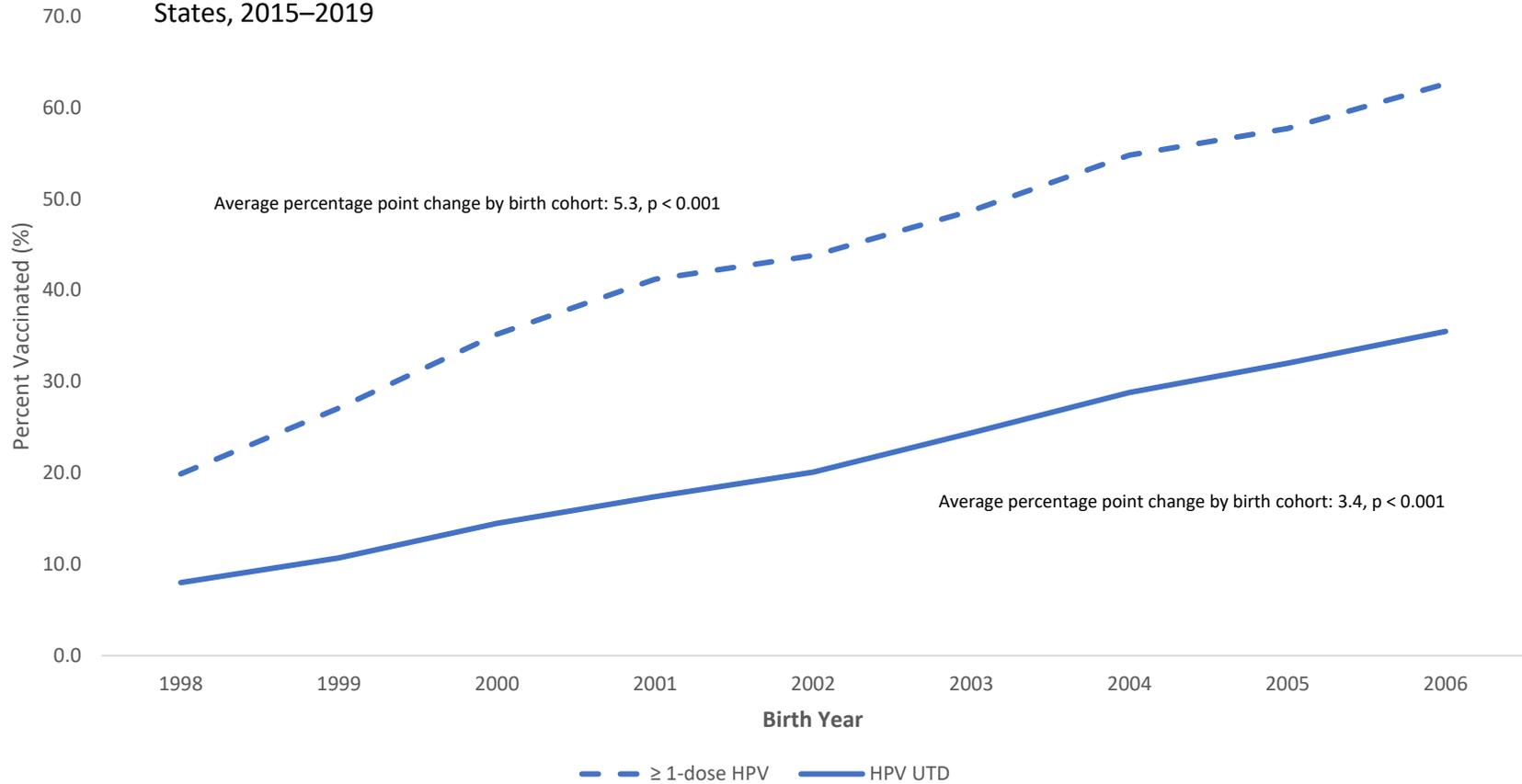


**SUPPLEMENTARY FIGURE 2.** HPV\* vaccination initiation ( $\geq 1$  dose) and HPV UTD<sup>†</sup> estimates among adolescents by age 13 years, by birth cohort — National Immunization Survey–Teen (NIS-Teen), United States, 2015–2019



**Abbreviations:** HPV=human papillomavirus; UTD = up-to-date.

\* HPV vaccine may be 9-valent (9vHPV), quadrivalent (4vHPV), or bivalent (2vHPV). Percentages are reported among females and males combined.

<sup>†</sup> HPV UTD includes those with  $\geq 3$  doses, and those with 2 doses when the first HPV dose was initiated at age  $< 15$  years, and there was at least 5 months minus 4 days between the first and second dose. This update to the HPV recommendation occurred in December 2016

(<https://www.cdc.gov/mmwr/volumes/65/wr/mm6549a5.htm>).