

**PRO-Media Coordinator's Office  
Jamia Millia Islamia**

October 1, 2020

Press Release

**JMI Professor coordinating the team developing SURIG, a Nasal Spray to prevent  
infection from Coronavirus**

Head of the Department of Electrical Engineering, Jamia Millia Islamia (JMI), Professor Munna Khan, who specializes in Biomedical Engineering is providing scientific coordination towards the development of the SURIG (acronym for SARS-CoV-2; Unified Resistive and Inhibitory Gate), a nasal spray to prevent COVID-19 disease.

According to Prof. Khan, under the mentorship of Director General Medical Services (DGMS) (Air) researchers at IIT Delhi, JMI, AIIMS, Centre for Cellular and Molecular Biology (A CSIR laboratory in Hyderabad), Armed Forces Medical College, Pune, Shiksha-O-Anusandhan University, Bhuvaneshwar and IIT Kharagpur have discussed a development protocol of low cost, easily affordable and user friendly SURIG, and aims to deliver it for testing in one year from now.

SURIG will function on the theory that many common compounds like Honey, Camphor derivatives, Hydrogen Sulphide- a constituent of Black Salt, Eucalyptus oil and others can inactivate Corona virus outside the body.

In medical science the air space from the nose right to the alveoli (small air bags) in the lungs provides the passage for the virus to enter the body. Scientific reports suggest that Corona virus which gets past the protective face mask worn by a person and enters in this passage; remain there for some time before entering the tissue/blood stream.

SURIG will be introduced in this passage by inhalation, forming an implant (deposit) on the surface of this passage. Virus getting past the face mask will be inactivated before it enters the tissue/blood stream.

**Ahmad Azeem**  
PRO-Media Coordination

