

Supplemental files

The effectiveness of malaria camps as part of the malaria control program in Odisha, India

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figure

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Figure legends

Supplemental Figure 1. Timeline of the interventions and surveys (enrolments) undertaken in the study villages. Malaria Camp (MC) Interventions (Green) timeline and enrolment surveys (Orange) undertaken during Aug 2019 to Nov 2020 during the Covid-19 pandemic. BL: Baseline, FU1: Follow up 1, FU2: Follow up 2, FU3: Follow up 3. The timeline of village-wise enrolments is shown in the table: village-wise enrolments at baseline, FU1, FU2 and FU3 surveys. Enrolments were halted midway in FU1 (dark grey highlights) due to Covid 19 pandemic restrictions (designated ^) and impacted significantly in FU2 (light grey highlights) due to apprehension of being involved in the study by participants.

Supplemental Table 1. Demographic characteristics and *Plasmodium* outcomes for individuals retained in the study versus those lost-to-follow-up.

| Variable | Lost-to-follow-up | | p-value ¹ |
|---|-----------------------|-----------------------|----------------------|
| | No n=1999 n (%) | Yes n=464 n (%) | |
| Study arm | | | |
| Arm A (New MC) | 807 (40.4) | 194 (41.8) | 0.425 |
| Arm B (Delayed MC) | 826 (41.3) | 197 (42.5) | |
| Arm C (Old MC) | 366 (18.3) | 73 (15.7) | |
| Age categories | | | |
| ≤5 | 251 (12.6) | 97 (20.9) | <0.001 |
| 6-17 | 569 (28.5) | 156 (33.6) | |
| 18-34 | 498 (24.9) | 83 (17.9) | |
| ≥35 | 681 (34.1) | 128 (27.6) | |
| Sex | | | |
| Male | 858 (42.9) | 221 (47.6) | 0.093 ² |
| Female | 1139 (57.0) | 242 (52.2) | |
| Missing | 2 (0.1) | 1 (0.2) | |
| Educational attainment | | | |
| No schooling/ less than primary | 969 (48.5) | 245 (52.8) | <0.001 ² |
| Primary | 451 (22.6) | 110 (23.7) | |
| Middle, secondary, or matric | 447 (22.4) | 100 (21.6) | |
| Higher secondary or more | 131 (6.6) | 9 (1.9) | |
| Missing | 1 (0.1) | 0 (0.0) | |
| Occupation | | | |
| Farmer or agricultural laborer | 105 (5.3) | 33 (7.1) | <0.001 |
| Other employment or trade | 384 (19.2) | 73 (15.7) | |
| Housewife | 614 (30.7) | 95 (20.5) | |
| Student | 684 (34.2) | 174 (37.5) | |
| Child, not in school | 162 (8.1) | 74 (15.9) | |
| None | 49 (2.5) | 14 (3.0) | |
| Missing | 1 (0.1) | 1 (0.2) | |
| Any malaria by RDT | | | |
| No | 1,981 (99.1) | 425 (91.6) | <0.001 ² |
| Yes | 11 (0.6) | 36 (7.8) | |
| Missing | 7 (0.4) | 3 (0.6) | |
| Any <i>Plasmodium</i> infection by PCR | | | |
| No | 1,924 (96.2) | 264 (56.9) | <0.001 |
| Yes | 50 (2.5) | 189 (40.7) | |
| Missing | 25 (1.3) | 11 (2.4) | |
| Any <i>Plasmodium</i> infection by RDT or PCR | | | |
| No | 1,949 (97.5) | 274 (59.1) | <0.001 |
| Yes | 50 (2.5) | 190 (40.9) | |
| Asymptomatic <i>Plasmodium</i> infection³ | | | |
| No | 30 (60.0) | 93 (48.9) | 0.164 |
| Yes | 20 (40.0) | 97 (51.1) | |
| Subpatent <i>Plasmodium</i> infection⁴ | | | |
| No | 11 (22.0) | 36 (18.9) | 0.754 ² |
| Yes | 39 (78.0) | 153 (80.5) | |
| Missing | 0 (0.0) | 1 (0.5) | |

MC = malaria camp; RDT = rapid diagnostic test; PCR = polymerase chain reaction

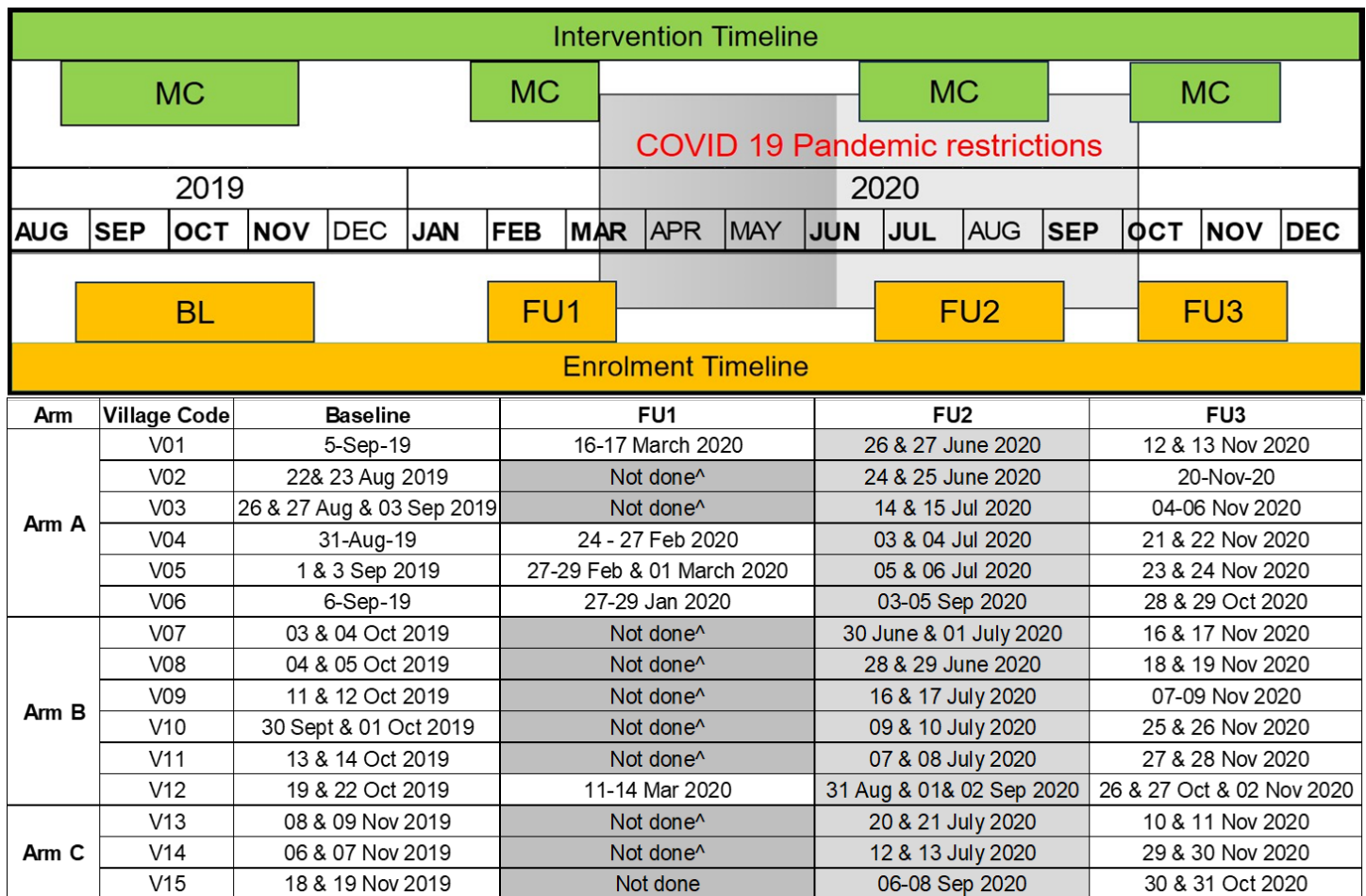
¹ χ^2 p-value, unless otherwise noted

² Fishers exact test

³ Asymptomatic *Plasmodium* infections are RDT+ or PCR+ and fever-

⁴ Subpatent *Plasmodium* infections are RDT- and PCR+

Supplemental figure 1.



Supplemental Table 2. Village-specific *Plasmodium* outcomes at baseline and follow-up.

| Study Arm | Village Number | Prevalence (%) of Plasmodium infection detected by PCR | |
|---------------------|----------------|--|-------------|
| | | Baseline | Follow-up 3 |
| Arm A (New MC) | 1 | 20.51 | 3.12 |
| | 2 | 24.49 | 0.00 |
| | 3 | 20.82 | 7.41 |
| | 4 | 10.09 | 1.13 |
| | 5 | 8.27 | 0.00 |
| | 6 | 11.29 | 0.00 |
| | 7 | 22.58 | 0.00 |
| Arm B (Delayed MC) | 8 | 1.48 | 0.00 |
| | 9 | 17.01 | 18.71 |
| | 10 | 0.75 | 0.00 |
| | 11 | 1.55 | 0.00 |
| | 12 | 6.33 | 0.00 |
| Arm C (Previous MC) | 13 | 9.38 | 3.77 |
| | 14 | 0.00 | 0.00 |
| | 15 | 3.16 | 0.00 |