

## 1. IDENTIFICATION

**Source\_ID.** Unique source identifier.

**Country.** Country where the study was conducted.

**Site.** Site name.

**Lat.** Latitude in decimal degrees.

**Long.** Longitude in decimal degrees.

**Area\_type.** Point (within 10km<sup>2</sup>), wide area (10-25 km<sup>2</sup>), small polygon (25-100 km<sup>2</sup>) or large polygon (>100 km<sup>2</sup>).

**Insecticide\_control.** Indicates whether insecticide based control methods are in place (previously implemented or implemented as part of the referenced study) at the specified location and time period.

T: TRUE.

F: FALSE .

blank if unknown.

**Control\_type.** If 'TRUE' above, details the insecticide control method.

ITN: insecticide treated nets.

IRS: indoor residual spraying.

IT curtains: insecticide treated curtains.

Coil: coil.

Combination: more than one control method used.

?: not stated.

**Month\_start.** Survey start month.

**Month\_end.** Survey end month.

**Year\_start.** Survey start year.

**Year\_end.** Survey end year.

**Season\_given.** Rainy or dry season at the time of the survey, as indicated in the source.

**Season\_calc.** Rainy or dry season at the time of the survey, as derived from information on the general seasonal timings provided from the source or elsewhere.

**Species.** The *Anopheles* species, species complex or subgroup. Also includes molecular form or chromosomal form if reported.

**ASSI.** Additional species specific information given in the source and provided as a free text field.

**Id\_1.** The method used to identify species.

Chromosome banding: banding patterns on chromosomes.

Cyto: cytological = cell/chromosomal characteristics.

DNA: other DNA probing methods without PCR.

M: morphological.

Palpal ratio: palpal ratio.

PCR: Polymerase Chain Reaction amplification techniques.

Polytene chromosome: banding patterns on polytene chromosomes.

PCR/DNA: PCR combined with DNA probe.

Blank: unknown or unreported identification method.

**Id\_2.** The second method used to identify species, using same options as above.

## 2. VECTOR BIOLOGY

**Biology\_sampling\_1.** The sampling methods used to collect the specimens detailed in the VECTOR BIOLOGY section. Three methods can be listed. If more than three methods have been used, this is indicated as 't' in the final column.

MBI: Human biting indoors

MBO: Human biting outdoors

MB: Human biting (location not specified)

ABI: Animal biting indoors  
ABO: Animal biting outdoors  
AB: Animal biting (location not specified)  
HRI: House resting indoors  
ILT: Indoor light trap  
OLT: Outdoor light trap  
RO: Resting outdoors (location not specified, or locations combined)  
RO (pit): Resting outdoors in pits  
RO (shelter): Resting outdoors in a shelter  
RO (ani-shelter): Resting outdoors in an animal shelter  
WinExit: Window exit traps  
HBN: Human baited net  
ABN: Animal baited net  
Odour-trap: Odour trap  
Tent trap: Tent trap  
Col. Curtains: Colombian curtains  
?: Sampling method not specified

**Biology\_sampling\_2.** As 'Biology\_sampling\_1'.

**Biology\_sampling\_3.** As 'Biology\_sampling\_1'.

**Biology\_sampling\_n.** 't' indicates that there are more than three sampling methods.

**Parity\_n.** The number of parous females detected from the total number examined.

**Parity\_total.** The total number of females examined for parity.

**Parity\_percent.** The percentage of parous females in the sample: number of parous females/total number examined\*100.

**Daily\_survival\_rate\_percent.** The estimated proportion of female mosquitoes alive on day  $d$  that are still alive on day  $d+1$ .

**Fecundity.** The number of eggs laid per batch.

**Gonotrophic\_cycle\_days.** The number of days for a female mosquito to go through the reproduce-feeding cycle.

### 3. VECTOR INFECTION RATE

**Infection\_sampling\_1.** The sampling methods used to collect the specimens detailed in the VECTOR INFECTION RATE section. Three methods can be listed. If more than three methods have been used, this is indicated as 't' in the final column. As 'Biology\_sampling\_1'.

**Infection\_sampling\_2.** As 'Infection\_sampling\_1'.

**Infection\_sampling\_3.** As 'Infection\_sampling\_1'.

**Infection\_sampling\_n.** 't' indicates that there are more than three sampling methods.

**SR\_dissection\_n.** The number of sporozoite infected females detected by dissection from the total number examined.

**SR\_dissection\_total.** The total number of females dissected for sporozoites.

**SR\_dissection\_percent.** The percentage of sporozoite infected females detected by dissection in the sample: number of infected females/total number examined\*100.

**SR\_CSP\_n.** The number of sporozoite infected females detected by circumsporozoite protein (CSP) analysis from the total number examined.

**SR\_CSP\_Pf\_n.** The number of *P. falciparum* specific sporozoite infected females detected by CSP analysis from the total number examined. This field is only included for the Americas and the Asia-Pacific region.

**SR\_CSP\_Pv\_n.** The number of *P. vivax* (variant not stated or combined) specific sporozoite infected females detected by CSP analysis from the total number examined. This field is only included for the Americas and the Asia-Pacific region.

**SR\_CSP\_Pv\_210\_n.** The number of *P. vivax* variant 210 specific sporozoite infected females detected by CSP analysis from the total number examined. This field is only included for the Americas and the Asia-Pacific region.

**SR\_CSP\_Pv\_247\_n.** The number of *P. vivax* variant 247 specific sporozoite infected females detected by CSP analysis from the total number examined. This field is only included for the Americas and the Asia-Pacific region.

**SR\_CSP\_Pm\_n.** The number of *P. malariae* specific sporozoite infected females detected by CSP analysis from the total number examined. This field is only included for the Americas and the Asia-Pacific region.

**SR\_CSP\_Po\_n.** The number of *P. ovale* specific sporozoite infected females detected by CSP analysis from the total number examined. This field is only included for the Americas and the Asia-Pacific region.

**SR\_CSP\_total.** The total number of females analysed for CSP.

**SR\_CSP\_percent.** The percentage of sporozoite infected females detected by CSP analysis in the sample: number of infected females/total number analysed\*100.

**SR\_CSP\_Pf\_percent.** The percentage of *P. falciparum* specific sporozoite infected females detected by CSP analysis in the sample: number of *P. falciparum* specific infected females/total number analysed\*100. This field is only included for the Americas and the Asia-Pacific region.

**SR\_CSP\_Pv\_percent.** The percentage of *P. vivax* (variant not stated or combined) specific sporozoite infected females detected by CSP analysis in the sample: number of *P. vivax* specific infected females/total number analysed\*100. This field is only included for the Americas and the Asia-Pacific region.

**SR\_CSP\_Pv\_210\_percent.** The percentage of *P. vivax* variant 210 specific sporozoite infected females detected by CSP analysis in the sample: number of *P. vivax* variant 210 specific infected females/total number analysed\*100. This field is only included for the Americas and the Asia-Pacific region.

**SR\_CSP\_Pv\_247\_percent.** The percentage of *P. vivax* variant 247 specific sporozoite infected females detected by CSP analysis in the sample: number of *P. vivax* variant 247 specific infected females/total number analysed\*100. This field is only included for the Americas and the Asia-Pacific region.

**SR\_CSP\_Pm\_percent.** The percentage of *P. malariae* specific sporozoite infected females detected by CSP analysis in the sample: number of *P. malariae* specific infected females/total number analysed\*100. This field is only included for the Americas and the Asia-Pacific region.

**SR\_CSP\_Po\_percent.** The percentage of *P. ovale* specific sporozoite infected females detected by CSP analysis in the sample: number of *P. ovale* specific infected females/total number analysed\*100. This field is only included for the Americas and the Asia-Pacific region.

**Oocyst\_n.** The number of oocyst infected females detected from the total number examined.

**Oocyst\_total.** The total number of females examined for oocysts.

**Oocyst\_percent.** The percentage of oocyst infected females detected in the sample: number of infected females/total number examined\*100.

**EIR.** The entomological inoculation rate. This is the number of infective bites per person per unit time.

**EIR\_period.** The unit of time relating to the EIR.

**Ext\_incubation\_period\_days.** The extrinsic incubation period of the malaria parasite in days.

#### 4. HUMAN BITING RATE

**Indoor\_HBR\_sampling.** The sampling method used to collect the mosquitoes from which indoor human biting rate is evaluated. As 'Biology\_sampling\_1'.

**Indoor HBR.** The indoor human biting rate; the number of bites per person per unit time.

**Outdoor\_HBR\_sampling.** The sampling method used to collect the mosquitoes from which outdoor human biting rate is evaluated. As 'Biology\_sampling\_1'.

**Outdoor HBR.** The outdoor human biting rate; the number of bites per person per unit time.

**Combined\_HBR\_sampling\_1.** The sampling methods used to collect the mosquitoes from which human biting rate is evaluated where data are amalgamated from more than one method (e.g. where HBRs are given from combined indoor and outdoor sampling methods, or where the method used is unclear). Three methods can be listed. If more than three methods have been used, this is indicated as 't' in the final column. As 'Biology\_sampling\_1'.

**Combined\_HBR\_sampling\_2.** As 'Combined\_HBR\_sampling\_1'.

**Combined\_HBR\_sampling\_3.** As 'Combined\_HBR\_sampling\_1'.

**Combined\_HBR\_sampling\_n.** 't' indicates that there are more than three sampling methods.

**Combined\_HBR.** The human biting rate evaluated from the data from amalgamated sampling methods.

**HBR\_unit.** The unit time for the HBR data.

## 5. VECTOR HOST PREFERENCE

**Indoor\_host\_sampling.** The indoor sampling method used to collect the mosquitoes from which indoor host preference is evaluated. As 'Biology\_sampling\_1'.

**Indoor\_host\_n.** The number of mosquitoes positively indicating a measure of host preference from the total number collected indoors.

**Indoor\_host\_total.** The total number of mosquitoes sampled indoors examined for measures of host preference.

**Indoor host.** The measure of host preference from indoor sampled mosquitoes.

**Outdoor\_host\_sampling.** The outdoor sampling method used to collect the mosquitoes from which outdoor host preference is evaluated. As 'Biology\_sampling\_1'.

**Outdoor\_host\_n.** The number of mosquitoes positively indicating a measure of host preference from the total number collected outdoors.

**Outdoor\_host\_total.** The total number of mosquitoes sampled outdoors examined for measures of host preference.

**Outdoor host.** The measure of host preference from outdoor sampled mosquitoes.

**Combined\_host\_sampling\_1.** The sampling methods used to collect the mosquitoes from which host preference is evaluated where data are amalgamated from more than one method, or where the method used is unclear. Three methods can be listed. If more than three methods have been used, this is indicated as 't' in the final column. As 'Biology\_sampling\_1'.

**Combined\_host\_sampling\_2.** As 'Combined\_host\_sampling\_1'.

**Combined\_host\_sampling\_3.** As 'Combined\_host\_sampling\_1'.

**Combined\_host\_sampling\_n.** 't' indicates that there are more than three sampling methods.

**Combined\_host\_n.** The number of mosquitoes positively indicating a measure of host preference collected by a combination of sampling methods.

**Combined\_host\_total.** The total number of mosquitoes sampled by a combination of sampling methods, examined for measures of host preference.

**Combined\_host.** The measure of host preference from mosquitoes sampled by a combination of methods.

**Host\_unit.** Indicates the measure used to identify host preference.

HBI (%): Human Blood Index as a percentage.

ABI (%): Animal Blood Index as a percentage.

HBI (%calc): Human Blood Index as a percentage calculated from data given in source.

ABI (%calc): Animal Blood Index as a percentage calculated from data given in source.

AI: "Anthropophilic Index", a measure of attraction to humans not included above, for example % individuals attracted to human baited trap over total collected in both human and cattle baited trap, calculated from count data.

NB. the unit 'HBI (%calc)' and 'ABI (%calc)' is where the source provides the raw data needed to calculate HBI or ABI but does not actually present these data. The unit indicates that the calculation has been done here.

**Other\_host\_sampling\_1.** The sampling methods used to collect the mosquitoes from which host preference is evaluated where additional data are presented examining host preference. Three methods can be listed. If more than three methods have been used, this is indicated as 't' in the final column. As 'Biology\_sampling\_1'.

**Other\_host\_sampling\_2.** As 'Other\_host\_sampling\_1'.

**Other\_host\_sampling\_3.** As 'Other\_host\_sampling\_1'.

**Other\_host\_sampling\_n.** 't' indicates that there are more than three sampling methods.

**Other\_host\_n.** The number of mosquitoes positively indicating a measure of host preference.

**Other\_host\_total.** The total number of mosquitoes examined for measures of host preference.

**Other\_host.** The measure of host preference

**Other\_host\_unit.** As 'Host\_unit'.

## 6. HUMAN BITING LOCATION AND TIME

**Indoor\_number\_sampling\_nights\_biting.** The sampling effort, in number of 'man nights', to collect the indoor biting data.

**Indoor\_biting\_sampling.** The sampling method used to collect the indoor mosquitoes from which biting location preference is determined. As 'Biology\_sampling\_1'.

**Indoor\_biting\_n.** The number of mosquitoes found biting indoors.

**Indoor\_biting\_total.** The total number of indoor and outdoor biting mosquitoes.

**Indoor\_biting.** The percentage or ratio of mosquitoes found biting indoors.

**Outdoor\_number\_sampling\_nights\_biting.** The sampling effort, in number of 'man nights', to collect the outdoor biting data.

**Outdoor\_biting\_sampling.** The sampling method used to collect the outdoor mosquitoes from which biting location preference is determined. As 'Biology\_sampling\_1'.

**Outdoor\_biting\_n.** The number of mosquitoes found biting outdoors.

**Outdoor\_biting\_total.** The total number of indoor and outdoor biting mosquitoes.

**Outdoor\_biting.** The percentage or ratio of mosquitoes found biting outdoors.

**Indoor\_outdoor\_biting\_units.** Indicates the data unit for the indoor and outdoor biting data.

I:O: Indoor to outdoor ratio.

%: % biting indoors (or outdoors) given in source.

%calc: % biting indoors (or outdoors) calculated from data given in source.

NB. the unit '%calc' is where the source provides the raw data for indoor and outdoor biting densities but does not calculate the percentage indoors/outdoors. The unit indicates that the calculation has been done here.

**Indoor\_number\_sampling\_nights\_biting\_activity.** The sampling effort, in number of 'man nights', relevant to indoor biting activity data.

**Indoor\_1830\_2130.** 't' given here if indoor biting activity peaks in the first quarter of the night, includes dusk biting.

**Indoor\_2130\_0030.** 't' given here if indoor biting activity peaks in the second quarter of the night.

**Indoor\_0030\_0330.** 't' given here if indoor biting activity peaks in the third quarter of the night.

**Indoor\_0330\_0630.** 't' given here if indoor biting activity peaks in the fourth quarter of the night, includes dawn biting.

**Outdoor\_number\_sampling\_nights\_biting\_activity.** The sampling effort, in number of 'man nights', relevant to outdoor biting activity data.

**Outdoor\_1830\_2130.** 't' given here if outdoor biting activity peaks in the first quarter of the night, includes dusk biting.

**Outdoor\_2130\_0030.** 't' given here if outdoor biting activity peaks in the second quarter of the night.

**Outdoor\_0030\_0330.** 't' given here if outdoor biting activity peaks in the third quarter of the night.

**Outdoor\_0330\_0630.** 't' given here if outdoor biting activity peaks in the fourth quarter of the night, includes dawn biting.

**Combined\_number\_sampling\_nights\_biting\_activity.** The sampling effort, in number of 'man nights', relevant to biting activity data where data are presented for both indoor and outdoor biting combined.

**Combined\_1830\_2130.** 't' given here if combined biting activity peaks in the first quarter of the night, includes dusk biting.

**Combined\_2130\_0030.** 't' given here if combined biting activity peaks in the second quarter of the night.

**Combined\_0030\_0330.** 't' given here if combined biting activity peaks in the third quarter of the night.

**Combined\_0330\_0630.** 't' given here if combined biting activity peaks in the fourth quarter of the night, includes dawn biting.

## 7. VECTOR RESTING LOCATION PREFERENCE

**Indoor\_resting\_sampling.** Indoor sampling method used to collect the mosquitoes to assess indoor resting behaviour. As 'Biology\_sampling\_1'.

**Indoor\_unfed.** Total number of unfed mosquitoes in the sample collected indoors.

**Indoor\_fed.** Total number of fed mosquitoes in the sample collected indoors.

**Indoor\_gravid.** Total number of gravid mosquitoes in the sample collected indoors.

**Indoor\_total.** Total number of mosquitoes in the sample collected indoors, including unfed, fed and gravid females.

**Outdoor\_resting\_sampling.** Outdoor sampling method used to collect the mosquitoes to assess outdoor resting behaviour. As 'Biology\_sampling\_1'.

**Outdoor\_unfed.** Total number of unfed mosquitoes in the sample collected outdoors.

**Outdoor\_fed.** Total number of fed mosquitoes in the sample collected outdoors.

**Outdoor\_gravid.** Total number of gravid mosquitoes in the sample collected outdoors.

**Outdoor\_total.** Total number of mosquitoes in the sample collected outdoors, including unfed, fed and gravid females.

**Other\_resting\_sampling.** Sampling methods relevant to 'other' data. These columns are used when additional sampling is reported, for example if indoor and outdoor resting mosquitoes are listed in the previous sections, but the source also reports data from a third sampling method such as mosquitoes resting in animal sheds. As 'Biology\_sampling\_1'.

**Other\_unfed.** Total number of unfed mosquitoes in the sample collected by additional/'other' methods.

**Other\_fed.** Total number of fed mosquitoes in the sample collected by additional/'other' methods.

**Other\_gravid.** Total number of gravid mosquitoes in the sample collected by additional/'other' methods.

**Other\_total.** Total number of mosquitoes in the sample collected by additional/'other' methods, including unfed, fed and gravid females.

**Resting\_unit.** The unit relating to the indoor, outdoor or other resting data.

Count: raw count data.

%: percentage.

Per man hour: total number collected divided by time spent collecting in hours.

Fed:gravid: fed to gravid ratio, total number of fed specimens divided by total number of gravid specimens.

## 8. CITATION

**Citation.** The data source.

**PubMed\_ID.** PubMed ID, when available.