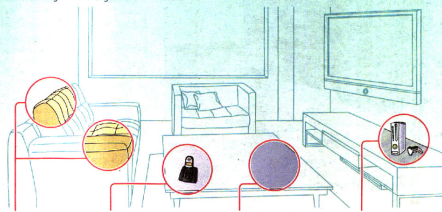


Most people regard their homes as a safe haven but are unaware their sanctuaries also house millions of germs. NG JING YNG reports.

# DANGER ZONES

## LIVING ROOM

As it is often the first point of contact when someone returns home, it is prone to having unwanted organisms brought in from outdoors.



**On the sofa**  
**COMMON GERMS:** *Staphylococcus* bacteria and dust mites  
**PREVENTIVE TIPS:** Dry clean, sun or steam clean the sofa regularly.

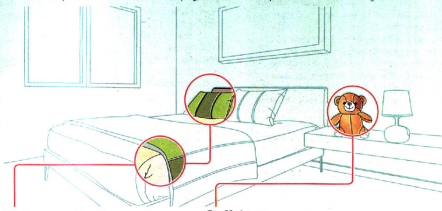
**The telephone**  
**COMMON GERMS:** *Rhinovirus* and the *Pseudomonas* bacteria are spread directly when a person touches an object.  
**PREVENTIVE TIPS:** Regular housekeeping like wiping the phones and making sure one's hands are clean before picking up the phone.

**At the dinner or coffee table**  
**COMMON GERMS:** *Rhinovirus* and *dust mites*  
**PREVENTIVE TIPS:** Table tops should be cleaned preferably three times a day or at least once a day. The surface must be dried as damp surfaces attract contaminants.

**TV and video game remote controls**  
**COMMON GERMS:** *Rhinovirus* and *Pseudomonas*  
**PREVENTIVE TIPS:** Clean and wipe the remote controls daily.

## BEDROOM

As most of us spend one-third of our lives sleeping, it is crucial to keep our bedrooms clean and germ-free.



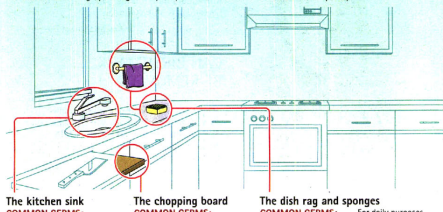
**Mattresses and beddings**  
**COMMON GERMS:** *Dust mites*  
**PREVENTIVE TIPS:** Regular sunning of mattresses and pillows to reduce the proliferation of dust mites. Blankets should be washed with water heated to 70 deg C and left to be sun-dried.

**Stuffed toys**  
**COMMON GERMS:** Made of fabric, stuffed toys tend to come into frequent contact with the nose and eyes. They often trap *dust mites*. Britain has reportedly banned stuffed toys in areas such as waiting rooms of clinics to prevent the spread of infectious diseases.

**PREVENTIVE TIPS:** Such toys should be washed or dry-cleaned regularly to keep them clean and dust-free.

## KITCHEN

In a 2007 US study funded by disinfectant company Reckitt Benckiser, it was found that things in the kitchen ranked highly among the top 30 places for the most number of bacteria per square inch.



**The kitchen sink**  
**COMMON GERMS:** This is frequently moist and provides a hideaway for tiny organisms. On a single square inch of the kitchen sink, over 567,800 bacteria were found.  
**PREVENTIVE TIPS:** Food decay supports bacteria growth. Besides regular cleaning, the sink should be kept dry or disinfected with bleach.

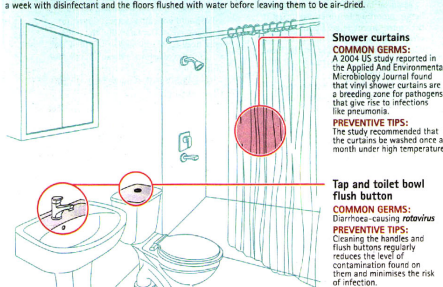
**The chopping board**  
**COMMON GERMS:** *E coli* and *Salmonella* bacteria. They are easily found in cracks and on the surface of the chopping board.  
**PREVENTIVE TIPS:** Food decay supports bacteria growth. Besides regular cleaning, the sink should be kept dry or disinfected with bleach.

**The dish rag and sponges**  
**COMMON GERMS:** *E coli* bacteria with over 50 million bugs can live on a single dirty sponge.  
**PREVENTIVE TIPS:** The rag or sponge used to wipe surfaces contaminated with raw meat should not be used to wipe dishes.

For daily purposes, simple rinsing, wringing out and hanging up to dry will suffice. Bacteria can be destroyed by heating the rag or sponge in the microwave oven after every use. However, note that metallic wire sponges cannot be put in the microwave oven.

## BATHROOM

One of the most visited places in the home, its floor is usually damp. Bathrooms should be washed at least twice a week with disinfectant and the floors flushed with water before leaving them to be air-dried.



**Shower curtains**  
**COMMON GERMS:** A 2004 US study reported in the *Applied and Environmental Microbiology* journal found that vinyl shower curtains are a breeding core for pathogens that give rise to pneumonia.  
**PREVENTIVE TIPS:** The study recommended that the curtains be washed once a month under high temperature.

**Tap and toilet bowl flush button**  
**COMMON GERMS:** Diarrhoea-causing *rotavirus*  
**PREVENTIVE TIPS:** Cleaning the handles and flush buttons regularly reduces the level of contamination found on them and minimises the risk of infection.

# THE UNSEEN ENEMY

## PSEUDOMONAS

*Pseudomonas* bacteria can cause an infection in the respiratory system or the urinary tract. These bugs favour moist areas such as sinks and swimming pools and can withstand standard levels of pool chlorination. They are usually transferred by water and skin contact.



## DUST MITES

Dust mites can be found on fabric-covered items like mattresses. They live on dead skin cells and produce waste pellets. Dust mites and their waste pellets can trigger asthma.



## RHINOVIRUS

This is a cold-causing virus that can stay infectious on surfaces for days. They can live up to three hours on the skin and on common objects such as doorknobs and telephone handsets. Transmission occurs when the eyes, nose or mouth come into contact with infected surfaces.



## STAPHYLOCOCCUS

The bacteria are found on every person's skin and on common surfaces like light switches. They can also be passed onto surfaces by houseflies or through contaminated bedding. Some varieties of *staphylococcus* infections are boils and skin busters.



## E. COLI

The bacteria comes from beef or raw produce that is cooked improperly. They spread very quickly during food preparation. The bacteria commonly cause diarrhoea and vomiting. For children under five, kidney failure and even death may result. *E. coli* can be transmitted by ingesting contaminated food or water or from contact with contaminated utensils.



## SALMONELLA

The bacteria comes from sources like raw meat and eggs. It can be passed onto moist surfaces. They are usually found during and after food preparation where food is contaminated and cause stomach pain and diarrhoea.



## ROTAVIRUS

This virus causes infection upon contact with surfaces contaminated by faecal matter. Rotavirus can remain infectious in the environment for days. It is the most common cause of severe diarrhoea among children.

