**TITLE:** **BEDBUG MANAGEMENT PROTOCOLS FOR HEALTHCARE**

**NUMBER:** 2ND EDITION  
**DATES:** JUNE 4, 2013 / OCTOBER 23 2017

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**Note:** Terms in bold are defined in the Definitions section.

If you have any questions or comments regarding the information in this Best Practices Guideline please contact Infection Prevention & Control at infectionpreventioncontrol@albertahealthservices.ca.

**PURPOSE**

- To help healthcare providers care for patients with bedbugs.
- To prevent or minimize the risk of an undetected infestation and resulting impact on the organization.
- To outline bedbug management if a transient introduction or infestation occurs.

Note: If specific program protocols/recommendations vary from the general recommendations provided in this guideline, refer to, and follow program specific guidance.

**APPLICATION**

Alberta Health Services employees, members of the medical and midwifery staffs, students, volunteers and other persons acting on behalf of Alberta Health Services (including contracted service providers as necessary).

1. **IPC Routine Practices**

   1.1 Additional precautions are not required for suspected or confirmed cases of bedbugs.

   1.2 Personal protective equipment (PPE) is not required when caring for patients with bedbugs. Wear PPE as needed for routine practices.

   a) Shoe coverings may be worn by staff entering heavily infested private homes/residences to avoid removing shoes.

   1.3 Standard laundering practices are adequate to kill bedbugs:

   a) Handle soiled or used linens with minimal agitation and place directly in linen bag without sorting. Do not overfill bags. Double bag if leaking.

   b) Separate clean and soiled laundry. Do not place soiled laundry where clean linen is stored or in rooms that contain clean linen.

   c) At home, or in a domestic washer, launder clothes and other washable fabrics in a washing machine and dry in a hot dryer for 30 minutes.

   - Don’t over-fill the dryer or laundry won’t get hot enough.
   - The heat of a hot dryer will kill all stages of bedbugs.

2. **Guidelines**

   2.1 **Background/Prevention**

   2.1.1 Information on Bedbugs from Alberta Health Services Public Health (e.g. what are bedbugs?)

   2.1.2 Transient introductions of bedbugs occur when patients bring bedbugs into a facility on their clothes or belongings. Hospital and acute care environments are more likely to have transient
introduction of bedbugs as acute care rooms are designed to minimize the risk of infestation (e.g. sparsely furnished, metal furniture, and free of clutter).

2.1.3 Bedbug infestations may occur in any healthcare setting; however are more common in longer-stay facilities such as long-term care and assisted living because:

- Patients bring in personal possessions from home (e.g. clothing, furniture, beds, wheelchair cushions, and respiratory devices).
- Patients may not be able to communicate that they are being bitten or may be hesitant to report bedbug concerns.
- Bedbug infestations occur in several stages:
  1. Introduction
  2. Establishment
  3. Increase in number
  4. Spread to other areas

2.1.4 Establish site practices for inspection of personal furnishings and belongings brought into healthcare setting (e.g. assisted living, continuing care) for bedbugs.

2.1.5 Seal cracks and crevices in patient rooms and common spaces (e.g. lounges) to prevent bugs from migrating through walls and where pipe or wiring goes through a wall or floor (e.g. heated ducts, plumbing pipe, TV cables, and medical gases).

3. Integrated Pest Management

3.1 Staff and patient resources.

a) Education and resources are available from Alberta Health Services, Pests tab, at http://www.albertahealthservices.ca/8294.asp.

b) Staff working in a patient’s home/residence with bedbugs can access further information at Working in Places with Bedbugs.

c) For additional information refer to these resources:
   - How do I inspect for bedbugs?
   - How do I treat a bedbug infestation?
   - Service Alberta, Alberta Residential Landlord Association.
   - Government of Canada, Bedbugs – Where do I go for more information?
   - Appendix A: Quick Steps for Bedbug Management in a Healthcare Facility
   - Appendix B: Workplace Health and Safety Communicable Disease Guideline.

3.2 Management of suspected or confirmed bedbugs.

Early detection measures minimize the risk of bedbug infestation and spread.

a) Observe patient clothing or belongings for signs of bedbugs (e.g. visible bedbugs or bites) and if bedbugs are suspected:
   
   - Ask questions to determine if their current accommodation has bedbugs. For example:
     - Have you stayed where you might have been exposed to bedbugs in the past 3 months?
     - Many people have concerns about bedbugs, lice or other pests that might cause medical problems? Do you need any help with these issues?
b) If the patient has visible evidence of live bugs:
   • Have the patient change into facility-supplied clothing (gown or scrubs).
   • Seal the patient’s clothing in a plastic bag with their other belongings.
   • Keep the bag sealed until the patient leaves.

c) Observe for bedbugs in the environment. Inspect living areas and crevices of anything brought into the room/treatment area, including equipment, bags, shoes, and clothing.

d) If bedbugs are found:
   • Identify the bedbug; Place specimens in a sealed container to prevent escape.
   • Destroy other bugs by mechanical force (squish).
   • Watch for ongoing signs of bedbugs and if signs are present the full extent of the problem should be assessed by knowledgeable staff (e.g. Environmental Services). Avoid rearranging furniture to prevent the disturbance and spread of bugs before assessment is completed.

3.3 Communication for Bedbugs (Suspected or Confirmed)

a) In a healthcare setting:
   • Report the incident to the Unit or Facility Manager.
   • The Manager engages with Environmental Services and Facilities Maintenance and Engineering who consult with experts such as Environmental Public Health or a pest management service provider if required (e.g. depending on the certainty of identification, and the location or severity of the problem).

b) In a patient’s home/residence contact Environmental Public Health by calling Health Link: 1-866-408-5465.

c) Healthcare providers who experience a workplace related or acquired bedbug infestation of their home or belongings should notify their manager, report the incident into MySafetyNet (Insite) and notify local Workplace Health and Safety.

3.4 Documentation

a) Record relevant details on the patient record or chart (e.g. sighting of bedbugs on the patient or patient environment, bites).

b) Environmental Services maintains records including date, type of incident, unit or room number, date of first pest inspection, results of the inspection, details about preparation of the area, pest management recommendations, and follow-up actions to prevent re-infestation.

3.5 Treatment of Room and Furnishings (as directed by the pest-management service provider)

a) Pre-treatment
   • Reduce clutter
   • Organize belongings and place them into bags
   • Follow advice for managing clothing and belongings (e.g. laundering)
   • Empty furniture and move it away from walls
b) Treatment
   • Once an infestation is confirmed by a pest management service provider; various
     management techniques may be implemented including physically removing bedbugs,
     steam treatment or use of pesticides.
   • Following treatment by the pest management service provider, clean area as per usual
     protocols. Additional disinfectants or pesticides are not recommended.
   • Sticky tape is not effective to catch bedbugs and is not recommended for routine use.

c) Evaluate treatment
   • Evaluate the success of the integrated pest management program
   • Continue to monitor and observe for signs of bedbugs in the patient’s environment and
     furnishings.
   • Follow recommendations of the pest management service provider (e.g. further
     treatment)
DEFINITIONS

**Infestation** means to inhabit or overrun in numbers or quantities large enough to be harmful, threatening or obnoxious e.g. bedbugs found in the environment. Evidence of bedbug infestation include signs of feeding and excreta (small blood stains and/or dark spots) on sheets and mattresses.

**Integrated pest management (IPM)** means a multi-pronged, effective bedbug management program with multiple stakeholders (e.g. staff, patients, visitors and pest management service providers). IPM requires collaboration and participation of all stakeholders and includes several components:

- planning for prevention and early detection
- educating staff and patients
- identifying the pest correctly
- inspecting all living areas for potential or suspected infestations
- documentation of when and where pests are found
- preparing for treatment
- performing treatment
- evaluating the success of the program

**Transient introduction** means evidence of live bedbugs found on a patient or visitor's clothing or belongings prior to, or at the time of patient admission without evidence of an infestation (e.g. bloodstains and dark spots on sheets and mattresses, bed clothes, walls, etc.).

**APPENDIX A:** Quick Steps for Bedbug Management in a Healthcare Facility

**APPENDIX B:** Workplace Health and Safety Communicable Disease Guideline

**REFERENCES**


Appendix A: Quick Steps for Bedbug Management in a Healthcare Facility

Step 1: Assess the Patient for Bedbugs

- Ask about bedbugs in current accommodations
- Observe for, and ask about bedbug bites
- Inspect patient's personal belongings

If bedbugs are suspected or observed on the patient or patient belongings:

Step 2: Stop Bedbug Introduction Into Facility

- Have patient change into facility provided clothing (gowns or scrubs)
- Seal patient’s clothing and belongings in a plastic bag (keep sealed until patient leaves facility)
- Place soiled or used laundry directly into a linen bag (standard laundry practices will kill bedbugs)

Step 3: Communicate

- Notify receiving department or unit
- Send bagged belongings with patient
- Report findings to the unit manager
- The manager engages with Environmental Services and Facilities Maintenance and Engineering who consult with experts such as Environmental Public Health or a pest management service provider if required (e.g. depending on the certainty of identification, and the location or severity of the problem)
APPENDIX B: Workplace Health and Safety Communicable Disease Guideline

<table>
<thead>
<tr>
<th>INSECT</th>
<th>GENERAL INFORMATION – BEDBUGS</th>
<th>EXPOSURE MANAGEMENT</th>
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</thead>
<tbody>
<tr>
<td>Bedbugs (Cimex Lectularius)</td>
<td></td>
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<tr>
<td><strong>INCUBATION</strong></td>
<td><strong>TRANSMISSION</strong></td>
<td><strong>PREVENTION &amp; PRECAUTIONS</strong></td>
</tr>
<tr>
<td><strong>CONFIRMED CASE</strong></td>
<td><strong>PERIOD OF COMMUNICATION</strong></td>
<td><strong>DEFINITION OF EXPOSURE</strong></td>
</tr>
<tr>
<td><strong>SOURCES &amp; SYMPTOMS</strong></td>
<td><strong>PREVENTION &amp; PRECAUTIONS</strong></td>
<td><strong>TREATMENT</strong></td>
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<td>1</td>
</tr>
<tr>
<td>INCUBATION**</td>
<td>Not transmitted person-to-person, but requires direct personal contact with infested material/objects.</td>
<td>Routine Practices are required.</td>
</tr>
<tr>
<td></td>
<td>Bedbugs travel in seams and folds of luggage, clothes, bedding, etc.</td>
<td>The best way to prevent bedbugs is regular inspection for the signs of an infestation (refer to “Confirmed Case”).</td>
</tr>
<tr>
<td></td>
<td>Bedbugs are not known to spread disease. Allergic reactions or secondary infections from excessive scratching may occur.</td>
<td>People who travel frequently and share living &amp; sleeping quarters where other people have previously slept have a higher risk for being bitten or spreading a bedbug infestation.</td>
</tr>
<tr>
<td></td>
<td>Not applicable. Not transmitted person-to-person.</td>
<td>Exposure results when there is direct personal contact with infested material.</td>
</tr>
<tr>
<td></td>
<td>Post-exposure prophylaxis is required.</td>
<td>Best way to treat a bite is to avoid scratching the area.</td>
</tr>
<tr>
<td></td>
<td>No post-exposure prophylaxis is required.</td>
<td>Apply antiseptic creams or lotions to bites.</td>
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<tr>
<td></td>
<td>Infestations are treated with an insecticide spraying done by a professional with experience in treating bedbugs.</td>
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</table>

**REFERENCES**


**Bedbug Management Protocols for Healthcare Facilities**

Updated: August 31, 2017