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| **Table 4.** Vaccine uptake by statistically significant bivariate and multivariate predictors |
|  |  | Received vaccine |
|  |  | n (%) |
| **Measles, Mumps, Rubella vaccine** |  |
|  | Vaccine importance group‡ |  |
|  | Low to moderate | 106 (80.9%) |
|  | High  | 231 (97.1%) |
|  | Very high | 325 (96.7%) |
|  | Vaccine info source: doctor\* |  |
|  | Yes | 618 (94.5%) |
|  | No | 44 (86.3%) |
|  | Vaccine info source: family† |  |
|  | Yes | 89 (97.8%) |
|  | No | 573 (93.3%) |
|  | Vaccine info source: social media‡ |  |
|  | Yes | 9 (69.2%) |
|  | No | 653 (94.4%) |
|  | Values in daily life: excitement† |  |
|  | Very important/important | 478 (93.5%) |
|  | Not at all important/slightly important/moderately important | 184 (94.8%) |
|  | Values in daily life: warm relationships with others‡ |  |
|  | Very important/important | 596 (94.5%) |
|  | Not at all important/slightly important/moderately important | 66 (89.2%) |
|  | Values in daily life: self-fulfillment\* |  |
|  | Very important/important | 573 (94.7%) |
|  | Not at all important/slightly important/moderately important | 89 (89.0%) |
|  | Like thinking about vaccine decisions\* |  |
|  | Strongly agree/agree | 254 (90.1%) |
|  | Strongly disagree/disagree/neutral | 408 (96.5%) |
|  | Parent's insurance coverage‡ |  |
|  | None | 38 (88.4%) |
|  | Private only | 330 (96.2%) |
|  | Public only | 267 (91.8%) |
|  | Private and public | 20 (100.0%) |
|  | Don't know | 7 (87.5%) |
|  | Change in vaccine comfort level between children‡ |  |
|  | Only have one child | 138 (93.9%) |
|  | More comfortable with younger child | 143 (91.1%) |
|  | Less comfortable with younger child | 37 (82.2%) |
|  | Never comfortable with vaccines | 55 (91.7%) |
|  | Always comfortable with vaccines | 289 (97.6%) |
|  | Child's insurance coverage\* |  |
|  | None | 7 (87.5%) |
|  | Private only | 296 (96.4%) |
|  | Public only | 335 (92.3%) |
|  | Private and public | 19 (95.0%) |
|  | Don't know | 5 (71.4%) |
|  | Parent sex\* |  |
|  | Male | 125 (88.0%) |
|  | Female | 537 (95.4%) |
| **Haemophilus influenzae type B vaccine** |  |
|  | Vaccine importance group‡ |  |
|  | Low to moderate | 81 (61.8%) |
|  | High  | 219 (90.5%) |
|  | Very high | 346 (95.3%) |
|  | Vaccine info source: doctor\* |  |
|  | Yes | 605 (88.7%) |
|  | No | 41 (75.9%) |
|  | Vaccine nfo source: academic journal† |  |
|  | Yes | 63 (91.3%) |
|  | No | 583 (87.4%) |
|  | Vaccine info source: internet‡ |  |
|  | Yes | 94 (78.3%) |
|  | No | 552 (89.6%) |
|  | Values in daily life: self-fulfillment‡ |  |
|  | Very important/important | 558 (88.3%) |
|  | Not at all important/slightly important/moderately important | 88 (84.6%) |
|  | Values in daily life: self-respect† |  |
|  | Very important/important | 594 (87.6%) |
|  | Not at all important/slightly important/moderately important | 52 (89.7%) |
|  | Like thinking about vaccine decisions\* |  |
|  | Strongly agree/agree | 250 (84.2%) |
|  | Strongly disagree/disagree/neutral | 396 (90.2%) |
|  | Prefer to do own research about vaccines\* |  |
|  | Strongly agree/agree | 283 (85.2%) |
|  | Strongly disagree/disagree/neutral | 363 (89.9%) |
|  | Child's insurance coverage‡ |  |
|  | None | 6 (54.6%) |
|  | Private only | 279 (89.1%) |
|  | Public only | 337 (87.8%) |
|  | Private and public | 20 (90.9%) |
|  | Don't know | 4 (66.7%) |
|  | Race† |  |
|  | White | 514 (88.6%) |
|  | Black | 59 (79.7%) |
|  | Asian | 31 (93.9%) |
|  | Other | 21 (87.5%) |
|  | Mixed race | 21 (84.0%) |
|  | Income‡ |  |
|  | $60,000 or less | 398 (90.5%) |
|  | $60,001 to $100,000 | 138 (81.2%) |
|  | $100,001 or more | 110 (87.3%) |
|  | Parent works in healthcare field\* |  |
|  | Yes | 80 (81.6%) |
|  | No | 566 (88.7%) |
|  | Parent sex\* |  |
|  | Male | 109 (81.3%) |
|  | Female | 537 (89.2%) |
| **Pneumococcal Conjugate Vaccine** |  |
|  | Vaccine importance group‡ |  |
|  | Low to moderate | 56 (43.1%) |
|  | High  | 180 (77.9%) |
|  | Very high | 321 (91.2%) |
|  | Vaccine info source: family† |  |
|  | Yes | 78 (82.1%) |
|  | No | 479 (77.5%) |
|  | Vaccine info source: friends and/or other parents‡ |  |
|  | Yes | 58 (66.7%) |
|  | No | 499 (79.7%) |
|  | Change in vaccine comfort level between children\* |  |
|  | Only have one child | 111 (75.0%) |
|  | More comfortable with younger child | 130 (80.8%) |
|  | Less comfortable with younger child | 32 (61.5%) |
|  | Never comfortable with vaccines | 51 (79.7%) |
|  | Always comfortable with vaccines | 233 (80.9%) |
|  | Parent marital status\* |  |
|  | Single/not married | 112 (71.8%) |
|  | Married/domestic partner/widowed | 416 (80.6%) |
|  | Divorced/separated | 29 (70.7%) |
|  | Parent's age\* |  |
|  | 18 -24  | 73 (76.8%) |
|  | 25 - 34 | 336 (80.4%) |
|  | 35 - 44 | 126 (77.8%) |
|  | 45+ | 22 (57.9%) |
|  | Income\* |  |
|  | $60,000 or less | 331 (78.6%) |
|  | $60,001 to $100,000 | 122 (72.2%) |
|  | $100,001 or more | 104 (84.6%) |
| **Rotavirus vaccine** |  |
|  | Vaccine importance group‡ |  |
|  | Low to moderate | 88 (66.7%) |
|  | High  | 223 (90.7%) |
|  | Very high | 359 (98.1%) |
|  | Vaccine info source: doctor\* |  |
|  | Yes | 629 (91.2%) |
|  | No | 41 (75.9%) |
|  | Vaccine info source: religious leaders† |  |
|  | Yes | 8 (80.0%) |
|  | No | 662 (90.2%) |
|  | Vaccine info source: social media‡ |  |
|  | Yes | 9 (64.3%) |
|  | No | 661 (90.6%) |
|  | Vaccine info source: internet\* |  |
|  | Yes | 103 (84.4%) |
|  | No | 567 (91.2%) |
|  | Values in daily life: warm relationships with others‡ |  |
|  | Very important/important | 607 (91.0%) |
|  | Not at all important/slightly important/moderately important | 63 (81.8%) |
|  | Values in daily life: security\* |  |
|  | Very important/important | 627 (90.5%) |
|  | Not at all important/slightly important/moderately important | 43 (84.3%) |
|  | Values in daily life: self-fulfillment\* |  |
|  | Very important/important | 580 (90.3%) |
|  | Not at all important/slightly important/moderately important | 90 (88.2%) |
|  | Like thinking about vaccine decisions‡ |  |
|  | Strongly agree/agree | 252 (84.6%) |
|  | Strongly disagree/disagree/neutral | 418 (93.7%) |
|  | Prefer to do own research about vaccines\* |  |
|  | Strongly agree/agree | 292 (87.2%) |
|  | Strongly disagree/disagree/neutral | 378 (92.4%) |
|  | Parent's insurance coverage† |  |
|  | None | 42 (89.4%) |
|  | Private only | 325 (91.3%) |
|  | Public only | 272 (87.7%) |
|  | Private and public | 24 (100.0%) |
|  | Don't know | 7 (100.0%) |
|  | Child's insurance coverage‡ |  |
|  | None | 7 (63.6%) |
|  | Private only | 289 (90.6%) |
|  | Public only | 344 (90.1%) |
|  | Private and public | 23 (95.8%) |
|  | Don't know | 7 (87.5%) |
|  | Income‡ |  |
|  | $60,000 or less | 411 (92.6%) |
|  | $60,001 to $100,000 | 152 (85.4%) |
|  | $100,001 or more | 107 (87.7%) |
|  | Parent marital status‡ |  |
|  | Single/not married | 127 (84.7%) |
|  | Married/domestic partner/widowed | 503 (91.3%) |
|  | Divorced/separated | 40 (93.0%) |
|  | Parent's education† |  |
|  | High school or less | 144 (91.7%) |
|  | Some college | 142 (90.5%) |
|  | Technical school/Associate's degree | 128 (94.8%) |
|  | Bachelor's degree | 173 (85.2%) |
|  | Master's degree or higher | 83 (90.2%) |
|  | Parent sex\* |  |
|  | Male | 111 (83.5%) |
|  | Female | 559 (91.5%) |
|  | Community Type‡ |  |
|  | Urban | 216 (87.1%) |
|  | Suburban | 295 (89.9%) |
|  | Rural | 159 (94.6%) |
|  | Number of children in household‡ |  |
|  | 1 | 266 (85.8%) |
|  | 2 | 244 (92.1%) |
|  | 3 | 109 (98.2%) |
|  | 4 | 39 (88.6%) |
|  | 5+ | 12 (85.7%) |
| **Varicella Vaccine** |  |
|  | Vaccine importance group‡ |  |
|  | Low to moderate | 83 (67.5%) |
|  | High  | 203 (91.9%) |
|  | Very high | 307 (93.9%) |
|  | Vaccine info source: doctor\* |  |
|  | Yes | 555 (89.1%) |
|  | No | 38 (79.2%) |
|  | Vaccine info source: social media‡ |  |
|  | Yes | 9 (69.2%) |
|  | No | 584 (88.8%) |
|  | Vaccine info source: internet\* |  |
|  | Yes | 79 (81.4%) |
|  | No | 514 (89.6%) |
|  | Prefer to do own research about vaccines\* |  |
|  | Strongly agree/agree | 268 (86.5%) |
|  | Strongly disagree/disagree/neutral | 325 (90.0%) |
|  | Parent marital status‡ |  |
|  | Single/not married | 125 (82.2%) |
|  | Married/domestic partner/widowed | 428 (89.7%) |
|   | Divorced/separated | 40 (95.2%) |
| \*significant in bivariate analysis (p<0.05) |  |
| †significant in multivariate analysis (p<0.05) |  |
| ‡significant in both bivariate and multivariate analysis (p<0.05) |  |