Toronto Community Housing Integrated Pest Management Program



Introductions

 Richard Grotsch, Manager, Integrated Pest Management, Community Health Unit, Toronto Community Housing



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BED BUGS

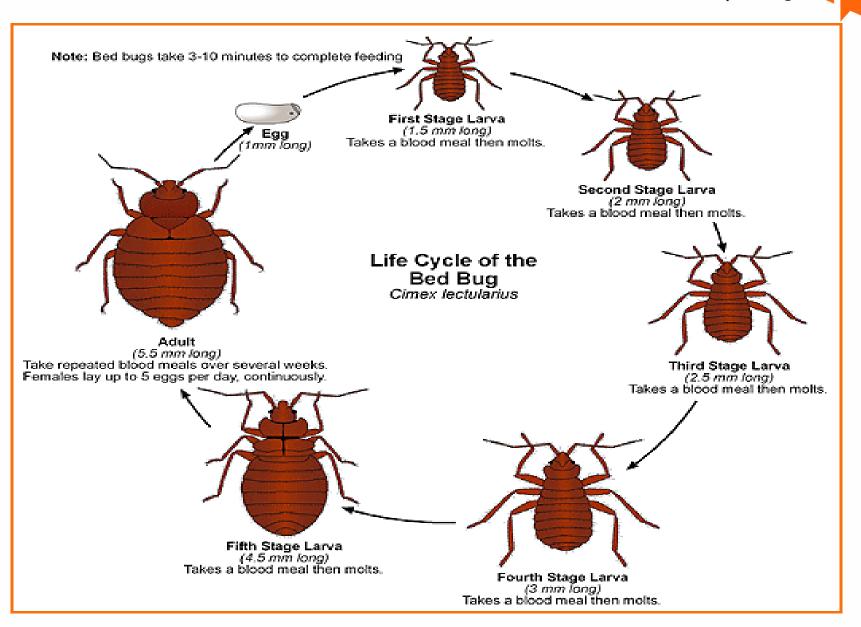




What is a Bed Bug

- Bed bugs are small wingless insects that feed solely upon the blood of warmblooded animals. Bed bugs and their relatives have evolved as nest parasites. Certain kinds inhabit bird nests and bat roosts and await the return of their hosts; others have adapted well to living in the 'nests' (homes) of people.
- Their colour ranges from nearly white (just after molting) or a light tan to a deep brown or burnt orange. The host's blood may appear as a dark red or black mass within the bug's body.
- When disturbed, bed bugs actively seek shelter in dark cracks and crevices, Cast skins of bed bugs are sometimes discovered.
- There are three main stages of life. First stage is the egg. Eggs are whitish, pearshaped and about the size of a pinhead. Clusters of 10-50 eggs can be found in cracks and crevices. . (See next Slide)
- Second stage is broken down into five sub-stages, known as the juvenile or "Nymph" stage. This stage the bugs are generally 1mm to 4.5 mm in size. They start out very pale in colour and get darker as they fed.
- The final is adult and can be as long as 8mm when fully fed.

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MYTHS & FACTS

Myth: Bed bugs are too small to see.

Fact: Although they may be difficult to find because they hide well, bed bugs are big enough to be seen with the naked eye. Bed bugs look similar to an apple seed in size and appearance.

Myth: Walking into a room that has bed bugs means you will get bed bugs.

Fact: Bed bugs do not jump. They spend 90% of their time hiding and are usually active at night. Bed bugs avoid light and do not like to be disturbed.

Myth: Bed bugs are only found in shelters; only poor people or dirty people get them.

Fact: Bed bugs can be found in hotels, motels, dormitories, apartments, condos, private homes, and even in some public places, such as businesses and offices. Anyone can get bed bugs.

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MYTHS & FACTS

Myth: Chemicals/pesticides will kill bed bugs.

Fact: Pesticide application alone will not kill bed bugs at all stages. Successful treatment depends on an Integrated Pest Management approach to bed bug control which involves, vacuuming, and steaming, laundering belongings, sealing areas and gaps where bed bugs can hide. Do not use over the counter pest control products or home remedies such as kerosene

Myth: Bed bugs cause disease.

Fact: Bed bugs are not considered a health hazard and do not transmit disease. Bed bug bites, however, can cause allergic reaction in some people similar to a mosquito bite. Frequent scratching of the bite marks or picking the scabs can cause infections. And people with severe and/or repeated infestations can feel anxious, worried or ashamed



How Big Is The Issue?

- In 2011, close to 15 million Americans were effected by Bed Bug infestation National Geographic
- A survey of 76 American Pest Control Providers advise that Bed Bug infestations are the most difficult to control. BedBugger.com
- A unprepared unit has less then a 15% chance of success in controlling infestation.
- Bed Bug infestations continue to grow at alarming rates around the world. Many believe infestation rates are growing at as much as 20% annually D.Miller
- A Major GTA Pest control provider states that requests for Bed Bug treatment has grown over 30% since 2009, and continues to grow yearly.
- A Major GTA Pest Control Providers state that Bed Bug service make up almost 65% over their overall work.
- Bed Bug infestations will continue t grow and become increasingly more difficult to control -M.Potter





Some Food For Thought





PEST MANAGEMENT STRATEGY



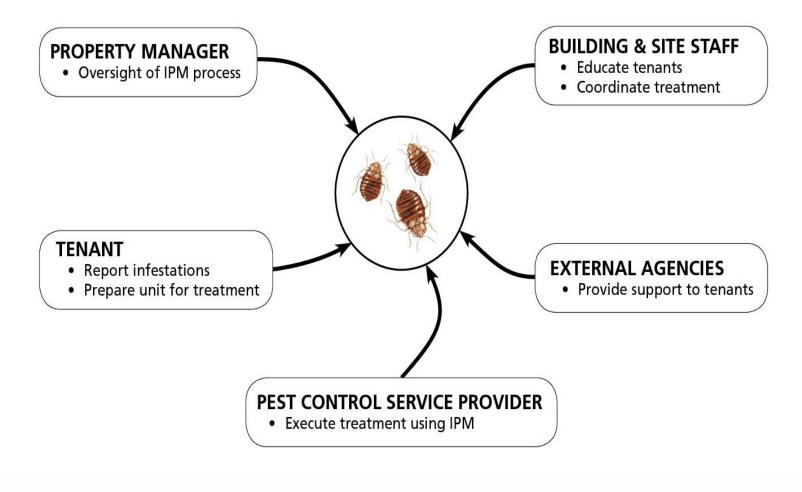


INTEGRATED PEST MANAGEMENT

The most effective program for eliminating bed bugs is one that utilizes Integrated Pest Management (IPM). IPM is the use of all possible methods in a logical combination that minimizes risk of pesticide exposure, safeguards the environment, and maximizes effectiveness. IPM is designed to empower owners and managers to make the best and most cost effective decisions about managing and eliminating pest, and to establish accountabilities and responsibilities for owners, staff and residents



INTEGRATED PEST MANAGEMENT STAKEHOLDERS





Key Components

- Development of Policies and Procedures
- Data collection and analysis
- Education and co-operation of all stakeholders
- Prevention
- Preparation for treatment
- Follow Best Practices
- On-going process

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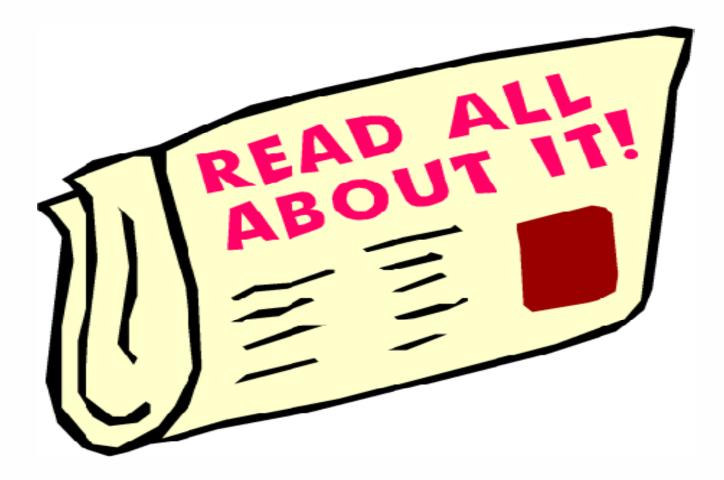


Early Detection Is Key





Education Is Worth The Time





Educating Staff

- Identification
- Timely/Effective Complaint Response
- Raise Awareness
- Compassionate screening of new Clients
- Documentation and Follow Up



How To Protect Yourself

- Assume bed, furniture, sofa's, curtains, rugs etc. are infested
- Avoid leaning against or sitting on potentially infested furniture and minimize direct contact with any potentially infested materials
- Places any bags in an open area away from walls and furniture.
- Only take essential items into the site or have dedicated equipment
- Store dedicated equipment in tight storage containers within your vehicle
- Take off clothes as soon as possible, remove clothing over non-carpeted flooring wherever possible.
- Launder clothing in hot water as soon as possible.
- Whites coveralls or tyvac suites with gloves may be needed in heavy infestations or while helping a client prepare the unit.



Developing a Battle Plan





What Doesn't Work

- Abandoning the Room
- Bug Bombs and Aerosols
- Disposal of Beds and Furniture
- Laundry Alone



Inspections

- Mattress
- Bed Frame
- Baseboard
- Radiant Heating
- Windows and curtains
- Ventilation
- Specialized Equipment





Bed Frames and Mattress



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Ventilation





Radiant Heating





Baseboards



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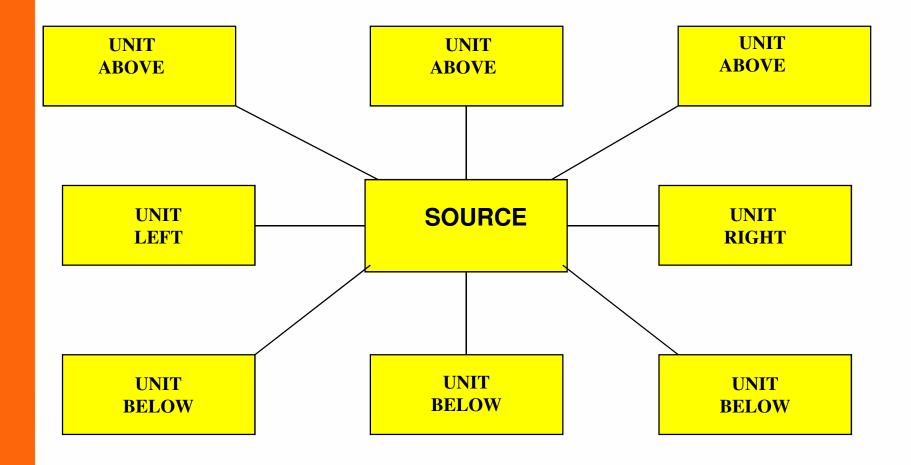


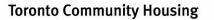
Curtain Rods





BLOCK INSPECTIONS / TREATMENTS







Furniture or other items that must be thrown out should be securely wrapped in plastic or a tarp before disposal to ensure of your home. Always label your disposed items clearly to the ywill not be reused. Image: Comparison of your home. Image: Comparison

REMEMBER!

If you have a fish tank, turn off the air pump and cover the top so pesticides do not get into the water.

All residents and pets should stay out of the home during the pesticide treatment and for a minimum of 3-4 hours afterward. Do not vacuum baseboards or in corners for three weeks after your home has been treated.

Leave clean laundry sealed in bags until after the second treatment by a pest control company.

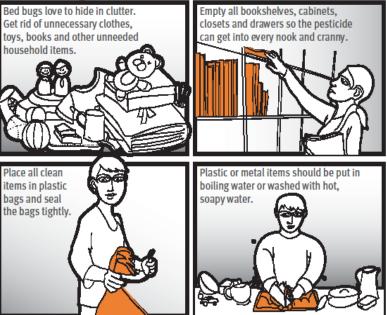
For more information Terents Community Housing speak to your superintendent call 416 981 5500 or visit www.torontohousing.ca/bedbugs



Bed Bugs Preparing Your Home for Treatment

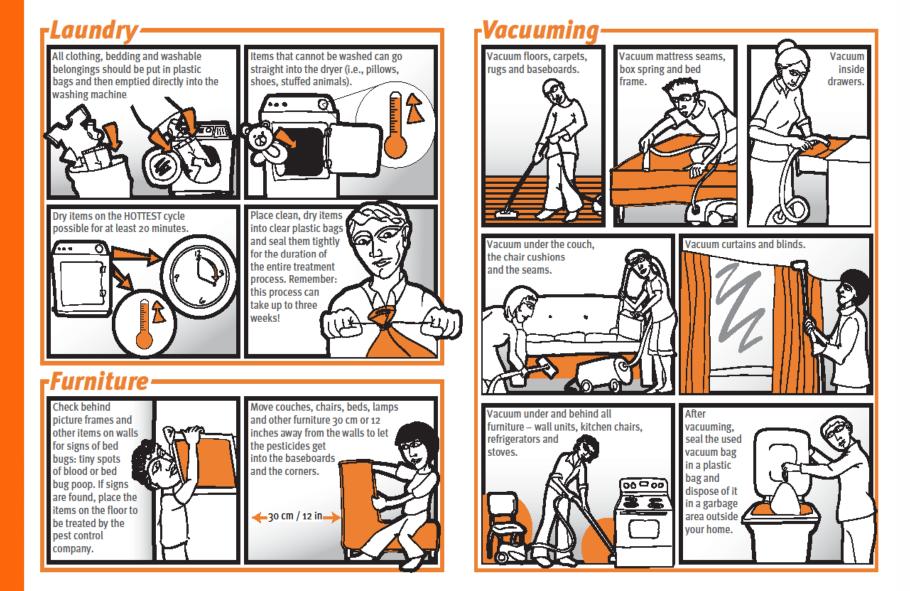
Your home is going to be treated for bed bugs. A home must be prepared before each and every treatment for pest control to be effective. A second pest control treatment should take place within 2 weeks of the first. Please use the following steps to prepare your home for treatment.

_[Cleaning



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BARRIERS TO TREATMENT

- Lack of Preparation of Unit
- Clutter
- Hoarding
- Physical Challenges
- Mental Health Issues
- Access to Unit
- Lack of Compliance by Resident
- Misinformed Resident



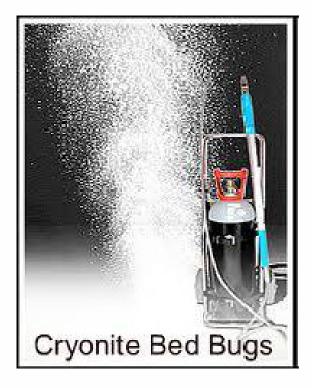
Pest Management Provider

- Licensed Class 2 Exterminator
- Insured
- Member of a Professional Organisation (SPMAO)
- Extensive experience in Bed Bug management
- Provide pre inspections and Scope
- Practice Principles of IPM



TREATMENTS A peek at how it works









Treatment Essentials

- Dusting agents in wall voids, cracks, and crevices ONLY
- Block room to be inspected and dusted
- Vacuum/steaming of all harbourage
- Residual Treatment on baseboards
- Follow up treatment 14 days
- Follow up inspections



Consider Bug Resistant Furniture

- Metal Bed Frames
- NO Head Board
- Metal Or Plastic Chairs
- Couches With Cushions That Fit A Dryer
- Vinyl Mattresses
- Mattress Encasements (certified)





PREVENTION AND MONITORING

WHAT TOOLS ARE AVAILABLE





Center Well

> Outer Piffall





Additional Materials:

ONPHA's Bed Bug Resources

www.onpha.on.ca/BedBugs

Toronto Public Health

www.toronto.ca/health/bedbugs

Government of Ontario

www.bedbugsinfo.ca

Structural Pest Management Association

www.spmao.ca



Questions? Contact Richard Grotsch Richard.Grotsch@torontohousing.ca