**Supplementary Table 1.** Mean percentage escape of radiation-sterilized male *Ae. aegypti* exposed to citronella, DEET, transfluthrin and deltamethrin in ER system.

|  |  |  |
| --- | --- | --- |
| Assay | Compound | Percentage escape response |
|  |  | SIT | Non-SIT |
|  |  | Treatment±SE (a) | Control | Treatment±SE(a) | Control |
| Noncontact | Citronella 2.5 %  | 23.33±6.38 (17.85)  | 6.67 | 45.00±10.67 (37.73) | 11.67 |
| Citronella 5 %  | 61.67±14.24 (56.61) | 11.67 | 70.00±13.47 (66.04)  | 11.67 |
| DEET 2.5% | 11.67±4.19 (5.36)  | 6.67 | 8.33±3.19 (3.51)  | 5 |
| DEET 5.0% | 13.33±4.17 (3.70)  | 10 | 11.67±5.69 (3.64)  | 8.33 |
| Transfluthrin  | 40.00±18.05(33.45) | 9.84 | 48.33±5(41.98) | 10.94 |
| Deltamethrin | 31.67±12.58 (25.46)  | 8.33 | 28.33±3.19 (21.82)  | 8.33 |
| Contact | Citronella 2.5 %  | 65±9.17 (61.11)  | 10 | 63.33±10 (59.67)  | 10 |
| Citronella 5 %  | 73.33±9.81 (70.37)  | 10 | 70.00±6.38 (66.67)  | 10 |
| DEET 2.5% | 26.67±8.16 (21.52)  | 6.56 | 29.03±7.93 (25.36)  | 4.92 |
| DEET 5.0% | 28.33±7.39 (20.37)  | 10 | 31.67±7.93 (26.79)  | 6.67 |
| Transfluthrin  | 45.00±9.57 (42.11)  | 5 | 28.33±9.57 (18.66)  | 11.67 |
| Deltamethrin | 60.00±13.6 (58.62)  | 3.33 | 53.33±13.6 (49.99)  | 6.67 |

 (a), Treatment escape percent adjusted using Abbott formular.

 Error bars represent the SE.