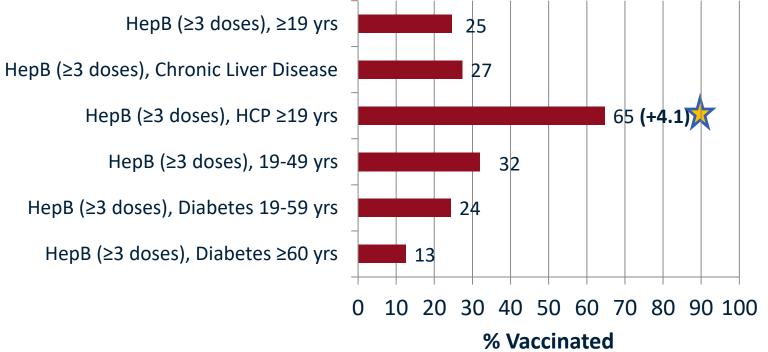




### Adult Tetanus-containing Vaccination Coverage by Age and High-risk Status, United States

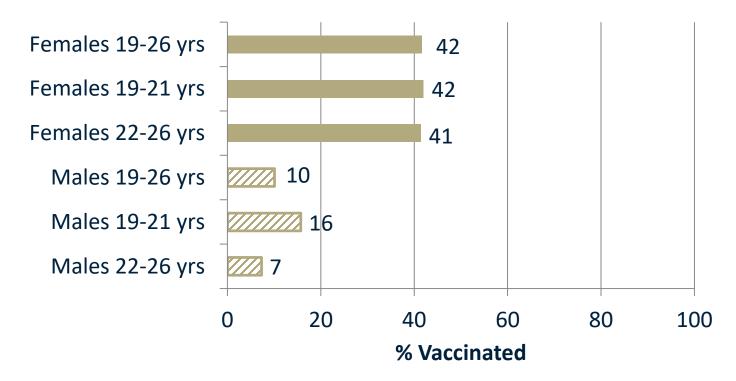


### Hepatitis B Vaccination Coverage by Age and High-risk Status, United States

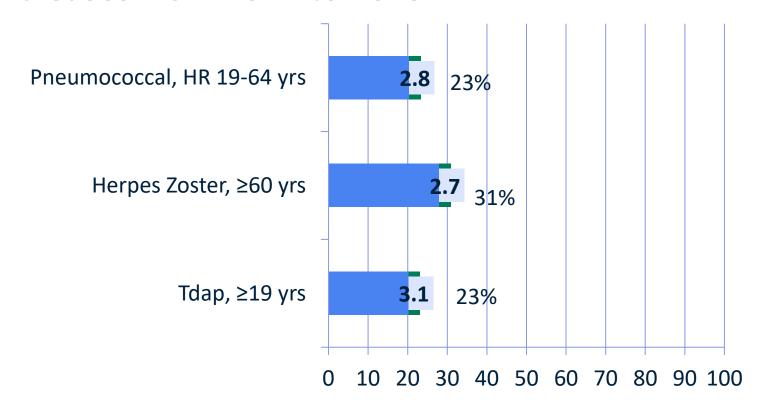




#### HPV Vaccination Coverage (≥1 dose ever), Adults 19-26 years of age by Sex, United States



### **Summary: Adult Vaccination Coverage Rate Increases from 2014 to 2015**



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.

### 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 >10 physician contacts in past 12 months, 18.2%-85.6% missing a recommended vaccine

#### **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



For more information, contact CDC 1-800-CDC-INFO (232-4636) TTY: 1-888-232-6348 www.cdc.gov

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.

