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| **Supplementary Table 2. Results of the full model multivariate Cox regression analysis of predictors of** **human papillomavirus vaccination** |
| **Characteristic** | **Full population(n=)** |  | **Characteristic** | **Full population(n=)** |
|   | **Standard EHR data** |  |   | **Standard EHR data** |
|   | **HR** |  **(95% CI)** |  |   | **HR** |  **(95% CI)** |
| **Age**  |   |   |   |   | **Visit count (continuous)** |   |   |   |
|  11-12 | ref |   | 0-3 | 1.06 | (1.05 | 1.07) |
|  13-15 | 0.46 | (0.45, | 0.48) |   |   |   |   |   |
|  16-17 | 0.37 | (0.35, | 0.4) |   | **Membership length** |   |   |   |
| **Language** |   |   |   |   | 1+ years | ref |
| English | ref |   | <1 year | 1.04 | (1.01, | 1.07) |
| Non-English | 1.05 | (1.01, | 1.1) |   | **Provider sex** |   |   |   |
| Unknown | 0.62 | (0.58, | 0.67) |   | Female | ref |
| **Race** |   |   |   |   | Male | 0.98 | (0.95, | 1.00) |
| Asian | ref |   | NA | 2.66 | (0.35, | 20.17) |
| White | 0.74 | (0.72, | 0.77) |   | Unknown | 0.67 | (0.38, | 1.18) |
| Black | 0.85 | (0.81, | 0.9) |   | **Provider classification** |   |   |   |
| Hawaiian/Pacific Islander | 0.91 | (0.83, | 0.99) |   | Family practice | ref |
| American Indian/Alaska native | 0.79 | (0.72, | 0.88) |   | Pediatrics | 1.13 | (1.1, | 1.16) |
| Other | 0.64 | (0.58, | 0.71) |   | Other | 1.07 | (1.03, | 1.11) |
| Unknown | 0.67 | (0.64, | 0.7) |   | Unknown or no PCP | 0.41 | (0.05, | 0.30) |
| **Ethnicity (non-Hispanic)** |   |   |   |   | **Region** |   |   |   |
| Hispanic | ref |   | Portland | ref |
| Non-Hipsanic | 0.70 | (0.68, | 0.73) |   | Salem/Eugene | 0.94 | (0.91, | 0.98) |
| **Insurance** |   |   |   |   | Vancouver/Longview | 0.87 | (0.84, | 0.89) |
| Non-Medicaid | ref |   |   |   |   |   |
| Medicaid | 0.99 | (0.96, | 1.02) |   | **Time to provider** |   |
| **Sex** |   |   |   |   | 1-10 minutes | ref |
| F | ref |   | 11-20 minutes | 0.98 | (0.96, | 1.00) |
| M | 0.87 | (0.78, | 0.97) |   | 20-30 minutes | 0.93 | (0.9, | 0.96) |
| U | 0.97 | (0.5, | 1.87) |   | 30+ minutes | 0.87 | (0.84, | 0.91) |
| **Gender** |   |   |   |   |   |   |   |   |
| F | ref |   | **Community income rank** |   |   |   |
| M | 1.14 | (1.02, | 1.27) |   | High (120K+) | ref |
| Trans | 1.50 | (1.27, | 1.77) |   |  Moderate (75-120K) | 0.90 | (0.87, | 0.93) |
| U | 1.34 | (1.2, | 1.5) |   | Low/moderate (45-75K) | 0.84 | (0.81, | 0.87) |
| **Rurality** |   |   |   |   | Low Income (30-45K) | 0.89 | (0.85, | 0.94) |
| Rural | ref |   |   |   |   |   |
| Urban | 1.00 | (0.95, | 1.06) |   | **Population density** |   |   |   |
| **Other vaccinations (continuous)** |   |   |   |   | <500/sq mile | 0.91 | (0.88, | 0.93) |
| 0-5 | 1.57 | (1.55, | 1.6) |   | 500-1000/sq mile | ref |
|   |   |   |   |   | >1000/sq mile | 1.06 | (1.03, | 1.09) |

CI, confidence intervals; EHR, electronic health record; HR, hazard ratio; NA, not available; PCP, primary care provider.