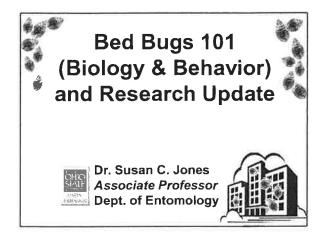
Bethany Anderson Central Ohio Area Agency on Aging

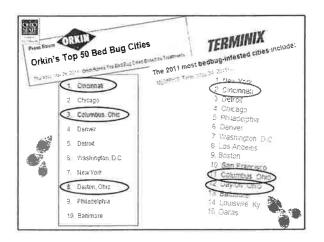
614-645-7585 banderson@coaaa.org

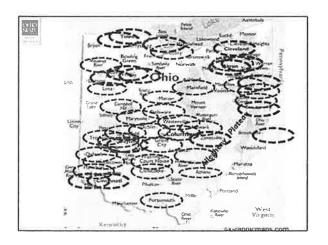


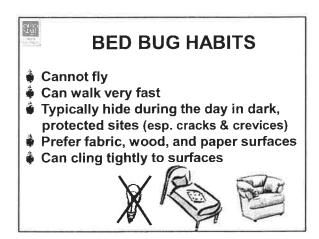
Bed bugs have plagued humans for thousands of years!

Bed bugs are an emerging pest throughout the U.S.!







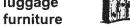




Bed bugs can be moved from one place to another by hiding in:



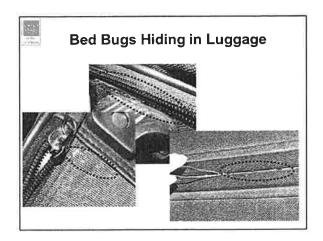


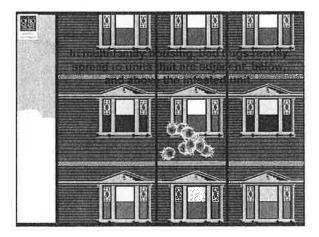






clothing



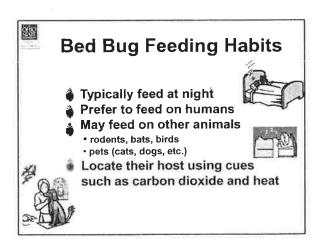


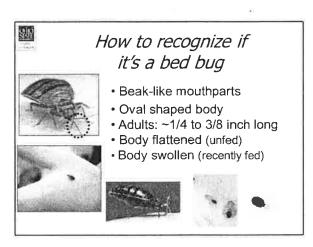
Some Reasons For the Resurgence of Bed Bugs

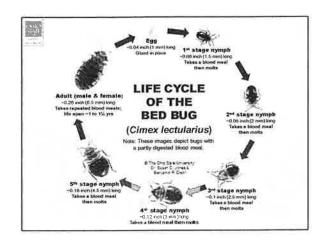
- International travel and commerce
- Housing with high tenant turnover
- Pesticide use has changed
 - Pesticide bans
 - -Baits to control ants & cockroaches
- Insecticide resistance

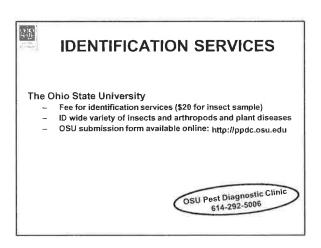
Bed Bugs (Cimex lectularius) Insects (true bugs) Temporary external parasites Feed only on blood Often closely associated with hosts' sleeping or resting sites (hide in many places) Not caused by bad housekeeping!!

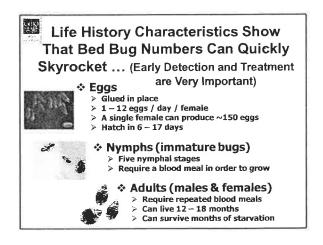
BED BUGS CAN HAPPEN TO ANYONE!



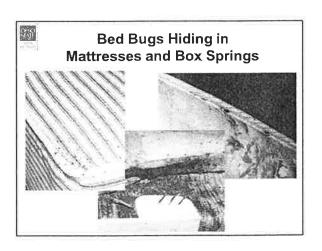


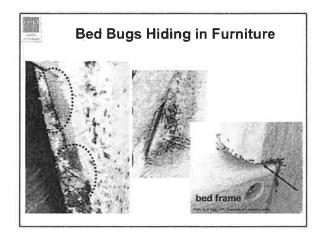


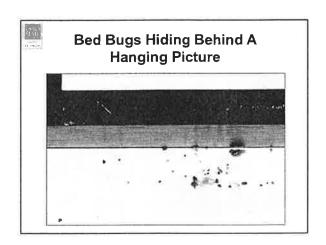


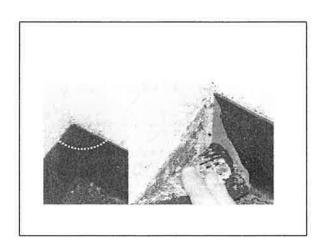


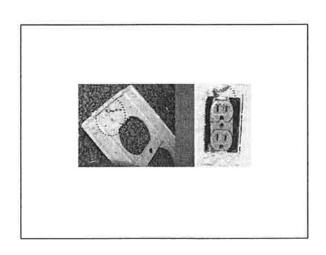


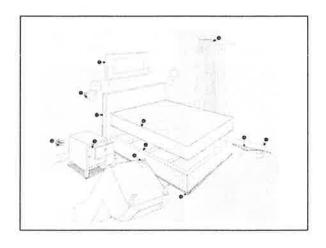


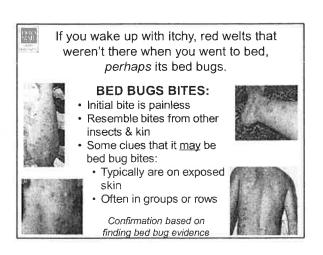














Injury From Bed Bugs

- Allergic reaction in ~70% of humans
 - Welts
 - · Severe itching
- Anemia
- Asthma
- Scratching of bites increases inflammation, can lead to secondary bacterial infections
- No conclusive evidence of disease transmission (reviewed by Goddard & deShazo. 2009, *JAMA* 301(13): 1358-1366)

Detection and Treatment Options

- Thermal Remediation
- Bed Bug Dogs
- Integrated Pest Management

THERMAL REMEDIATION...

(fancy way of saying heat treatment!)

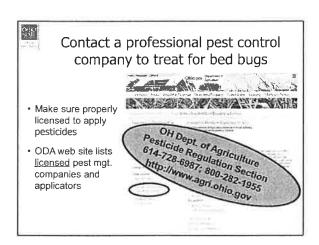
- · Heat home to 120 150 degrees
- · Time varies, usually at least 8 hours
- · Typically more expensive

CANINE DETECTION

- · Often used as a safeguard in busy public spaces
- *Assists early detection to avoid costly remediation later
- · Check references do your research!

INTEGRATED PEST MANAGEMENT (IPM) FOR BED BUGS

- · Correctly identify the pest
- · Use Sanitation measures
- · Use non-chemical measures
- · Apply insecticides to targeted sites





Contact a professional pest control company to treat for bed bugs

Once you've made sure they are properly licensed to apply pesticides:

- · It's advisable to obtain at least 3 estimates
- · Check for satisfied customer references that relate to bed bug control
- Recognize that bed bug control typically takes several insecticide treatments

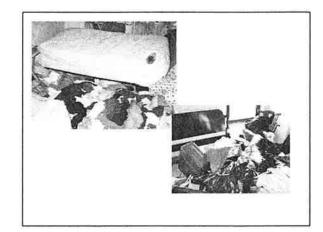
Preparing a home/apartment for treatment

Remove clutter!

- · Clutter offers many hiding places
- for bed bugs

 Clutter makes bed bugs difficult to detect
- · Clutter makes bed bugs difficult to treat



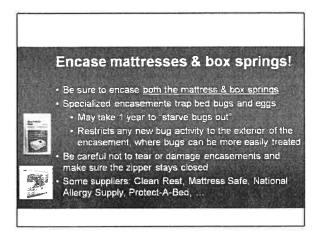


Launder bedding, clothing, etc.!

- Wash in hot water (>120°F)
- → Drier on hot setting (≥15 mins.)
 - · Dry clean items
- · Bag items after they are inspected/ laundered (be sure to seal the bags)

Vacuum thoroughly! Use a high efficiency particulate air (HEPA) filtered vacuum

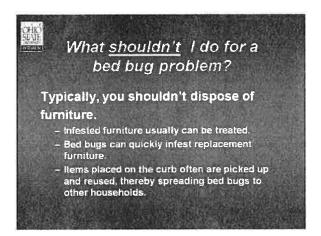
- vacuum up comstarch or talc using the
 - attachment as the final step diapose of vacuum bag afterwards
- Heavy-duty vacuum cleaner useful for cracks & crevices
- · Vacuum prior to chemical treatment Don't share your vacuum with other people!



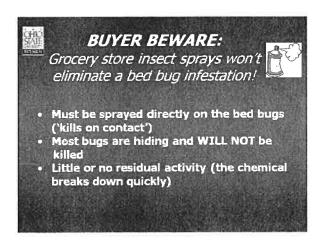
What if can't pay for treatment?

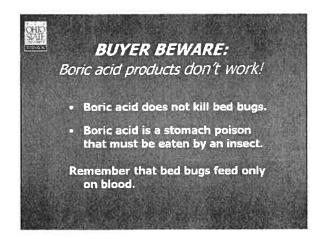
- Follow steps for prep (clean, vacuum)
- Contact exterminators to see if payment plan is option
- Try to limit exposure to invested areas to limit spread

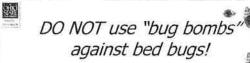












- "Bug Bombs" ("foggers") don't work
- Few bugs will be killed!
- "Bug Bombs" may cause bed bugs to scatter!!!

"Bug Bombs" will worsen the bed bug problem!!

COAAA has stayed on the forefront of the bed bug problem in central Ohio.

- · Three staff on COBBTF
- · Clinical practices group meetings
- Written policy
- · Safety committee tracking locations
- Trainings (new staff)
- · Chairs and dryer

Things to consider when entering an infested area:

- What are you wearing?
 - Light colored clothing
 - Booties
 - Tyvek suits



Things to consider when entering an infested area:

- Are you going to need to sit?
 - 'bed bug' chairs



Things to consider when entering an infested area:

- · How is the client going to feel?
 - Stigma attached
 - Provide education
 - Company policy
 - Ensure therapeutic relationship



Things to consider when entering an infested area:

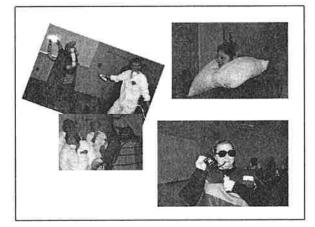
- Where do you go after visiting an infested area?
 - Carry extra clothes
 - Carry trash bags

WHAT NOT TO DO

- Don't spray yourself with mosquito repellent (DEET). It is useless against bed bugs!
- Don't use rubbing alcohol indiscriminately!
 Alcohol is VERY flammable, and it should NEVER be sprayed indoors.
- DON'T use Diatomaceous Earth indiscriminately
- Don't EVER spray yourself, your clothing, or your shoes with ANY insecticide! Many insecticides can be absorbed through your skin.

After treatment

- · Mattress covers
- · Monitor environment
- Provide support for PTSD



Support for Professionals

- · Address ongoing feelings
- Use PPE as needed to prevent exposure
- · Discuss need for dryer

Bed Bugs in the Workplace

Survey the Premises

- Train your staff to know what bed bugs look like and how to identify them.
- Carefully inspect the area where the suspected bed bug was found as soon as you can.



Bed Bugs in the Workplace

- Because bed bugs like to hide, it is important to know where to look for them;
 - check the folds and seams in upholstery, lockers, baseboards, cubicle walls, furniture joints and corners, electrical outlets, switches,
 - ' piles of papers and other nooks and crannies.

Bed Bugs in the Workplace

Respond To Your Findings: If you find more bed bugs...

- Don't kill them or crush them! It is impossible to make a positive identification from smashed bug parts!
- Put the live bug(s) in a pill bottle or a tightly sealed plastic bag so that your pest management professional (PMP) can make a positive identification.
- Try to isolate the area where the bug(s) were found.

Bed Bugs in the Workplace

Act Quickly:

- · Contact your PMP immediately.
- · Verify bug, request treatment plan and follow-up.
- Treatment should not occur while people are in the area.

Bed Bugs in the Workplace

Debunk the Misconceptions

- When one or two bed bugs, are found, most people assume that there are many more in the building, which isn't always the case.
- Bed bugs are a pest, but they shouldn't be a cause for panic. There is no need to suspend your operations, especially if the bed bugs were only found in a few isolated places.



Bed Bugs in the Workplace

- Companies with high contact with the public (schools, hospitals) often use canine detection monthly to help identify early infestations.
- Schools and companies may encourage putting backpacks and purses in a rubbermaid container.
- Verifi units can be placed in corners of high traffic areas to help detect infestations.
 - http://www.fmcprosolutions.com/BedBugs/
 - Ohio Exterminating Company sells them, other Columbus retailers

