

Supplemental Table 1. Full regression models predicting adolescent uptake of ≥ 1 dose of the HPV vaccine by 13-item *HPV-KQ* total score for total sample and by provider recommendation status

| Key knowledge variable: 13-item HPV-KQ | | | | | | | |
|--|---|----------------------|------------------|--|------------------|---|------------------|
| Outcome variable: Adolescent uptake of >1 dose of the HPV vaccine | | | | | | | |
| | | Model 1 | | Model 2 | | Model 3 | |
| | | All parents (N=1105) | | Parents reporting no provider recommendation (n=593) | | Parents reporting provider recommendation (n=510) | |
| Predictor Variables | | OR (95% CI) | p value | OR (95% CI) | p value | OR (95% CI) | p value |
| Parental HPV knowledge | <i>Total Score on 13-item HPV-KQ</i> | 1.22 (1.17,1.27) | <0.001 | 1.06 (0.98,1.15) | 0.12 | 1.08 (1.02,1.14) | 0.01 |
| Adolescent's race and ethnicity <i>(vs. White, non-Hispanic)</i> | <i>Hispanic</i> | 1.41 (0.67,2.96) | 0.36 | 1.01 (0.34,3.01) | 0.98 | 1.35 (0.6,3.02) | 0.47 |
| | <i>Non-Hispanic Black or African American</i> | 1.46 (0.74,2.87) | 0.27 | 2.25 (1.02,4.96) | 0.05 | 1.52 (0.55,4.16) | 0.42 |
| | <i>Non-Hispanic Other</i> | 0.8 (0.56,1.16) | 0.24 | 1.3 (0.27,6.31) | 0.74 | 0.55 (0.31,1) | 0.05 |
| Adolescent gender <i>(female vs. male or other)</i> | | 1.14 (0.84,1.54) | 0.41 | 1.91 (0.73,4.98) | 0.19 | 0.64 (0.47,0.86) | 0.003 |
| Adolescent's age | <i>In years</i> | 1.45 (1.36,1.53) | <0.001 | 1.27 (1.11,1.45) | <0.001 | 1.34 (1.27,1.41) | <0.001 |
| Adolescent's type of school | <i>Home/Online school vs. Public School</i> | 0.22 (0.1,0.49) | <0.001 | 0 (<0.001, <0.001) | <0.001 | 0.15 (0.06,0.38) | <0.001 |
| | <i>Other School vs. Public School</i> | 1.14 (0.6,2.17) | 0.68 | 2.13 (0.5,9.16) | 0.31 | 1.34 (0.7,2.57) | 0.37 |
| Parent's employment status | <i>Working vs Not working or Other</i> | 0.44 (0.22,0.87) | 0.02 | 0.59 (0.18,1.99) | 0.40 | 0.29 (0.14,0.61) | 0.001 |
| Travel time to regular healthcare provider | <i><15 minutes vs >15 minutes</i> | 1.69 (1.33,2.15) | <0.001 | 1.83 (0.72,4.63) | 0.20 | 2 (1.29,3.09) | 0.002 |
| Healthcare visit for adolescent in past 12 months | <i>Yes vs No/Other</i> | 2.32 (1.29,4.16) | 0.005 | 0.53 (0.08,3.5) | 0.51 | 1.75 (0.71,4.32) | 0.23 |
| Degrees of Freedom | | 11 | | 11 | | 11 | |
| -2 Log L | | 1099.2 | | 153.9 | | 560.9 | |

Supplemental Table 2. Full regression models predicting adolescent uptake of ≥ 1 dose of the HPV vaccine by 7-item *HPV-KQ* Factor One score and 3-item *HPV-KQ* Factor Two score for total sample and by provider recommendation status

| Key knowledge variable: 13-item HPV-KQ | | | | | | | |
|---|---|-------------------------|------------------|---|------------------|---|------------------|
| Outcome variable: Adolescent uptake of >1 dose of the HPV vaccine | | | | | | | |
| | | Model 1 | | Model 2 | | Model 3 | |
| | | All parents (N=1105) | | Parents reporting no provider recommendation (n=593) | | Parents reporting provider recommendation (n=510) | |
| Predictor Variables | | OR (95% CI) | p value | OR (95% CI) | p value | OR (95% CI) | p value |
| Parental HPV knowledge factor 1 | 7-item <i>HPV-KQ</i> Factor One | 1.1 (0.97,1.26) | 0.15 | 0.84 (0.68,1.04) | 0.11 | 0.98 (0.9,1.06) | 0.58 |
| Parental HPV knowledge factor 2 | 3-item <i>HPV-KQ</i> Factor Two | 1.63 (1.21,2.18) | 0.001 | 1.67 (0.91,3.07) | 0.10 | 1.32 (1.06,1.64) | 0.01 |
| Adolescent's race and ethnicity (vs. White, non-Hispanic) | <i>Hispanic</i> | 1.39 (0.68,2.83) | 0.37 | 1.1 (0.38,3.16) | 0.86 | 1.27 (0.6,2.72) | 0.53 |
| | <i>Non-Hispanic Black or African American</i> | 1.38 (0.7,2.75) | 0.35 | 2.16 (0.88,5.28) | 0.09 | 1.46 (0.53,4.02) | 0.46 |
| | <i>Non-Hispanic Other</i> | 0.9 (0.6,1.34) | 0.6 | 1.66 (0.39,7.08) | 0.49 | 0.59 (0.34,1.03) | 0.06 |
| Adolescent gender (female vs. male or other) | | 1.23 (0.9,1.68) | 0.19 | 2.07 (0.72,5.99) | 0.18 | 0.71 (0.53,0.94) | 0.02 |
| Adolescent's age | <i>In years</i> | 1.44 (1.35,1.54) | <0.001 | 1.25 (1.11,1.4) | <0.001 | 1.34 (1.27,1.42) | <0.001 |
| Adolescent's type of school | <i>Home/Online school vs. Public School</i> | 0.22 (0.11,0.47) | <0.001 | 0 (<0.001, <0.001) | <0.001 | 0.15 (0.06,0.38) | <0.001 |
| | <i>Other School vs. Public School</i> | 1.17 (0.62,2.2) | 0.628 | 2.08 (0.45,9.54) | 0.35 | 1.41 (0.74,2.7) | 0.3 |
| Parent's employment status | <i>Working vs Not working or Other</i> | 0.45 (0.23,0.87) | 0.02 | 0.64 (0.19,2.19) | 0.48 | 0.29 (0.13,0.62) | 0.001 |
| Travel time to regular healthcare provider | <i><15 minutes vs >15 minutes</i> | 1.69 (1.36,2.09) | <0.001 | 1.73 (0.67,4.49) | 0.26 | 2.03 (1.36,3.03) | 0.001 |
| Healthcare visit for adolescent in past 12 months | <i>Yes vs No/Other</i> | 2.51 (1.54,4.07) | <0.001 | 0.56 (0.1,3.24) | 0.51 | 1.79 (0.73,4.38) | 0.20 |
| Degrees of Freedom | | 12 | | 12 | | 12 | |
| -2 Log L | | 1101.9 | | 150.4 | | 560.2 | |