

Bed Bug Basics

Public Health Saint John September 2016 Pam Thompson-Bourque



History of the Bed Bug

Cimex Lecutularius



- Believed to have originated in the middle East
- Appeared in Greek plays as early as 386 BC
- Roman philosopher "Pliny" 77 AD wrote about their healing properties
- Massive resurgence in past ~10 yrs
- http://www.bedbugs.org/bed-bug-



What are they?

- Small oval wingless insects that multiply quickly and travel easily (cannot fly or jump)
- Rely on blood to survive, tend to feed at night
- Non-disease carrying















Life Cycle of the Bed Bug

Cimex lectulaius



Egg (1 mm long)



First Stage Larva

(1.5 mm long) Takes blood meal then molts.



Second Stage Larva

(2 mm long) Takes a blood meal then molts.



Third Stage Larva

(2.5 mm long) Takes a blood meal then molts.



Fourth Stage Larva

(3 mm long) Takes a blood meal then molts.



Fifth Stage Larva

(4.5 mm long) Takes a blood meal then molts.



Adult

(5.5 mm long) Takes repeated blood meals over several weeks.



Adult Female

(6.5 mm long) Females lay up to 5 eggs per day, continuously.



How small are they?



- Adults 6-10mm long
- Young bedbugs~1.5mm
- Eggs ~1mm
- Flattened bodies making it easy to hide





- Eggs (1mm).
- 1st stage nymph (1.5 mm).
- 2nd stage nymph (2 mm).
- 3rd stage nymph (2.5 mm).
- 4th stage nymph (3 mm).
- 5th stage nymph (4.5 mm).
- Unfed adult female.
- Unfed adult male



What to look for



- Small red stains or tiny black spots (feces) on linens or other objects
- Sweet musty odor
- They shed translucent light brown cast skins (exoskeleton)
- Might be found around:
 - cracks, crevices, nail or screw holes
 - the underside of furniture, mattresses, headboards
 - seams of chairs, couches, folds of curtains
 - junction of where wall and ceiling meet
 - drawer joints, electrical receptacles
- Might be obvious bites-however this is not a reliable indicator





Hiding Spots





















How to identify bites?

- Can be seen where skin is exposed at night
- Can take up to 14 days to appear
- Some people have little reaction
- Allergy to the bite is possible
- Small bumps or large itchy welts, most commonly red and itchy flat sores
- Most often on the face, neck, arms, legs and chest
- Often will appear in groups of three













Are there health risks?

- Not known to spread infectious disease
- Reactions to bites vary, usually red itchy welts
- Most bites will go away without treatment
- Most significant impacts are stress, anxiety, sleeplessness, depression and fatigue





Warning/Unregistered Pest Control Products

"Health Canada Warns Canadians Not to Use Unregistered Bedbug Control Products"

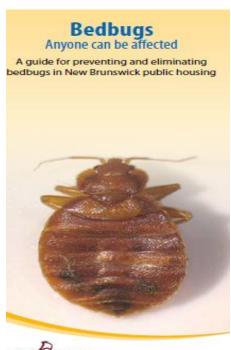


Areas to check in a bedroom



Information for Families

- Bedbugs: Anyone can be affected (gnb)
- Elimination of bed bugs needs to be a multifaceted approach and insecticide alone will not eradicate the problem
- Pest management information service







More Information

- GNB:http://www2.gnb.ca/content/gnb/en/departments/ocmoh/healthy_environments/content/insect_and_mite.html
- Health Canada-http://www.healthycanadians.gc.ca/productsafety-securite-produits/pest-control-products-produitsantiparasitaires/pesticides/tips-conseils/bedbugs-punaises-litseng.php
- http://journals.lww.com/homehealthcarenurseonline/Fulltext/20 09/11000/COMMUNITY_HEALTH_NURSES_BATTLE_AN_A NCIENT_NUISANCE.4.aspx
- CDC: http://www.cdc.gov/parasites/bedbugs/index.html



The End Thank-you!

