**ADDITIONAL FILES 2: TABLES S1 – S3**

**ADDITIONAL FILE 2. Table S1.** Distribution of positive RDT results in the 22 *fokontany*, for the intervention and control arms, at baseline and endline.

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Intervention arm (11 fokontany)** | | | | | **Control arm (11 fokontany)** | | | | |
| Names of the fokontany | Prevalence of positive RDT | | | | Names of the fokontany | Prevalence of positive RDT | | | |
| BASELINE  n/N *%* | | ENDLINE  n/N *%* | | BASELINE  n/N *%* | | ENDLINE  n/N *%* | |
| Ankazotokana | 224/1,315 | *17.0* | 159/1,109 | *14.3* | Ambohimiarina II\* | 87/1,246 | *7.0* | 35/690 | *5.1* |
| Kianjavato | 18/1,614 | *1.1* | 4/861 | *0.5* | Sahafotahina | 64/1,105 | *5.8* | 64/817 | *7.8* |
| Ambinany Namorona\* | 120/1,060 | *11.3* | 63/918 | *6.9* | Ambolotara | 31/1,038 | *3.0* | 18/554 | *3.2* |
| Manotro\* | 273/1,516 | *18.0* | 133/1,002 | *13.3* | Anilavinany\* | 40/1,103 | *3.6* | 22/925 | *2.4* |
| Andranomiteka | 214/1,099 | *19.5* | 49/557 | *8.8* | Ambohinihaonana\* | 147/1,310 | *11.2* | 100/1,181 | *8.5* |
| Tsarahafatra | 19/1,326 | *1.4* | 18/1,022 | *1.8* | Andranomavo\* | 100/1,567 | *6.4* | 46/1,048 | *4.4* |
| Ambalaromba | 48/1,331 | *3.6* | 11/1,028 | *1.1* | Mahavoky Sud\* | 117/1,142 | *10.2* | 36/1,086 | *3.3* |
| Anosimparihy | 58/1,180 | *4.9* | 20/1,062 | *1.9* | Amboditandroho\* | 99/1,094 | *9.0* | 31/768 | *4.0* |
| Ambalamanasa | 24/1,464 | *1.6* | 16/1,096 | *1.5* | Ambakoana | 60/1,022 | *5.9* | 84/941 | *8.9* |
| Tanambao Sud\* | 100/1,195 | *8.4* | 77/1,067 | *7.2* | Sandravakoka | 90/1,090 | *8.3* | 91/739 | *12.3* |
| Maroamboka\* | 43/1,164 | *3.7* | 24/948 | *2.5* | Tanambaobe | 40/1,106 | *3.6* | 33/1,056 | *3.1* |
| Total | 1,141/14,264 | *8.0* | 574/10,670 | *5.4* | Total | 875/12,823 | *6.8* | 560/9,805 | *5.7* |

\* *Fokontany with IRS*

**ADDITIONAL FILE 2. Table S2.** Impact of Pro-CCM and IRS on malaria prevalence, per-protocol analyses (multivariate results, generalized estimating equations)

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Variable** | **Individuals all ages1** | **Children less than 15 years2** | **Children under 5 years** | **Children 5 to 14 years** | **Individuals 15+ years** |
|  | **OR (95% CI)** | **OR (95% CI)** | **OR (95% CI)** | **OR (95% CI)** | **OR (95% CI)** |
| Intercept | 0.05  (0.03-0.08)\*\*\* | 0.15  (0.03-0.47)\* | 0.03  (0.01-0.06)\*\*\* | 0.14  (0.09-0.21)\*\*\* | 0.03  (0.02-0.05)\*\*\* |
| **Differences at baseline** |  |  |  |  |  |
| Between arms (intervention vs control) | 0.99 (0.54-1.82) | 0.26 (0.02-3.47) | 1.83 (0.92-3.65) | 0.91 (0.49-1.68) | 1.11 (0.59-2.06) |
| Between IRS status (receiving vs. not) | 0.96 (0.5-1.83) | 0.26 (0.02-3.61) | 1.34 (0.57-3.13) | 0.9 (0.46-1.74) | 1.37 (0.74-2.52) |
| **Differences over time** |  |  |  |  |  |
| End line vs baseline | 1.02 (0.7-1.47) | 0.96 (0.77-1.19) | 1.06 (0.49-2.29) | 0.9 (0.66-1.23) | 1.2 (0.76-1.89) |
| **Impact of interventions** |  |  |  |  |  |
| Impact of Pro-CCM over time (DiD) | 0.73 (0.47-1.14) | 0.63 (0.38-1.05) | 0.71 (0.32-1.59) | 0.7 (0.46-1.06) | 0.83 (0.5-1.37) |
| Impact of IRS over time (DiD) | 0.71 (0.45-1.12) | 0.69 (0.45-1.05) | 0.91 (0.39-2.1) | 0.71 (0.48-1.04) | 0.68 (0.42-1.11) |

\*p-value < 0.05; \*\* p-value < 0.01; \*\*\* p-value < 0.001

1 Model adjusted for age group; Children 0-4 years (ref); Children 5-14 years OR 2.49 (95% CI 1.82-3.39)\*\*\*; Individuals 15+ years OR 0.72 (95% CI 0.5-1.04)

2 Model adjusted for age group; Children 0-4 years (ref); Children 5-14 years OR 2.38 (95% CI 2-2.83)\*\*\*

**ADDITIONAL FILE 2. Table S3.** Comparison of observed proportion of parasite prevalence by RDT by age group between intervention and control arms.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Age group** | **Intervention arm** | | **Control arm** | |
|  | **Baseline** | **Endline** | **Baseline** | **Endline** |
| Children under 5 years | 8.0% | 4.9% | 4.6% | 3.8% |
| Children 5 to 14 years | 14.6% | 8.9% | 12.6% | 10.2% |
| Individuals 15 years and older | 4.2% | 3.5% | 4.3% | 3.8% |

**ADDITIONAL FILE 2. Table S4.** Comparison of reported bed net use (LLIN) by age group between baseline and endline surveys.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Age group (years)** | **Baseline** | | **Endline** | |
|  | **n** | **%** | **n** | ***%*** |
| 0-4 | 5257 | 92.1 | 3960 | 94.9 |
| 5-14 | 7998 | 87.9 | 6183 | 90.6 |
| 15-49 | 11447 | 89.3 | 8417 | 92.9 |
| >50 | 2385 | 91.7 | 1915 | 95.1 |