|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | RR | 95% CI | Adjusted RR | 95% CI |
| C-section | 1.06 | 1.00-1.11 | 1.03 | 0.99-1.08 |

Poisson regression analysis between disease (count) and C-section

Figure: Crude Model & Adjusted Model

Adjusted Poisson model

|  |  |  |
| --- | --- | --- |
| Source | Chi-Square | Pr > ChiSq |
| C-Section | 2.22 | 0.14 |
| religion | 0.30 | 0.59 |
| Breastfed | 2.83 | 0.09 |
| Sex | 1.00 | 0.32 |
| Mothers Education | 0.01 | 0.92 |
| Child Age | 1.23 | 0.27 |
| BMI Category | 0.22 | 0.64 |
| Wealth Index | 6.39 | 0.01 |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | Odds Ratio | 95% CI | Odds Ratio | 95% CI |
| C-section | 1.06 | 0.99-1.08 | 1.03 | 1.00-1.11 |

Logistic regression analysis between disease (binary) and C-section

Figure: Crude Model & Adjusted Model

Adjusted Logistic Model

|  |  |  |
| --- | --- | --- |
| Source | Chi-Square | Pr > ChiSq |
| C-Section | 0.60 | 0.44 |
| religion | 0.21 | 0.65 |
| Breastfed | 1.11 | 0.29 |
| Sex | 0.00 | 0.98 |
| Mothers Education | 0.83 | 0.36 |
| Child Age | 0.00 | 0.96 |
| BMI Category | 0.00 | 0.96 |
| Wealth Index | 9.91 | 0.01 |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  |  | Mode of Delivery | | |  |
|  |  | Vaginal | Cesarean | Total |  |
|  |  | N (%) | N (%) | N (%) | P-Value |
| Age, Mean(SD) |  | 25.10(0.02) | 25.37(0.02) | 25.86(0.02) | <.0001 |
| Religion | Islam | 734(33.68) | 1182(55.16) | 1916(88.84) | 0.0883 |
| Hinduism | 85(3.90) | 140(6) | 225(9.88) |  |
| Buddhism | 12(0.17) | 7(0.08) | 19(0.25) |  |
| Christianity | 5(0.14) | 15(0.9) | 20(0.01) |  |
| Other religion | 1(0.03) | 0(0) | 1(0.03) |  |
| Division | Barisal | 42(1.3) | 79(2.09) | 121(3.39) | <.0001 |
| Chittagong | 156(9.49) | 179(10.94) | 335(2.43) |  |
| Dhaka | 173(10.72) | 428(24.61) | 601(35.33) |  |
| Khulna | 167(4.6) | 310(9.4) | 477(14) |  |
| Rajshahi | 112(5.21) | 155(7.81) | 267(13.02) |  |
| Rangpur | 116(4.23) | 114(4.37) | 230(8.60) |  |
| Sylhet | 71(2.38) | 79(2.87) | 150(5.25) |  |
| Mother's education | None | 105(4.00) | 81(3.55) | 186(7.51) | <.0001 |
| Primary incomplete | 98(4.38) | 71(2.95) | 169(7.33) |  |
| Primary complete | 97(4.70) | 135(5.70) | 232(10.39) |  |
| Secondary incomplete | 373(15.88) | 614(27) | 987(42.87) |  |
| Secondary complete or higher | 164(8.97) | 443(22.93) | 607(31.90) |  |
| Wealth Index | Poorest | 154(5.61) | 121(4.25) | 275(9.85) | <.0001 |
| Second | 144(5.65) | 150(5.48) | 294(11.13) |  |
| Middle | 158(6.65) | 199(7.92) | 357(14.57) |  |
| Fourth | 179(8.18) | 331(14.47) | 510(22.65) |  |
| Richest | 201(11.90) | 538(29.90) | 739(41.80) |  |
| BMI | Underweight | 34(1.60) | 47(2.33) | 81(3.93) | 0.0052 |
| Normal or Healthy Weight | 646(28.96) | 929(42.20) | 1575(71.16) |  |
| Overweight | 137(6.47) | 315(14.50) | 452(20.96) |  |
| Obese | 20(0.89) | 53(3.06) | 73(3.95) |  |

***Child***

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  |  | Mode of Delivery | | |  |
|  |  | Vaginal | Cesarean | Total |  |
|  |  | N (%) | N (%) | N (%) | P-Value |
| Breastfeed | Yes | 827(37.67) | 1327(61.50) | 2154(99.17) | 0.0058 |
| No | 9(0.32) | 12(0.51) | 21(0.83) |  |
| Sex | Male | 423(19.01) | 730(32.35) | 1153(51.36) | 0.4297 |
| Female | 414(18.90) | 614(29.74) | 1028(48.64) |  |
| Child Weight in kg, Mean(SD) |  | 7.71(2.17) | 8.12(2.23) | 7.72(2.88) | <.0001 |
| Child weight at birth in kg, Mean(SD) |  | 2.62((0.824) | 2.731(0.83) | 2.62(0.82) | <.0001 |
| Child age in months | 0-12 | 410(27.60) | 686(33.05) | 1096(36.12) | 0.7671 |
|  | 13-24 | 426(26.86) | 653(32.58) | 1079(35.75) |  |
| Disease(By median value) | Less than 3 | 382(17.20) | 559(25.61) | 941(42.78) | 0.1671 |
|  | Greater equal 3 | 435(20.23) | 746(36.50) | 1181(57.22) |  |
| Disease(By Count) | 1 disease held | 90(4.30) | 139(6.29) | 229(10.59) | 0.1047 |
|  | 2 disease held | 292(12.87) | 420(19.32) | 712(32.20) |  |
|  | 3 disease held | 285(13.82) | 422(20.97) | 707(34.79) |  |
|  | 4 disease held | 96(5.10) | 222(10.96) | 318(16.10) |  |
|  | 5 disease held | 32(1.11) | 79(3.53) | 111(4.65) |  |
|  | 6 disease held | 13(0.43) | 20(0.74) | 33(1.18) |  |
|  | 7 disease held | 9(0.26) | 3(0.28) | 12(0.55) |  |
| Size at birth | Very large | 0(0.00) | 6(0.21) | 6(0.21) | 0.0862 |
|  | Larger than average | 145(6.35) | 279(13.75) | 424(20.1) |  |
|  | Average | 526(24.86) | 794(37.4) | 1320(62) |  |
|  | Smaller than average | 123(5.21) | 201(9.63) | 324(14.84) |  |
|  | Very small | 24(1.21) | 41(1.74) | 65(2.95) |  |