**Table 1: General characteristics of the participants (non-imputed dataset).**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | **Total (N=4196)** | **Antenatal care visit ≤14 weeks (N=3417)** | **Antenatal care visit >14 weeks (N=779)** | **P-value** |
| **Individual predictors** |  |  |  |  |
| **Age (years)** |  |  |  | < 0.01 |
| <20 years | 239 (5.8%) | 140 (4.2%) | 99 (12.8%) |  |
| 20-25 years | 769 (18.5%) | 584 (17.3%) | 185 (23.8%) |  |
| 25-30 years | 1142 (27.5%) | 940 (27.9%) | 202 (26.0%) |  |
| 30-35 | 1506 (36.3%) | 1319 (39.1%) | 187 (24.1%) |  |
| ≥35 years | 490 (11.8%) | 387 (11.5%) | 103 (13.3%) |  |
| **Migration background** |  |  |  | < 0.01 |
| No | 1908 (49.4%) | 1711 (53.2%) | 197 (30.3%) |  |
| 2nd generation | 610 (15.8%) | 498 (15.5%) | 112 (17.2%) |  |
| 1st generation | 1348 (34.9%) | 1007 (31.3%) | 341 (52.5%) |  |
| **Relationship status** |  |  |  | < 0.01 |
| With partner | 3196 (84.2%) | 2725 (86.4%) | 471 (73.7%) |  |
| Single | 598 (15.8%) | 430 (13.6%) | 168 (26.3%) |  |
| **Pregnancy Intention** |  |  |  | < 0.01 |
| Planned | 2454 (69.0%) | 2139 (72.4%) | 315 (52.2%) |  |
| Unplanned and wanted | 638 (17.9%) | 491 (16.6%) | 147 (24.4%) |  |
| Unplanned and ambivalent | 465 (13.1%) | 324 (11.0%) | 141 (23.4%) |  |
| **Mental illness** |  |  |  | 0.14 |
| No | 1845 (61.9%) | 1559 (61.4%) | 286 (65.0%) |  |
| Ever | 770 (25.8%) | 673 (26.5%) | 97 (22.0%) |  |
| Recent | 365 (12.2%) | 308 (12.1%) | 57 (13.0%) |  |
| **Dutch language skills** |  |  |  | < 0.01 |
| Sufficient | 2400 (68.2%) | 2085 (71.0%) | 315 (54.1%) |  |
| Reasonable | 728 (20.7%) | 578 (19.7%) | 150 (25.8%) |  |
| Insufficient | 391 (11.1%) | 274 (9.3%) | 117 (20.1%) |  |
| **Socioeconomic predictors** |  |  |  |  |
| **Educational attainment** |  |  |  | < 0.01 |
| High | 910 (24.1%) | 815 (25.9%) | 95 (15.0%) |  |
| Medium | 1892 (50.1%) | 1605 (51.0%) | 287 (45.3%) |  |
| Low | 977 (25.9%) | 726 (23.1%) | 251 (39.7%) |  |
| **Employment** |  |  |  | < 0.01 |
| Yes | 2174 (71.6%) | 1935 (75.1%) | 239 (52.0%) |  |
| No | 862 (28.4%) | 641 (24.9%) | 221 (48.0%) |  |
| **Household income** |  |  |  | < 0.01 |
| High | 686 (21.6%) | 492 (18.3%) | 194 (40.1%) |  |
| Medium | 598 (18.9%) | 490 (18.2%) | 108 (22.3%) |  |
| Low | 1886 (59.5%) | 1704 (63.4%) | 182 (37.6%) |  |
| **Housing** |  |  |  | < 0.01 |
| Own home | 1626 (50.8%) | 1466 (54.0%) | 160 (33.1%) |  |
| Rented home | 1572 (49.2%) | 1249 (46.0%) | 323 (66.9%) |  |
| **Neighborhood deprivation** |  |  |  | < 0.01 |
| Low | 1336 (32.2%) | 1181 (35.0%) | 155 (20.0%) |  |
| Medium | 1367 (33.0%) | 1134 (33.6%) | 233 (30.1%) |  |
| High | 1445 (34.8%) | 1058 (31.4%) | 387 (49.9%) |  |
| **Cognitive functioning (IQ)** |  |  |  | < 0.01 |
| ≥85 | 2001 (74.8%) | 1759 (77.4%) | 242 (60.3%) |  |
| 70-85 | 521 (19.5%) | 405 (17.8%) | 116 (28.9%) |  |
| <70 | 153 (5.7%) | 110 (4.8%) | 43 (10.7%) |
| **Pregnancy awareness** |  |  |  |  |
| **Early pregnancy recognition\*** | |  |  | < 0.01 |
| No | 572 (18.3%) | 410 (15.8%) | 162 (30.2%) |  |
| Yes | 2554 (81.7%) | 2180 (84.2%) | 374 (69.8%) |  |
| **Menstrual cycle** |  |  |  | < 0.01 |
| Irregular or unknown | 1836 (43.8%) | 1408 (41.2%) | 428 (54.9%) |  |
| Regular | 2360 (56.2%) | 2009 (58.8%) | 351 (45.1%) |  |

\*Early pregnancy recognition was defined as recognition within 6 weeks since the first day of the last menstrual period

**Table 2: Differences in timing of entry in antenatal care in weeks between the levels of predictors, and the reduction of these differences after implementing a hypothetical intervention on early pregnancy recognition (N=4196).**

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Predictor** | **Without intervention** | | | **With intervention** | | | **Reduction** | | |
|  | **Difference (β)** | **95% CI** | | **Difference (β)** | **95% CI** | | **Difference (β)** | **95% CI** | |
| **Age (years), ref= 30-35 years** |  |  |  |  |  |  |  |  |  |
| <20 years | 2.95 | 2.31; | 3.63 | 2.55 | 1.91; | 3.23 | -0.40\* | -0.69; | -0.15 |
| 20-25 years | 0.97 | 0.65; | 1.30 | 0.89 | 0.57; | 1.22 | -0.08 | -0.19; | 0.03 |
| 25-30 years | 0.31 | 0.05; | 0.57 | 0.18 | -0.07; | 0.44 | -0.13\* | -0.21; | -0.05 |
| ≥35 years | 0.72 | 0.39; | 1.05 | 0.62 | 0.31; | 0.95 | -0.09 | -0.19; | 0.00 |
| **Migration background, ref= No** |  |  |  |  |  |  |  |  |  |
| 2nd generation | 0.96 | 0.64; | 1.30 | 0.84 | 0.52; | 1.18 | -0.12 | -0.24; | 0.00 |
| 1st generation | 1.53 | 1.29; | 1.78 | 1.43 | 1.19; | 1.67 | -0.10\* | -0.18; | -0.03 |
| **Relationship status, ref= With partner** |  |  |  |  |  |  |  |  |  |
| Single | 1.44 | 1.09; | 1.80 | 1.33 | 0.98; | 1.71 | -0.10 | -0.26; | 0.04 |
| **Pregnancy Intention, ref= Planned** |  |  |  |  |  |  |  |  |  |
| Unplanned and wanted | 1.14 | 0.84; | 1.45 | 1.02 | 0.71; | 1.33 | -0.12\* | -0.23; | -0.02 |
| Unplanned and ambivalent | 2.14 | 1.75; | 2.54 | 1.77 | 1.38; | 2.18 | -0.37\* | -0.57; | -0.18 |
| **Mental illness, ref= Ever** |  |  |  |  |  |  |  |  |  |
| No | 0.33 | -0.03; | 0.69 | 0.35 | -0.01; | 0.70 | 0.01 | -0.11; | 0.13 |
| Recent | 0.38 | 0.12; | 0.64 | 0.38 | 0.13; | 0.63 | 0.00 | -0.08; | 0.08 |
| **Dutch language skills, ref= Sufficient** |  |  |  |  |  |  |  |  |  |
| Reasonable | 0.65 | 0.29; | 1.03 | 0.68 | 0.32; | 1.07 | 0.03 | -0.05; | 0.12 |
| Insufficient | 1.28 | 0.79; | 1.78 | 1.19 | 0.73; | 1.67 | -0.08 | -0.26; | 0.06 |
| **Parity, ref= 0** |  |  |  |  |  |  |  |  |  |
| 1 | 0.14 | -0.11; | 0.38 | 0.18 | -0.06; | 0.42 | 0.04 | -0.03; | 0.12 |
| 2 | 0.82 | 0.43; | 1.23 | 0.81 | 0.42; | 1.23 | -0.01 | -0.16; | 0.13 |
| ≥3 | 1.57 | 0.90; | 2.29 | 1.40 | 0.69; | 2.17 | -0.17 | -0.52; | 0.16 |
| **Educational attainment, ref= High** |  |  |  |  |  |  |  |  |  |
| Medium | 0.43 | 0.18; | 0.68 | 0.40 | 0.16; | 0.65 | -0.03 | -0.10; | 0.04 |
| Low | 1.50 | 1.20; | 1.81 | 1.39 | 1.08; | 1.68 | -0.12\* | -0.23; | -0.01 |
| **Employment, ref= Yes** |  |  |  |  |  |  |  |  |  |
| No | 1.60 | 1.35; | 1.86 | 1.47 | 1.21; | 1.73 | -0.14\* | -0.23; | -0.04 |
| **Household income, ref= High** |  |  |  |  |  |  |  |  |  |
| Medium | 0.92 | 0.65; | 1.19 | 0.82 | 0.56; | 1.08 | -0.10\* | -0.19; | -0.01 |
| Low | 2.05 | 1.77; | 2.34 | 1.91 | 1.62; | 2.20 | -0.14\* | -0.25; | -0.04 |
| **Housing, ref= Own home** |  |  |  |  |  |  |  |  |  |
| Rented home | 1.24 | 1.02; | 1.45 | 1.15 | 0.94; | 1.36 | -0.09\* | -0.16; | -0.02 |
| **Neighborhood deprivation, ref= Low** |  |  |  |  |  |  |  |  |  |
| Medium | 0.66 | 0.40; | 0.91 | 0.58 | 0.33; | 0.84 | -0.07\* | -0.15; | 0.00 |
| High | 1.52 | 1.24; | 1.79 | 1.38 | 1.11; | 1.65 | -0.14\* | -0.22; | -0.05 |
| **Cognitive functioning (IQ), ref= >85** |  |  |  |  |  |  |  |  |  |
| 70-85 | 0.82 | 0.54; | 1.10 | 0.81 | 0.53; | 1.09 | -0.02 | -0.12; | 0.08 |
| <70 | 1.40 | 0.94; | 1.86 | 1.35 | 0.91; | 1.82 | -0.04 | -0.22; | 0.11 |

\*These reductions were significant, i.e., the confidence interval did not include 0.00.

**Figure 1:** **Differences in timing of antenatal care initiation in weeks between the levels of predictors, and the reduction of these differences after implementing a hypothetical intervention on early pregnancy recognition (N=4196).**

The black dots indicate the beta-coefficients before (with dark blue confidence intervals) and after (with light blue confidence intervals) implementing the hypothetical intervention. The black dots without confidence intervals (positioned at 0) indicate the reference groups.