Integrated Pest Management & Bed Bug

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You are a cockroach.
What all pests need

- Food
- Water
- Shelter
Find pests that get in before an infestation grows
Take action

Use more than one control method
Methods must be economical and pose the least possible risk to people, property, and the environment

Integrated Pest Management (IPM)

1. Inspect and monitor
2. Identify
3. Determine the scale of response
4. Respond
   - Non-chemical control
   - Changing people's behavior
   - Chemical control
   - Biological control
5. Evaluate effectiveness
IPM is not...

• Using only bait
• Applying more than one kind of pesticide
• A certain set of pesticides
• Using spices and herbs
• A service that can be contracted out

Questions?
Bed bugs

Fed

Unfed

Where bed bugs live

Beds, sofas, bedside tables, recliners, picture frames...

= Hot Spot
Areas at-risk for introduction and infestation

- Introduction is likely where people
  - frequently travel
  - set down personal belongings
  - sit or lay down for long periods of time

- Infestation is likely where bed bugs can
  - Crawl (upholstered furniture or bedding)
  - Feed on a person for 5 minutes without being detected
  - Hide in cracks or folds

Areas prone to introduction vs. infestation

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<th>Area</th>
<th>Introduction</th>
<th>Infestation</th>
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Advice for staff, health aides, and contractors

- In units:
  - Avoid sitting or placing items on potentially infested surfaces
  - Wear a protective layer when moving infested items

- In the main office/community areas:
  - Replace fabric-covered furniture that has many crevices with plastic or metal items
  - Have residents set their belongings in plastic totes during meetings

Prevent introduction and spread: residents

- Keep coats, backpacks, purses, and bags off beds, recliners, and sofas at home and while out
- Inspect used furniture carefully before bringing it home—avoid it if possible
- Look for signs when sleeping away from home
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Treatment options

- Pesticides
  - Spray
  - Dust
  - Fumigation
- Heat
  - Dryer
  - Steam
  - Container
  - Whole unit
- Freezing
  - Liquid CO₂
  - Chest freezer
- Vacuuming
- Isolation
  - Encasements
  - Clear bags
  - Closed plastic containers
  - Interception devices
Questions?

**In-house options (minimum training)**
- Encasement
- Monitoring
- Quick (15 min) visual inspection
- Steam
- Clothes Dryer
- Vacuum
- Heat chamber (FL model)
- Diatomaceous Earth (APPLICATOR'S LICENSE)
- Resident training/support

**Leave it to the experts**
- Canine inspection
- Whole-unit heat treatment
- Pesticide application
- Thorough inspection
- Active Monitoring

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**Resources by state**

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Pest Prevention by Design

Authoritative guidelines for designing pests out of structures

National Pesticide Information Center

www.npic.orst.edu

Find Your Local Resources

Search by ZIP code:

Enter your ZIP code for:

OR—

Choose your state:

Click the state you live in to find your local resources:

National Pesticide Information Center

1.800.858.7378 npic@ace.orst.edu
School IPM

- State programs
- eXtension.org

STOP Pests in Housing

www.StopPests.org

www.stoppests.org/request
National Center for Healthy Housing

[Website Link]

StopPests in Housing Program

[Website Link]
Questions?

Slides will be available at

www.stoppests.org/about-us/conference-presentations/