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| **Supplementary Table S1. Prevalence of asymptomatic malaria by age groups and level of education** |
| **Study sites** | **Prevalence by age groups in years**, ***n* (%)** | **Prevalence by level of education**, ***n* (%)** |
| **Village (*n*)** | < 5\*\* | 5 – 15\*\*\* | 16 – 30\*\* | 31 - 45 | > 45 | No formal\*\*\* | Primary\*\*\* | Secondary | Tertiary |
| Nyangalamila (84) | 14 (16.7) | 44 (52.4) | 16 (19.1) | 4 (4.8) | 6 (7.1) | 37 (44.0) | 43 (51.2) | 3 (3.6) | 1 (1.2) |
| Kayenze (77) | 17 (22.1) | 31 (40.3) | 21 (27.3) | 5 (6.5) | 3 (3.9) | 36 (46.8) | 40 (51.9) | 1 (1.3) | 0 (0.0) |
| Rwantaba (133) | 31 (23.3) | 72 (54.1) | 14 (10.5) | 8 (6.0) | 8 (6.0) | 35 (26.3) | 91 (68.4) | 6 (4.5) | 1 (0.8) |
| Ihanga (169) | 27 (16.0) | 102 (60.4) | 27 (16.0) | 6 (3.6) | 7 (4.1) | 57 (33.7) | 104 (61.5) | 7 (4.1) | 1 (0.6) |
| **GEITA (463)** | **89 (19.2)** | **249 (53.8)** | **78 (16.9)** | **23 (5.0)** | **24 (5.2)** | **165 (37.7)** | **278 (58.3)** | **17 (3.4)** | **3 (0.6)** |
| Kumuhasha (104) | 23 (22.1) | 49 (47.1) | 25 (24.0) | 4 (3.9) | 3 (2.9) | 32 (30.8) | 62 (59.6) | 7 (6.7) | 3 (2.9) |
| Bunyambo (87) | 25 (28.7) | 50 (57.5) | 9 (10.3) | 2 (2.3) | 1 (1.2) | 38 (43.7) | 41 (47.1) | 6 (6.9) | 2 (2.3) |
| Nyamnyusi (98) | 12 (12.2) | 58 (59.2) | 14 (14.3) | 9 (9.2) | 5 (5.1) | 15 (15.3) | 83 (84.7) | 0 (0.0) | 0 (0.0) |
| Mugombe (90) | 9 (10.0) | 70 (77.8) | 7 (7.8) | 2(2.2) | 2 (2.2) | 14 (15.6) | 74 (82.2) | 2 (2.2) | 0 (0.0) |
| **KIGOMA (379)** | **69 (18.2)** | **227 (59.9)** | **55 (14.5)** | **17 (4.5)** | **11 (2.9)** | **99 (26.3)** | **260 (68.4)** | **15 (4.0)** | **5 (1.3)** |
| Maji ya chai (10) | 2 (20.0) | 4 (40.0) | 1 (10.0) | 1 (10.0) | 2 (20.0) | 5 (50.0) | 3 (30.0) | 1 (10.0) | 1 (10.0) |
| Ngurudoto (5) | 1 (20.0) | 3 (60.0) | 0 (0.0) | 1 (20.0) | 0 (0.0) | 3 (60.0) | 2 (40.0) | 0 (0.0) | 0 (0.0) |
| Bwawani (14) | 5 (35.7) | 6 (42.9) | 2 (14.3) | 0 (0.0) | 1 (7.1) | 5 (35.7) | 7 (50.0) | 2 (14.3) | 0 (0.0) |
| Themi simba (3) | 0 (0.0) | 1 (33.3) | 0 (0.0) | 1 (33.3) | 1 (33.3) | 3 (100.0) | 0 (0.0) | 0 (0.0) | 0 (0.0) |
| **ARUSHA (32)** | **8 (25.0)** | **14 (43.8)** | **3 (9.4)** | **3 (9.4)** | **4 (12.5)** | **16 (61.4)** | **12 (30.0)** | **3 (6.1)** | **1 (2.5)** |
| **OVERALL (874)** | **166 (19.0)** | **490 (56.1)** | **136 (15.6)** | **43 (4.9)** | **39 (4.5)** | **280 (32.0)** | **550 (62.9)** | **35 (4.0)** | **9 (1.0)** |

\* Statistical significance was indicated by \*\* (p < 0.01) and \*\*\* (p < 0.001) using one-way ANOVA analysis.