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| **Supplemental Table 1: Univariable Cox Models for Predictors of Underweight, Stunting, Wasting and Low Head Circumference** |
|  | **Underweight****(WAZ<-2 SD)** | **Stunting****(LAZ<-2 SD)** | **Wasting****(WLZ<-2 SD)** | **Low Head Circumference****(HCZ<-2 SD)** |
|  | **HR (95% CI)** | **p-value** | **HR (95% CI)** | **p-value** | **HR (95% CI)** | **p-value** | **HR (95% CI)** | **p-value** |
|  |  |  |  |  |  |  |  |  |
| **Arm** |  |  |  |  |  |  |  |  |
| Placebo | 1.00 (ref) | - | 1.00 (ref) | - | 1.00 (ref) | - | 1.00 (ref) | - |
| Extended NVP | 1.05 (0.83, 1.35) | 0.668 | 1.03 (0.85, 1.24) | 0.78 | 1.05 (0.81, 1.38) | 0.69 | 1.07 (0.56, 1.56) | 0.79 |
|  |  |  |  |  |  |  |  |  |
| **Site**  |  |  |  |  |  |  |  |  |
| Zimbabwe | 1.00 (ref) | - | 1.00 (ref) | - | 1.00 (ref) | - | 1.00 (ref) | - |
| Tanzania | 0.87 (0.60, 1.25) | 0.45 | 0.61 (0.45, 0.82) | 0.001\* | 0.84 (0.55, 1.27) | 0.41 | 1.28 (0.61, 2.71) | 0.51 |
| South Africa | 0.16 (0.10, 0.28) | <0.01\* | 0.28 (0.20, 0.38) | <0.01\* | 1.28 (0.93, 1.76) | 0.14 | 0.33 (0.12, 0.89) |  0.03\* |
| Uganda | 0.72 (0.55, 0.95) | 0.02\* | 0.81 (0.65, 1.00) | 0.05\* | 0.29 (0.19, 0.44) | <0.01\* | 0.98 (0.53, 1.80) | 0.94 |
|  |  |  |  |  |  |  |  |
| **Maternal Age (years)**  |  |  |  |  |  |  |  |
| 18 to 23  | 1.00 (ref) | - | 1.00 (ref) | - | 1.00 (ref) | - | 1.00 (ref) | - |
| 24 to 26  | 0.99 (0.65, 1.50) | 0.95 | 1.20 (0.89, 1.62) | 0.24 | 1.09 (0.74, 1.62) | 0.66 | 1.30 (0.51, 3.26) | 0.58 |
| 27 to 31 | 1.04 (0.71, 1.52) | 0.83 | 1.24 (0.94, 1.64) | 0.13 | 0.79 (0.53, 1.16) | 0.23 | 1.93 (0.87, 4.29) | 0.11 |
| Greater than 31  | 1.24 (0.83, 1.86) | 0.29 | 1.11 (0.81, 1.52) | 0.53 | 1.03 (0.69, 1.55) | 0.88 | 1.38 (0.55, 3.47) | 0.50 |
|  |  |  |  |  |  |  |  |
| **Maternal Education (years)** |  |  |  |  |  |  |  |
| 0 to 6  | 1.00 (ref) | - | 1.00 (ref) | - | 1.00 (ref) | - | 1.00 (ref) | - |
| 7 to 9 | 0.91 (0.65, 1.28) | 0.59 | 0.91 (0.69, 1.20) | 0.50 | 1.33 (0.86, 2.05) | 0.20 | 0.97 (0.48, 1.96) | 0.94 |
| 10 to 11 | 0.84 (0.61, 1.18) | 0.32 | 0.94 (0.72, 1.22) | 0.64 | 1.30 (0.86, 1.99) | 0.22 | 0.86 (0.43, 1.72) | 0.67 |
| Greater than 11 | 0.27 (0.14, 0.52) | <0.01\* | 0.49 (0.33, 0.74) |  0.001\* | 1.37 (0.80, 2.33) | 0.25 | 0.00 (0.00, ∞) | 1.00 |
|  |  |  |  |  |  |  |  |
| **Mother working away from home** |  |  |  |  |  |  |  |
| No | 1.00 (ref) | - | 1.00 (ref) | - | 1.00 (ref) | - | 1.00 (ref) | - |
| Yes | 1.03 (0.78, 1.35) | 0.84 | 1.19 (0.97, 1.46) | 0.09\* | 0.70 (0.50, 0.97) | 0.03\* | 1.20 (0.69, 2.10) | 0.51 |
|  |  |  |  |  |  |  |  |
| **Number of Pregnancies**  |  |  |  |  |  |  |  |
| 1 to 2 | 1.00 (ref) | - | 1.00 (ref) | - | 1.00 (ref) | - | 1.00 (ref) | - |
| 3 to 4 | 1.08 (0.83, 1.40) | 0.58 | 1.24 (1.02, 1.52) | 0.03\* | 0.85 (0.64, 1.13) | 0.26 | 1.25 (0.72, 2.15) | 0.43 |
| Greater than 4 | 1.45 (1.01, 2.08) | 0.05\* | 1.44 (1.08, 1.92) | 0.01\* | 0.83 (0.53, 1.30) | 0.41 | 0.97 (0.40, 2.36) | 0.94 |
|  |  |  |  |  |  |  |  |
| **Maternal CD4 Cell Count/mm3** |  |  |  |  |  |  |  |
| ≤ 200 | 1.00 (ref) | - | 1.00 (ref) | - | 1.00 (ref) | - | 1.00 (ref) | - |
| 201 to 350 | 0.79 (0.42, 1.48) | 0.46 | 0.73 (0.45, 1.17) | 0.19 | 0.94 (0.50, 1.79) | 0.85 | 1.13 (0.24, 5.34) | 0.87 |
| ≥351 | 0.82 (0.47, 1.44) | 0.49 | 0.78 (0.51, 1.18) | 0.24 | 0.62 (0.34, 1.11) | 0.11 | 1.27 (0.31, 5.21) | 0.74 |
|  |  |  |  |  |  |  |  |
| **Maternal WHO HIV Stage** |  |  |  |  |  |  |  |
| Stage I | 1.00 (ref) | - | 1.00 (ref) | - | 1.00 (ref) | - | 1.00 (ref) | - |
| Stage II | 0.88 (0.61, 1.28) | 0.51 | 0.84 (0.63, 1.13) | 0.25 | 0.83 (0.54, 1.27) | 0.39 | 0.77 (0.33, 1.80) | 0.55 |
| Stage III | 0.56 (0.23, 1.37) | 0.21 | 0.87 (0.51, 1.49) | 0.62 | 0.80 (0.36, 1.81) | 0.60 | 2.10 (0.76, 5.82) | 0.16 |
| Stage IV | 1.55 (0.22, 11.03 | 0.66 | 0.00 (0.00, ∞) | 0.99 | 0.00 (0.00, ∞) | 0.99 | 8.21 (1.13, 59.60) |  0.04\* |
|  |  |  |  |  |  |  |  |  |
| **Maternal ART** |  |  |  |  |  |  |  |  |
| No | 1.00 (ref) | - | 1.00 (ref) | - | 1.00 (ref) | - | 1.00 (ref) | - |
| Yes | 0.77 (0.60, 1.00) | 0.05\* | 0.88 (0.72, 1.08) | 0.21 | 0.94 (0.70, 1.26) | 0.67 | 0.93 (0.53, 1.61) | 0.78 |
|  |  |  |  |  |  |  |  |  |
| **Infant Sex** |  |  |  |  |  |  |  |  |
| Female | 1.00 (ref) | - | 1.00 (ref) | - | 1.00 (ref) | - | 1.00 (ref) | - |
| Male | 1.71 (1.33, 2.20) | <0.01\* | 2.08 (1.72, 2.53) | <0.01\* | 1.54 (1.17, 2.03) | 0.002\* | 1.67 (0.98, 2.84) |  0.06\* |
|  |  |  |  |  |  |  |  |  |
| **Breastfed** |  |  |  |  |  |  |  |  |
| <3 months | 1.00 (ref) | - | 1.00 (ref) | - | 1.00 (ref) | - | 1.00 (ref) | - |
| ≥3 months | 1.24 (0.66, 2.33) | 0.51 | 1.41 (0.85, 2.31) | 0.18 | 0.56 (0.34, 0.93) | 0.03\* | 0.66 (0.24, 1.86) | 0.45 |
| SD – Standard Deviation, CI – Confidence Interval, \*Significant at 0.1 level, NVP---Nevirapine, ART—Antiretroviral Therapy |