

Nimbus: The Variant Next Door - A Review Article

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DOI: <https://doi.org/10.52403/ijrr.20251219>

ABSTRACT

It's 2025, and while the world has moved forward, COVID-19 continues to remind us of its unpredictable nature. Just when we think it's behind us, a new variant emerges—more infectious, harder to detect, and bringing new challenges. World is witnessing a steady rise in COVID cases again, driven by a newly evolved sub-lineage of Omicron. While symptoms are generally milder, this is not the time for complacency.

Keywords: Nimbus, COVID-19, Omnicron.

INTRODUCTION

A new COVID-19 variant has recently emerged and is drawing international attention due to its increasing prevalence, particularly in China, United States and other countries.^[1] During recent discovery two new Omicron sub-variants, NB.1.8.1 ("Nimbus") and XFG ("Stratus") has caused concern of the world. . Stratus is a combination of earlier forms of Omicron, whereas Nimbus is more contagious. Though both strains are easily infectable but still there is currently no evidence that they make individuals sicker than previous iterations but their quick spread affects individuals worldwide.^[2]

ORIGIN AND DETECTION

NB.1.8.1 was first identified as a significant driver of rising COVID-19 cases in China. The U.S. Centers for Disease Control and

Prevention (CDC) confirmed its presence in the United States, though as of late May 2025, fewer than 20 cases had been reported domestically.^[3] The World Health Organization (WHO) and multiple health authorities have noted that nimbus variant is now spreading worldwide, with cases reported in several countries including China, USA, parts of Asia. Its rapid dissemination has raised concerns about potential increases in COVID-19 cases.

CHARACTERISTICS OF VARIANT GENETIC PROFILE:

Nimbus is a subvariant of the Omicron lineage, featuring several mutations in the spike protein. These mutations may enhance its ability to evade immune responses, recent evidence suggests it does not cause more severe illness compared to previous Omicron subvariants^[4]. It is actually a recombinant mutant strain. So, the experts don't have a clear understanding, after this hybrid recombination, what kind of mutation will it undergo and its after effects.^[3]

TRANSMISSION:

Nimbus variant is highly transmissible, contributing to spikes in case numbers where it becomes dominant. It spreads more efficiently due to stronger binding with human cells.^[4] It is spreading fast, especially in places where people are gathering indoors during summers travel and events.^[5]

SYMPTOMS OF THE NEW COVID

VARIANT:

The symptoms include low-grade fever or chills, runny or blocked nose, dry cough that lingers, fatigue and mild headache, gastro symptoms like nausea, appetite loss, or diarrhea, muscle aches and body pain. Unique Symptom included a pronounced, persistent sore throat. This symptom appears to be more common or severe than in previous variants, though more research is needed to confirm this trend (sore throat) [6][5]

COVID DIAGNOSIS METHODS:

Even with mild symptoms, early testing helps prevent the spread and ensures timely care.

1. Rapid Antigen Test (RAT):

It is ideal test for quick screening. Positive = Confirmed. Negative + symptoms.

2. RT-PCR Test:

It is still the gold standard for COVID detection. Highly accurate, especially for those exposed or symptomatic.

3. Multiplex PCR Test (COVID + Flu):

It helps to rule out flu, COVID, or other respiratory infections. [7][3]

PREVENTION AND MANAGEMENT

Preventive Measures: Standard COVID-19 precautions remain effective: mask-wearing in crowded or high-risk places, nasal and hand hygiene, mouth gargle, and avoiding close contact with symptomatic individuals.

Symptom Relief: Recommended relief measures include staying hydrated. For those experiencing the unique sore throat using throat lozenges and mouth gargles, and employing humidifiers. [7]

Early treatment is critical and the most important factor in managing this disease. COVID-19 is a clinical diagnosis; a confirmed antigen or PCR test is not required. Treatment should be initiated immediately after the onset of flu-like symptoms. The multiple therapies and drugs in this protocol have different mechanisms of action and work synergistically during

various phases of the disease. At present, the Independent Medical Alliance (previously FLCCC) seems to have one of the best treatment protocols for COVID treatment. It's called I-CARE pro.

EFFECTIVENESS OF VACCINE AGAINST NIMBUS VARIANT

As the variant nimbus is new so it's too early to know exactly how effective the vaccine shots are against the variant but still scientists expect the shots to hold up well. This virus broke off from the Omicron JN.1 lineage, which the 2024-2025 vaccines target. Vaccine approved by the US FDA- Moderna, Pfizer-BioNTech, and Novavax are expected to be effective against nimbus, especially because it belongs to the omicron JN .1. [6][7]

PUBLIC HEALTH IMPLICATIONS

SURVEILLANCE AND RESPONSE:

Health agencies, including the CDC and WHO, are closely monitoring the spread and evolution of Nimbus. They emphasize the importance of genomic surveillance and international cooperation to track and respond to emerging variants.

OUTLOOK: While it is not currently associated with increased severity or hospitalizations, its rapid spread underscores the need for continued vigilance and public health readiness. [8]

Action Steps for the Public:

Stay informed through reputable health sources.

Continue practicing standard COVID-19 precautions, especially in high-risk settings. Seek medical advice if experiencing persistent or severe symptoms.

CONCLUSION

The Nimbus COVID-19 variant is contributing to a resurgence of cases in China and has been detected in many other countries like United States, parts of Asia including India. While this variant shares many characteristics with previous Omicron sub-variants, it may cause a more pronounced sore throat. Preventive measures and treatments remain effective, but global

health authorities are maintaining close surveillance to respond swiftly to any changes in the variant's behavior or impact.^[9]The emergence of the new COVID variant in 2025 is a stark reminder: the virus is evolving, and so must our awareness. With timely diagnosis, preventive care, and vaccination, we can reduce its impact on our lives and our healthcare systems. Stay informed. Stay protected. And most importantly—don't ignore the signs.

Declaration by Authors

Ethical Approval: Not applicable

Acknowledgement: None

Source of Funding: None

Conflict of Interest: No conflicts of interest declared.

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How to cite this article: Jobanjot Singh, Kanupriya. Nimbus: The Variant Next Door - A Review Article. *International Journal of Research and Review.* 2025; 12(12): 166-168. DOI: <https://doi.org/10.52403/ijrr.20251219>
