

Online Supplementary Document

Krezanoski PJ et al. Household malaria knowledge and its association with bednet ownership in settings without large-scale distribution programs: Evidence from rural Madagascar
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Supplemental table 1: Correlates of household bednet ownership in sample restricted to HOUSEHOLD HEADS (HH)

| Variable | Bivariate analysis | | Multivariate analysis | |
|---|--------------------|---------|-----------------------|---------|
| | OR (95% CI) | P value | OR (95% CI) | P value |
| Head of household characteristics | | | | |
| Age of HH | 1.01 (0.98—1.04) | 0.453 | – | – |
| Gender of HH | 0.79 (0.23—2.67) | 0.706 | – | – |
| Education level of HH | 1.06 (0.88—1.29) | 0.531 | – | – |
| Household characteristics | | | | |
| Number of HH members | 1.14 (0.97—1.35) | 0.123 | 3.75 (0.97—14.55) | 0.056 |
| Reported fever in last month | 3.50 (1.03—11.89) | 0.044 | 1.03 (0.80—1.32) | 0.824 |
| Number of children under 5 years | 0.90 (0.46—1.75) | 0.755 | – | – |
| Number of pregnant women | – | – | – | – |
| Open water source | 1.24 (0.32—4.82) | 0.753 | – | – |
| Distance to water source (mns walk) | 1.02 (0.95—1.09) | 0.567 | – | – |
| Wealth index | | | | |
| ...quintile relative to lowest wealth quintile | | | | |
| Second | – | – | – | – |
| Third | – | – | – | – |
| Fourth | 0.35 (0.03—3.45) | 0.366 | 0.28 (0.03—3.10) | 0.302 |
| Fifth | 2.77 (0.67—11.36) | 0.158 | 2.90 (0.47—17.80) | 0.251 |
| Respondent perception/knowledge of malaria | | | | |
| Reports fever most frequent illness in village | 0.72 (0.15—3.49) | 0.684 | – | – |
| Reports fever most dangerous illness in village | 1.41 (0.42—4.74) | 0.581 | – | – |
| Malaria knowledge index | 4.77 (1.01—22.55) | 0.049 | 5.82 (1.10—30.84) | 0.038 |

N = 250 observations.

CI – confidence interval

Supplemental table 2: Correlates of household bednet ownership in sample restricted to WIVES of household heads

| Variable | Bivariate analysis | | Multivariate analysis | |
|---|--------------------|---------|-----------------------|---------|
| | OR (95% CI) | P value | OR (95% CI) | P value |
| Head of household characteristics | | | | |
| Age of wife | 1.01 (0.99—1.04) | 0.349 | – | – |
| Gender of wife | – | – | – | – |
| Education level of wife | 1.05 (0.91—1.20) | 0.510 | – | – |
| Household characteristics | | | | |
| Number of household members | 1.11 (0.97—1.27) | 0.139 | 1.10 (0.95—1.26) | 0.200 |
| Reported fever in last month | 1.58 (0.74—3.36) | 0.234 | 1.35 (0.61—2.98) | 0.458 |
| Number of children under 5 years | 1.12 (0.74—1.69) | 0.588 | – | – |
| Number of pregnant women | 1.72 (0.51—5.84) | 0.382 | – | – |
| Open water source | 1.12 (0.51—2.45) | 0.777 | – | – |
| Distance to water source (mns walk) | 1.01 (0.96—1.05) | 0.792 | – | – |
| Wealth index | | | | |
| ...quintile relative to lowest wealth quintile | | | | |
| Second | 0.34 (0.08—1.35) | 0.124 | 0.43 (0.10—1.78) | 0.246 |
| Third | 0.72 (0.23—2.24) | 0.566 | 0.92 (0.29—2.98) | 0.892 |
| Fourth | 0.46 (0.13—1.63) | 0.227 | 0.61 (0.16—2.25) | 0.455 |
| Fifth | 1.34 (0.48—3.74) | 0.572 | 1.98 (0.66—5.96) | 0.221 |
| Respondent perception/knowledge of malaria | | | | |
| Reports fever most frequent illness in village | 0.54 (0.19—1.56) | 0.254 | – | – |
| Reports fever most dangerous illness in village | 1.23 (0.56—2.69) | 0.604 | – | – |
| Malaria knowledge index | 3.28 (1.41—7.67) | 0.006 | 3.53 (1.44—8.68) | 0.006 |

N = 254 observations unless specified.

Supplemental table 3: Correlates of household bednet ownership in sample restricted to HOUSEHOLD DECISION MAKERS (Household Heads (HH) or WIVES)

| Variable | Bivariate analysis | | Multivariate analysis | |
|---|--------------------|---------|-----------------------|---------|
| | OR (95% CI) | P value | OR (95% CI) | P value |
| Head of household characteristics* | | | | |
| Age of HH | 1.01 (0.98—1.05) | 0.429 | – | – |
| Gender of HH | 0.80 (0.24—2.69) | 0.715 | – | – |
| Education level of HH | 1.06 (0.87—1.28) | 0.559 | – | – |
| Household characteristics | | | | |
| Number of household members | 1.15 (1.04—1.27) | 0.007 | 1.10 (0.98—1.24) | 0.095 |
| Reported fever in last month | 2.21 (1.17—4.17) | 0.015 | 1.82 (0.94—3.54) | 0.076 |
| Number of children under 5 years | 1.09 (0.77—1.52) | 0.638 | – | – |
| Number of pregnant women | 1.48 (0.45—4.85) | 0.517 | – | – |
| Open water source | 1.07 (0.55—2.09) | 0.843 | – | – |
| Distance to water source (mns walk) | 1.01 (0.97—1.05) | 0.652 | – | – |
| Wealth index | | | | |
| ...quintile relative to lowest wealth quintile | | | | |
| Second | 1.15 (0.46—4.91) | 0.497 | 1.05 (0.31—3.56) | 0.935 |
| Third | 1.03 (0.29—3.68) | 0.962 | 0.80 (0.22—2.96) | 0.739 |
| Fourth | 1.96 (0.63—6.06) | 0.244 | 1.29 (0.39—4.21) | 0.675 |
| Fifth | 3.8 (1.33—10.73) | 0.013 | 2.68 (0.86—8.34) | 0.089 |
| Respondent perception/knowledge of malaria | | | | |
| Reports fever most frequent illness in village | 0.66 (0.28—1.56) | 0.347 | – | – |
| Reports fever most dangerous illness in village | 1.46 (0.77—2.80) | 0.249 | 1.19 (0.60—2.34) | 0.620 |
| Malaria knowledge index | 3.64 (1.75—7.59) | 0.001 | 3.41 (1.59—7.32) | 0.002 |

N = 560 observations unless specified. *N= 286 because of missing variables.

CI – confidence interval