



Outdoor Evaluation of EverSāfe™: a Feeding Deterrent for Small Area Mosquito Control

John P Smith



EverSafe™

- Non-toxic adult mosquito control product
- EPA 25(b) - developed by Matrix24 Laboratories
- Mode of Action: Attractant/feeding deterrent



Ingredients

- Soybean oil
- Sucrose
- Yeast
- Filum
- Herbal Extracts
 - Wormwood, Anise, Fennel, Angelica Root, Mint, Hyssop, Lemon Balm, *Glycyrrhiza glabra*



EverSafe™



In vitro Lab Study

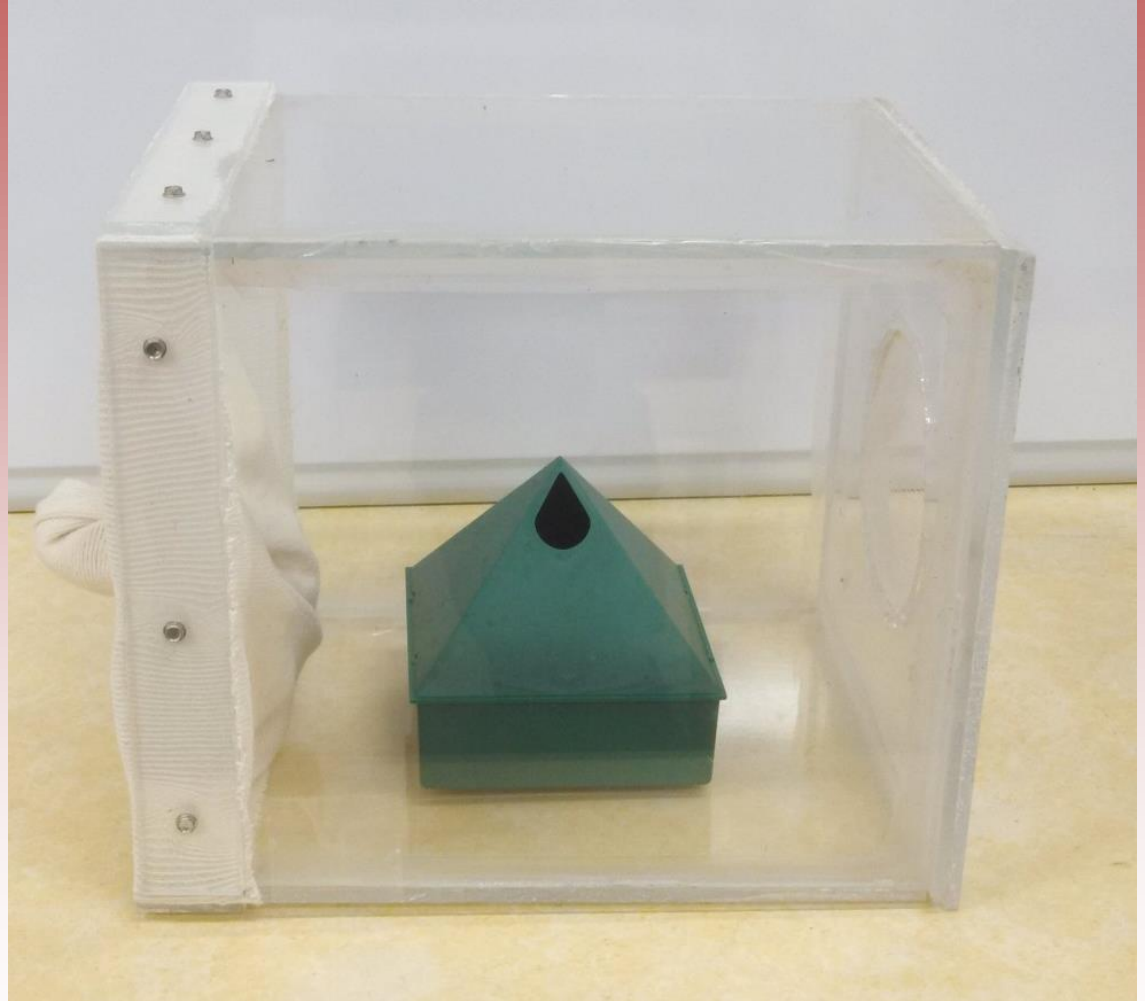
- Objective: POC
- EverSafe vs. Control
- 18 reps per treatment
- 3 repetitions
- Biting counts taken at 1hr. post-treatment



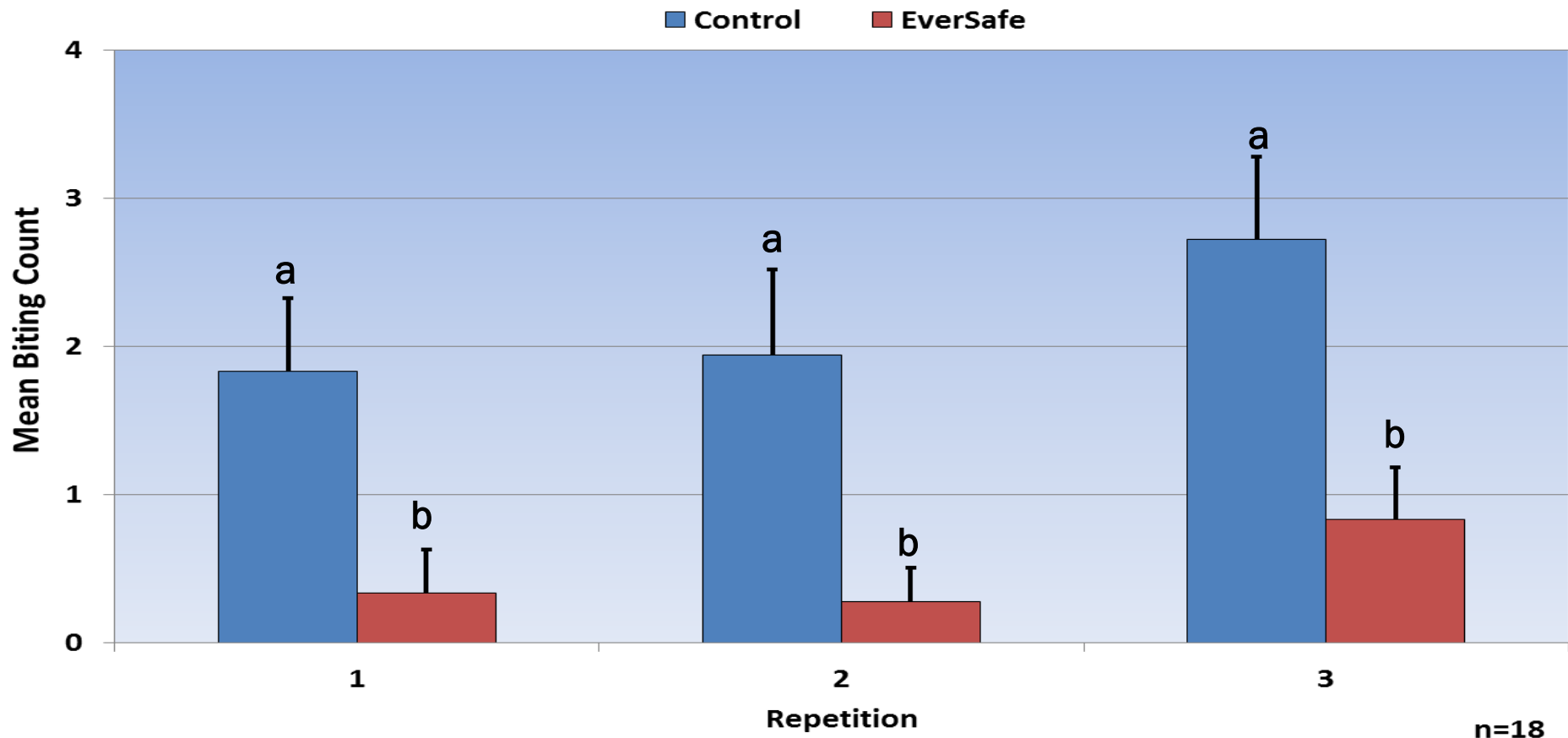
Treatment and Control



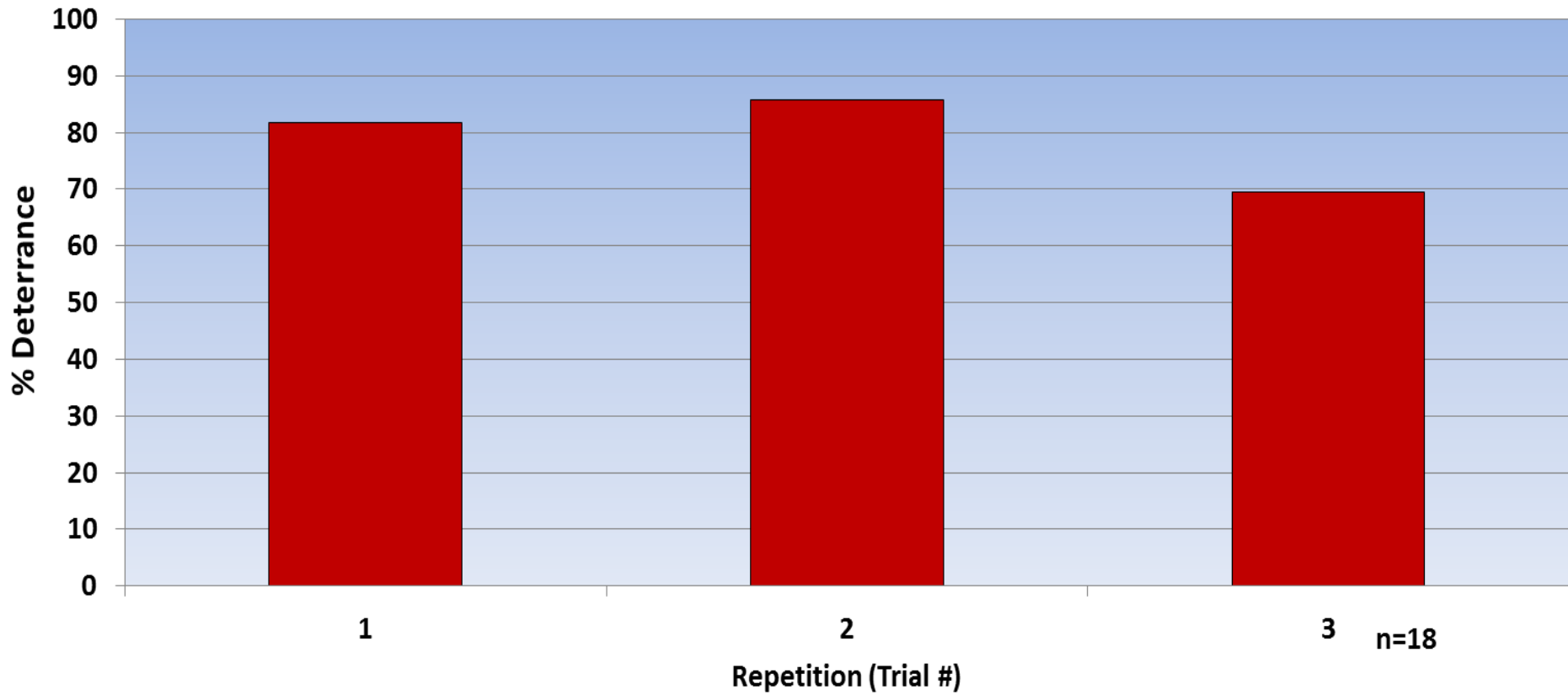
Aedes aegypti



Biting Count Data



% Deterrence



Screen House Trials

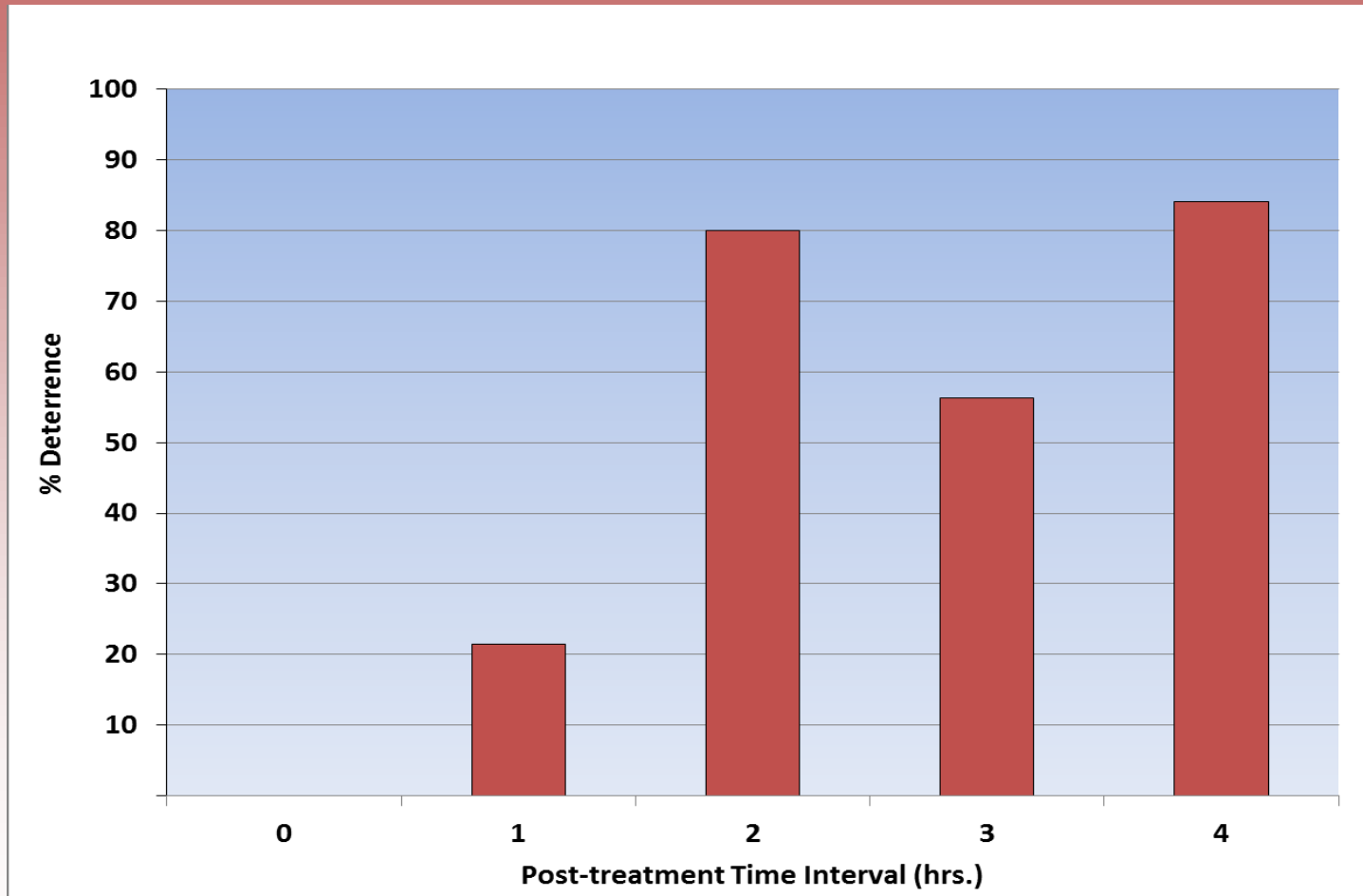


Biting Counts in Control and EverSafe at 5 Time Intervals

Time	Control	Treatment	Significance
0	26.7	28.3	N.S.
1	14.0	11.0	N.S.
2	10.0	2.0	**
3	10.7	4.7	N.S.
4	16.7	2.7	**



Biting Deterrence at 5 Post-treatment Time Intervals



Conclusions

- Significant reductions in *Aedes aegypti* biting counts of 80%+ were observed at 2 & 4 hrs. post-treatment with EverSafe
- More replicated field studies with standards for comparison are needed to substantiate EverSafe efficacy
- Other species need to be evaluated



Thank you for your attention!

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