



TICStudyRI

Tick-Borne Illness & Clothing Study

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Lone Star Tick
Amblyomma americanum



University of Rhode Island
Center for
Vector-Borne
Disease

Blacklegged (Deer) Tick
Ixodes scapularis

Our Study

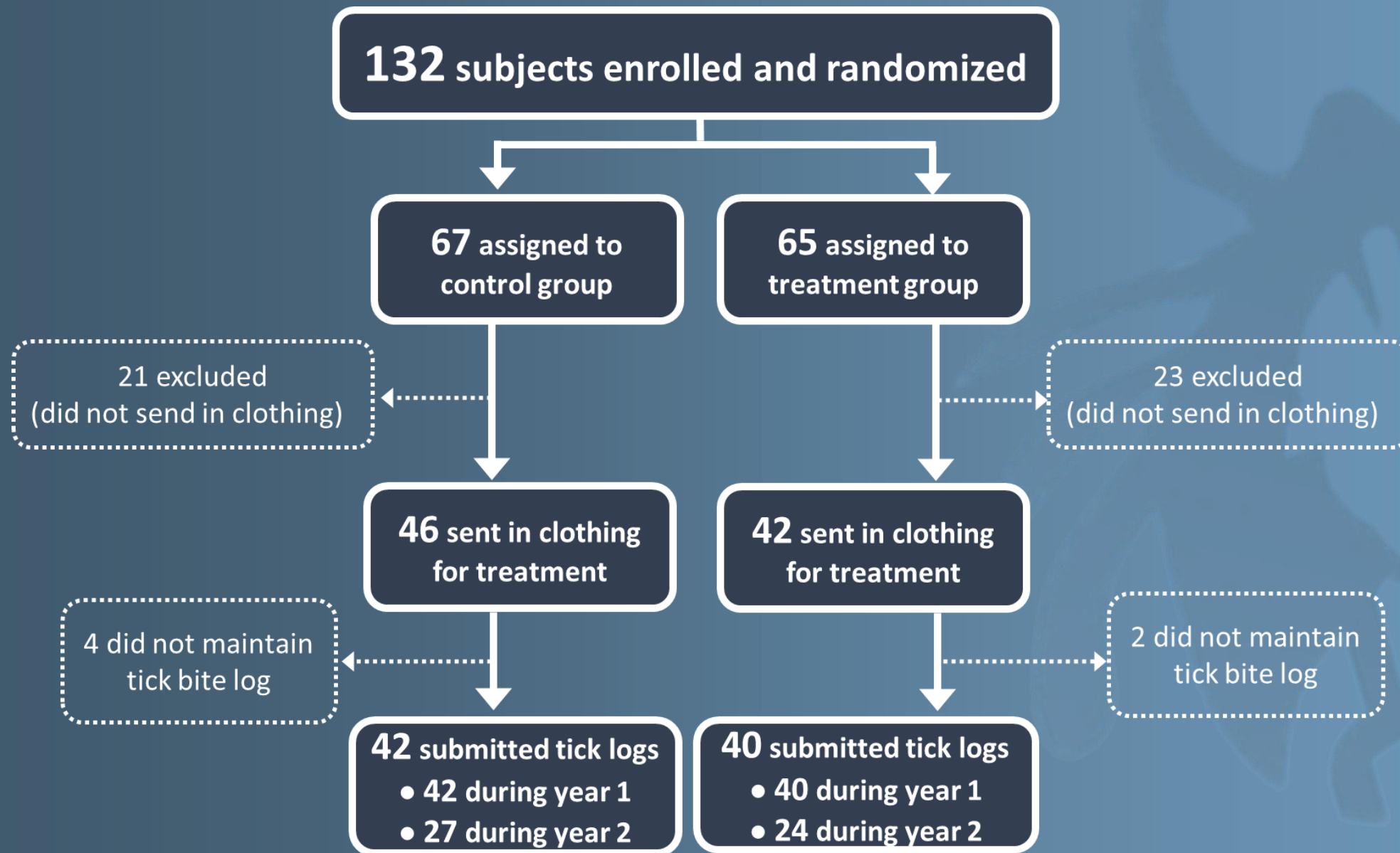
- **Study Design**
 - 2 years
 - 82 workers
 - 2 groups
 - Weekly reporting
- **Participants**
 - Qualifications
 - Agencies and businesses



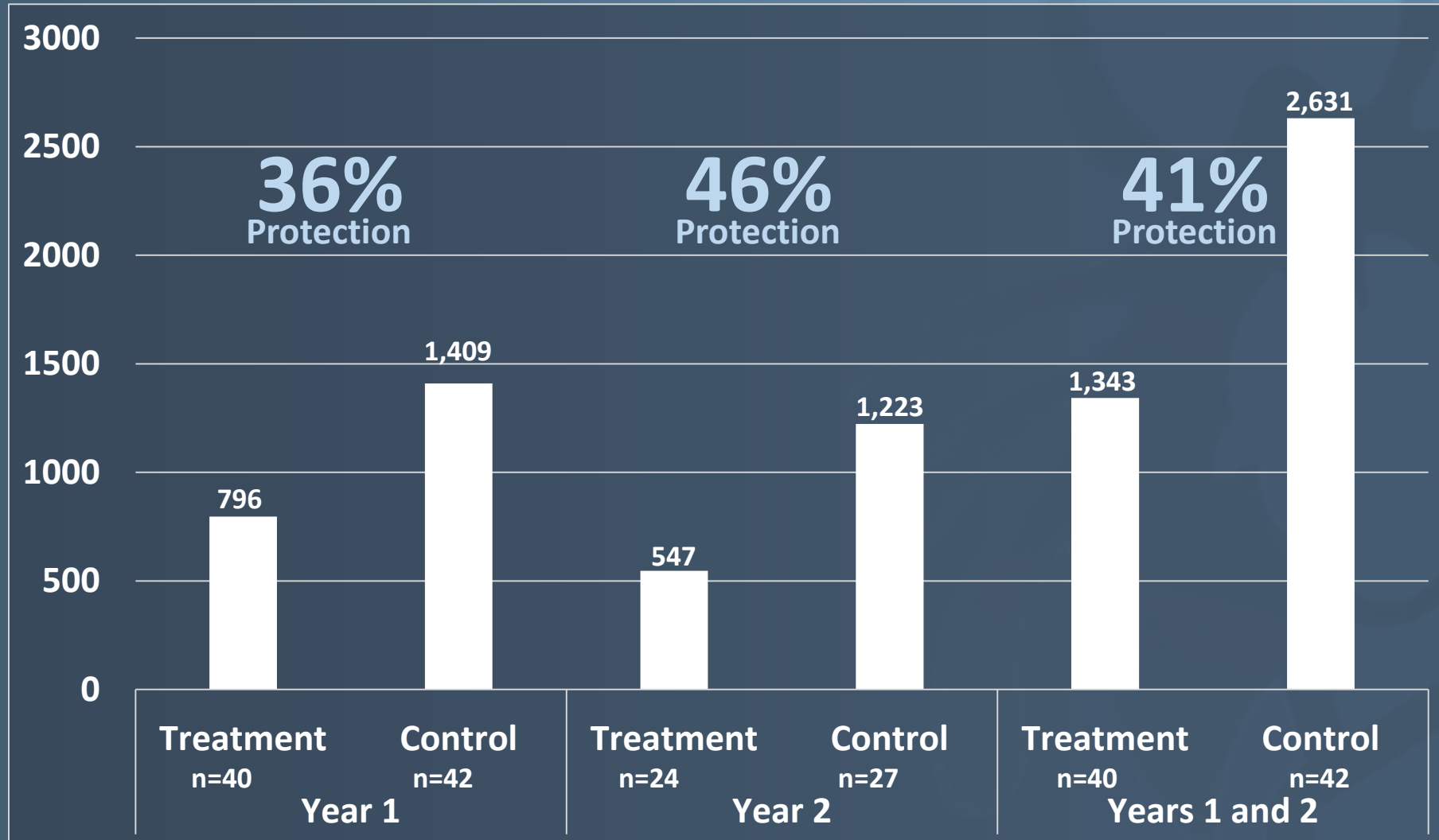
Our Study

- **Methods**
 - Block randomized study IDs
 - Enrollment
 - Clothing mailed
 - Weekly SurveyMonkey surveys
 - Tick testing
 - Follow-up surveys and blood samples
 - Clothing bioassays

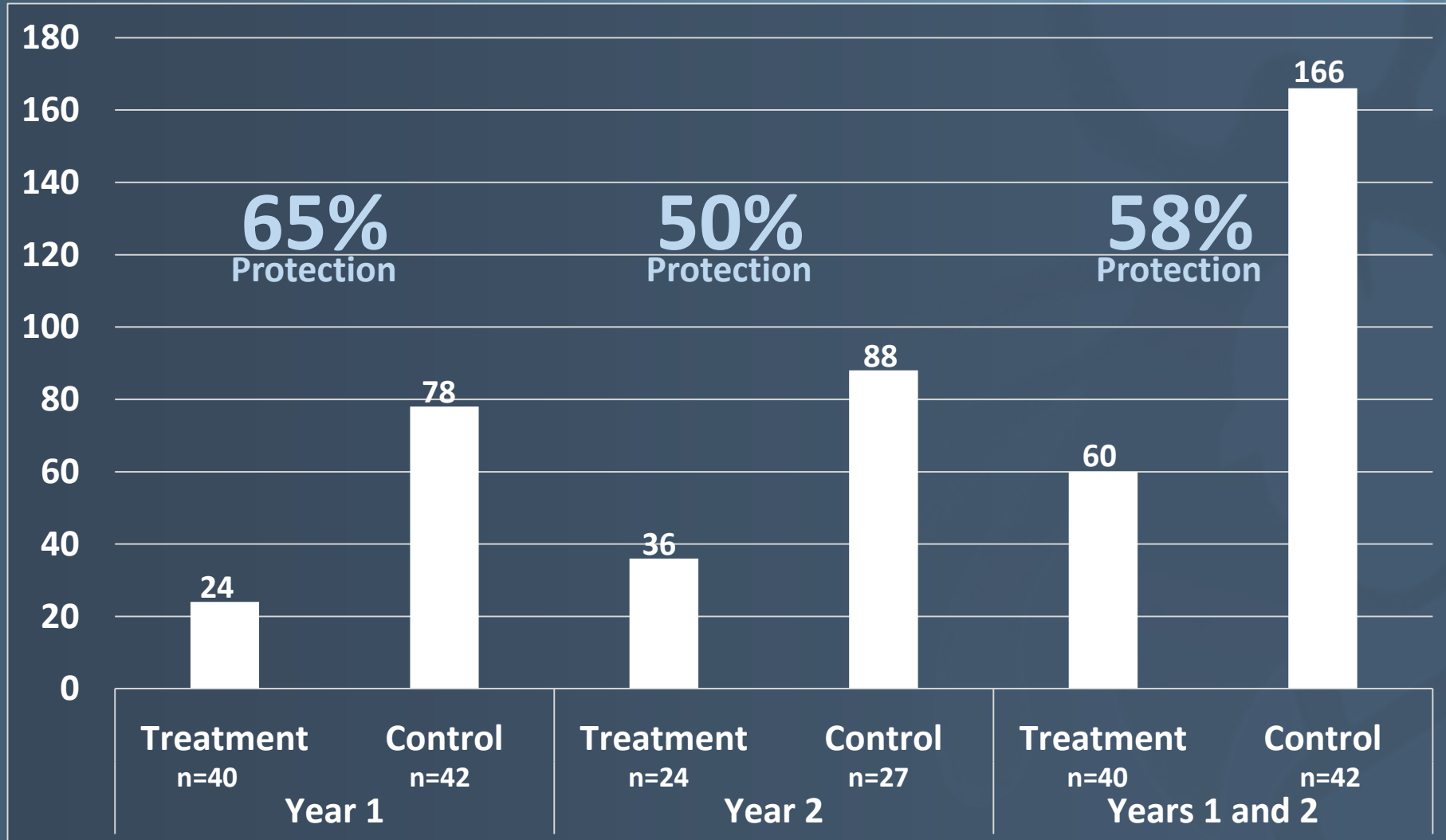
Study participant enrollment randomization and follow-up



Incidence of work-related tick encounters



Incidence of work-related tick bites



Conclusions

- Permethrin is approved by the US EPA
- Labelled to repel, knockdown and kill many arthropod vectors
- Treatment of clothing decreases your risk of tick encounters

“Do It Yourself”

- 6 washes
- ~1.5 months
- Incrementally cheaper

Factory treatment

- 70 washes
- ~1.5 years
- Can be costly

I would like to thank:

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- Dr. Steven Meshnick (Principal Investigator)
- Feng-Chang Lin (Statistician)
- Cedar Mitchell (Graduate Student)

- Jason Griffin, Ginger Swaim and Insect Shield (Organizing Clothing Treatments)

- Study Participants

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