



Study reveals how bark of neem tree might help in treating and reducing the speed of corona virus

03 March 2022

Elders in our family talk at length about the benefits of neem and how it has always been in practise for treating physical ailments and diseases. According to a recent study, neem has a lot of chances to protect from coronavirus.

According to a new study led by scientists at the University of Colorado Anschutz Medical Campus and the Indian Institute of Science Education and Research Kolkata, extract from the bark of the Neem tree may help treat and reduce the spread of coronavirus.

The study was published in the journal, 'Virology'.

The study reported showed that components of Neem bark may target a wide range of viral proteins, suggesting its potential as an antiviral agent against emerging variants of coronaviruses (including SARS-CoV-2).

The Neem tree, indigenous to India, has been used for thousands of years for its anti-parasitic, anti-bacterial and antiviral properties. The bark extract has helped treat malaria, stomach and intestinal ulcers, skin diseases and many other diseases.

"The goal of this research is to develop a Neem-based medication that can reduce the risk of serious illness when someone is infected with coronaviruses," said study co-author Maria Nagel, MD, research professor in the department of neurology and ophthalmology at the University Of Colorado School Of Medicine on the CU Anschutz Medical Campus.

"We hope that scientists won't have to continuously develop new therapies every time a new SARS-CoV-2 variant emerges," she said. "Just like how we take penicillin for strep throat, we envision taking the Neem-based drug for COVID, allowing us to resume our normal lives without fear of hospitalization and death."

The scientists investigated the impact of the bark extract against coronaviruses in their laboratories. In India, researchers tested it in animal models and showed that it had antiviral properties against coronavirus. Using computer modeling, the researchers predicted that Neem bark extract will bind to the SARS-CoV-2 spike protein at various locations, preventing virus entry to host cells.

At CU Anschutz, Nagel's lab tested the Neem bark extract in SARS-CoV-2 human lung cells. It proved as effective as a preventive drug for infection and also decreased virus replication and spread after infection.

"The next step in our research is to identify the specific components in Neem bark extract that are antiviral. Because these components bind to various regions of SARS-CoV-2, we believe that it will be effective on emerging variants with spike mutations," said Nagel. "We will then determine the formulation of dosage for an antiviral drug to treat coronavirus infections."

The scientists said this research could guide new antiviral therapeutic efforts to combat the ongoing pandemic while holding out the promise for treating new coronavirus strains.

Source: <https://www.india.com/health/study-reveals-how-bark-of-neem-tree-might-help-in-treating-and-reducing-the-speed-of-coronavirus-5266982/>