

Correction

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Monitoring the operational impact of insecticide usage for malaria control on *Anopheles funestus* from Mozambique

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Since publication of our article [1], we have been made aware of several errors in our article.

In the Background section, paragraph 4, the first sentence "Pyrethroids, although an excellent insecticide class for controlling malaria, are only available in formulations with an accredited residual life of up to four months" should read "Pyrethroids, although an excellent insecticide class for controlling malaria, are only available in formulations with an accredited residual life of between 3 to 6 months [2]."

In the Background section, paragraph 4, the last sentence "As pyrethroid resistance has been selected, several control programmes, including Angola, South Africa, Mozambique and Zambia have reverted back to using DDT." should read "As pyrethroid resistance has been selected, several control programmes, including South Africa and Mozambique have reverted back to using DDT. Where cross-resistance occurs as in Equatorial Guinea alternative insecticide groups are being used."

In the Background section, paragraph 5, the last sentence "The only confirmed report in African *Anopheles* of *kdr* outside West Africa comes from Kenya, where a different mutation occurs changing the same amino acid residue in the sodium channel [11]." should read "Until recently, the only confirmed report in African *Anopheles* of *kdr* outside West Africa came from Kenya, where a different

mutation occurs changing the same amino acid residue in the sodium channel [11]."

In the Results section, paragraph 2, the first sentence "Five of the twenty sites (Benfica, Boane..." should read "Six of the sixteen sites (Benfica, Boane..."

In the Results section, paragraph 3, "Significant increase in pyrethroid resistance was detected in Benfica, Boane, Catuane, Chokwe and Moamba ($p < 0.05$). Other sites, e.g. Mahotas, also showed increases in pyrethroid resistance, although the significance of the rise is unknown as the sample sizes ($n < 30$) were low. A significant decrease ($P < 0.001$) in pyrethroid resistance was recorded at Catuane, where baseline mortality was 72.7% which increased to 100% susceptibility in 2006." should read "Significant decreases in pyrethroid resistance were detected in Benfica, Boane, Catuane, Chokwe and Moamba ($p < 0.05$). Other sites, e.g. Mafambisse, showed increases in pyrethroid resistance, although the significance of the rise is unknown as the sample sizes ($n < 30$) were low."

In addition the legend of Table 1 should read.

Table 1. WHO susceptibility test results on 1–3 day old F1 *An. funestus* from 16 localities in Mozambique 2006 data with Chi square comparisons to six of the study sites from the original 1999 base line survey. (- No data available)

Table 1: WHO susceptibility test results on 1–3 day old F1 An. Funestus from 16 localities in Mozambique 2006 data with Chi square comparisons to 6 of the study sites from the original 1999 base line survey. (- No data available)

| Locality | Latest data 2002 to 2006 | | | | | | | | Base line data from 1999 | | | | | | | |
|---------------|----------------------------|-----|-----------------------|----|--------------------|-----|----------|-----|----------------------------|-------------------|-----------------------|-------------------|--------------------|-------------------|--|--|
| | Lambda-Cyhalothrin (0.05%) | | Delta-methrin (0.05%) | | Bendiocarb (0.01%) | | DDT (4%) | | Lambda-Cyhalothrin (0.05%) | | Delta-methrin (0.05%) | | Bendiocarb (0.01%) | | | |
| | n | M | n | M | n | M | n | M | n | M | n | M | n | M | | |
| Benfica | 240 | 94 | 138 | 90 | 220 | 99 | - | - | 19 | 100 _a | 16 | 43.8 _b | 16 | 100 _a | | |
| Boane | 426 | 92 | 25 | 96 | 372 | 98 | - | - | 741 | 46.2 _b | 302 | 98.2 _a | 449 | 97.3 _a | | |
| Catuane | 34 | 100 | - | - | - | - | - | - | 44 | 72.7 _b | - | - | - | - | | |
| Chibuto | 48 | 100 | - | - | 59 | 100 | - | - | - | - | - | - | - | - | | |
| Chokwe | 131 | 84 | - | - | 108 | 96 | - | - | 12 | 100 _a | - | - | 16 | 100 _a | | |
| Costa dol Sol | 70 | 81 | - | - | - | - | - | - | - | - | - | - | - | - | | |
| Ferrovuario | 21 | 76 | - | - | - | - | - | - | - | - | - | - | - | - | | |
| Infulene | 14 | 100 | - | - | 38 | 100 | - | - | - | - | - | - | - | - | | |
| Luis Cabral | 20 | 90 | - | - | - | - | - | - | - | - | - | - | - | - | | |
| Mafambisse | 139 | 95 | - | - | 149 | 95 | 68 | 100 | 23 | 100 _a | 11 | - | 22 | 100 _a | | |
| Magude Sede | 238 | 88 | - | - | 150 | 100 | 23 | 100 | - | - | - | - | - | - | | |
| Mahotas | 55 | 96 | 17 | 88 | 33 | 99 | - | - | - | - | - | - | - | - | | |
| Matola | 261 | 90 | - | - | 209 | 100 | - | - | - | - | - | - | - | - | | |
| Moamba | 29 | 83 | 25 | 96 | - | - | - | - | 87 | 75 _a | 109 | 83.5 _a | - | - | | |
| Motaze | 435 | 83 | - | - | 300 | 97 | 14 | 100 | - | - | - | - | - | - | | |
| Xinavane | 23 | 83 | - | - | 12 | 100 | - | - | - | - | - | - | - | - | | |

M = percentage mortality _a = p > 0.1 _b = p < 0.001

The corrected version of Table 1 is given here.

We apologize for any inconvenience or confusion that this may have caused.

References

1. Casimiro S, Hemingway J, Sharp B, Coleman M: **Monitoring the operational impact of insecticide usage for malaria control on Anopheles funestus from Mozambique.** *Malaria J* 2007, **6**:142.
2. **WHO Pesticides Evaluation Scheme** [<http://www.who.int/whopes/quality/en/>]

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