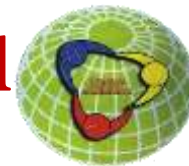




Media Scanning & Verification Cell



Media alert from the Media Scanning & Verification Cell, IDSP-NCDC.

Alert ID	Publication Date	Reporting Date	Place Name	News Source/Publication Language
6656	18.04.2022	19.04.2022	Hyderabad Telangana	www.timesofindia.com/English https://timesofindia.indiatimes.com/city/hyderabad/norovirus-detected-in-kids-under-5/articleshowprint/90900226.cms
Title:	Norovirus detected in kids under 5 in Hyderabad, Telangana			
Action By CSU, IDSP -NCDC	Information communicated to DSU – Hyderabad, SSU- Telangana			

Researchers of Gandhi Hospital and Ella Foundation says a new variant of Norovirus has been seen among paediatric gastroenteritis patients in the city. Noroviruses causes acute diarrhoea in all age groups.

WINTER VOMITING BUG

➤ Norovirus is single-stranded positive-sense RNA virus

➤ Genogroups I, II, & IV are associated with human infections



➤ GII.4 variants have been reported as the primary cause of global gastroenteritis pandemics since 1995

➤ Noroviruses GII.4 variants appear almost every two years

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Disclaimer:- This is a media alert subject to verification.

Integrated Disease Surveillance Programme (IDSP), National Centre for Disease Control,
Ministry Of Health & Family Welfare, Government of India

22-Sham Nath Marg, Delhi – 110 054

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Microbiologists conducted a study for Norovirus in children below five years in city. The stool samples and clinical data were collected from 458 children below five years of age and control group.

Nearly 10.3% of children and 3.2% of the control group were found to be Norovirus positive, when samples were tested using ELISA, RT-PCR and Norovirus sequencing.

The research titled “Molecular epidemiology of norovirus variants...” was conducted by Nagamani, Manisha, Sushma Rajyalakshmi, Sunitha of the department of microbiology, Gandhi Hospital and Vishnuvardhan Reddy, Panduranga Rao of Ella Foundation, Bharath Biotech.

The study revealed, “Norovirus has been classified into ten genogroups, GI to GX with 48 genotypes. Predominant genotypes were GII-82%, followed by GI-12.5%. The GII.4 genotype has evolved with pattern of periodic variant replacement.”

“All the strains belonged to a single cluster of Norovirus GII.4, which was distinct from the GII.4 strains. The highest occurrence of infection was observed in the age group of seven months to two years, with a median age of one year. Seasonal variation was also observed, with peak in winter months. In addition, we reported a new GII.4 cluster, which may be responsible for increasing the occurrence of Norovirus,” the researchers stated.

Researchers suggested that the Norovirus GII strain could spread globally within months after its emergence.

“Phylogenetic analyses of 20 GII.4 Norovirus strains revealed clustering of all of the isolates away from published GII.4 variants, suggesting the appearance of a new variant. Further genomic sequencing is required to characterise the new variant fully,” the study said.

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