

**Supplemental Table 3.** State-stratified coverage changes for HPV vaccine initiation among patients ages 11-12 at 12 months

|                                     | Coverage change in<br>Southwestern state<br>( <i>n</i> =29,041) |              | Coverage change in<br>Northeastern state<br>( <i>n</i> =56,681) |              | Coverage change in<br>Midwestern state<br>( <i>n</i> =12,960) |              |
|-------------------------------------|---|--------------|---|--------------|---|--------------|
|                                     | % points  | (95% CI)     | % points  | (95% CI)     | % points  | (95% CI)     |
| Control (59 clinics)                | 11.2  | (9.7, 13.0)  | 25.5  | (24.6, 26.4) | 22.3  | (20.3, 24.5) |
| QI Coaching (90 clinics)            | 15.0  | (13.3, 16.9) | 27.1  | (26.4, 27.8) | 16.8  | (15.3, 18.4) |
| Communication Training (33 clinics) | 10.6  | (9.2, 12.1)  | 23.6  | (22.5, 24.7) | 18.4  | (16.5, 20.5) |
| Combined Intervention (85 clinics)  | 24.2  | (21.5, 27.3) | 27.2  | (26.4, 28.1) | 19.1  | (17.7, 20.5) |

*Note.* HPV vaccine coverage change and difference from control account for clustering and are adjusted for clinic's baseline HPV vaccine coverage, state, patients' sex, month, and cluster size. CI: confidence interval; QI: quality improvement.