

# 8<sup>th</sup> International conference on Neurological Disorders and stroke

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## Exposure to ambient ultra-fine particles and stroke

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**Aim:**To show the increase of 10µg/m<sup>3</sup> of PM<sub>2.5</sub> exposure per day was significantly related with rise of .31 in Stroke.

Stroke is one of the main causes of death attributed to air pollution. Significant research has now shown that urban air pollutants exposure has been established as a source of neuroinflammation and oxidative stress that causes central nervous system (CNS) disease. Transition metals, particulate matter (PM) including fine particles (PM ≤ 2.5µm, PM 2.5) and ultra-fine particles (UFPs, PM <0.1µm, PM 0.1), nitrogen oxide, and ozone are potent or oxidant that capable of producing reactive oxygen species (ROS) can reach the brain and affect CNS health. Numerous biological mechanisms are responsible that are not well understood. Recent studies suggest that changes in the blood-brain barrier (BBB) and or leakage and transmission along the olfactory nerve into the olfactory bulb (OB) and microglial activation are the key factors of CNS damage following exposure to air pollution. This preliminary review cites evidence that ambient PM exposure is one of the causes of stroke.

### Biography

Prasanna has completed her Bachelor of pharmacy from the MNR college of Pharmacy. And now she continues his research on Impurity profiling of Molnupiravir using GCMS. she has done several projects on the Docking.

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