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IIT BBS study confirms a social distancing of 6ft to prevent Covid-19 transmission –

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BHUBANESWAR: An IIT Bhubaneswar study confirmed and in addition beneficial that a social distancing of six toes from all orientations can prevent transmission of Covid-19.

Venugopal Arumuru, assistant professor, faculty of mechanical science (SMS), and his group at IIT Bhubaneswar has carried out this study on the efficacy of varied non-normal and normal face masks below the act of sneezing.

The study highlighted that the protecting measures like face masks and face defend successfully scale back the leakage and attain of the sneeze inside 1ft to 3ft. However, they don't utterly cease the leakage of smaller droplets. Hence, social distancing is equally essential.

The study beneficial utilizing the elbow or hand to prevent droplets leakage even after carrying a masks throughout coughing and sneezing. The study confirmed that with out protectives measures like a face masks, the smaller droplets expelled throughout a sneeze can journey up to 25ft in 22 second in a stagnant surroundings.

During this Covid-19 state of affairs, this study will enhance the understanding of smaller droplets/particles' dynamics in turbulent flows, which causes transmission of the virus. "These visualization results will bring awareness to wear a mask and maintain social distancing for the general public," mentioned the study.

IIT Bhubaneswar director RV Rajakumar whereas congratulating the group mentioned the significance of social distancing is clearly evident from this study. "These results will not only spread awareness but will motivate researchers to bring innovation to face mask design," he added.

The peer-reviewed article has been chosen as a featured article in Physics of Fluids Journal by the American Physical Society.

Arumuru mentioned their circulation visualization study reveals how smaller particles escape from the varied face masks and the way far they journey throughout sneezing. The significance of social distancing is visually evident from this study, which is able to educate most of the people on the significance of the face masks and social distancing to prevent transmission of Covid-19, he added.

"Our proposed simple experimental setup can be used to test new face mask designs. The sneeze is simulated at the exit of the nose of a standard mannequin, using air and tracer particles," mentioned Arumuru.

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