

## **D&J House Doctors, LLC**

### **COCKROACH TREATMENTS**

#### **TREATMENT REQUIREMENTS:**

D&J House Doctors strongly recommends keeping children & adults out of the rooms and areas where our Service Technician is working. **And, if we apply any liquid sprays, you should keep them away from treated areas until dry, which can take up to 4 hours.** The same precautions that apply to children & adults should be taken for your pets. However, if you have birds, tropical fish, or other exotic pets, let your Service Technician know in case other special precautions are necessary.

#### **RETREAT OPTIONS:**

D&J House Doctors does offer retreat options. Fees may apply. Please contact us for more information.

#### **HABITS**

This species of cockroach often travels through sewer pipes. It survives on filth and enjoys temperatures from 68 to 84 degrees. This is a cooler temperature than that preferred by other cockroach species.

#### **HABITAT**

Oriental cockroaches are often found in sewers and will enter structures through drains. They find indoor harborage in basements and crawl spaces. They can also be found in leaf piles and firewood outdoors.

#### **THREATS**

Cockroaches have been reported to spread at least 33 kinds of bacteria, six kinds of parasitic worms, and at least seven other kinds of human pathogens. They can pick up germs on the spines of their legs and bodies as they crawl through decaying matter or sewage and then carry these into food or onto food surfaces. Germs that cockroaches eat from decaying matter or sewage are protected while in their bodies and may remain infective for several weeks longer than if they had been exposed to cleaning agents, rinse water, or just sunlight and air. Recent medical studies have shown that cockroach allergens cause lots of allergic reactions in inner city children. They were even shown to cause asthma in children. These allergens build up in deposits of droppings, secretions, cast skins, and dead bodies of roaches.

#### **PREVENTION**

Good sanitation and habitat reduction, along with vacuuming, surveillance, a baiting program, and some sealing of cracks can usually quickly reduce or eliminate a cockroach population.

# D&J House Doctors Breaks the Cycle of your toughest insects pests:

## Complete metamorphosis

Includes insects such as: Fleas, Moths, Beetles, Ants, Wasps, Flies, Midges, Mosquitoes and Gnats.



### Egg stage

Effects of **D&J House Doctor's Treatment**

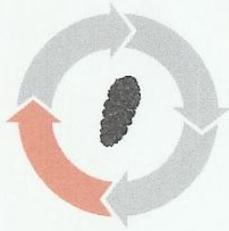
- Mortality



### Larval stage

Effects of **D&J House Doctor's Treatment**

- Suspended in larval stage
- Reduced fitness
- Increased susceptibility to non IGR insecticide
- Sterility in adult stage



### Pupa stage

Results of **D&J House Doctor's Treatment** in larvae stage:

- Death
- Morphological defects



### Adult stage

Results of **D&J House Doctor's Treatment**

- Reduced reproduction—fewer eggs
- Decreased viability of eggs

## Incomplete metamorphosis

Includes insects such as: Cockroaches and Crickets.



### Egg stage

Effects of **D&J House Doctor's Treatment**

- Mortality



### Nymphal stage

Effects of **D&J House Doctor's Treatment**

- Suspended in nymphal stage
- Reduced fitness
- Increased susceptibility to non IGR insecticide
- Morphological defects
- Behavioral changes—more active during daylight hours
- Death
- Sterility in adult stage



### Adult stage

Results of **D&J House Doctor's Treatment**

- Reduced reproduction—fewer eggs
- Decreased viability of eggs