**Supplementary File 4: Sensitivity Analyses**

1. **Associations between food insecurity and breastfeeding substituting access to International Board Certified Lactation Consultants (IBCLCs) for CPNP site**

Supplementary Table A1: Associations between any food insecurity and breastfeeding outcomes

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Outcome** | **Odds Ratio (95% Confidence Intervals)** | | | | | |
| **Unadjusted** | p-value | **Model 1** | p-value | **Model 2** | p-value |
| Continued breastfeeding for 6 months | 0.98 (0.55-1.73)  n=298 | 0.94 | 1.01 (0.55-1.85)  n=295 | 0.98 | 0.89 (0.48-1.65)  n=289 | 0.71 |
| Exclusive breastfeeding for 4 months | 1.04 (0.62-1.73)  n=290 | 0.89 | 1.09 (0.65-1.84)  n=287 | 0.75 | 0.97 (0.54-1.72)  n=282 | 0.90 |
| Exclusive breastfeeding for 6 months | 0.69 (0.36-1.32)  n=293 | 0.26 | 0.67 (0.35-1.30)  n=290 | 0.24 | 0.58 (0.29-1.18)  n=285 | 0.13\* |

Reference: food secure

Model 1 adjusted for maternal post-secondary education, parity and access to IBCLCs through the CPNP.

Model 2 includes all Model 1 covariates and hospital formula supplementation.

\*model did not meet Hosmer Lemeshow test criteria for goodness of fit (p=0.027)

Supplementary Table A2: Associations between food security status and breastfeeding outcomes

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Outcome** | **Food Security Status** | **Frequency**  **%** | **Odds Ratio (95% Confidence Intervals)** | | |
| **Unadjusted** | **Model 1** | **Model 2** |
| **Continued breastfeeding for 6 months**  (n=298; 295; 289) | secure | 80.4 | 1.00 (Ref) | 1.00 (Ref) | 1.00 (Ref) |
| marginal | 93.5 | 3.54 (0.80-15.64) | 3.60 (0.79-16.34) | 3.22 (0.70-14.89) |
| moderate | 79.7 | 0.96 (0.48-1.91) | 0.91 (0.44-1.87) | 0.78 (0.37-1.66) |
| severe | 68.6 | 0.53 (0.24-1.20) | 0.65 (0.27-1.56) | 0.58 (0.24-1.41) |
| **Exclusive breastfeeding for >4 months**  (n=290; 287; 282) | secure | 27.9 | 1.00 (Ref) | 1.00 (Ref) | 1.00 (Ref) |
| marginal | 35.5 | 1.42 (0.63-3.21) | 1.67 (0.72-3.87) | 1.61 (0.63-4.13) |
| moderate | 26.8 | 0.94 (0.50-1.78) | 0.97 (0.51-1.85) | 0.83 (0.41-1.68) |
| severe | 26.5 | 0.93 (0.40-2.15) | 0.93 (0.40-2.19) | 0.84 (0.33-2.11) |
| **Exclusive breastfeeding for 6 months**  (n=293; 290; 285) | secure | 17.9 | 1.00 (Ref) | 1.00 (Ref) | 1.00 (Ref)\* |
| marginal | 9.7 | 0.49 (0.14-1.73) | 0.57 (0.16-2.03) | 0.58 (0.16-2.19) |
| moderate | 12.7 | 0.66 (0.30-1.49) | 0.61 (0.26-1.41) | 0.48 (0.20-1.19) |
| severe | 17.1 | 0.95 (0.36-2.49) | 0.88 (0.33-2.39) | 0.79 (0.28-2.25) |

Model 1 adjusted for maternal post-secondary education, parity and access to IBCLCs through the CPNP.

Model 2 includes all Model 1 covariates and hospital formula supplementation.

\*model did not meet Hosmer Lemeshow test criteria for goodness of fit (p=0.020)

1. **Associations between food insecurity and breastfeeding in full dataset (no exclusions for Study B)**

Supplementary Table B1: Associations between any food insecurity and breastfeeding outcomes

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Outcome** | **Odds Ratio (95% Confidence Intervals)** | | | | | |
| **Unadjusted** | p-value | **Model 1** | p-value | **Model 2** | p-value |
| Continued breastfeeding for 6 months | 0.99 (0.57-1.73)  n=316 | 0.98 | 0.80 (0.43-1.49)  n=313 | 0.48 | 0.74 (0.40-1.39)  n=307 | 0.35 |
| Exclusive breastfeeding for 4 months | 0.96 (0.58-1.55)  n=307 | 0.83 | 0.96 (0.56-1.63)  n=304 | 0.87 | 0.90 (0.50-1.60)  n=299 | 0.71 |
| Exclusive breastfeeding for 6 months | 0.62 (0.33-1.15)  n=310 | 0.13 | 0.58 (0.30-1.13)  n=307 | 0.11 | 0.52 (0.26-1.06)  n=302 | 0.07 |

Reference: food secure

Model 1 adjusted for maternal post-secondary education, parity and CPNP site.

Model 2 includes all Model 1 covariates and hospital formula supplementation.

Supplementary Table B2: Associations between food security status and breastfeeding outcomes

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Outcome** | **Food Security Status** | **Frequency**  **%** | **Odds Ratio (95% Confidence Intervals)** | | |
| **Unadjusted** | **Model 1** | **Model 2** |
| **Continued breastfeeding for 6 months**  (n=316; 313; 307) | secure | 80.1 | 1.00 (Ref) | 1.00 (Ref) | 1.00 (Ref) |
| marginal | 93.5 | 3.60 (0.82-15.81) | 2.93 (0.64-13.54) | 2.72 (0.58-12.71) |
| moderate | 79.7 | 0.98 (0.50-1.92) | 0.71 (0.34-1.50) | 0.66 (0.31-1.40) |
| severe | 68.6 | 0.54 (0.24-1.21) | 0.52 (0.21-1.26) | 0.49 (0.20-1.19) |
| **Exclusive breastfeeding for >4 months**  (n=307; 304; 299) | secure | 29.8 | 1.00 (Ref) | 1.00 (Ref) | 1.00 (Ref) |
| marginal | 35.5 | 1.29 (0.58-2.90) | 1.64 (0.70-3.84) | 1.61 (0.62-4.19) |
| moderate | 26.8 | 0.86 (0.46-1.60) | 0.84 (0.44-1.63) | 0.78 (0.38-1.58) |
| severe | 26.5 | 0.85 (0.37-1.94) | 0.76 (0.32-1.80) | 0.74 (0.30-1.84) |
| **Exclusive breastfeeding for 6 months**  (n=310; 307; 302) | secure | 19.7 | 1.00 (Ref) | 1.00 (Ref) | 1.00 (Ref) |
| marginal | 9.7 | 0.44 (0.13-1.53) | 0.52 (0.15-1.89) | 0.53 (0.14-2.00) |
| moderate | 12.7 | 0.59 (0.27-1.31) | 0.54 (0.24-1.25) | 0.45 (0.18-1.10) |
| severe | 17.1 | 0.85 (0.33-2.20) | 0.71 (0.26-1.91) | 0.67 (0.24-1.89) |

Model 1 adjusted for maternal post-secondary education, parity and CPNP site.

Model 2 includes all Model 1 covariates and hospital formula supplementation.