HOWDOESCORONAVIRUS SPREAD AND HOW CAN YOU PROTECT YOURSELF?

The 2019-Ncov Coronavirus Spreads From Person To Person In Close Proximity, Similar To Other Respiratory Illnesses.



RUAIRI CASEY / ALJAZEERA

ore than 31,000 people coronavirus, which the Chinese city of Wuhan in early

Hong Kong and one in the Philip- surfaces by coughing or sneezing. pines. Almost all the fatalities in worldwide have been of which Wuhan is the capital.

The 2019-nCoV coronavirus then their face.

Droplets of bodily fluids - such as up to 10 minutes. At least 636 people have died so saliva or mucus - from an infected

These droplets can come into between a few hours or months. China have been in Hubei province, direct contact with other people or can infect those who pick them up infected by the new How is the coronavirus spreading? by touching infected surfaces and

tries since it was first detected in close proximity, similar to other re- and sneezes can travel several feet armrests. spiratory illnesses, such as the flu. and stay suspended in the air for

far in mainland China, one more in person are dispersed in the air or on virus can survive outside a host, one and 14 days.

but in other viruses, the range is

Transmission is of particular concern on transport, where droplets containing the coronavirus could pass between passengers or continues to spread to more counspreads from person to person in According to scientists, coughs via surfaces like plane seats and

> The incubation period of the coronavirus, the length of time be-It is not yet know how long the fore symptoms appear, is between

Chinese health authorities believe ing from the coronavirus. the virus can be transmitted before symptoms appear.

This would have major implicaaccording to Gerard Krause, head of the Department for Epidemiology at the Helmholtz Centre for Infection.

"It's unusual for respiratory disthe first symptoms have occurred," he told Al Jazeera.

"But the consequences is that if it happens then they have no public health means to sort out or to identify people at risk of transmitting, because they don't even tection to you and others, but be-break. know that they're ill yet."

Can people be immune to the new coronavirus?

Viruses that spread quickly usurates and vice versa.

deaths has risen, the current mor- at least two weeks. tality rate stands at about two percent - this is lower than first feared and well below Severe Acute Respiratory Syndrome (SARS), anbetween 2002 and 2003, which killed 9.6 percent of those infected.

As the virus is an entirely new strain, it is believed that there is no ing to all of China's provinces. existing immunity in anyone it will encounter.

naturally develop over time, but this means that those with compromised immune systems, such flights to China, while a number of as the elderly or sick, are most at countries are evacuating their citi- 2016 and swine flu in 2009.

Although not yet confirmed, risk of becoming severely ill or dy-zens from Wuhan and Hubei.

How can people protect themselves? Are face masks useful?

In terms of self-protection and tions for containment measures, containing the virus, experts agree that is important to wash your hands frequently and thoroughly with soap; cover your face with a tissue or your elbow when coughing or eases transmissible even before sneezing; visit a doctor if you have symptoms; and avoid direct contact with live animals in affected areas.

While face masks are popular, distribution within a year. scientists doubt their effectiveness against airborne viruses.

Masks may provide some procause they are loose and made of permeable material, droplets can still pass through.

Some countries, such as the advised people travelling back Although the total number of from China to self-quarantine for

> What is being done to stop the spread, and when will a vaccine become available?

China has placed Wuhan and other coronavirus that broke out more than a dozen other cities under lockdown, affecting more than 50 million people, although this has not prevented the virus from spread-

As the number of confirmed but not deaths. cases continues to rise, businesses Some level of immunity will and countries are taking increasingly drastic action.

Several countries have closed their borders with China, while others have banned entry to Chinese citizens.

Person-to-person transmission has been confirmed in several countries, which WHO emergency chief Michael Ryan has called a "great concern".

Even with recent advances in medical technology, it is unlikely a vaccine could be available for mass

This means that public health measures to contain the spread will be crucial to contain the out-

Restrictions on movement will not stop the spread of the disease entirely but will slow its progress and buy time for areas that have ally come with lower mortality United Kingdom and Nigeria, have avoided infection to prepare. It will also limit the strain on health infrastructure by reducing the number of infections at any one time, said Krause.

How serious is this epidemic? Given the response and effect, the new coronavirus is being treated as a serious concern.

The infection is now more widespread than the 2002-2003 SARS episode, which also originated in China, in terms of affected people

The WHO has designated the outbreak with its highest warning level, as it did for five others, Tens of airlines have halted including Ebola in 2014 and 2019, polio in 2014, the Zika virus in

Applying For A Job? Your Facebook Profile May Be Key, Study Says

Press Trust Of India

oming across as self-absorbed or expressing strong views on controversial topics on your Facebook profile may spurn your chances of landing a job, a study suggests. According to the researchers from

Pennsylvania State University in the IIS job recruiters are less likely to se lect candidates who appear to be too self-involved or opinionated in their social media posts. The study, published in the Inter-

national Journal of Selection and Assessment, also found that recruiters are less likely to hire employees who post content suggestive of drug or alcohol use. Michael Tews, an associate profes-

sor of hospitality management, noted that little is known about how much weight hiring managers give to potentially negative social media content. The researchers investigated the effects of three potentially negative

topics -- self-absorption, opinionatedness and alcohol and drug use -- on hiring managers' decision making. They recruited 436 hiring managers from a variety of organisa-

tions, 61 per cent of whom were employed in the hospitality industry, and the remainder in companies ranging from information technology to healthcare. The team gave participants a sce-

nario to read in which hypothetical job candidates answered interview questions well and exhibited enthusiasm, but also appeared to be prone to job hopping.

They then asked the participants to review components of the candidates' Facebook profiles and to rate their employment suitability.



Each of the participants was randomly assigned to view one of 16 different Facebook profiles showing a male or female exhibiting selfabsorption, opinionatedness, and alcohol and drug use, or not showing these traits.

After reading these profiles, the hiring managers evaluated the candidates' employment suitability by providing an assessment of personorganisation fit, and an overall candidate evaluation.

The researchers found that selfabsorption negatively impacted recruiters' perceptions of candidates' employment suitability.

Self-absorption was also found to driving these negative perceptions, the researchers said.

"Social networking sites are often lamented as incubators of self-

absorption, motivating people to tell others about their every deed and

thought," said Tews. "It could be that hiring managers view individuals who are more selfabsorbed and focused on their own interests to be less likely to sacrifice for the benefit of other employees and the organisation," he said.

The team also found that opinionatedness negatively affected perceptions of employment suitability.

'Social networking sites have given rise to unprecedented numbers of individuals expressing extreme and controversial ideas in a public forum," said Tews.

"People who post divisive subject be more important than opinionat- matter may be viewed as more aredness or drug and alcohol use in gumentative and less cooperative. Additionally, their views could run counter to those of hiring managers, which may influence managers' beliefs in candidates' qualifications for

jobs," he said.

The team found that content suggesting alcohol and drug use negatively affected hiring managers' perceptions of employment suitability, although the effect was much smaller than for self-absorption and opinionatedness.

The social media content we showed hiring managers was fairly benign; there was no reference to binge drinking or actual drug use," said Tews.

"One possible reason for the relatively small effect alcohol and drug use content is that hiring managers may perceive the content as relatively normal," he said.

The researchers conclude that individuals should refrain from posting content on social networking sites that suggest self-absorption, opinionatedness and alcohol and drug use during the job search process.

'Novel Portable Lab Connects To Smartphone, Diagnoses Diseases'

Press Trust Of India

esearchers have engineered a tiny portable lab that plugs into people's phone, and connects automatically to a doctor's office through a custom app, an advance they claim may help diagnose infectious diseases, as well as mental health conditions.

The device described in the journal Nature Microsystems & Naengineering, is the size of a credit card, and can diagnose diseases such as malaria, HIV, or other conditions like depression and anxiety, the study noted.

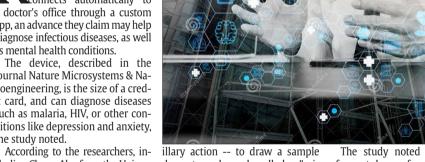
cluding Chong Ahn from the University of Cincinnati in the US, patients crochannel capillary flow assay." put a single-use plastic lab chip into their mouth, and plug it into a slot in the device to test their saliva.

The device automatically transthrough a custom app for nearly instant results, they said in a statement.

Ahn and his team used the smartphone device to test for malaria. "Right now it takes several

hours or even days to diagnose in again on three sensors. a lab, even when people are showing symptoms. The disease can spread," Ahn said.

According to the study, the novel lab chip uses the tendency for liq- anyone could use it without trainuids to adhere to a surface -- cap-



down two channels called a "mi-

One channel, the researchers said, mixes the sample with freezedried antibodies, which are large proteins part of the immune sysmits results to the patient's doctor tem that specifically target agents foreign to the body.

The other channel, they said, contains a freeze-dried luminescent material to read the results when the split samples combine

The performance is comparable to laboratory tests. The cost is cheaper. And it's user-friendly," Ahn said.

"We wanted to make it simple so ing or support," he added.

The study noted that the use of smartphones for the novel device's display, data transfer, source of power, storage and analysis allowed the development of a portable analyser that can be deployed for disease diagnostics directly to the point of care.

According to the researchers, the biggest advancement in the device is in the novel design of its tiny channels which naturally draw the sample through the sensors using capillary flow.

"The entire test takes place on the chip automatically. You don't have to do anything. This is the future of personal healthcare," said study co-author Sthitodhi Ghosh from the University of Cincinnati.

Living Near Highways Linked To Higher Dementia Risk

esearchers have revealed that living near major roads or highways is linked to higher incidence of dementia, Parkinson's disease, Alzheimer's disease and multiple sclerosis (MS).

For the findings, published in the journal Environmental Health, researchers from the University of British Columbia analysed data for 678,000 adults in Metro Vancouver.

They found that living less than 50 metres from a major road or less than 150 metres from a highway is associated with a higher risk of developing



increased exposure to air pollution.

"For the first time, we have confirmed a link between air pollution and traffic proximity with a higher risk of dementia, Parkinson's, Alzheimer's and neurological disorders - likely due to MS at the population level," said study

lead author Weiran Yuchi from the University of British Columbia in Canada. Neurological disorders, a term that describes a range of disorders, are increasingly recognised as one of the leading

causes of death and disability worldwide.

Little is known about the risk factors associated with neurological disorders, the majority of which are incurable and typically worsen over time.

For the study, researchers analysed data for 678,000 adults between the ages of 45 and 84 who lived in Metro Vancouver from 1994 to 1998 and during a follow-up period from 1999 to 2003. They estimated individual expo-

sures to road proximity, air pollution, noise and greenness at each person's residence using postal code data. During the follow-up period, the researchers identified 13,170 cases of

non-Alzheimer's dementia, 4,201 cases of Parkinson's disease, 1,277 cases of Alsults for images of people in each tices, pay equity and equality," said more directly, such as the NYTimes. zheimer's disease and 658 cases of MS.



certain occupations are prevalent on digital and social media platforms such as Twitter, says a study.

Online images of men and women in four professions - librarian, nurse, computer programmer and civil engineer - tend to represent and reinforce existing gender stereotypes, said the study published in the Journal of the Association for Information Science and Technology.

Women were overrepresented as librarians and nurses and underrepresented as computer programmers and civil engineers, especially when the collection and curation of content is largely automated by an algorithm, such as on Twitter, showed the findings.

For the study, the researchers from Rutgers University in New Jersey, US, analysed search re-



of the four occupations on four study co-author Mary Chayko, a NYTimes.com, Wikipedia and munication and Information. Shutterstock.

They also compared the search and patterns of bias and stereoresults to the gender representation of each occupation as per the

US Bureau of Labour Statistics. "Gender bias limits the ability of people to select careers that may suit them and impedes fair prac-

digital media platforms: Twitter, sociologist at the School of Com-"Understanding the prevalence

> types in online images is essential, and can help us challenge, and hopefully someday break, these stereotypes," Chayko added.

> On platforms where individuals can generate and curate content