Additional file

Table 1. Characteristics of health facilities that provide antenatal care services

|  |  |  |
| --- | --- | --- |
|  | Haiti | Malawi |
|  | Urban | Rural | Urban | Rural |
| **Type of facility1** |  |  |  |  |
| Hospital | 25.8 | 4.2 | 44.4 | 9.9 |
| Health center | 64.5 | 37.2 | 24.4 | 80.8 |
| Dispensary, clinic, other | 9.7 | 58.6 | 31.3 | 9.2 |
| **Managing authority** |  |  |  |  |
| Government | 33.0 | 43.7 | 48.3 | 66.5 |
| Private not-for-profit | 37.1 | 38.5 | 22.1 | 25.9 |
| Private for profit, other | 30.0 | 17.8 | 29.6 | 7.6 |
| **Region (Haiti)** |  |  |  |  |
| Aire Métropolitain / Reste-Ouest | 54.8 | 24.3 |   |   |
| Sud-Est | 4.2 | 9.6 |   |   |
| Nord | 9.3 | 8.8 |   |   |
| Nord-Est | 1.6 | 5.5 |   |   |
| Artibonite | 4.5 | 18.0 |   |   |
| Centre | 3.5 | 6.3 |   |   |
| Sud | 9.7 | 6.1 |   |   |
| Grand-Anse | 4.8 | 4.8 |   |   |
| Nord-Ouest | 4.0 | 13.3 |   |   |
| Nippes | 3.5 | 3.4 |   |   |
| **Region (Malawi)** |  |  |  |  |
| North |   |   | 16.0 | 19.2 |
| Central |   |   | 40.8 | 36.3 |
| South |   |   | 43.2 | 44.5 |
| **Total** | **310** | **522** | **116** | **516** |
| **1** In Haiti, hospitals are university, regional, community, and other hospitals; and health centers include those with and without beds. In Malawi, hospitals are central, district, community, and other hospitals; health centers include maternity health centers; and other refers to health posts.  |

**Table 2. Urban and rural cluster ranges of facility breastfeeding readiness and counseling**

|  |  |  |
| --- | --- | --- |
|  | Haiti1 | Malawi |
|  | Other Urban | Rural | Urban | Rural |
|   | Low  | Medium | High | Low  | Medium | High | Low  | Medium | High | Low  | Medium | High |
| Number of ANC facilities with reporting routine counseling on breastfeeding2 | 1 - 2 | 3 - 5 | 6 - 22 | 1 - 5 | 6 - 9 | 10 - 23 | 0 - 3 | 4 - 7 | 8 - 17 | 0 - 2 | 3 | 4 - 18 |
| Average number of providers trained on breastfeeding2, 3 | 0 - 0.4 | 0.4 - 0.6 | 0.6 - 2.6 | 0 - 0.3 | 0.3 - 0.5 | 0.5 - 2.9 | 0 - 0.2 | 0.2 - 0.5 | 0.5 - 4.3 | 0 - 0.3 | 0.3 - 0.6 | 0.6 - 3.4 |
| Percent of clients counseled on breastfeeding4 | 0% | n/a | 1% - 60% | 0% | n/a | 1% - 100% | 0% | n/a | 1% - 33% | 0% | n/a | 3% - 100% |
|  |
| 1 Excludes urban clusters in Port-au-Prince or rural clusters with 5 km of Port-au-Prince2 Includes only clusters with women who had at least one ANC visit, who delivered vaginally, and whose baby survived past the day of birth3 Cut-off points appear overlap due to rounding4Includes only clusters with at least one linked facility with antenatal care client data in addition to inclusion criteria above |
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Table 3. Unadjusted logistic regressions of early breastfeeding for the last birth in the last 2 years

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| --- | --- | --- |
|  | Haiti  | Malawi  |
|   | Other urban | Rural | Urban | Rural |
| Variables  | UOR | 95% CI | UOR | 95% CI | UOR | 95% CI | UOR | 95% CI |
| **Department: Haiti (ref=Artibonite)** |  |  |  |  |  |  |  |  |
| Ouest | 0.8 | 0.2 - 3.3 | 0.8 | 0.4 - 1.7 |  |  |  |  |
| Sud-Est | 1.4 | 0.4 - 5.0 | 1.5 | 0.8 - 2.7 |  |  |  |  |
| Nord | 1.5 | 0.4 - 6.1 | 1.0 | 0.5 - 2.1 |  |  |  |  |
| Nord-Est | 2.3 | 0.6 - 8.2 | 1.2 | 0.7 - 2.2 |  |  |  |  |
| Centre | 1.6 | 0.4 - 6.2 | 0.9 | 0.5 - 1.6 |  |  |  |  |
| Sud | 0.6 | 0.2 - 2.4 | 1.2 | 0.7 - 2.1 |  |  |  |  |
| Grand-Anse | 2.4 | 0.6 - 8.8 | 1.3 | 0.6 - 2.5 |  |  |  |  |
| Nord-Ouest | 1.2 | 0.3 - 5.1 | 1.3 | 0.7 - 2.4 |  |  |  |  |
| Nippes | 1.6 | 0.3 - 8.3 | 1.2 | 0.6 - 2.5 |  |  |  |  |
| **Region: Malawi (ref=Northern)** |  |  |  |  |  |  |  |  |
| Central |  |  |  |  | 0.3\*\*\* | 0.1 - 0.5 | 0.6\*\*\* | 0.5 - 0.8 |
| Southern |  |  |  |  | 0.4\*\* | 0.2 - 0.8 | 1.1 | 0.8 - 1.4 |
| **Wealth quintile** |  |  |  |  |  |  |  |  |
| Lowest and second | **0.5\*** | 0.2 - 1.0 | ref |  | 0.5 | 0.2 - 1.3 | ref |  |
| Middle | 0.9 | 0.5 - 1.6 | 0.8 | 0.6 - 1.1 | 1.0 | 0.4 - 2.6 | 1.0 | 0.8 - 1.3 |
| Fourth and highest | ref |  | 0.6\* | 0.3 - 0.9 | ref |  | 1.0 | 0.8 - 1.3 |
| **Education (ref=none or primary)** |  |  |  |  |  |  |  |  |
| Secondary or higher | 0.9 | 0.6 - 1.3 | 0.9 | 0.7 - 1.2 | 1.1 | 0.6 - 1.8 | 1.0 | 0.8 - 1.3 |
| **Employment (ref=not employed)** |  |  |  |  |  |  |  |  |
| Employed | 1.3 | 0.8 - 2.1 | 1.5\*\* | 1.2 - 1.9 | 0.9 | 0.5 - 1.5 | 0.9 | 0.7 - 1.1 |
| **Religion (ref=Christian)** |  |  |  |  |  |  |  |  |
| Other | 1.5 | 0.7 - 3.0 | 0.8 | 0.5 - 1.2 | 1.3 | 0.8 - 2.1 | 1.0 | 0.9 - 1.2 |
| **Exposure to mass media (ref=less than once per week)** |  |  |  |  |  |  |  |  |
| At least once per week | 1.0 | 0.6 - 1.7 | 1.0 | 0.7 - 1.4 | 2.0\*\* | 1.2 - 3.4 | 1.0 | 0.8 - 1.2 |
| **Currently Married (ref=yes)** |  |  |  |  |  |  |  |  |
| No | 1.1 | 0.5 - 2.3 | 0.7\* | 0.5 - 1.0 | 0.7 | 0.4 - 1.3 | 1.2 | 0.9 - 1.5 |
| **Parity (ref=multiparous)** |  |  |  |  |  |  |  |  |
| Primiparous | 0.7 | 0.5 - 1.1 | 0.8 | 0.6 - 1.0 | 0.6 | 0.4 - 1.0 | 0.8 | 0.7 - 1.0 |
| **Size of baby at birth (ref=normal)** |  |  |  |  |  |  |  |  |
| Small or very small | 0.7 | 0.4 - 1.1 | 1.0 | 0.8 - 1.4 | 0.7 | 0.3 - 1.7 | 0.8 | 0.6 - 1.0 |
| Large or very large | 0.8 | 0.4 - 1.4 | 1.3 | 0.9 - 1.9 | 0.6\* | 0.3 - 0.9 | 0.9 | 0.7 - 1.1 |
| **Sex of child (ref=female)** |  |  |  |  |  |  |  |  |
| Male | 0.9 | 0.6 - 1.5 | 0.9 | 0.8 - 1.2 | 1.5 | 0.9 - 2.6 | 1.0 | 0.9 - 1.3 |
| **Number of ANC visits (ref=one to three)** |  |  |  |  |  |  |  |
| Four or more | 0.7 | 0.4 - 1.3 | 0.9 | 0.7 - 1.1 | 0.9 | 0.6 - 1.5 | 1.2 | 0.9 - 1.4 |
| **Both SBA and facility delivery (ref=yes)** |  |  |  |  |  |  |  |  |
| Neither or one or the other | 0.7 | 0.4 - 1.1 | 1.0 | 0.7 - 1.3 | 0.4 | 0.1 - 1.4 | 0.6\*\* | 0.5 - 0.9 |
| **PNC in the first hour (ref=no)** |  |  |  |  |  |  |  |  |
| Yes | **1.8\*\*** | 1.2 - 2.7 | 1.3 | 0.9 - 1.9 | 0.6\* | 0.3 - 0.9 | 1.2\* | 1.0 - 1.5 |
|  |  |  |  |  |  |  |  |  |
| **Service environment variables** |  |  |  |  |  |  |  |  |
| **Access to breastfeeding counseling in ANC (ref=low)** |  |  |  |  |  |  |  |  |
| No data | n/a |  | n/a |  | n/a |  | 1.0 | 0.5 - 2.1 |
| Medium | 1.6 | 1.0 - 2.6 | 0.8 | 0.6 - 1.1 | 0.8 | 0.4 - 1.6 | 1.2 | 0.9 - 1.5 |
| High | 0.9 | 0.5 - 1.4 | 0.8 | 0.5 - 1.1 | 1.0 | 0.5 - 1.9 | 1.1 | 0.9 - 1.5 |
| **Access to trained providers (ref=low)** |  |  |  |  |  |  |  |  |
| No data | n/a |  | n/a |  | n/a |  | 1.1 | 0.6 - 2.0 |
| Medium | 2.1\*\* | 1.3 - 3.3 | 1.1 | 0.7 - 1.5 | 1.5 | 0.8 - 2.9 | 1.0 | 0.8 - 1.3 |
| High | 1.5 | 0.8 - 2.7 | 1.1 | 0.7 - 1.5 | 2.1\* | 1.1 - 4.0 | 1.1 | 0.8 - 1.4 |
| **Average facility breastfeeding counseling in ANC (ref=low)** |  |  |  |  |  |  |  |  |
| No data | 1.2 | 0.6 - 2.3 | 0.8 | 0.3 - 2.6 | 0.4\* | 0.2 - 0.9 | 0.9 | 0.7 - 1.2 |
| High | 0.9 | 0.6 - 1.5 | 0.9 | 0.7 - 1.3 | 1.6 | 1.0 - 2.8 | 0.9 | 0.6 - 1.2 |
|  |
| \*p<0.05; \*\*p<0.01; \*\*\*p<0.001; UOR= unadjusted odds ratio; CI=confidence interval; ANC = antenatal Care; SBA = skilled birth attendance; PNC = postnatal care |
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