**S1 Table. Certainty assessment of the included evidence via the GRADE approach.**

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| --- | --- | --- | --- | --- |
| **Certainty assessment** | **№ of patients** | **Effect** | **Certainty** | **Importance** |
| **№ of studies** | **Study design** | **Risk of bias** | **Inconsistency** | **Indirectness** | **Imprecision** | **Other considerations** | **Housing intervention** | **Control** | **Relative****(95% CI)** | **Absolute****(95% CI)** |
| **Incidence of mosquito-borne diseases** |
| 5 | Randomized trials  | Not serious  | Not serious | Not serious  | Serious  | None  | 154/8124 (1.9%) | 101/6804 (1.5%) | **OR 0.68**(0.48 to 0.95)  | **5 fewer per 1,000**(from 8 fewer to 1 fewer)  | ⨁⨁⨁◯MODERATE  | CRITICALa  |
| **Incidence of malaria (subgroup analysis)** |
| 3 | Randomized trials  | Not serious  | Serious | Not serious  | Serious  | None  | 145/7362 (2.0%) | 93/6209 (1.5%) | **OR 0.63**(0.39 to 1.01) | **5 fewer per 1,000**(from 9 fewer to 0 fewer) | ⨁⨁◯◯LOW | CRITICALb |
| **Incidence of dengue (subgroup analysis)** |
| 2 | Randomized trials  | Not serious  | Not serious | Not serious  | Serious  | None  | 9/762 (1.2%) | 8/595 (1.3%) | **OR 0.87**(0.33 to 2.27) | **2 fewer per 1,000**(from 9 fewer to 17 more) | ⨁⨁⨁◯MODERATE  | CRITICALa  |
| **Incidence of mosquito-borne diseases (subgroup of installation of mosquito traps)**  |
| 3 | Randomized trials  | Not serious  | Not serious | Not serious  | Serious  | None  | 32/7312 (0.4%) | 41/6408 (0.6%) | **OR 0.67** (0.42 to 1.07) | **2 fewer per 1,000**(from 4 fewer to 0 fewer) | ⨁⨁⨁◯MODERATE  | CRITICALa |
| **Incidence of mosquito-borne diseases (subgroup of installation of screened doors and windows)** |
| 1 | Randomized trial | Not serious  | Not serious | Not serious  | Serious  | None  | 10/239 (4.2%) | 26/238 (10.9%) | **OR 0.36**(0.17 to 0.76) | **67 fewer per 1,000**(from 89 fewer to 24 fewer) | ⨁⨁⨁◯MODERATE  | CRITICALa  |
| **Incidence of mosquito-borne diseases (subgroup of installation of screened ceilings or full screening of doors, windows, and closed eaves)** |
| 1 | Randomized trial | Not serious  | Not serious | Not serious  | Serious  | None  | 112/573 (19.5%) | 34/158 (21.5%) | **OR 0.89**(0.58 to 1.36) | **19 fewer per 1,000**(from 78 fewer to 56 more) | ⨁⨁⨁◯MODERATE  | CRITICALa |
| **Incidence of mosquito-borne diseases (subgroup of rural locations)** |
| 1 | Randomized trial | Not serious  | Not serious | Not serious  | Not serious | None  | 23/6550 (0.4%) | 33/5813 (0.6%) | **OR 0.62**(0.36 to 1.05) | **2 fewer per 1,000**(from 4 fewer to 0 fewer) | ⨁⨁⨁⨁HIGH | CRITICAL |
| **Incidence of mosquito-borne diseases (subgroup of urban locations)** |
| 3 | Randomized trials  | Not serious  | Not serious | Not serious  | Serious  | None  | 19/1001 (1.9%) | 34/833 (4.1%) | **OR 0.52**(0.27 to 0.99) | **19 fewer per 1,000**(from 29 fewer to 0 fewer) | ⨁⨁⨁◯MODERATE  | CRITICALa |
| **Incidence of mosquito-borne diseases (subgroup of rural and urban locations)** |
| 1 | Randomized trial | Not serious  | Not serious | Not serious  | Serious  | None  | 112/573 (19.5%) | 34/158 (21.5%) | **OR 0.89**(0.58 to 1.36) | **19 fewer per 1,000**(from 78 fewer to 56 more) | ⨁⨁⨁◯MODERATE  | CRITICALa  |
| **Incidence of mosquito-borne diseases (subgroup of modern houses)** |
| 3 | Randomized trials  | Not serious  | Not serious | Not serious  | Serious  | None  | 32/7312 (0.4%) | 41/6408 (0.6%) | **OR 0.67** (0.42 to 1.07) | **2 fewer per 1,000**(from 4 fewer to 0 fewer) | ⨁⨁⨁◯MODERATE  | CRITICALa  |
| **Incidence of mosquito-borne diseases (subgroup of traditional houses)** |
| 2 | Randomized trials  | Not serious  | Serious | Not serious  | Serious  | None  | 122/812 (15.0%) | 60/396 (15.2%) | **OR 0.59**(0.24 to 1.44) | 56 fewer per 1,000(from 110 fewer to 53 more) | ⨁⨁◯◯LOW | CRITICALb |

a Downgraded by 1 level for imprecision due to very wide confidence intervals.

b Downgraded by 1 level for inconsistency because the heterogeneity between studies was substantial (*I*2=50% to 90%) and downgraded by 1 level for imprecision because the confidence intervals were wide.