3 healthyliving

32.9%

have E. coli, according to the Dettol home truths study conducted last year

19.6% that have E. coli, according to the study

17.6%

Photo desk

mouse

keyboard and

Heavy growth of E. coli

found. Keyboards and

computer mice are among

the dirtiest objects in an

office, and should be

disinfected regularly.

Reporter's chair

Staphylococcus aureus

chairs, are more likely to

found. Shared office

equipment, such as

Heavy growth of

according to the study

15.3%

Why creating a clean workplace is vital for your health

How hygienic is your office? Here at The National we decided to see just how commonplace bacteria can be in a daily working environment by carrying out a series of swab tests, **Jennifer Bell reports**

well as elsewhere.

meals in a shared microwave,

or when they were simply typing

"Bacteria is commonly found in

the workplace," said Dr Zohreh Safai, a family medicine specialist

and diarrhoea, and a host of other

"You can have Pseudomonas

The results reinforced the cru-

"Bacteria live in an environment

so we need to be vigilant in terms

promoting hand washing and

Mr Collin said: "Most forms of E

coli are harmless, but are normal

"If there is a heavy presence out-

ly found inside the body.

at Dubai Bone & Joint Centre.

on their keyboards or answering

ABU DHABI // Potentially harmful workplaces such as The National germs found breeding in a typ- are potentially being exposed to ical workplace reflect the need illness-causing bacteria at their for better hygiene practices, say desks, in their lunchrooms, as

A swabbing test exercise by *The* National newspaper found a throughout the workplace when "heavy growth" of the potentially staff heated up their lunchtime deadly E. coli bug and other dan-

meningitis, which can be spread shaking, and sharing office equipment including laptops, stationery, phones, et cetera," said Dr Ola Mira, a member of the Arab Hygiene Council and head of oc-different bacteria, so you can have

Using about 20 individual E. coli, which can case vomiting swabs supplied and tested by Abu Dhabi's Burjeel Hospital, The National swabbed various Khalifa Street offices, including door handles, kitchen surfaces cial role of good hygiene practices

The exercise aimed to serve as a place, she said test on how unhygienic workplac-The Arab Hygiene Council said of doing thorough cleaning and the findings were alarming.

A "heavy growth" of *E. coli*, indithings like that, to prevent the cating possible faecal matter and spread of illness in crowds of peomore dangerous pathogens, was – ple. found on door handles in both the The men's washroom also had a addressed the issue of employee which could cause severe gastro-Chartered Society for Worker Health Protection) Worker Health

mouse were also randomly tested and found to have a heavy growth

The bacteria *Staphylococcus au*cies is isolated, the risk of some of reus. which could lead to skin infections such as impetigo, cause significant.' food poisoning and illnesses such as pneumonia, was also found on cause a range of infections and is a sample chair in the newsroom.

A teatray used to serve beverages and the symptoms associated to staff also had a heavy growth of with that. "Commonly touched surfaces form of bacteria found generally at the workplace, including door in the environment and caushandles in kitchens and bath- $\,\,\,$ es mild illness and irritation i rooms, can easily harbour signif- healthy people if infected, but has

icant amounts of bacteria such more of an impact on people with

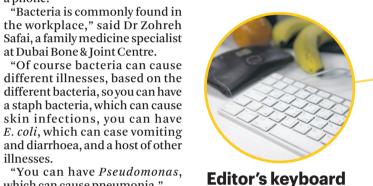
as E. coli, Pseudomonas spp and reduced immune systems.

The results show office staff in **ibell@thenational.ae**



Printer button

Photocopying machines are hotspots for germs, being one of the most commonly touched surfaces in an office. Heavy growth of E. coli



Keyboards can contain

200 times more bacteria than a toilet brush, experts estimate. Heavy growth of E. coli also found here.



kitchenette sink

Heavy growth of E. coli found. Hygiene experts say such bacteria has no place in an environment where food or drink is prepared.

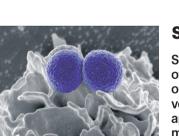


The National newsroom after a laboratory team tested sample: for potentially-harmful bacteria and infection control. Half of the surfaces swabbed were found to have growths of E. coli and Staphylococcus bacteria Silvia Razgova / The National



Most strains of E. coli – harmless; others can cause fections, respiratory illness, pneumonia and other

illnesses. The bacteria live in the intestines of healthy people and animals, and you may also be exposed to E. coli through contaminated water or food.



Staphylococcus

of bacteria commonly found on the skin and hair, can cause vomiting, diarrhoea, loss of appetite, abdominal cramps, mild fever and skin infections



Pseudomonas

cause severe gastrointestinal

Education // Hygiene

Staphylococcus," said Dr Mira.

Good hygiene is all our responsibility

Employers must give their workers hygiene knowledge

ABU DHABI // Employers need to arm their employees with the knowledge and tools necessary to reduce the spread of bacteria ularly cleaned and disinfected and maintain a healthy office en- to kill the bacteria, and to keep a

The National's swabbing explace." ercise indicated a need for inconsequences of being unhygien- of infectious diseases, she said. ic in the workplace, said Dr Ola

among workers is a key element to ganisation guidelines, at least six keeping the workplace clean and times a day using a liquid hand It is a team effort to preventing the spread of infec- wash. tions," she said.

"We know that good hygiene, hand sanitisers or antibacterial including hand washing and dis- personal wipes when washing fa- Dr Zohreh Safai family medicine speinfection of commonly touched surfaces, can help to prevent the

spread of bacteria and viruses.

Maintaining good hygiene lev-

While in the office, workers "Practising good hygiene is disinfect surfaces, especially everyone's responsibility, and keyboards, phones, desks and resomething we can do easily for strooms, which contain a signifi

cant amount of bacteria. "You can use surface wipes, an-

ria and infections, said Dr Mira. trusted antibacterial soap, such as

venting the spread of infections and staying healthy. "In addition, these commonly touched surfaces need to be reg-

healthy environment at the workers can adopt to reduce the spread

This includes washing your hands for a minimum of 40 sec-"Increasing the awareness onds, as per World Health Or-

> People should also use trusted cilities are not available.

should make sure to clean and

fence against the spread of bacte- clean and germ-free," said Dr Mira. If unwell, workers should "Regular hand washing with a also practice "hygiene etiquette". "Cover your mouth and nose Dettol, is one of the key simple hy- with a tissue when coughing or giene practices that helps in pre-sneezing," she said.

> "If you don't have a tissue, cough or sneeze into your upper sleeve, not your hands. Put your used tis-Better vet, workers should stay at

home when sick to prevent others Staff should also stick to using There are simple practices work- their own crockery rather than

make the workplace as clean as possible

from one person to another. Avoid sharing eating and drinking utensils with colleagues," said Dr Mira. Dr Zohreh Safai recommends that cleaning staff "deep clean" an office at least once a month -

ideally once every two weeks.

However, cleanliness and making sure surfaces are not re-contaminated was a responsibility of employers and employees. Dr Safai said there were simple practices every workplace could adopt, including providing employees with access to hand sanitisers and antibacterial disinfectant sprays, as well as education in hand and

"It is a team effort to make the workplace as clean as possible,"

"It is pretty much common sense not to leave food lying around. "Also, if you blow your nose, discard the handkerchief rather than leave it on a surface you might place your hands or food on." Dougie Collin said workplaces should review of how hazard control points are identified. Hand sanitiser units should also be in place where food is consumed, by tairwells and at workstations.

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Unclean workplaces affect productivity

ABU DHABI // Dirty workplaces

result in sick employees and lost productivity, warn health

Health // Infection

each year, said Dr Zohreh Safai. bodily fluids. "Any time any infection – especially one that is easily spread affects a workplace and people who are infected have to take dar Elayaperumal. time off, then there is lost productivity," she said.

"It is a combination that af-dures in the workplace ought fects productivity, but also the well-being of the employees." Better hygiene measures es with hot water and a detercould result in fewer sick days gent-based cleaner. and improve the health of the office as a whole, said Dr Safai. She urged people to take the aware of transmitting infectime to thoroughly clean work-

stations, desks, telephones, keyboards and computer mice. Infections are caused by bugs transmitted. such as bacteria getting into or on to the body.

illness, which means an in-

spread the disease in a varie-An infection can become air-

borne, such as through coughing or sneezing, or it can be Unhygienic working condi-spread through contaminattions are a key contributor to ed objects or food, by skin-toworking days lost to sickness skin contact, or contact with The transmission of patho-

gens can be prevented by regular hand washing, said Dr Sun-The microbiology specialist said infection-control proceto include regular washing of floors, bathrooms and surfac-

"Workers and even visitors to the workplaces should be tion," she said. "Especially influenza – it really affects a workplace. It is easily

"And when workers are sick they do not come to work and It can take some time before there is a loss of working hours. the microbes multiply enough "It inevitably affects producto trigger symptoms of an tivity."

fected person may unwittingly "jbell@thenational.ae

Hotspots // Work stations

Desks are the most germ-infested spots in an office

Keyboards can be 200 times dirtier than toilet brushes

spot in your office?

and the average desk is a prime enough proper cleaning of the breeding ground for infection. say health and safety experts. In fact, an average keyboard can Live on the Keyboard of Your Comhave 200 times more bacteria puter?, published in the Ameria as Staphylococcus aureus, Staph-

Hospital in Abu Dhabi.

than a toilet brush, according to can Journal of Infection Control in ABU DHABI // What do you think Dr Sundar Elayaperumal, a spe- 2011, said because many workis the most germ-infested hot cialist in microbiology at Burjeel ers ate at their desks, their key-

"This is because we are using for bacteria. Workers with poor room", think again. Illness-causthem so very often, especially in hand hygiene also directly con-a computer mouse. ing bacteria are more likely to some offices where keyboards taminated their keyboards, while inger on commonly used work are shared by different people," droplets of saliva that fall on a surfaces such as keyboards, he said. "Bacteria is coming and keyboard during talking, sneez- to disinfecting your keyboard.

kevboard. The study *How Many Bacteria* from 30 keyboards and found mi-

boards can be breeding grounds

computer mice or office phones, is deposited, and there is not ing or coughing also increased Cleaning takes the dust away,

> vlococcus epidermidis, Micrococ-Past studies have found more than 3,000 organisms per square inch on a keyboard, and 1,600 on

Dr Elayaperumal said: "Clean-

The authors analysed swabs removing the bacteria that has colonised the keyboard. But it will come back - it is a persistent phenomenon.'

> He recommended using disinfectant wipes in the morning and at the end of the day. Eating at desks should also be prohibited he said, because crumbs can become lodged in between keys and encourage bacteria to breed.

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Bacteria

Germs lurk in many homes

E. coli found in a third of kitchens and a fifth of bathrooms

ABU DHABI // Germs found lurking in The National's offices are probably found in many other workplaces and homes.

According to the Dettol Hygiene Home Truths Study, conducted last year in partnership with the Arab Hygiene Council, the two kitchens and bathrooms were E.

The study found E. coli in 32.9 per cent of kitchens and 19.6 per eent of bathrooms in the UAE. ent in 17.6 per cent of kitchens and 15.3 per cent of bathrooms. "It is a common finding in any

office," said Dr Sundar Elayaperu mal, a microbiology specialist at Burjeel Hospital in Abu Dhabi. "Usually the common bacteria is from the skin. The skin has a lot of

pacteria, such as Staphylococcus. "Other bacteria such as E. cola comes from the toilets or bathrooms, and when hygiene is not perfect it can be carried to door using them then get the colonisation of the bacteria and carry it to their workplaces, such as their computers, keyboards and tele-

phones, and so on." Hand hygiene is the most impor tant tool in the fight against bacte-

"The best thing is using an alcohol-based hand sanitiser. And wash your hands frequently. Hand transmitting infection. Wash your hands regularly, especially when going to the toilet, and use a paper towel to dry them afterwards. Use a tissue to open the door knob. Cough etiquette is also very im-

Dougie Collin said: "In areas where strict control of bacteria is a requirement, it should not be present in any significant amount. This includes kitchens but not toilet areas, where it is

hard to control bacteria due to the hygiene practices." Bacteria such as E. coli, Staphy

were not normally found in heavy concentrations, said Mr Collin.

areas, due to the clear risk of introduction into the food chain or is an indication of poor hygiene practices, and illness can result. "Good hygiene practices, es-

pecially after visiting restrooms.

is crucial in the control of intestine-borne bacteria such as E. coli." Dr Mansour Al Zarouni, a medical and molecular microbiologist and the director of EML Diagnostics in Sharjah, said: "Every one of us carries E. coli in our gut. Our skin carries Staphylococcus aureus or *Proteus* spores bacteria.

"It is not surprising that our activities would contaminate the environment and would need to be cleaned frequently."

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Hotspots // Common areas

Canteens and shared work stations need special care and attention

workplace are, unsurprisingly, the areas most people come into frequent contact with. These include door handles to touch their eyes or mouths. washrooms, handles on kitchen

and telephones.

appliances, water fountain but-

tons, computer keyboards, mice

ABUDHABI// Several studies have their hands, colleagues can pick Hygienists collected up to 5,000 and 21 per cent of vending mament and chairs should also be workers on the spread of bacteria revealed the dirtiest places in the up their bacteria by touching the swabs from office buildings that chine buttons. same door handles and surfaces. each housed more than 3,000 Those organisms then risk be-staff. ing transferred when people

A 2012 study carried out by Kimberly-Clark Professional, which

in the United States, identified refrigerator door handles, 23 per wash on a daily basis.

High levels of bacterial contam-need to be very well cleaned if they ination were found on 75 per cent are not to harbour bacteria." of lunchroom sink taps, 48 per He recommended that trays, toi-

If one staff member fails to wash hotspots where germs can lurk. cent of water fountain buttons, Mr Collin said computer equip- ue of hand sanitising. Educating

Dougie Collin said: "If a canteen a week - but that this should be ing tools and equipment, was key is used, trays and eating utensils increased in cases where several

users shared a work station.

cleaned regularly – usually once by hand to hand, or through shar-"Showing people how contaminated they could be by using UV He said hand driers were more light systems that can be made hygienic than towels because to show how poorly some people cent of microwave handles, 27 per let areas, door handles and hand there was no contact with dis-clean their hands is another way." looked at workplace hygiene cent of keyboards, 26 per cent of rails be cleaned with a biocide pensers, but it was most impor-

tant for people to realise the val- * jbell@thenational.ae

els on a personal level and at the tiseptic liquid and multipurpose workplace is the first line of de- cleaner to keep these surfaces