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| **Supplemental Table 1. Characteristics of those Included vs Excluded in Analysis** | | | | |
|  |  | **Included** | **Excluded** |  |
|  |  | **n=1225** | **n=391** |  |
|  | **Total** | **n (col %)** | **n (col %)** | **p-value** |
| **Demographic Characteristics** | | | | |
| **Maternal Race/Ethnicity** |  |  |  |  |
| Non-Hispanic White | 923 | 769 (62.8%) | 154 (39.4%) | <0.01 |
| Non-Hispanic Black | 56 | 40 (3.3%) | 16 (4.1%) |  |
| Hispanic | 202 | 151 (12.3%) | 51 (13.0%) |  |
| Asian | 213 | 165 (13.5%) | 48 (12.3%) |  |
| Mixed/other/unknown | 222 | 100 (8.2%) | 122 (31.2%) |  |
| **Maternal Age (years)** |  |  |  |  |
| <30 | 561 | 418 (34.1%) | 143 (37.0%) | 0.18 |
| 30-34 | 635 | 498 (40.7%) | 137 (35.4%) |  |
| 35+ | 416 | 309 (25.2%) | 107 (27.7%) |  |
| **Maternal Education** |  |  |  |  |
| High school or less | 139 | 109 (9.2%) | 30 (10.4%) | 0.52 |
| Some college - college graduate | 810 | 647 (54.5%) | 163 (56.6%) |  |
| Masters degree or higher | 527 | 432 (36.4%) | 95 (33.0%) |  |
| **Other Characteristics** | | | | |
| **High risk for influenza complications** |  |  |  |  |
| Yes | 360 | 260 (21.2%) | 100 (25.6%) | 0.07 |
| No | 1256 | 965 (78.8%) | 291 (74.4%) |  |
| **Influenza or other ARI during pregnancy** |  |  |  |  |
| Influenza-positive/ARI symptoms | 55 | 42 (3.4%) | 13 (3.3%) | 0.12 |
| Influenza negative or not tested/ARI symptoms | 514 | 406 (33.1%) | 108 (27.6%) |  |
| Not tested/no ARI symptoms | 1047 | 777 (63.4%) | 270 (69.1%) |  |
| **Vaccination during Pregnancy** |  |  |  |  |
| Yes | 1028 | 799 (65.2%) | 229 (61.1%) | 0.14 |
| No | 572 | 426 (34.8%) | 146 (38.9%) |  |
| Abbreviations: ARI, Acute Respiratory Illness | | | | |

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| **Supplemental Table 2. Crude (cOR) and Adjusted Odds Ratios (aOR) for the Relationship between IIV3 Vaccination during Pregnancy and 6-month Infant Development for the Five ASQ-3 Domains Restricting the Sample to Term Deliveries (37 weeks or greater)** | | | | | | | |
|  | **Not on Schedule (Further Assessment or Monitor)** |  |  |  |  | | |
| **ASQ-3 Screening Domain** | **n (%)** | **cOR** | **95% CI** | **aORa** | **95% CI** | | |
| Communicationb |  |  |  |  |  | | |
| Vaccinated during pregnancy (n=773) | 48 (6.2%) | 0.90 | 0.54-1.40 | 0.9 | 0.55-1.53 | | |
| Not vaccinated during pregnancy (n=410) | 29 (7.1%) | Ref |  | Ref |  | | |
| Gross Motor |  |  |  |  |  | | |
| Vaccinated during pregnancy (n=773) | 84 (10.9%) | 0.97 | 0.66-1.41 | 0.92 | 0.62-1.37 | | |
| Not vaccinated during pregnancy (n=410) | 46 (11.2%) | Ref |  | Ref |  | | |
| Fine Motor |  |  |  |  |  | | |
| Vaccinated during pregnancy (n=764) | 66 (8.0%) | 1.13 | 0.73-1.77 | 1.01 | 0.63-1.62 | | |
| Not vaccinated during pregnancy (n=402) | 31 (7.7%) | Ref |  | Ref |  | | |
| Problem Solvingb |  |  |  |  |  | | |
| Vaccinated during pregnancy (n=772) | 44 (5.7%) | 0.89 | 0.54-1.47 | 0.89 | 0.52-1.54 | | |
| Not vaccinated during pregnancy (n=410) | 26 (6.3%) | Ref |  | Ref |  | | |
| Personal Socialc |  |  |  |  |  | | |
| Vaccinated during pregnancy (n=773) | 72 (9.3%)\* | 0.65 | 0.45-0.94 | 0.7 | 0.46-1.04 | | |
| Not vaccinated during pregnancy (n=410) | 56 (13.7%) | Ref |  | Ref |  | | |
| aAll ORs adjusted for study site, infant age (month) when ASQ-3 was completed, month of conception (Apr-Oct vs. Nov-Mar), trivalent inactivated vaccination (IIV3) in the year prior to pregnancy, high risk medical conditions, and influenza/acute respiratory illness (ARI) status during pregnancy. | | | | | | | |
| bMaternal race/ethnicity was significantly associated with vaccination status and Communication and Problem Solving when the sample was restricted to term deliveries (37 weeks or greater) and included as an additional confounder in the model for each of these domains. | | | | | | | |  |
| c Maternal age was significantly associated with vaccination status and the Personal Social domain when the sample was restricted to term deliveries (37 weeks or greater) and included as an additional confounder in the model. | | | | | |  |  |  |
| Abbreviations: IIV3, trivalent inactivated influenza vaccination, ASQ-3, Ages and Stages Questionnaire Third Edition; ARI, Acute Respiratory Illness | | | | | | | |  |
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| **Supplemental Table 3. Characteristics of the Cohort by ASQ-3 Domains** | | | | |
|  |  | **Communication** | |  | **Gross Motor** | |  |
|  |  | **On Schedule** | **Not On Schedule** |  | **On Schedule** | **Not On Schedule** |  |
|  |  | **n=1144** | **n=81** |  | **n=1088** | **n=137** |  |
|  | **Total** | **n (row %)** | **n (row %)** | **p-value** | **n (row %)** | **n (row %)** | **p-value** |
| **Demographic Characteristics** |  |  |  |  |  |  |  |
| **Maternal Race/Ethnicity** |  |  |  |  |  |  |  |
| White | 769 | 716 (93.1%) | 53 (6.9%) | 0.04 | 690 (89.7%) | 79 (10.3%) | 0.10 |
| African American | 40 | 38 (95.0%) | 2 (5.0%) |  | 39 (97.5%) | 1 (2.5%) |  |
| Hispanic | 151 | 147 (97.4%) | 4 (2.7%) |  | 131 (86.8%) | 20 (13.3%) |  |
| Asian | 165 | 147 (89.1%) | 18 (10.9%) |  | 139 (84.2%) | 26 (15.8%) |  |
| Mixed/other/unknown | 100 | 96 (96.0%) | 4 (4.0%) |  | 89 (89.0%) | 11 (11.0%) |  |
| **Maternal Age** |  |  |  |  |  |  |  |
| <30 | 418 | 394 (94.3%) | 24 (5.7%) | 0.13 | 380 (90.9%) | 38 (9.1%) | 0.19 |
| 30-34 | 498 | 469 (94.2%) | 29 (5.8%) |  | 440 (88.4%) | 58 (11.7%) |  |
| 35+ | 309 | 281 (90.9%) | 28 (9.1%) |  | 268 (86.7%) | 41 (13.3%) |  |
| **Maternal Education** |  |  |  |  |  |  |  |
| High school or less | 109 | 104 (95.4%) | 5 (4.6%) | 0.64 | 100 (91.7%) | 9 (8.3%) | 0.50 |
| Some college - college graduate | 647 | 602 (93.0%) | 45 (7.0%) |  | 578 (89.3%) | 69 (10.7%) |  |
| Master's degree or higher | 432 | 402 (93.1%) | 30 (6.9%) |  | 380 (88.0%) | 52 (12.0%) |  |
| **Parity** |  |  |  |  |  |  |  |
| 0 | 598 | 556 (93.0%) | 42 (7.0%) | 0.64 | 533 (89.1%) | 65 (10.9%) | 1.00 |
| 1+ | 598 | 560 (93.7%) | 38 (6.4%) |  | 533 (89.1%) | 65 (10.9%) |  |
| **Behavioral Characteristics during Pregnancy** |  |  |  |  |  |  |  |
| **Smoking Status** |  |  |  |  |  |  |  |
| Yes | 63 | 61 (96.8%) | 2 (3.2%) | 0.25 | 60 (95.2%) | 3 (4.8%) | 0.11 |
| No | 1134 | 1056 (93.1%) | 78 (6.9%) |  | 1006 (88.7%) | 128 (11.3%) |  |
| **Alcohol Use** |  |  |  |  |  |  |  |
| Yes | 365 | 327 (89.6%) | 38 (10.4%) | <0.01 | 323 (88.5%) | 42 (11.5%) | 0.66 |
| No | 827 | 785 (94.9%) | 42 (5.1%) |  | 739 (89.4%) | 88 (10.6%) |  |
| **Prenatal/Multivitamin Use** |  |  |  |  |  |  |  |
| Yes | 1131 | 1054 (93.2%) | 77 (6.8%) | 0.26 | 1007 (89.0%) | 124 (11.0%) | 0.72 |
| No | 63 | 61 (96.8%) | 2 (3.2%) |  | 57 (90.5%) | 6 (9.5%) |  |
| **Infant Characteristics** |  |  |  |  |  |  |  |
| **Preterm Birth** |  |  |  |  |  |  |  |
| Yes | 39 | 35 (89.7%) | 4 (10.3%) | 0.35 | 32 (82.2%) | 7 (18.0%) | 0.18 |
| No | 1183 | 1106 (93.5%) | 77 (6.5%) |  | 1053 (89.0%) | 130 (11.0%) |  |
| **Sex of Child** |  |  |  |  |  |  |  |
| Female | 615 | 571 (92.9%) | 44 (7.2%) | 0.45 | 546 (88.8%) | 69 (11.2%) | 0.91 |
| Male | 608 | 571 (93.9%) | 37 (6.1%) |  | 541 (89.0%) | 67 (11.0%) |  |
| **Other Characteristics** |  |  |  |  |  |  |  |
| **Month of Conception** |  |  |  |  |  |  |  |
| November-March | 254 | 235 (92.5%) | 19 (7.5%) | 0.39 | 221 (87.0%) | 33 (13.0%) | 0.30 |
| April-October | 971 | 909 (93.6%) | 62 (6.4%) |  | 867 (89.3%) | 104 (10.7%) |  |
| **Vaccination in the 1 year prior to pregnancy** |  |  |  |  |  |  |  |
| Yes | 413 | 381 (92.3%) | 32 (7.8%) | 0.25 | 358 (86.7%) | 55 (13.3%) | 0.09 |
| No | 812 | 763 (94.0%) | 49 (6.0%) |  | 730 (89.9%) | 82 (10.1%) |  |
| **Infant age (months) at ASQ-3** |  |  |  |  |  |  |  |
| 5 | 225 | 204 (90.7%) | 21 (9.3%) | 0.07 | 185 (82.2%) | 40 (17.8%) | <0.01 |
| 6 | 1000 | 940 (94.0%) | 60 (6.0%) |  | 903 (90.3%) | 97 (9.7%) |  |
| **High risk for influenza complications** |  |  |  |  |  |  |  |
| Yes | 260 | 246 (94.6%) | 14 (5.4%) | 0.37 | 235 (90.4%) | 25 (9.6%) | 0.37 |
| No | 965 | 898 (93.1%) | 67 (6.9%) |  | 853 (88.4%) | 112 (11.6%) |  |
| **Influenza or other ARI during pregnancy** |  |  |  |  |  |  |  |
| Influenza-positive/ARI symptoms | 42 | 39 (92.9%) | 3 (7.1%) | 0.90 | 38 (90.5%) | 4 (9.5%) | 0.93 |
| Influenza negative or not tested/ARI symptoms | 406 | 381 (93.8%) | 25 (6.2%) |  | 361 (88.9%) | 45 (11.1%) |  |
| Not tested/no ARI symptoms | 777 | 724 (93.2%) | 53 (6.8%) |  | 689 (88.7%) | 88 (11.3%) |  |
| **Timing of Vaccination** |  |  |  |  |  |  |  |
| None | 426 | 396 (93.0%) | 30 (7.0%) | 0.58 | 375 (88.0%) | 51 (12.0%) | 0.26 |
| 1st Trimester | 321 | 300 (93.5%) | 21 (6.5%) |  | 278 (86.6%) | 43 (13.4%) |  |
| 2nd Trimester | 350 | 331 (94.6%) | 19 (5.4%) |  | 319 (91.1%) | 31 (8.9%) |  |
| 3rd Trimester | 124 | 113 (91.1%) | 11 (8.9%) |  | 112 (90.3%) | 12 (9.7%) |  |
| **Site** |  |  |  |  |  |  |  |
| KPNW | 552 | 511 (92.6%) | 41 (7.4%) | 0.30 | 493 (89.3%) | 59 (10.7%) | 0.62 |
| KPNC | 673 | 633 (94.1%) | 40 (5.9%) |  | 595 (88.4%) | 78 (11.6%) |  |

Abbreviations: ASQ-3, Ages and Stages Questionnaire- Third Edition; ARI, Acute Respiratory Illness; KPNW, Kaiser Permanente North West; KPNC, Kaiser Permanente Northern California

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Supplemental Table 3. Characteristics of the Cohort by ASQ-3 Domains (continued)** | | | | | |  |  |
|  |  | **Fine Motor** | |  | **Problem Solving** | |  |
|  |  | **On Schedule** | **Not On Schedule** |  | **On Schedule** | **Not On Schedule** |  |
|  |  | **n=1104** | **n=103** |  | **n=1145** | **n=79** |  |
|  | **Total** | **n (row %)** | **n (row %)** | **p-value** | **n (row %)** | **n (row %)** | **p-value** |
| **Demographic Characteristics** |  |  |  |  |  |  |  |
| **Maternal Race/Ethnicity** |  |  |  |  |  |  |  |
| White | 769 | 693 (91.2%) | 67 (8.8%) | 0.29 | 731 (95.2%) | 37 (4.8%) | <0.01 |
| African American | 40 | 37 (92.5%) | 3 (7.5%) |  | 38 (95.0%) | 2 (5.0%) |  |
| Hispanic | 151 | 138 (93.9%) | 9 (6.1%) |  | 145 (96.0%) | 6 (4.0%) |  |
| Asian | 165 | 142 (88.2%) | 19 (11.8%) |  | 140 (84.9%) | 25 (15.2%) |  |
| Mixed/other/unknown | 100 | 94 (95.0%) | 5 (5.1%) |  | 91 (91.0%) | 9 (9.0%) |  |
| **Maternal Age** |  |  |  |  |  |  |  |
| <30 | 418 | 387 (93.0%) | 29 (7.0%) | 0.37 | 399 (95.5%) | 19 (4.6%) | 0.12 |
| 30-34 | 498 | 445 (90.6%) | 46 (9.4%) |  | 462 (93.0%) | 35 (7.0%) |  |
| 35+ | 309 | 272 (90.7%) | 28 (9.3%) |  | 284 (91.9%) | 25 (8.1%) |  |
| **Maternal Education** |  |  |  |  |  |  |  |
| High school or less | 109 | 102 (93.6%) | 7 (6.4%) | 0.69 | 107 (98.2%) | 2 (1.8%) | 0.11 |
| Some college - college graduate | 647 | 583 (91.4%) | 55 (8.6%) |  | 600 (92.9%) | 46 (7.1%) |  |
| Master's degree or higher | 432 | 385 (91.0%) | 38 (9.0%) |  | 405 (93.8%) | 27 (6.3%) |  |
| **Parity** |  |  |  |  |  |  |  |
| 0 | 598 | 545 (92.4%) | 45 (7.6%) | 0.25 | 560 (93.7%) | 38 (6.4%) | 0.91 |
| 1+ | 598 | 532 (90.5%) | 56 (9.5%) |  | 560 (93.8%) | 37 (6.2%) |  |
| **Behavioral Characteristics during Pregnancy** |  |  |  |  |  |  |  |
| **Smoking Status** |  |  |  |  |  |  |  |
| Yes | 63 | 61 (96.8%) | 2 (3.2%) | 0.12 | 62 (98.4%) | 1 (1.6%) | 0.12 |
| No | 1134 | 1017 (91.1%) | 99 (8.9%) |  | 1059 (93.5%) | 74 (6.5%) |  |
| **Alcohol Use** |  |  |  |  |  |  |  |
| Yes | 365 | 319 (88.9%) | 40 (11.1%) | 0.03 | 336 (92.1%) | 29 (8.0%) | 0.12 |
| No | 827 | 755 (92.6%) | 60 (7.4%) |  | 780 (94.4%) | 46 (5.6%) |  |
| **Prenatal/Multivitamin Use** |  |  |  |  |  |  |  |
| Yes | 1131 | 1023 (91.8%) | 92 (8.3%) | 0.08 | 1061 (93.9%) | 69 (6.1%) | 0.56 |
| No | 63 | 52 (85.3%) | 9 (14.8%) |  | 58 (92.1%) | 5 (7.9%) |  |
| **Infant Characteristics** |  |  |  |  |  |  |  |
| **Preterm Birth** |  |  |  |  |  |  |  |
| Yes | 39 | 32 (84.2%) | 6 (15.8%) | 0.11 | 30 (76.9%) | 9 (23.1%) | <0.01 |
| No | 1183 | 1069 (91.7%) | 97 (8.3%) |  | 1112 (94.1%) | 70 (5.9%) |  |
| **Sex of Child** |  |  |  |  |  |  |  |
| Female | 615 | 554 (91.1%) | 54 (8.9%) | 0.68 | 578 (94.0%) | 37 (6.0%) | 0.52 |
| Male | 608 | 548 (91.8%) | 49 (8.2%) |  | 565 (93.1%) | 42 (6.9%) |  |
| **Other Characteristics** |  |  |  |  |  |  |  |
| **Month of Conception** |  |  |  |  |  |  |  |
| November-March | 254 | 233 (92.8%) | 18 (7.2%) | 0.39 | 236 (92.9%) | 18 (7.1%) | 0.65 |
| April-October | 971 | 871 (91.1%) | 85 (8.9%) |  | 909 (93.7%) | 61 (6.3%) |  |
| **Vaccination in the 1 year prior to pregnancy** |  |  |  |  |  |  |  |
| Yes | 413 | 360 (88.7%) | 46 (11.3%) | 0.01 | 382 (92.5%) | 31 (7.5%) | 0.29 |
| No | 812 | 744 (92.9%) | 57 (7.1%) |  | 763 (94.1%) | 48 (5.9%) |  |
| **Infant age (months) at ASQ-3** |  |  |  |  |  |  |  |
| 5 | 225 | 194 (88.2%) | 26 (11.8%) | 0.05 | 196 (87.1%) | 29 (12.9%) | <0.01 |
| 6 | 1000 | 910 (92.2%) | 77 (7.8%) |  | 949 (95.0%) | 50 (5.0%) |  |
| **High risk for influenza complications** |  |  |  |  |  |  |  |
| Yes | 260 | 229 (88.8%) | 29 (11.2%) | 0.08 | 246 (94.6%) | 14 (5.4%) | 0.43 |
| No | 965 | 875 (92.2%) | 74 (7.8%) |  | 899 (93.3%) | 65 (6.7%) |  |
| **Influenza or other ARI during pregnancy** |  |  |  |  |  |  |  |
| Influenza-positive/ARI symptoms | 42 | 39 (92.9%) | 3 (7.1%) | 0.92 | 42 (100.0%) | 0 (0.0%) | 0.22 |
| Influenza negative or not tested/ARI symptoms | 406 | 361 (91.2%) | 35 (8.8%) |  | 379 (93.4%) | 27 (6.7%) |  |
| Not tested/no ARI symptoms | 777 | 704 (91.6%) | 65 (8.5%) |  | 724 (93.3%) | 52 (6.7%) |  |
| **Timing of Vaccination** |  |  |  |  |  |  |  |
| None | 426 | 385 (92.1%) | 33 (7.9%) | 0.79 | 396 (93.0%) | 30 (7.0%) | 0.31 |
| 1st Trimester | 321 | 287 (90.3%) | 31 (9.8%) |  | 296 (92.2%) | 25 (7.8%) |  |
| 2nd Trimester | 350 | 315 (91.3%) | 30 (8.7%) |  | 329 (94.3%) | 20 (5.7%) |  |
| 3rd Trimester | 124 | 113 (92.6%) | 9 (7.4%) |  | 120 (96.8%) | 4 (3.2%) |  |
| **Site** |  |  |  |  |  |  |  |
| KPNW | 552 | 502 (92.1%) | 43 (7.9%) | 0.47 | 518 (94.0%) | 33 (6.0%) | 0.55 |
| KPNC | 673 | 602 (90.9%) | 60 (9.1%) |  | 627 (93.2%) | 46 (6.8%) |  |
| Abbreviations: ASQ-3, Ages and Stages Questionnaire- Third Edition; ARI, Acute Respiratory Illness; KPNW, Kaiser Permanente North West; KPNC, Kaiser Permanente Northern California | | | | | | | |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Supplemental Table 3. Characteristics of the Cohort by ASQ-3 Domains (continued)** | | | | |
|  |  | **Personal Social** | |  |
|  |  | **On Schedule** | **Not On Schedule** |  |
|  |  | **n=1085** | **n=140** |  |
|  | **Total** | **n (row %)** | **n (row %)** | **p-value** |
| **Demographic Characteristics** |  |  |  |  |
| **Maternal Race/Ethnicity** |  |  |  |  |
| White | 769 | 684 (89.0%) | 85 (11.1%) | 0.55 |
| African American | 40 | 35 (87.5%) | 5 (12.5%) |  |
| Hispanic | 151 | 138 (91.4%) | 13 (8.6%) |  |
| Asian | 165 | 142 (86.1%) | 23 (13.9%) |  |
| Mixed/other/unknown | 100 | 86 (86.0%) | 14 (14.0%) |  |
| **Maternal Age** |  |  |  |  |
| <30 | 418 | 385 (92.1%) | 33 (7.9%) | <0.01 |
| 30-34 | 498 | 440 (88.4%) | 58 (11.7%) |  |
| 35+ | 309 | 260 (84.1%) | 49 (15.9%) |  |
| **Maternal Education** |  |  |  |  |
| High school or less | 109 | 101 (92.7%) | 8 (7.3%) | 0.35 |
| Some college - college graduate | 647 | 572 (88.4%) | 75 (11.6%) |  |
| Master's degree or higher | 432 | 379 (87.7%) | 53 (12.3%) |  |
| **Parity** |  |  |  |  |
| 0 | 598 | 521 (87.1%) | 77 (12.9%) | 0.10 |
| 1+ | 598 | 539 (90.1%) | 59 (9.9%) |  |
| **Behavioral Characteristics during Pregnancy** |  |  |  |  |
| **Smoking Status** |  |  |  |  |
| Yes | 63 | 59 (93.7%) | 4 (6.4%) | 0.20 |
| No | 1134 | 1002 (88.4%) | 132 (11.6%) |  |
| **Alcohol Use** |  |  |  |  |
| Yes | 365 | 317 (86.9%) | 48 (13.2%) | 0.21 |
| No | 827 | 739 (89.4%) | 88 (10.6%) |  |
| **Prenatal/Multivitamin Use** |  |  |  |  |
| Yes | 1131 | 1004 (88.8%) | 127 (11.2%) | 0.72 |
| No | 63 | 55 (87.3%) | 8 (12.7%) |  |
| **Infant Characteristics** |  |  |  |  |
| **Preterm Birth** |  |  |  |  |
| Yes | 39 | 27 (69.2%) | 12 (30.8%) | <0.01 |
| No | 1183 | 1055 (89.2%) | 128 (10.8%) |  |
| **Sex of Child** |  |  |  |  |
| Female | 615 | 553 (89.9%) | 62 (10.1%) | 0.13 |
| Male | 608 | 530 (87.2%) | 78 (12.8%) |  |
| **Other Characteristics** |  |  |  |  |
| **Month of Conception** |  |  |  |  |
| November-March | 254 | 215 (84.7%) | 39 (15.4%) | 0.03 |
| April-October | 971 | 870 (89.6%) | 101 (10.4%) |  |
| **Vaccination in the 1 year prior to pregnancy** |  |  |  |  |
| Yes | 413 | 355 (86.0%) | 58 (14.0%) | 0.04 |
| No | 812 | 730 (89.9%) | 82 (10.1%) |  |
| **Infant age (months) at ASQ-3** |  |  |  |  |
| 5 | 225 | 185 (82.2%) | 40 (17.8%) | <0.01 |
| 6 | 1000 | 900 (90.0%) | 100 (10.0%) |  |
| **High risk for influenza complications** |  |  |  |  |
| Yes | 260 | 234 (90.0%) | 26 (10.0%) | 0.41 |
| No | 965 | 851 (88.2%) | 114 (11.8%) |  |
| **Influenza or other ARI during pregnancy** |  |  |  |  |
| Influenza-positive/ARI symptoms | 42 | 38 (90.5%) | 4 (9.5%) | 0.92 |
| Influenza negative or not tested/ARI symptoms | 406 | 360 (88.7%) | 46 (11.3%) |  |
| Not tested/no ARI symptoms | 777 | 687 (88.4%) | 90 (11.6%) |  |
| **Timing of Vaccination** |  |  |  |  |
| None | 426 | 366 (85.9%) | 60 (14.1%) | 0.21 |
| 1st Trimester | 321 | 287 (89.4%) | 34 (10.6%) |  |
| 2nd Trimester | 350 | 316 (90.3%) | 34 (9.7%) |  |
| 3rd Trimester | 124 | 112 (90.3%) | 12 (9.7%) |  |
| **Site** |  |  |  |  |
| KPNW | 552 | 487 (88.2%) | 65 (11.8%) | 0.73 |
| KPNC | 673 | 598 (88.9%) | 75 (11.1%) |  |
| Abbreviations: ASQ-3, Ages and Stages Questionnaire- Third Edition; ARI, Acute Respiratory Illness; KPNW, Kaiser Permanente North West; KPNC, Kaiser Permanente Northern California | | | | |