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THE SIGNIFICANT ROLE OF DISINFECTANTS IN THE FIGHT AGAINST HANTAVIRUSES

Korobkova Iryna Valentynivna
Candidate of Medical Sciences, Associate Professor
Morozova Nelly Sergeevna
Doctor of Medical Sciences, Professor
Popov Oleksandr Oleksandrovych
Candidate of Medical Sciences, Associate Professor
Holovchak Hryhoriy Semenovych
Candidate of Medical Sciences, Associate Professor
Department of Hygiene, Epidemiology,
Disinfectology and Occupational Diseases,
Kharkiv National Medical University, Ukraine

Recent international attention to a serious outbreak of Andean hantavirus infection linked to the cruise ship MV Honda has brought this topic to the fore.

Hantaviruses are not a single virus. It is a group of rodent-borne viruses with different strains associated with different rodent host species and different parts of the world. In humans, the infection can range from mild to severe disease that affects the kidneys or lungs. Forms living in Europe and Asia often cause hemorrhagic fever with renal syndrome. Some hantaviruses in Europe, especially in the Americas, cause hantavirus pulmonary syndrome, a severe respiratory disease.

But it's another good reason why rodent control should never be seen as just "placing a few boxes." Rodent invasion is a public health problem, and the role of the specialist includes risk assessment, environmental management environment, providing guidance on safe cleaning, educating customers, and using personal protective equipment correctly.

In May 2026, the UKHSA issued guidelines following a cruise ship-linked hantavirus outbreak. It was the Andean virus strain, which is unusual among hantaviruses because it can be transmitted from person to person, although usually only after prolonged close contact.

Hantavirus infection is rare, but rodent invasion should always be taken seriously.

In the HSE guidance on zoonotic infections, those caused by hantaviruses are classified as rodent-related diseases and are generally transmitted through contact with the urine, faeces or saliva of infected rodents. This sentence alone should be enough to give the industry pause. Contact is not just a rat bite. Contacts may include: moving contaminated nesting material, coming into contact with contaminated surfaces, working with traps, removing droppings, raising insulation, sweeping dusty areas, or working in enclosed contaminated areas without adequate protective measures.

The main route of infection is contact with infected urine, droppings, saliva or nest material of rodents. Contamination can occur when contaminated material is broken and particles are inhaled, as well as when contaminants enter the eyes, nose, or mouth through hands, gloves, clothing, or equipment. WHO recommendations for pet rodents also note that infection can occur through contaminated food or drinks.

Professional practice is important here. Dry cleaning up rodent excrement, using a household vacuum cleaner, blowing dust out of voids, or removing heavily contaminated materials without humidification and disinfection can increase air pollution. WHO's recommendations for cleaning are clear: urine and excrement should be sprayed with a disinfectant solution or bleach solution until completely moistened, allowed to sit for a sufficient time, and then wiped off with gloves. It is also not recommended to sweep or vacuum rodent waste due to the risk of spraying contaminated material in the form of an aerosol. Disinfectologists do not have to copy American recommendations word for word, but the principle itself is quite applicable.

WHAT A DISINFECTOLOGIST SHOULD KNOW

The UK's National Health Service (NHS) guidelines list possible symptoms of hantavirus, including high fever, body aches, nausea or vomiting, diarrhoea, abdominal pain, headache and shortness of breath. People are advised to seek medical attention if they may have been in contact with rats, mice, or voles and develop these symptoms. The WHO also lists fever, extreme fatigue, muscle aches, stomach pain, nausea, vomiting, diarrhea, and shortness of breath as possible symptoms. In some cases may develop severe breathing difficulties and may require hospitalization.

PRACTICAL METHODS OF WORK OF PROFESSIONAL DISINFECTOLOGISTS. An effective approach to assessing the risk of hantavirus infection is inseparable from effective control of rodent populations. He is a part of it. Before entering the contaminated area, specialists must take into account the level of contamination, the amount of excrement and traces of urine, ventilation, dryness and dustiness of the material, the confined space and the need for specialized cleaning. Personal protective equipment (PPE) must be proportionate to the risk. At a minimum, it is advisable to use gloves and suitable work clothing when handling equipment or materials contaminated with rodents. In dusty or heavily contaminated environments, respiratory protection may be required, and eye protection should be considered in areas where splashes or contaminated dust are possible. The main thing is to correctly choose, adjust, use, remove and dispose of personal protective equipment. A mask worn under your nose or gloves used to touch your phone, steering wheel, and lunch box can create a false sense of security. Cleaning should be carried out under control.

Ensure ventilation in safe places. Avoid dry vacuuming. Avoid using a vacuum cleaner unless there is appropriate specialized equipment and procedures. Moisten the contaminated material with a suitable disinfectant, let it work, carefully remove the waste, pack it tightly in a bag and then clean the surfaces. Equipment hygiene is often ignored. Traps, baits, flashlights, inspection mirrors, knee pads, and tool bags can all be contaminated. A disinfectologist who thoroughly cleans the attic but then throws contaminated gloves into the footwell in the van only moves the source of the risk.

CUSTOMER EDUCATION: CALM, CLEAR AND HELPFUL When customers ask about hantavirus, you need to avoid panicked answers in a calm explanation.

Rodents aren't just a nuisance; They pollute the environment, damage infrastructure, compromise food safety and pose health risks. A professional disinfectologist is at the intersection of public health, building management, animal behavior, regulation, and client education. The ongoing discussion about hantavirus should prompt every business to reconsider its rodent cleaning procedures, personal protective equipment policies, disinfectant training, risk assessments, and customer recommendations. Are technicians instructed not to clean up rodent excrement in a dry way? Do they know when to take action if an infected area is found? Are vans and equipment properly cleaned? Are reasonable written recommendations provided to customers after detecting rodent tracks? Are young or inexperienced technicians being sent to areas with a high degree of contamination without sufficient control? These questions are not intended to intimidate. They relate to professionalism. Although hantavirus is rare, the risk of rodent-borne diseases is not purely theoretical. Every excrement, footprint, nest and infested depression is evidence that rodents live in the same rooms as humans. The best answer is not panic, but competent, evidence-based pest management, carried out by trained professionals who understand both the nature of the pest and the risks to public health.

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