







August 15, 2022

The INSACOG conducts genomic surveillance of SARS-CoV-2 across the country through sequencing of samples from Sentinel sites and international passengers arriving in India. A summary of the cumulative data of INSACOG and other state sequencing initiatives can be found at the INSACOG data portal link along with other INSACOG information at https://ibdc.rcb.res.in/

INSACOG:

Total number of samples sequenced is 244,733

Samples sequenced by IGSLs under State government MoUs: 34,763

Total number of samples sequenced: 279,496

The number of samples with pangolin lineage assigned are given below:

Table 1: Cumulative samples with pangolin lineage assigned (as on 12.08. 2022)										
Community sample	Travelers sample	Total pangolin lineage assigned	Total VOC/VOI	Proportion						
169607	12285	181892	147897	81.3						

	Distribution of VOC and B.1.617.1 & B.1.617.3 (as on 12-08-2022)																							
Alpha Variant		Beta Variant		Gamma Variant		Delta Variant		B.1.617.1 and B.1.617.3			AY Series		Omicron			XE	XM	XJ Variant	Total VOC/VOI					
Tr&Co	Com	Total	Tr&Co	Com	Total	Tr&Co	Com	Total	Tr&Co	Com	Total	Tr&Co	Com	Total	Tr&Co	Com	Total	Tr&Co	Com	Total	Variant	Variant		·
577	3690	4267	117	104	221	1	2	3	387	43571	43958	84	5540	5624	227	20236	20463	5895	67138	73356	1	2	2	147897
Tr&Co=Ti	Tr&Co= Travelers and contacts ; Com= Community samples																							











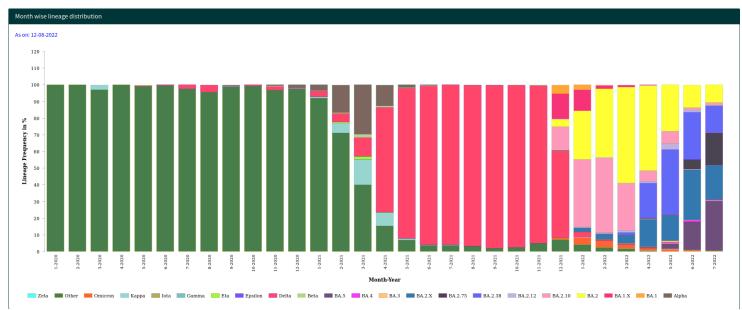
Global Scenario

Globally, the number of weekly cases decreased by 9% during the last week as compared to the previous weeks. The Omicron VoC remains the dominant variant circulating globally. Among Omicron sequences, BA.5 Omicron descendent lineage continued to be dominant globally, with a weekly prevalence that increased from 63.8% to 69.6%. Conversely, within the same time period, BA.4 decreased from 10.8% to 9.1%, BA.2.12.1 decreased from 2.4% to 1.3% and BA.2 decreased from 1.4% to 1.0%. BA.5 descendent lineages (BA.5.X) are increasing in diversity, with additional mutations in spike and non-spike regions.

Several other sub lineages of Omicron like BA.2.75 are under close observation, with earliest sequences reported from May 2022. BA.2.75 has nine additional mutations in the spike compared to BA.2. There is no evidence yet of the extent to which these mutations impact on transmissibility and disease severity compared to other circulating lineages.

Indian Scenario

Omicron sub lineages BA.2, BA.2.38 and BA.2.75 have been mostly found over the last few weeks. However, an increase in BA.5 and its sub-lineages has been also observed over the last few weeks. The spread and frequency of BA.2.75 sub lineage is being closely monitored. However, no surge in hospitalization or any disease severity has been observed during this time period. The below graph presents a cumulative country-wide scenario.



*BA.5 in the graph includes its sub-lineages also.

Different regions of the country are witnessing variation in the circulating sub-lineages.

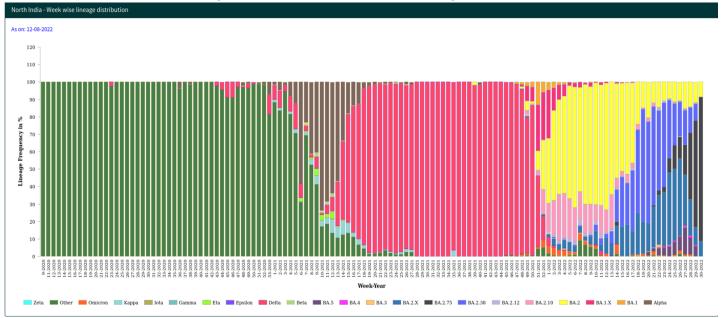


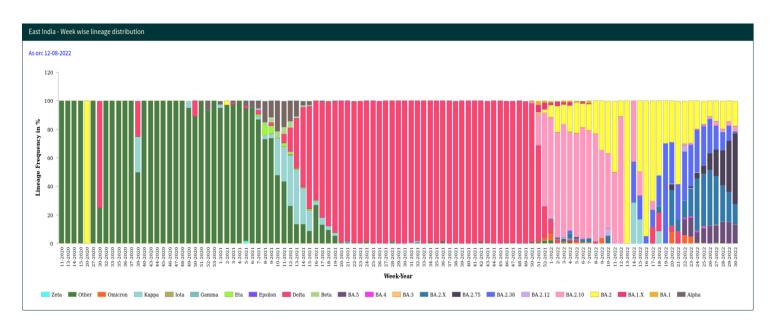






In the North, East and Central regions, BA.2.75 is the dominant lineage.





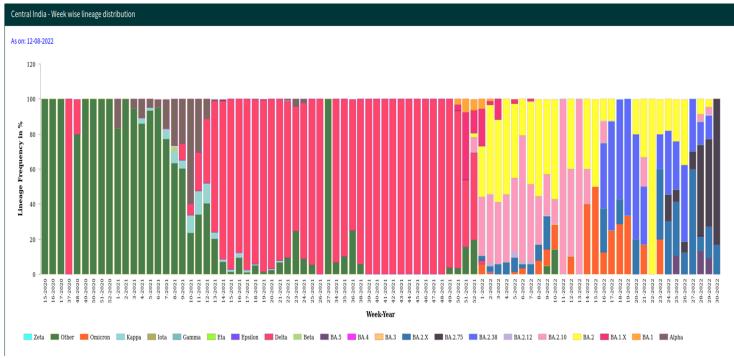
*BA.5 in the graph includes its sub-lineages also.



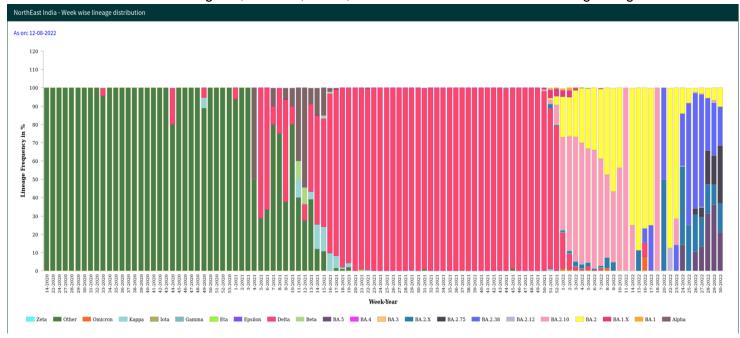








In the North- East and West regions, BA.2.75, BA.5*, BA.2.38 and BA.2 are the circulating lineages.



*BA.5 in the graph includes its sub-lineages also.

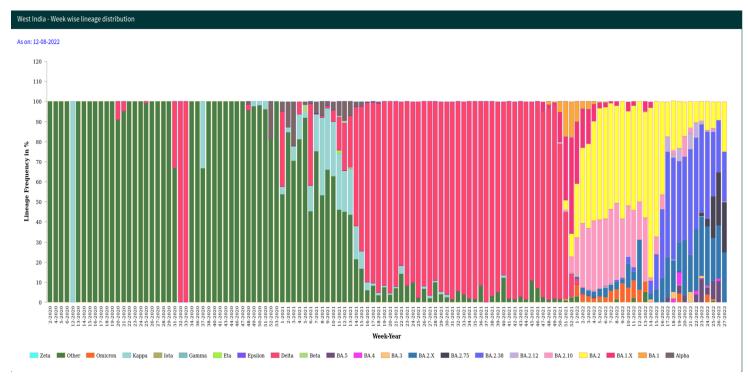












In South region, BA.2.75 seems to be competing with BA.5* which was the most prevalent lineage until previous week.

