



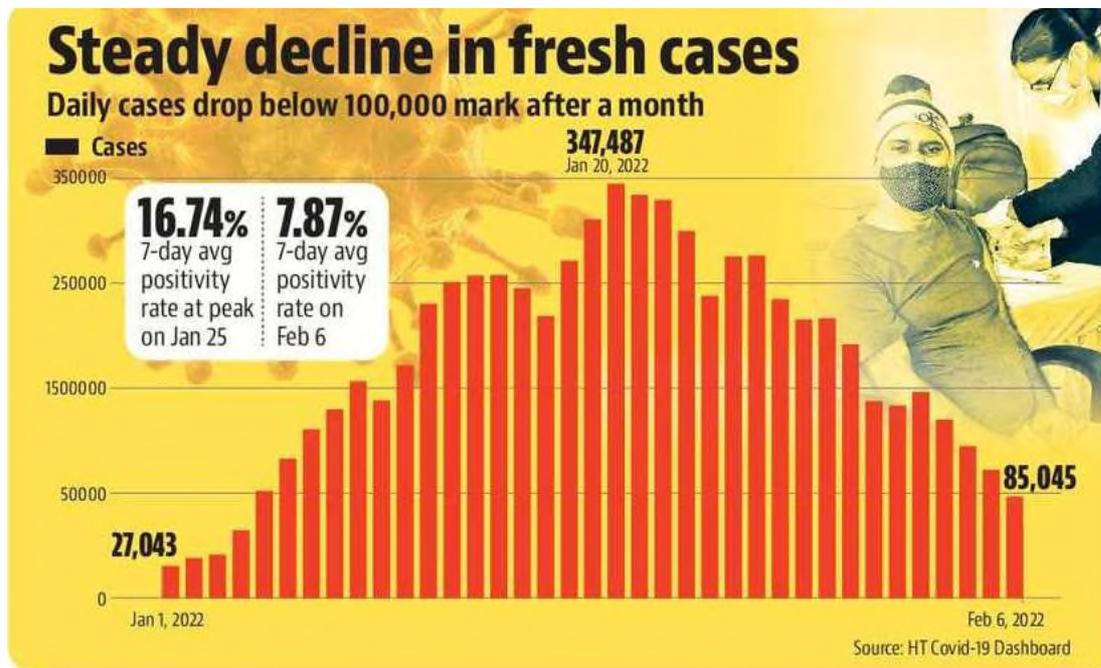
DAILY NEWS BULLETIN

LEADING HEALTH, POPULATION AND FAMILY WELFARE STORIES OF THE DAY
Tuesday 20220208

India's daily Covid-19 case tally drops below 100,000

India's daily Covid-19 case tally drops below 100,000 (Hindustan Times: 20220208)

<https://epaper.hindustantimes.com/Home/ArticleView>



For the first time in more than a month, the daily cases of Covid-19 across India have fallen below the 100,000 mark, highlighting how the third national wave of the infectious disease is contracting nearly as fast as it soared.

On Monday, there were 66,156 new Covid-19 cases detected across India, as per HT's dashboard. A day earlier, the daily cases fell below 100,000 at 85,045 for the first time since January 5, or 32 days ago. For context on how much this number has dropped, just 18 days ago, there were more than four times as many cases – on January 20, there were 347,487 new infections of Covid-19 detected across India.

The total cases recorded in the country so far was 42,336,981 on Monday, with 504,124 fatalities.

The seven-day average of daily cases has dropped to 138,472 for the week ended Sunday. This number is generally used to denote a region's case curve as it evens out any probable drop in testing or hospital visits due during the weekends. This number has now dropped 56% from the peak level of 312,180 cases a day (on average) seen for the week ended January 25. In simpler terms, in less than two weeks since it touched a peak, the Indian case curve has already shrunk to more than half its volume.

The last time India's case curve was at this level was for the week ended January 10, or 27 days ago, HT's data shows.

“India is moving forward with great strength and vigour in its fight against Covid-19. With PM Narendra Modi's mantra of ‘sabka prayas’, we will win the battle against the pandemic,” Union health minister Mansukh Mandaviya tweeted on Monday as he said that the total vaccinations in the country had crossed the 1.7 billion mark.

In Delhi, the number of cases recorded on Monday was 1,151, with a test positivity rate of 2.62%. Mumbai, meanwhile, reported 356 new cases – the lowest daily rise after December 21 last year.

Like all averages, the national figure hides a large variation in drop in infections across the country. However, a key factor to note is that contraction is now visible in every state in the country from peak levels seen in the past two months.

The biggest contraction has been recorded in Tripura, where the seven-day average of daily cases has dropped 93% from a peak of 1,087 cases a day for the week ended January 22. In West Bengal, cases have dropped 92% from 21,715 cases a day for the week ended January 15. Delhi is on the third spot with a 90% drop in cases from a January 15 peak of 23,529. Bihar and Jharkhand have similarly seen contractions of 90% and 87% respectively, data shows.

At the other end of the spectrum, Mizoram, with a 4% contraction from its peak, has seen cases shrink the least in the country. It is followed by Kerala, where cases have dropped 19% from peak third wave levels, and Ladakh that has seen a 21% contraction. Madhya Pradesh (cases down 35% from peak), and Nagaland (38%) wrap up the five states/UTs with the smallest drop in cases.

“The third wave is clearing ebbing; in fact, India attained the peak some two weeks back, and after that, the number of daily new cases has been going down, and it has fallen below 100,000... It is safe to say that the disease transmission has reduced nationally,” said IIT-Hyderabad's M Vidyasagar, who is the chairman of the Covid-19 Supermodel Committee, which is tasked with creating a model to include best predictive analytics for forecasting of Covid-19 spread.

Experts said the third wave, which has been driven by the highly transmissible Omicron variant, had fewer hospitalisations but that should not stop people from completing their vaccine doses, as they played a role in battling the surge.

“Low incidence of severe disease with Omicron should not make us complacent for receiving the vaccine (third dose for the vulnerable), which gives protection from infection and more so from severe disease. We all know that there is always a threat of ‘new variants’ and it is expected that being fully vaccinated would protect us from them, too,” said Dr GC Khilnani, former head, pulmonary medicine department, All India Institute of Medical Sciences, Delhi.

Pregnancy (The Asian Age:20220208)

<http://onlinepaper.asianage.com/article/detailpage.aspx?id=16151853>

Pregnant women are not unfit



Dr A Niharika,
consultant obstetrician
and gynaecologist,
Birthright by Rainbow
Hospitals, Vizag

Medical experts point out that if the expectant mother has a non-complicated pregnancy and is healthy, she can continue to work even till the ninth month

SULOIGNA MEHTA

Recently, the Delhi Commission for Women (DCW) sent a notice to the State Bank of India (SBI) describing as “discriminatory and illegal” its revised guidelines terming women over three months pregnant as ‘temporarily unfit’ for work, restraining them from joining service, and saying they would be allowed to resume work four

months after they delivered. DCW chief Swati Maliwal said the guidelines could affect the maternity benefits of women as provided under the Code of Social Security 2020. Faced with flak from various quarters, the SBI subsequently withdrew the revised guidelines. Medical experts point out that if the expectant mother has a non-complicated pregnancy and is healthy, she can continue to work even till the ninth month.

Companies and institutions should not dictate when the pregnant woman should take maternity leave or re-join work — let it be her choice, based on her comfort level, they say. Doctors have observed that women with uncomplicated pregnancies prefer to take leave post-delivery for nurturing their newborns. As per the Indian Maternity Benefit (Amendment) Act, 2017, an expectant woman is entitled to six months of paid maternity leave.

‘PREGNANCY IS NOT A DISEASE’

Dr A Niharika, consultant obstetrician and gynaecologist, Birthright by Rainbow Hospitals, Visakhapatnam, says, “It is ridiculous to call a woman medically ‘unfit’ just because she is pregnant. Pregnancy is not a disease or infection, that a woman should be kept confined at home even though she is capable of continuing her professional commitments. The point when a woman opts for maternity leave depends on the type of pregnancy and her physical and psychological health. It should be her personal choice after consulting doctors. Most women continue office work till the 7th or 8th month.”

Women experience morning sickness and weakness in the first trimester but are better during the second trimester. It is from the third trimester (that is the last three months) that most women find movement somewhat difficult and may need a

break, say doctors.

LET MATERNITY LEAVE BE THE WOMAN’S CHOICE

Dr Niharika feels that if the pregnancy scan reports are normal and there is no previous history of miscarriages, the woman has a family support system and is comfortable working, she can continue her professional commitments till the ninth month or 36 weeks. She can take leave a month before the expected delivery date and continue the break as per her convenience and the baby’s requirements post-delivery.

“But if the patient has a complicated pregnancy or some previously-existing health issues, we tell them in the first trimester itself to be careful and advise them to work from home,” she says. “Night duties are better avoided as night sleep and stress-free lifestyle are essential. Those having field jobs or outdoor duties need to be extra careful, as such work could take a toll on pregnancy, and create chances of complications, disruption of healthy routines and infections. There could also be foetal growth restrictions (FGR). **Dr V Kavya Priya**, senior gynaecologist and laparoscopic surgeon at Yashoda Hospital, Hyderabad, points out that for 70% of pregnant women who do not have health complications, working till eight to nine months into the pregnancy is not a problem. In the last couple of months, as the weight of the baby increases, women feel some pain, backache and psychologi-

cal stress. They require extra effort at fitness.

“There are high risk women who suffer from anaemia, gestational diabetes, high blood pressure, cardiac diseases, epilepsy, placenta previa (low lying placenta, making normal delivery impossible), or carry twins and triplets. Such women need a lot of rest,” the doctor stresses.

WORKPLACE MODIFICATIONS REQUIRED

It’s important that workplaces be more accommodating to employees who are pregnant or who have recently delivered. “There should be a separate room for the women to rest, a doctor should be available at the workplace, work from home should be made an option, and a crèche and place for breastfeeding should also be provided if the new mother wants to resume work soon after delivery,” says Dr Kavya Priya.

CORRIGENDUM

The caption for the photo published in Hyderabad Chronicle on February 7 should read as: “A file photo of Vjayanthimala Bali, M.S. Subbulakshmi, Lata Mangeshkar and Radha Vishwanathan, in 1994, in Chennai,” and not as rendered. The error is regretted.

Health and immunity

Has your child tested positive for Covid-19? Follow these measures for better health, immunity

If your child is currently well enough to be taken care of at home, here are some measures you must take to ensure their good health and immunity, as suggested by Ayurvedic expert (The Indian Express:20220208)

<https://indianexpress.com/article/lifestyle/health/child-tested-positive-covid-19-measures-health-immunity-7747278/>

children, covid-19 Resting, staying hydrated and sleeping are typically helpful. (Source: Pexels) As Covid-19 cases continue to rise, people perpetually remain worried for their health and immunity. While children remained the least affected during the first two waves, an increasing number of kids are getting infected by the virus in the third wave.

ALSO READ |In pandemic, Indian millennials, Gen Zs turned to podcasts to deal with stress: Report

To manage Covid-19 in kids, the Health Ministry also released guidelines last month. However, if your child is currently well enough to be taken care of at home, here are some measures you must take to ensure their good health and immunity, as suggested by Ayurvedic expert Dr Nitika Kohli.

“The good news is that most people with Covid-19 have mild symptoms and recover on their own. Resting, staying hydrated and sleeping are typically helpful,” she said. Take a look.

Follow these measures if your child has tested positive for Covid-19.

Nutritious diet

The expert suggested to “give your child a light home-cooked diet and keep them well hydrated.”

Tepid sponging

During Covid-19, your child is most likely to have a fever. In such cases, you can do tepid sponging.

ALSO READ |Is the N95 mask best for protection from the Omicron variant?

Good hygiene

Ensuring good hygiene is quintessential to a healthy body. Thus, follow good hygiene practices like regular handwashing with soap.

Keep an oximeter handy

Temperature and oxygen saturation may fluctuate during Covid-19 and thus, you must keep an oximeter handy. Make sure you record temperature and oxygen saturation with a pulse oximeter at home, every six hours.

Isolate your child

It is absolutely necessary to isolate your child in case of Covid-19 infection.

Wear mask

Dr Kohli said, “You and your child should wear a surgical mask and change it after eight hours of continuous wear.”

Protective measures

You must strictly adhere to personal protective measures for yourself and your child, she suggested.

Consult a doctor

It is recommended to take medical advice before giving any medicine to your child.

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🔊 The above article is for information purposes only and is not intended to be a substitute for professional medical advice. Always seek the guidance of your doctor or other qualified health professional for any questions you may have regarding your health or a medical condition.

Cancer treatment

A cancer treatment makes leukemia vanish but creates more mysteries (The Indian Express:20220208)

The treatment involves removing T cells, white blood cells that fight viruses, from a patient's blood and genetically engineering them to fight cancer. Then the modified cells are infused back into a patient's circulation.

<https://indianexpress.com/article/lifestyle/health/a-cancer-treatment-makes-leukemia-vanish-but-creates-more-mysteries-7760489/>

leukemia treatment In an undated image provided by Olson family photo, Doug Olson in Bend, Ore., in December 2021. In 2010, Olson became one of three patients to undergo CAR T cell therapy as part of a clinical trial. (Olson family photo via The New York Times)

By Gina Kolata

Doug Olson was feeling kind of tired in 1996. When a doctor examined him, she frowned.

“I don’t like the feel of those lymph nodes,” she said, poking his neck.

She ordered a biopsy. The result was terrifying. He had chronic lymphocytic leukemia, a blood cancer that mostly strikes older people and accounts for about one-quarter of new cases of leukemia.

“Oh, lordy,” Olson said. “I thought I was done for.”

He was only 49 and, he said, had always been healthy.

Six years went by without the cancer progressing. Then it started to grow. He had four rounds of chemotherapy, but the cancer kept coming back. He had reached pretty much the end of the line when his oncologist, Dr. David Porter at the University of Pennsylvania, offered him a chance to be among the very first patients to try something unprecedented, known as CAR T cell therapy.

In 2010, he became the second of three patients to get the new treatment.

At the time, the idea for this sort of therapy “was way out there,” said Dr. Carl June, the principal investigator for the trial at Penn, and he had tempered his own expectations that the cells he was providing to Olson as therapy would survive.

“We thought they would be gone in a month or two,” June said.

ALSO READ |World Cancer Day 2022: Recognising and understanding the inequities in cancer care in the country

Now, a decade later, he reports that his expectations were completely confounded. In a paper published Wednesday in Nature, June and his colleagues, Dr. J. Joseph Melenhorst and Porter, report that the CAR T treatment made the cancer vanish in two out of the three patients in that early trial. All had chronic lymphocytic leukemia. The big surprise, though, was that even though the cancer seemed to be long gone, the CAR T cells remained in the patients’ bloodstreams, circulating as sentinels.

“Now we can finally say the word ‘cure’ with CAR T cells,” June said.

Although most patients will not do as well, the results hold out hope that, for some, their cancer will be vanquished.

But mysteries remain.

The treatment involves removing T cells, white blood cells that fight viruses, from a patient's blood and genetically engineering them to fight cancer. Then the modified cells are infused back into a patient's circulation.

In the case of chronic lymphocytic leukemia, the type that Olson had, the cancer involved B cells, the antibody-forming cells of the immune system. A patient's T cells are taught to recognize B cells and destroy them. The result, if the treatment succeeded, would be to destroy every B cell in the body. Patients would be left with no B cells but also no cancer. They would require regular infusions of antibodies in the form of immunoglobulin infusions.

The therapy has helped many with blood cancers and has proved particularly effective in patients with acute leukemias and other blood cancers. By contrast, those like Olson with chronic lymphocytic leukemia, also known as CLL, have seen less success. Among those with that cancer, about one-third to one-fifth go into remission with CAR T therapy, but many whose cancers disappear later relapse.

“The question is not only why some patients relapse or are resistant to therapy, but why are some patients cured?” said Dr. John F. DiPersio, chief of the division of oncology at Washington University in St. Louis, who was not involved in the study.

The CAR T treatment has also caused serious side effects in some patients, like high fevers, comas, dangerously low blood pressure and even death — although in most patients, the alarming symptoms resolve. It has not yet worked in people with the solid tumors found in conditions like breast and prostate cancer.

ALSO READ | Experts weigh in on the importance of mental health care in cancer treatment
Just as strange as the inability of CAR T to help most cancer patients is the fate of those modified T cells in the cured patients.

The genetic modification involved a subset of T cells known as CD8 cells, which are assumed to be the ones that actually kill the cancer. They are the assassins of the immune system.

But assassins need helpers, and for the CD8 cells, the helpers are another group of T cells known as CD4 cells.

At first, the CD8 cells seemed to be acting exactly as was hoped in June's study. The modified CD8 T cells almost immediately killed between 3 1/2 and 7 pounds of cancer cells in the bodies of Olson and the first patient in the study, William Ludwig, who was also cured of his cancer but died last year from COVID-19.

After the CD8 cells did their job, they remained in the blood, but, unexpectedly, they turned into CD4 cells. And when the Penn investigators removed CD4 cells from the blood of Ludwig and Olson, they saw that those cells could kill B cells in the laboratory. The CD4 cells had turned into assassins or, DiPersio noted, “at least guardians that can keep the tumor cells at bay and undetectable in the patient for years.”

Could the CD4 cells remain in the blood with no cancer cells to kill? Or were they there because the leukemia was not really gone but instead kept trying to return, only to be attacked by CD4 cells?

“We can’t find any leukemia cells in Doug,” June said. But, he added, perhaps they are still there in tiny quantities and emerging, only to be knocked back by CD4 cells, “like whack-a-mole,” he said.

He suspects, though, that the CD4 cells are more like guards.

“The leukemia is gone, but they stay on the job,” he said.

Whatever the mechanism, Porter said, the result “is beyond my wildest imagination.”

“Oncologists don’t use words like ‘cure’ lightly or easily or, frankly, very often,” he said. “I guarantee that it’s not being used lightly. The patients we treated had far advanced disease,” he noted, adding, “the biggest disappointment is that it doesn’t work all the time.”

WHO

WHO chief says discussed collaboration on Covid origins with Chinese premier (The Tribune: 20220208)

<https://www.tribuneindia.com/news/world/who-chief-says-discussed-collaboration-on-covid-origins-with-chinese-premier-367339>

WHO chief says discussed collaboration on Covid origins with Chinese premier Tedros Adhanom Ghebreyesus. File photo

The head of the World Health Organization said on Saturday he had discussed with Chinese Premier Li Keqiang the need for stronger collaboration on the origins of Covid-19, a subject of controversy that has strained Beijing's relations with the West.

Tedros Adhanom Ghebreyesus has previously pressed China to be more forthcoming with data and information related to the origin of the virus.

"Pleased to meet with Premier Li Keqiang," Tedros tweeted.

"We discussed Covid-19 and the need for an aggressive effort on VaccinEquity this year to vaccinate 70% of all populations," he said, referring to the WHO campaign for fair access to vaccines around the world.

"We also discussed the need for stronger collaboration on Covid-19 virus origins, rooted in science and evidence," he added.

The WHO last year established the Scientific Advisory Group on the Origins of Novel Pathogens (SAGO) and called on China to supply raw data to help any new investigation. China declined, citing patient privacy rules.

China has consistently denied allegations that the virus was leaked from a specialist laboratory in the city of Wuhan, where Covid-19 was first identified at the end of 2019.

A joint study by China and the WHO published last year all but ruled out the theory that Covid-19 originated in a laboratory, saying that the most likely hypothesis was that it infected humans naturally, probably via the wildlife trade.

Last November, China said a declassified US intelligence report saying it was plausible that the pandemic originated in a laboratory was unscientific and had no credibility.

Triple-vaccination

Triple-vaccinated can fight Omicron well: Study (The Tribune: 20220208)

<https://www.tribuneindia.com/news/world/triple-jabbed-can-fight-omicron-well-study-367204>

Triple-vaccinated can fight Omicron well: Study
Worshippers practise social distancing as they pray at Wong Tai Sin Temple during Lunar New Year celebrations in Hong Kong. Reuters

People who are triple-vaccinated against Covid develop a high-quality antibody response that can neutralise the Omicron variant efficiently, according to a study.

This also applies to people who are infected with the virus thrice, to those having recovered and then received two vaccinations, and to double-vaccinated individuals who experience a breakthrough infection, the researchers said.

The study, published recently in journal Nature Medicine, tracked the antibodies of vaccinated and recovered individuals for two years.

The participants comprised 98 recovered persons and 73 people without prior infection. Both groups were offered vaccination with the mRNA-based Pfizer vaccine.

The researchers from Technical University of Munich (TUM) in Germany found that a total of three exposures to the viral spike protein lead to production of virus neutralising antibodies that are high in quantity as well as quality.

These high-quality antibodies bind to the viral spike protein more vigorously, and are also capable of effectively fighting the Omicron variant.

The spike protein is used by the SARS-CoV-2 virus to enter and infect the cells.

The team found the same effect in triple-vaccinated people, in those who had recovered from Covid and then had two vaccinations, and double-vaccinated people who then had a breakthrough infection.

"The immunity built up or strengthened by means of vaccination is key to effective protection against future variants of the virus," said Percy Knolle, professor at TUM.

"A recent breakthrough infection — as irritating and undesirable as it is — has in fact the same effect as an additional vaccination on this important arm of the immune system," Knolle said.

ICMR

3rd Covid wave hit youth more: ICMR (The Tribune: 20220208)

<https://www.tribuneindia.com/news/nation/3rd-wave-hit-youth-more-icmr-366806>

The third wave of Covid-19 affected younger people more than during the second wave, with sore throat the most common symptom.

Govt: patients needn't postpone surgeries

The Health Ministry said Covid patients who require surgery — urgent or elective — need not postpone the same anymore. This new guidance is in contrast to the one issued during the first and second waves wherein infected patients were advised to wait for eight weeks until recovery to get operated.

An analysis by the Indian Council of Medical Research (ICMR) of 1,520 (564 fully jabbed and 956 unvaccinated/half jabbed) Covid patients admitted to 37 hospitals between November 15, 2021, and January 17, 2022, revealed the mean age of those hospitalised at 44 years against 55 years during the second wave.

Nearly half (46 per cent) of the hospitalised had comorbidities and all symptoms were less severe as compared to the second wave.

Among fully vaccinated, 10.2 per cent died — 91 per cent of them had comorbidities. Among the unvaccinated, the death rate was 22 per cent with 83 per cent reporting comorbidities. "The third wave affected the young more; severe symptoms were nil. Comorbidities and vaccination were the main drivers in the level of disease. The bottom line is vaccines save lives," ICMR chief Balram Bhargava said.

Coronavirus

Coronavirus: Scientists find "cryptic" variants in wastewater (The Tribune: 20220208)

<https://timesofindia.indiatimes.com/life-style/health-fitness/health-news/coronavirus-scientists-find-cryptic-variants-in-wastewater/articleshow/89406063.cms>

A team of US researchers has detected at least four "cryptic" variants of SARS-CoV-2, the virus that causes Covid-19, in samples of wastewater from New York City's public sewer system.

Marc Johnson, Professor of molecular microbiology and immunology at the University of Missouri and a co-corresponding author on the study, believes the results suggest the "cryptic" mutations they identified in New York City could be linked to possible animal origins.

While these origins have not been verified yet, he believes one possible source could be the rats that frequent New York City's sewer system.

The findings are published in Nature Communications journal.

"For instance, we still don't know where the Omicron variant came from, but it had to come from somewhere," Johnson said.

"These variants are bubbling up everywhere, including Omicron, which eventually spilled into the general population and wreaked havoc. We think these weird lineages could be where the next variant of Covid-19 comes from."

The researchers have been sampling wastewater from 14 treatment plants in New York City since June 2020.

Coronavirus: Alpha, Beta, Gamma, Delta, Omicron

Coronavirus: Alpha, Beta, Gamma, Delta, Omicron; know what studies say about next

TIMESOFINDIA.COM | Last updated on -Feb 7, 2022, 16:00 ISTShare fbsharetwsharepinshareComments (1) (The Times of India: 20220208)

<https://timesofindia.indiatimes.com/life-style/health-fitness/health-news/coronavirus-alpha-beta-gamma-delta-omicron-know-what-studies-say-about-next/photostory/89404397.cms?picid=89404447>

01/4COVID-19 pandemic is the third recorded outbreak of a coronavirus

Nobody is unknown to coronavirus and the havoc it has wreaked on humanity since 2020. Considered to have been one of the biggest pandemics in the history of humankind, the coronavirus induced COVID-19, is still infecting millions of people worldwide with its emerging variants.

As per an NCBI paper, the COVID-19 pandemic is the third recorded outbreak of a coronavirus, with the 2002 sudden acute respiratory syndrome (SARS, SARS-CoV-1 or SARS-CoV) and the 2012 Middle East respiratory syndrome (MERS or MERS-CoV) epidemics preceding it.

02/4Coronavirus variants

Viruses change over time. While most viruses do not change their properties, in many others important properties associated with the severity, performance of vaccines, therapeutic medicines, and diagnostic tools change drastically, posing a threat to mankind.

This is how variants are formed.

Depending on their risk to public health, the World Health Organisation (WHO) classifies coronaviruses as either variants of concern or variants of interest.

The variants of concern have a detrimental effect on the infected people. These variants have increased transmissibility, and virulence.

Coronavirus

Coronavirus: Indian scientists claim to have designed vaccine against all variants (The Times of India: 20220208)

<https://timesofindia.indiatimes.com/life-style/health-fitness/health-news/coronavirus-indian-scientists-claim-to-have-designed-vaccine-against-all-variants/articleshow/89404244.cms>

Indian scientists claim to have designed a universal vaccine that can be effective against all variants of the coronavirus, which triggered the once-in-a-century pandemic two years back. With new variants of the SARS-COV-2 virus triggering fresh waves of the highly infectious disease, scientists at the Kazi Nazrul University, Asansol and Indian Institute of Science Education and Research, Bhubaneswar have designed a peptide vaccine which they claim could protect against any future variants of the coronavirus.

Their research has been accepted for publication in the Journal of Molecular Liquids that is devoted to fundamental aspects of structure, interactions and dynamic processes in simple, molecular and complex liquids.

"In this study, we employed immunoinformatic approaches to design AbhiSCoVac - a multi-epitope multi-target chimeric peptide that would be able to generate protective immunity against all six virulent members of the family hCoV-229E, hCoV-HKU1, hCoV-OC43, SARS-CoV, MERS-CoV as well as SARS-CoV-2," the researchers said.

"The designed vaccine was found to be highly stable, antigenic and immunogenic," the researchers Abhigyan Choudhury and Suprabhat Mukherjee from Kazi Nazrul University and Parth Sarthi Sen Gupta, Saroj Kumar Panda, and Malay Kumar Rana from IISER, Bhubaneswar said.

Choudhary said the team of researchers developed the vaccine using computational methods and the next stage would involve the production of the vaccine which would be followed by testing.

"This vaccine is one of a kind. No other vaccine in the world has been designed to cope with all the Coronaviridae family viruses at a single time," he told PTI.

He said the researchers had first identified various conserved regions in the spike protein of the six different viruses that undergo very few mutations and thus change a little in the course of pandemic.

Also, these regions of the protein identified are highly immunogenic which means they can produce high levels of immune memory in the body that is required to protect against the viruses, he said.

"Unlike other vaccines, these identified were selected after they have shown high binding strengths with a protein called TLR4 - the same protein responsible for detecting SARS-COV-2 viruses in the body and initiating the immune responses," Choudhary said.

"We also simulated injection of the vaccine into virtual patients and have found that this vaccine is highly capable of protecting the recipient from the viruses," he said.

Coronavirus prevention

Coronavirus prevention: Know what you can and can't do post COVID vaccination The Times of India: 20220208)

<https://timesofindia.indiatimes.com/life-style/health-fitness/health-news/coronavirus-prevention-know-what-you-can-and-cant-do-post-covid-vaccination/photostory/83806855.cms>

01/8What you can and can't do post COVID vaccination

The novel coronavirus has become a tragic part of our lives and currently, there seems to be no escape from it. That being said, COVID vaccines have become our only means of hope and the only way we can protect ourselves from the virus. Since the rollout of the vaccines in and around the world, millions of people have already got themselves vaccinated and many more are looking forward to it.

However, those who are fully vaccinated continue to wonder whether the vaccine jabs provide them the freedom to travel, meet their loved ones and live life like they did before the pandemic hit them.

READMORE

02/8Vaccination may avoid severe infection, but you can still get COVID-19

The most dangerous aspect of SARs-COV-2 virus is its unpredictability. Some have mild, moderate or severe infections, while others have no symptoms at all. Therefore, during such unpredictable times, vaccinations are the only mode of protection against COVID-19. But if you are vaccinated, it is important to remember that vaccines can provide you with a certain

level of protection and can avoid severe infections and hospitalization. However, it does not make you less susceptible to the virus and you can still contract the illness and transmit it to others, especially the most vulnerable people in the society.

That said, the Centre for Disease Control and Prevention (CDC) on Monday, issued new guidelines, stating what vaccinated people can and cannot do post-vaccination.

Read more:Coronavirus Vaccine: Reluctant to take the COVID-19 shot? Experts clear the air around vaccination

Tier-2 antibodies against HIV Pennsylvania,

Scientists develop immunogen that produces tier-2 antibodies against HIV Pennsylvania, (New Kerala: 20220208)

<https://www.newkerala.com/news/2022/20749.htm>

: Nearly four decades after its discovery, HIV has killed 36.3 million people, with no vaccine in sight. And many people are still not open in talking ab-> View it--> <https://www.newkerala.com/news/2022/20749.htm>

Mental health disorders

Resilience training and co-curricular activities in schools help prevent mental health disorders: (New Kerala: 20220208)

School is the place that forms the foundation of what a person grows up to be. But what if children develop mental health d-> View it--> <https://www.newkerala.com/news/2022/20690.htm>

Leprosey

WHO Goodwill Ambassador calls for renewed focus on Leprosy through 'Don't Forget Leprosy' campaign (New Kerala: 20220208)

The Covid-19 pandemic has increased the challenges and brought greater neglect, especially for marginalised/ people affected by Lepro-> View it--> <https://www.newkerala.com/news/2022/20610.htm>

SARS-CoV-2

Scientists detect novel Covid variants in NYC wastewater (New Kerala: 20220208)

: A team of US researchers has detected at least four "cryptic" variants of SARS-CoV-2, the virus that causes Covid-19, in samples of wastewater from New York City's public sewerage. View it--> <https://www.newkerala.com/news/2022/20537.htm>

Moderate exercise

Study suggests moderate exercise program could improve cancer treatment outcomes (New Kerala: 20220208)

[England], February 6: Researchers have suggested that a moderate exercise programme could improve the success of chemotherapy treatment in oesophageal cancer patients. View it--> <https://www.newkerala.com/news/2022/20363.htm>

Corona Live

Corona Live: बीते 24 घंटों में 70 हजार से भी कम मामले, लेकिन मृतकों की संख्या ने बढ़ाई चिंता (Amar Ujala: 20220208)

<https://www.amarujala.com/live/india-news/coronavirus-cases-in-india-8-february-live-updates-covid19-in-india-active-cases-corona-death-today-health-ministry-updates>

Coronavirus Cases In India 8 february Live Updates, Covid19 in India, Active Cases, Corona Death today, Health ministry Updates

देश में कोरोना संकट का दौर जारी है। इस महामारी से निपटने के लिए राज्य से लेकर केंद्र सरकार तक कई एहतियाती कदम उठा रही है। इन सब के बीच संसद में अब विपक्ष कोरोना महामारी की स्थिति पर केंद्र सरकार से सवाल भी कर रहा है। इसी क्रम में सोमवार को जल शक्ति राज्य मंत्री विश्वेश्वर टुडू ने कोरोना काल में गंगा नदी में फेंके गए शवों के बारे में लिखित में जवाब दिया। उन्होंने कहा कि गंगा नदी में फेंके गए कोरोना से संबंधित शवों की संख्या के बारे में उन्हें जानकारी उपलब्ध नहीं है। कोरोना से जुड़े हर अपडेट के लिए बने रहें अमर उजाला के साथ...

लाइव अपडेट

09:20 AM, 08-FEB-2022

बीते 24 घंटे में कोरोना के 67,597 नए मामले, 1188 की मौत

देश में बीते 24 घंटों में कोरोना मरीजों की संख्या में कमी तो आई है लेकिन मृतकों की संख्या ने एक बार फिर से चिंता बढ़ा दी है। स्वास्थ्य मंत्रालय के अनुसार बीते 24 घंटों में कोरोना के 67 हजार 597 मामले सामने आए हैं और 1188 लोगों की मौत हो गई। इस दौरान 1 लाख, 80 हजार, 456 लोग स्वस्थ भी हो गए।

08:51 AM, 08-FEB-2022

भारत में कल कोरोना वायरस के लिए 13,46,534 सैंपल टेस्ट किए गए

भारतीय चिकित्सा अनुसंधान परिषद (ICMR) की रिपोर्ट के अनुसार भारत में कल कोरोना वायरस के लिए 13,46,534 सैंपल टेस्ट किए गए, कल तक कुल 74,29,08,121 सैंपल टेस्ट किए जा चुके हैं।

07:53 AM, 08-FEB-2022

मिजोरम में कोरोना के 2000 से अधिक मामले

मिजोरम में बीते 24 घंटों में कोरोना वायरस के 2,224 नए मामले सामने आए और इस दौरान किसी की मौत नहीं हुई।

कुल मामले: 1,88,109

सक्रिय मामले: 13,991

कुल डिस्चार्ज: 1,73,495

कुल मृत्यु: 623

07:52 AM, 08-FEB-2022

कोरोना काल में गंगा में बहे शवों की संख्या की जानकारी नहीं: केंद्र सरकार

जल शक्ति राज्य मंत्री विश्वेश्वर टुडू ने एक लिखित जवाब में कहा कि गंगा नदी में फेंके गए कोविड-19 से संबंधित शवों की संख्या के बारे में जानकारी उपलब्ध नहीं है।

07:19 AM, 08-FEB-2022

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देश में कोरोना संकट का दौर जारी है। इस महामारी से निपटने के लिए राज्य से लेकर केंद्र सरकार तक कई एहतियाती कदम उठा रही है। इन सब के बीच संसद में अब विपक्ष कोरोना महामारी की स्थिति पर केंद्र सरकार से सवाल भी कर रहा है। इसी क्रम में सोमवार को जल शक्ति राज्य मंत्री विश्वेश्वर टुडू ने कोरोना काल में गंगा नदी में फेंके गए शवों के बारे में लिखित में जवाब दिया। उन्होंने कहा कि गंगा नदी में फेंके गए कोरोना से संबंधित शवों की संख्या के बारे में उन्हें जानकारी उपलब्ध नहीं है।

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Corona Infection (Dainik Bhasker:20220208)

<https://epaper.bhaskar.com/detail/1200521/26806226967/mpcg/08022022/116/image/>

भास्कर एक्सक्लूसिव

पहली लहर 337 दिन, दूसरी 242 दिन लेकिन तीसरी एक माह में ही दलान पर

लघुसमाचार कक्षा | लखनऊ

कोरोना की तीसरी लहर इलाज पर है और संक्रमण दर 6 फीसदी से नीचे आ गई है। मौतें भी पीक की तुलना में आधी रह गई हैं। लेकिन माइज 35 दिन इस लहर में 3664 के औसत से 1,28,248 मरीज मिले हैं, चानी संक्रमण फैलने के मामले में धीरे लहर शेष दो लहरों को तुलना में विस्फोटक रहने है और जानकारों के मुताबिक अगर प्रदेश अर्थात् ज्यादा होने तो हफ्ताभर मरच सकता था। प्रदेश में दूसरी लहर ने सबसे ज्यादा नुकसान पहुंचाया है। उसमें भी हर दिन 2,893 के औसत से कुल 6,99,990 मरीज मिले। तीसरी लहर में मौतों का आंकड़ा काफी कम रहा। चिकित्सकों का कहना है कि इसके पीछे पुरानी दो लहरों का अनुभव, स्वास्थ्य सुविधाओं की व्यवस्था तथा टीकाकरण और कोविड के प्रति लोगों की जागरूकता की अलग भूमिका रही। छत्तीसगढ़ में तैनी लहर का स्वभाव और प्रतिक्रिया अलग-अलग रही है।

कोरोना संक्रमण की तीसरी लहर में मरीजों का औसत सबसे ज्यादा रोजाना 3664 मरीज, राहत सिर्फ इसलिए कि अवधि और मौतें कम

इधर, प्रदेश में 1292 कोरोना संक्रमित मिले 14 मरीजों की मौत भी



1.97 करोड़ को टीके, इसलिए भी राहत | बिरोधों के अभाव में कोरोना की दूसरी लहर का समय फरवरी से सितंबर 2021 के बीच रहा। जनवरी की शुरूआत से वैक्सिनेशन शुरू हुआ। इस बीच, दूसरी लहर ने कोहराम मचा दिया। लेकिन, टीके तेजी से लगाने और स्वास्थ्य सुविधाओं में वृद्धि के बाद सितंबर आत तक दूसरी लहर पर कब्जा लिखा गया। 1.97 करोड़ लोगों को टीके लगाए गए। यह साबितरत हो चुका है और 72% में ज्यादा को दूसरा टीका भी लग चुका है।

बच्चों के लिए 149 करोड़ खर्च | तीसरी लहर बच्चों के निहाल से ज्यादा गंभीर माने जा रही थी, लेकिन इस दौरान खतरा कम रहा। दरअसल, फलो और दूसरी लहर जहां 8 से 10 महीने तक चली, वहीं, तीसरी लहर महीनेभर ही रही। डॉक्टरों के अनुसार तीसरी लहर में ज्यादातर मरीजों का इलाज फलो पर ही हो गया। गंभीर मरीज कम मिले। दोनों लहरों की तुलना में इस मास खर्च भी कम रहा। हालांकि, बच्चों के लिए अस्पताल, वीडियो, ऑनलाइन इत्यादि पर करीब 149 करोड़ खर्च किया।

कोविड मिले हैं। इसमें राष्ट्रीय के 157 संक्रमित शामिल हैं। इस बीच प्रदेश के अलग-अलग जिलों से 14 संक्रमितों की मौत हो गई है। इसमें राष्ट्रीय से मरने वाले 5 मरीजों की संख्या शामिल है। अफसरों का कहना है कि कोरोना से मरने वालों की संख्या थले ही कम हो रही है, लेकिन मौतों का सिलसिला जारी है। इस वजह से स्वास्थ्य नजरों को लेकर अलर्ट रहने के निर्देश दिए गए हैं। संक्रमण दर में निरंतर लहर से लगातार गिरावट आ रही है, उससे अनुमान लगाया जा रहा है कि आने वाले दिनों में इसमें कमी होती रहेगी।

तीसरी लहर को जागरूकता से मात

पहली लहर के समय जानकारी की कमी थी, इसलिए विकल हुई। दूसरी लहर में संक्रमण सार्वजनिक और शुरू से बेकाबू था, लेकिन फिर व्यवस्थाएं बनती गईं। टीकाकरण और जागरूकता बढ़ती गई और यही अनुभव तीसरी लहर में उभरती रही।

- डॉ. सुभाष मिश्रा,
अध्यक्ष, राज्य स्वास्थ्य विचार