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Bed Bugs Limited

Prepared by

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Development Protocol

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Version 1.4

DEALING WITH BED BUGS BY PASSIVE MONITOR REPLACEMENT A NON-CHEMICAL APPROACH

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Forward:

This protocol has been developed to deal with light infestations of bed bugs using no chemicals. It is only designed to work with light single sources of bedbugs or as an adjunct to professional treatment. If you have a heavy infestation consult an experienced pest control professional who specialises in bedbugs for assistance.

This method works best if the passive bed bug monitoring technology is installed in advance of the introduction of bed bugs as they will naturally colonise the passive monitor before they "nest" in other areas.

Unlike all other treatment options this method relies upon the fact that if bedbugs are allowed to freely travel around an infected room they will relocate into an optimally positioned passive monitor from existing refugia. It is therefore essential that the follow approaches are not used in conjunction with this approach:

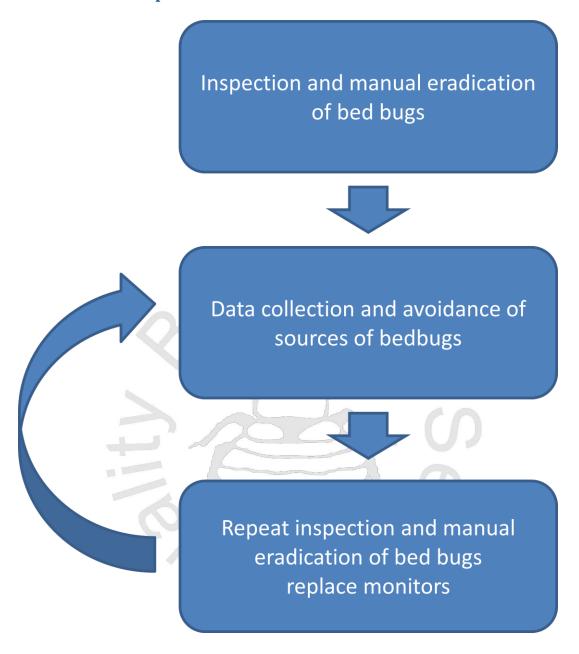
- Bed isolation using
 - o Barrier tapes on the bed legs
 - o Interceptor devices on the bed legs
 - Vaseline or mineral oil barriers
- Mattress encasements if not correctly fitted can provide alternative refugia for bedbugs

If unrestricted bedbugs will start to colonise the passive monitor within 12-72 hours from installation as evident by the faecal trace deposits which appear on the detection skirt.

If you suspect your infestations is due to insects related to bed bugs such as bat bugs and martin / bird bugs, please have a sample confirmed by a professional entomologist as their biology and behaviour may not work with this approach.

Finally, the room <u>MUST</u> remain occupied throughout the process to ensure that the bedbugs do not spread to other occupied parts of the property.

Overview of the process:



Advance preparations:

To increase the change of this approach working for you it is essential that you understand the facts about bed bug infestations and are capable of identifying all life stages, faecal traces and cast skins. In order to ensure that you are familiar with these we would recommend the following documents:

Bed Bug Beware – an easy to understand guide to bed bugs, their prevention and control by David Cain and Richard Strand ISBN 978-0-9562617-0-0

https://www.bed-bugs.co.uk/educational/about-bed-bugs/

https://www.bed-bugs.co.uk/gallery/

http://www.BedBugBeware.com/confirmingBBsignsfinal.pdf

http://www.flickr.com/photos/lou_bugs_pix/345296553/

Recommended items:

Inspection gloves (latex or nitrile medical type ones)
Bright LED head torch (its easier to work with both hands free)
Alginate or dissolvable bags for processing laundry
Large refuse bags to assist with de-cluttering and safe disposal
Pallet wrap or wide saran style cling film
Strong suction vacuum cleaner
Fine weave stockings or tights to prevent infection of vacuum cleaner
PackTite personal decontamination system – www.PackTite.com
Large sheets or polythene plastic or a shower curtain
2 Rolls of double sided carpet tape, as sticky as possible

Optional Items:

Low pressure dry steam cleaner Smooth sided plastic storage boxes to isolate items which may be infected Minifying glass or jeweller's lens

About bedbugs

Common Name Scientific Name

Native Bed Bug Cimex lectularius

Tropical Bed Bugs Cimex hempiterus

Bed bugs are parasites that preferentially feed on humans. They are a persistent pest and have developed a number of highly evolved abilities to remain close to humans.

Bed bugs have been documented as pests since the 17th century although they have been around for much longer and most likely followed man out of the cave's millennia ago. Bed bugs were common in the UK prior to World War II, after which widespread use of synthetic insecticides such as DDT greatly reduced their numbers. At one stage in the 1930's 25% of all homes in the UK were infested!

In the past decade, bed bugs have begun making a comeback across the world. Although they are not considered to be a major pest or health hazard, they can be highly unpleasant to live with and can cause a severe lack of sleep. International travel and commerce are thought to facilitate the spread because eggs, young, and adult bed bugs are all readily transported in luggage, clothing, bedding, and furniture. Bed bugs can infest aircraft, ships, trains, and buses. Many recent cases that we have worked on have been traced back to travel where the source was identified to be the return journey rather than an infested room.

Bed bugs are most frequently found in dwellings with a high rate of occupant turnover, such as hotels, motels, hostels, dormitories, shelters, apartment complexes, tenements, and prisons. Such infestations are not usually a reflection of poor hygiene or bad housekeeping but that a previous occupant had come into contact with them at some stage.

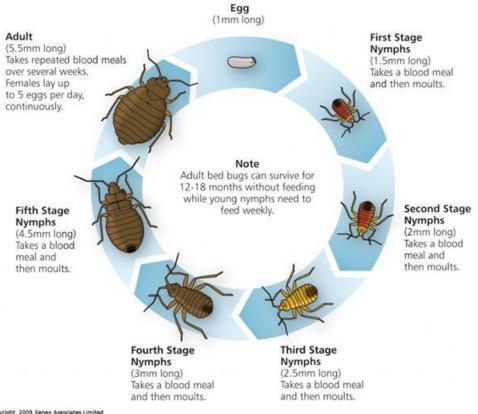
Adult bed bugs are brown to reddish-brown, oval-shaped, flattened, and about 3/16 inch to 1/5 inch long. Their flat shape enables them to readily hide in cracks and crevices. In some cases, colonies have been found in places where it is difficult to insert a sheet of paper.

Life Cycle

Female bed bugs lay from one to twelve eggs per day, and the eggs are deposited on rough surfaces or in crack and crevices. The eggs are coated with a sticky substance, so they adhere to the surface. Eggs hatch in around 10 days, and nymphs can immediately begin to feed. They require a blood meal in order to molt and develop into the next stage. Bed bugs reach maturity after five molts. Developmental time (egg to adult) is affected by temperature and takes about 21 days at 86° F to 120 days at 65° F. The nymphal period is greatly prolonged when food is scarce. The adult's life span may encompass 12-18 months and they are known to be able to survive for 12 months between feeds. If a source of blood meal is available in a property they will detect it, even if this means moving between rooms or in some cases through to adjoining properties.

Life Cycle of the Bed Bug

Cimex lectularius



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Habits

Bed bugs are fast moving insects that are blood-feeders using a barbed spike to dig a hole in the skin by repeatedly hammering at the surface. Nymphs may become engorged with blood within three minutes, whereas a full-grown bed bug usually feeds for ten to fifteen minutes. They then crawl away to a hiding place to digest the meal, which may take 3 or 4 days. Although widely reported as such they are not nocturnal and become active when food is most readily available.

Bed bugs hide during the day in dark protected sites, preferring fabric, wood, and paper surfaces. They usually occur in fairly close proximity to the host, although they can travel significant distances for food. Bed bugs can often be found in tufts, seams, and folds of mattresses, later spreading to crevices in the bedstead. In heavier infestations, they also may occupy hiding places further from the bed. They may hide in window and door frames, electrical boxes, floor cracks, baseboards, furniture, and under the tack board of wall-to-wall carpeting. Bed bugs often crawl upward to hide in pictures, wall hangings, drapery pleats, loosened wallpaper, cracks in plaster, and ceiling mouldings.

The use of inappropriate treatment solutions such as aerosol insecticides, foggers and products that they are tolerant to will often spread an infestation. Bed bugs have the ability to rapidly develop resistance to chemical control strategies as they can rapidly interbreed with their siblings developing tolerant strains very quickly.

Injury

The bite is painless at the time but will typically causes the skin to become irritated and inflamed. Individuals differ greatly in both the extent and timing of their response to a bite. A small, hard, swollen, white welt may develop at the site of each bite which can occur in rows or batches of three or four although this does vary from person to person. This is usually accompanied by severe itching that lasts for several hours to days. In rare cases an allergic reaction may follow - in such cases seek medical attention immediately. The morphology of bites is highly variable and bed bugs are almost impossible to diagnose on bites alone.

It is believed that 1 in 10 people show no signs of biting, often leading to the myth that they only attack certain people. Cases of extreme reaction seem to be on the increase and affect as many as 2 in 10 people. If you have a severe reaction to other insect bites such as fleas and mosquitoes, you are more likely to have an extreme reaction to bed bugs. We have also noted increasing anecdotal evidence that once you have been bitten, the environment that you find yourself in can induce a more severe reaction so if possible, avoid areas of high pollution or concentrations of irritants that will enter through the open wounds.

Some individuals respond to bed bug infestations with anxiety, stress, and insomnia. Bed bugs are not known to transmit any diseases although some studies have shown that they are capable of carrying infectious material it is believed that their evolutionary path prevents them from transmitting anything person to person.

If an infestation is heavy or prolonged it is advisable to use an Iron containing dietary supplement as anaemia or iron deficiency can develop. If you are feeling tired and lethargic this may help significantly.

There is some evidence that prescribed anti histamines can help reduce the effects, but it is essential that you explain to your GP that the problem is bed bugs related as the symptoms can be mistaken for more serious complaints such as scabies although they are in no way related. We advise our clients that they should show the evidence newsletter in the Helpful Advice section to their GP. To get relief from the itch Eurax or Antisan cream which is available from pharmacists is recommended but as with all medication you should consult a medical professional.

Tell-tale Signs

A bed bug infestation can be confirmed through the presence of the following signs:

- Live samples adults which are the easiest to recognise and confirm are a mahogany brown colour and can either be than and round (an apple pip shape) or long and cylindrical when they have fed.
- Faecal traces bedbugs excrete droppings that are usually blackish in colour and often resemble a felt tip pen mark on hard surfaces. If bedbugs are present these will always be visible somewhere in the room. They are the second most definitive sign of an infestation.
- Cast skins these paper-thin cast off outer shells are left behind as bedbugs develop from nymphs through adult. They may not always be visible at the start of an infestation

The following signs are not definitive of bedbugs but can illustrate a potential problem:

- Bites it is not technically possible to diagnose an insect based on this bite. We are all too individual in our response for this to be accurate. It is best to think of bites as telling you something is wrong not what it is.
- Blood spots on sheets there are many different reasons for blood spots on the sheets and fact different types of blood spots give you different information, but it is extremely difficult to use them as a diagnostic as people's perception of colour varies so greatly.
- An offensive, sweet, musty odour from their scent glands may be detected when bed bug infestations are severe. As the smell develops over time you may become accustomed to it

Control Measures

Control of bed bugs is best achieved by following an integrated pest management (IPM) approach that involves multiple tactics, such as preventive measures, sanitation, and chemicals applied when appropriate to targeted sites. Severe infestations should only be handled by a licensed pest management professional with experience in dealing with bedbug infestations, but as with all problems if you identify it quickly before it spreads the matter can be dealt with more easily than an advanced infestation.

Prevention

Bedbugs are a pest of exposure, if you do not come into contact with an infected location, item or adjoining neighbour you will not get bedbugs. However, the reality of modern life is that infected locations can include:

Hotel or stay away from home

Adjoining neighbour or regular visitor

Infected item brought into the property

Workplace

Vehicle

Public transport

International travel

Cinema, theatre, restaurant or bar

Checking regularly visited locations such as work, and vehicles can help you understand how you became exposed to bedbugs and thus help avoid them in the future. As this can sometimes be hard to achieve with busy modern lifestyles, we have developed a process that relies upon the PackTiteTM as a personal decontamination system to ensure that all bed bugs that you may come into contact with do not end up at home with you.

Inspecting items such as furniture before they come into your home is essential to ensuring your home remains bed bug free as is the ability to discuss the matter with friends and family to ensure that they are taken the correct prevention steps as well.

Unless the source is excluded from the property the stock of bed bugs will be continually replenished and the life cycle will continue. We therefore advocate education and open communication as one of the most powerful tools the fight against bed bugs. We hope that you will use the newsletters in this information pack and available online at www.BedBugBeware.com to help educate people.

Inspection

A thorough inspection of the premises to locate bed bugs and their harbourage sites is necessary so that cleaning efforts and insecticide treatments can be focused. Inspection efforts should concentrate on the mattress, box springs, and bed frame, as well as cracks and crevices that the bed bugs may hide in during the day or when digesting a blood meal. The latter sites include window and door frames, floor cracks, carpet tack boards, baseboards, electrical boxes, furniture, pictures, wall hangings, drapery pleats, loosened wallpaper, cracks in plaster, and ceiling mouldings. Detection is something that you develop an "eye for" with time, particularly in the case of eggs which appear amber in colour when fertile and pearlescent white when hatched.

You should start off with items on the edges of the bed and work inwards until you find signs of activity. As infestations tend to spread out from the most occupied areas if the signs away from the bed are minimal it is a good sign that it is a light infestation. Working in towards the bed also gives you the best chance to stop and prepare before working on the bed itself which can be awkward due to its size.

If the bed is fitted with a headboard always inspect the forks of the legs first before removing it from the bed as bed bugs will often hide at the top of the forks but faecal traces will be more widespread.

Self inspection and sanitation

The assumption that bed bugs have anything to do with the cleanliness of your home is one of the biggest and most inaccurate myths surrounding the subject and one of the main reasons for the resurgence of an issue that no-one wants to talk about.

Regular self-inspections built into your bed and sleeping area cleaning regime will help ensure that bed bugs are always detected quickly. We recommend a single 30 minute cleaning regime once a month as a fair return for the average of 180 hours per month spent sleeping in a bed. Passive bedbug monitors are designed and recommended for monthly inspection for this very reason and in recognition for the fact that initial infestations are often limited for the first 3-6 weeks until the full breeding cycle starts.

By catching the problem quickly, you can help ensure you remain bed bug free and that any problems are dealt with in an environmentally sustainable fashion with minimal disruption to your life.

Mattress encasements can help prevent your mattress for getting stained with bedbug faecal material, but they will not help prevent any bed bugs from being introduced; only you can do that. Although some pest controllers use them specialists are increasingly agreeing that they have limited use in bed bug treatments.

Where to start

The key to this approach is attention to detail and being thorough. This process cannot be rushed and may take as long as one day per room, there are no short cuts and to attempt to circumnavigate any of the steps is a false economy in terms of time and results.

If you have issues with remaining focused on a task and do not have the ability to spend long periods of time interrupted on the matter do not attempt this procedure.

It is important that you do not attempt this procedure in the following circumstances:

- If you have been repeatedly treated for bedbugs using chemical, thermal or steam treatments and the bedbugs have returned after a period of no activity
- If you have experienced continual infestation for more than 6 months
- If you have not confirmed the infestation through the presence of
 - Live samples
 - Cast skins
 - Faecal traces
- If you have a local source infestation (see following section)

Types of bedbug infestation

As leaders in the field of bedbug infestation eradication we are often a few steps ahead of everyone else in the way that we look at the problem and through scientific analysis of our methods and procedures we have identified two different dynamics of bedbug infestation. Being able to distinguish between the two and take rapid action can reduce the duration of an infestation by several months.

Single source infestations

If you come into contact with bedbugs during a stay away from home such as a friend's house, hotel room or item brought into your home, you have effectively only been exposed to a source of bedbugs once. The extent of the problem if quickly identified will be limited to the numbers that travel back with you until they start to breed.

This is usually between 6 and 12 samples in total unless a heavily infected item is brought into your home. Once the population has been identified and treatment starts the numbers will not continue to dramatically increase once steps are taken to control the problem.

The population should rapidly decline following the inspection and eradication step of this protocol and although there may still be some activity up until the monitor replacement date it should not increase again after this date. If activity drops off but then picks up again it is unlikely that you have a single source exposure and you need to consider the additional steps associated with a local source infestation of bed bugs.

Local source infestations

This type of infestation is more complex to treat and will only be resolved once the source of the infestation has been identified and contact is removed. The typical activity pattern shows a rapid decline in activity followed by subsequent peaks and increases as new bedbugs are introduced to the property.

The reality is that the source of the infestations <u>MUST</u> be identified and treated or avoided in order to stop you being continually exposed.

Public transport Work environment Regularly visited location Adjoining neighbour Personal/Work vehicle Items brought into home Control steps needed Do not sit down / stand or get a shooting stick Check you working area Change your routine until you're clear Communicate using the newsletters Check and inspect the vehicle, valet advised Check and inspect all items

Although most people are hesitant to communicate the issue of bed bugs with friends, neighbours and colleagues the reality of the matter is that without open communication of the issue others do not know what signs to look for and what steps to take while travelling to avoid contact with this pest.

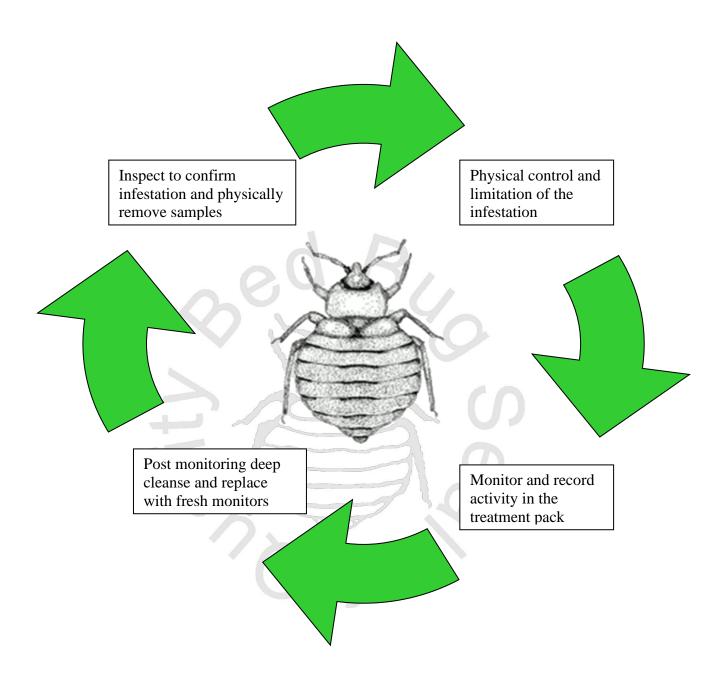
We are often quoted in the media as saying that the number one reason for the resurgence of bed bugs is lack of public awareness and sadly after extensive communication through the media since 2005 this remains the case today.

We would always advise you to be open and communicative about bedbugs with all colleagues and adjoining neighbours as soon as a problem is confirmed. Bedbugs are not associated with dirty or poor living conditions although this is a common misconception.

Without clear and accurate communication, you may continue to be exposed to a problem that is beyond your control and your issue will never be resolved until the source is identified and eradicated. To assist you in efficiently and effectively doing this we would suggest that you use the following communication sheets:

http://www.bedbugbeware.com/neighbour3fold.html

Inspection and manual eradication overview



Procedure for bedrooms

We are still working on the best way to illustrate a cleaning specification that takes into account different furniture types and room designs. Until this is available the best advice, we can give you is think of this as a back to new deep clean. You want to clean everything on all sides and seams with the aim of making it as clean as new.

Yes, this especially means the places where the dust bunnies roam free and you never get to clean because you are too busy.



Procedure for lounges and living spaces

We are still working on the best way to illustrate a cleaning specification that takes into account different furniture types and room designs. Until this is available the best advice, we can give you is, think of this as a back to new deep clean. You want to clean everything on all sides and seams with the aim of making it as clean as new.

Yes, this especially means the places where the dust bunnies roam free and you never get to clean because you are too busy.



Procedure for office and working spaces

We are still working on the best way to illustrate a cleaning specification that takes into account different furniture types and room designs. Until this is available the best advice, we can give you is, think of this as a back to new deep clean. You want to clean everything on all sides and seams with the aim of making it as clean as new.

Yes, this especially means the places where the dust bunnies roam free and you never get to clean because you are too busy.



Procedure for vehicles

We are still working on the best way to illustrate cleaning specifications for vehicles. Until this is available the best advice, we can give you is, think of this as a back to new deep clean. You want to clean everything on all sides and seams with the aim of making it as clean as new.

Yes, this especially means the places where the dust bunnies roam free, and you never get to clean because you are too busy.



Decontamination of possessions

The aim of this section is to assist you in decontaminating items from within your home which may have been exposed to bedbugs. We advocate a decontaminate don't replace policy to help reduce the economic impact that bedbug infestations can have on you and your home.

Clothes and fabrics

Always check the manufacturers washing instructions before cleaning any items. Garments and fabrics should either be:

- Washed at a minimum of 60 °C
- Tumble dried dry on high heat for 90 minutes
- Sealed and placed in a chest freezer for 14 days (this has to be an undisturbed chest freezer and not an upright freezer).

These three processes will destroy bed bugs and their eggs anything else is not considered to be 100% reliable.

Books and paper materials

If you have a large quantity of books or paper, then you may wish to utilise our offsite decontamination service.

https://www.bed-bugs.co.uk/off-site-decontamination/

Hand decontamination

We are often asked about decontamination of unusual items and as such offer the following suggestions and methods:

- Isolate items in a dry clean bath.
- Visually inspect all sides and surfaces for the physical signs of bed bugs
- o Use bright LED style light
- o Use sticky tape is isolate anything that you need to examine more closely
- o Use a magnifying glass or digital camera if you need to see things up close
- Vacuum all sides and surfaces with a crevice tool for maximum suction
- Seal suspected items in tied or taped plastic bags or cling film wrap
- Use a hair dryer on warm heat to check electronic items bed bugs do not like warm dry conditions and will quickly become active if aggravated in this way.
- Do not freeze any electrical or electronic appliances. Unless they have been left in the immediate vicinity of the main centre of an infestation they have a low risk.

Activity Log

Accurate scientific data is essential in the monitoring of the removal as well as helping to identify potential re infestations. Please assist us by keeping the log accurate and up to date including recording days with no activity.

If activity persists beyond day 14 of this process please consult a pest control professional experienced in dealing with bedbug infestations.

| Day | Adults 3 – 5mm | Young 2 – 3mm | Babies 1 – 2mm | Bites | Blood spots | Dead bed bugs | Marks on passive monitor |
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Once the infestation is clear please send the log to the address below, the feedback that it gives us will help to continually modify and develop our methodologies and treatment programs. Please remember to this so we can help others deal with the problem.

| Your Addres | <u>s</u> : |
|-------------|-------------------|
| | , O 10 |
| Send to | |
| | Bed Bugs Limited |
| | 12 Hermitage Lane |
| | London SE25 5HH |

Collection of field samples to aid academic research

We are actively collaborating with some of the world leading academics on the mapping of bedbug populations to see if there are any genetic links between field samples. It would therefore be extremely useful to their projects if you could return any infected monitors to us at the address below sealed in a ziplock bag including your zipcode or postal code, so we know the approximate geography of where the samples were found.

Send to

Bed Bugs Limited

12 Hermitage Lane

London SE25 5HH

Collaborating with this project will assist us all in better understanding how and why bedbugs have made such a rapid resurgence into society and may lead to the solutions to this growing problem.

Samples collected must be sealed in a zip lock bag and sent in protective padded envelopes only. This will minimise the risk of the package being torn or damaged during transit.

Feedback:

While this protocol is new and in development your feedback will greatly assist others and us with optimisation.

We therefore request that if you utilise this approach that you send us feedback and what aspects worked best for you in your circumstances and how the profile of decontamination looked.

We regret that we are not always able to answer lengthy technical questions individually but will develop a frequently asked questions section for the website on passive monitors to cover the common questions.

Please submit feedback via our web interface:

https://www.bed-bugs.co.uk/customer-feedback-form/



Acknowledgements

The authors of this document would like to thank the following people for inspiration and support throughout this project and for their invaluable emotional and technical support:

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Oliver Madge – Bed Bug Foundation UK
Rob Fryatt – Xenex Associates UK
David James PackTite USA
NoBugsOnMe – BedBugger.com Cyberspace
Renee Corea – New York USA

If I have left you off please forgive me and let me know you want to be added.



Disclaimer

This document is provided in good faith to help people with bedbug problems. It is designed to help people with light and recently introduced infestations.

We offer no guarantees that this method will work 100% of the time, bedbugs are biological creatures and therefore not always predictable and your success with bedbugs often relies upon the steps you take to avoid future contact with sources.

We accept no responsibility for any losses or damages which are incurred through the use of this protocol although every effort has been taken to ensure that this should not be possible.

We regret that we are not able to offer remote support of this protocol other than by integrating your feedback as we are not funded sufficiently to be able to do so.

