

INSACOG BULLETIN

August 22, 2022

The INSACOG reports 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 in the INSACOG data portal along with other INSACOG related information at <https://ibdc.rcb.res.in/>

INSACOG:

- Total number of samples sequenced is 245,167

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

Total number of samples sequenced: 279,930

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

Table 1: Cumulative samples with pangolin lineage assigned (as on 19.08. 2022)				
Community sample	Travelers sample	Total pangolin lineage assigned	Total VOC/VOI	Percentage
171323	12285	183608	149533	81.4

Distribution of VoC and B.1.617.1 & B.617.3 (as on 19-08-2022)																								
Alpha Variant			Beta Variant			Gamma Variant			Delta Variant			B.1.617.1 and B.1.617.3			AY Series			Omicron			XE Variant	XM Variant	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				
577	3690	4267	117	104	221	1	2	3	387	43571	43958	84	5540	5624	227	20236	20463	5895	68774	74992	1	2	2	
Tr&Co= Travelers and contacts; Com= Community samples																								

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Global Scenario

Globally, the number of new weekly cases decreased by 24% during last week as compared to the previous week. The number of new weekly deaths decreased by 6%, as compared to the previous week. The Omicron variant of concern (VOC) remains the dominant variant circulating globally.

BA.5 and its descendent lineages continue to rise as compared to other descendent lineages. The incidence of BA.4.X is 8%, representing a declining trend as compared to previous weeks. Whereas, BA.1.X, BA.2.X (incl. BA.2.12.1 and BA.2.75) and BA.3.X have an incidence of <1%, 3% and <1%, respectively, during last week. Among the Omicron descendent lineages that continue to emerge is BA.2.75, with the earliest sequences reported in May 2022. This variant, currently an Omicron subvariant under monitoring, has nine additional mutations in the spike as compared to its parent lineage BA.2; four of these mutations are within the receptor binding domain (RBD), and at least one of these RBD mutations has been associated with immune escape in previous variants.

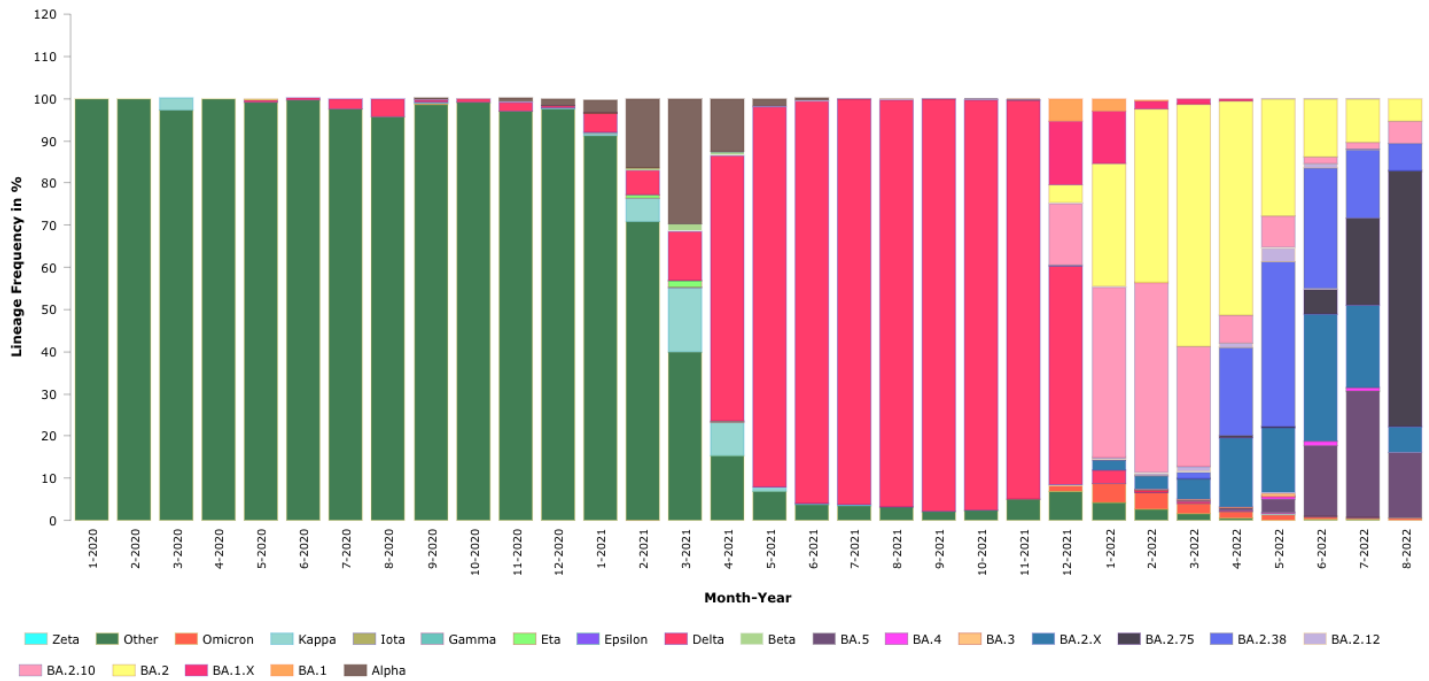
Indian Scenario

Omicron and its sub-lineages continue to be the dominant variant in India. BA.2 and its descendent lineages continue to increase. In particular, BA.2.75 has been mostly found over the last week. The incidence of BA.5 has decreased in the last week compared to the previous week. However, any surge in hospitalization or any disease severity has not been observed during this time-period.

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Month wise lineage distribution

As on: 19-08-2022



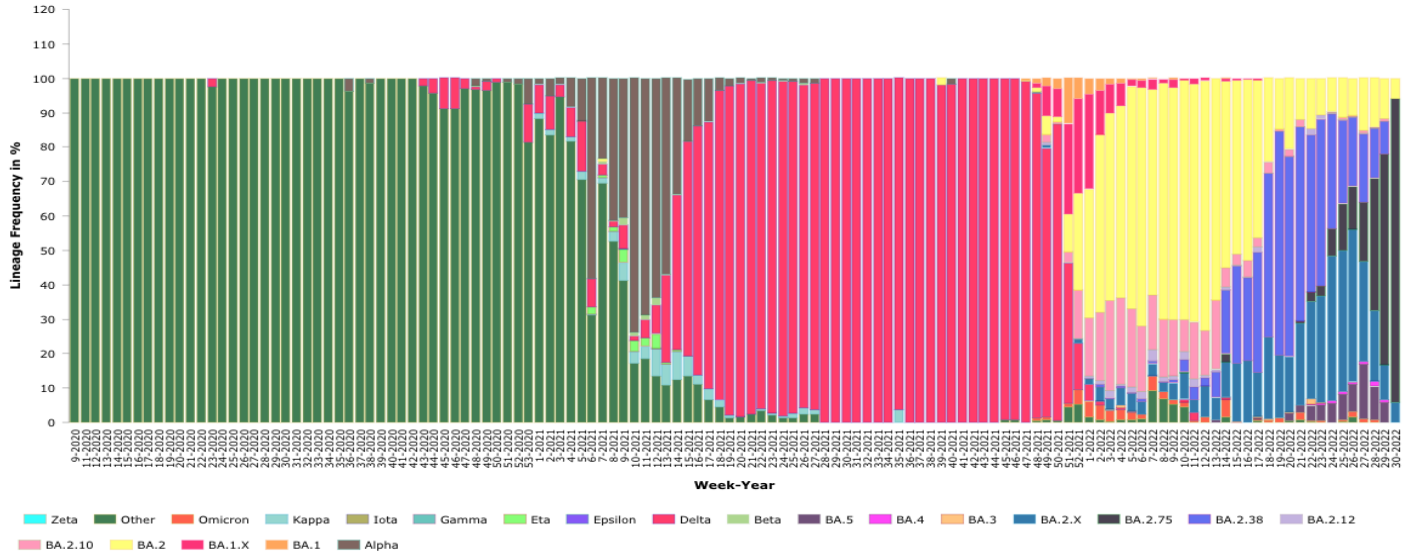
*BA.5 in the graph includes its sub-lineages also.

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

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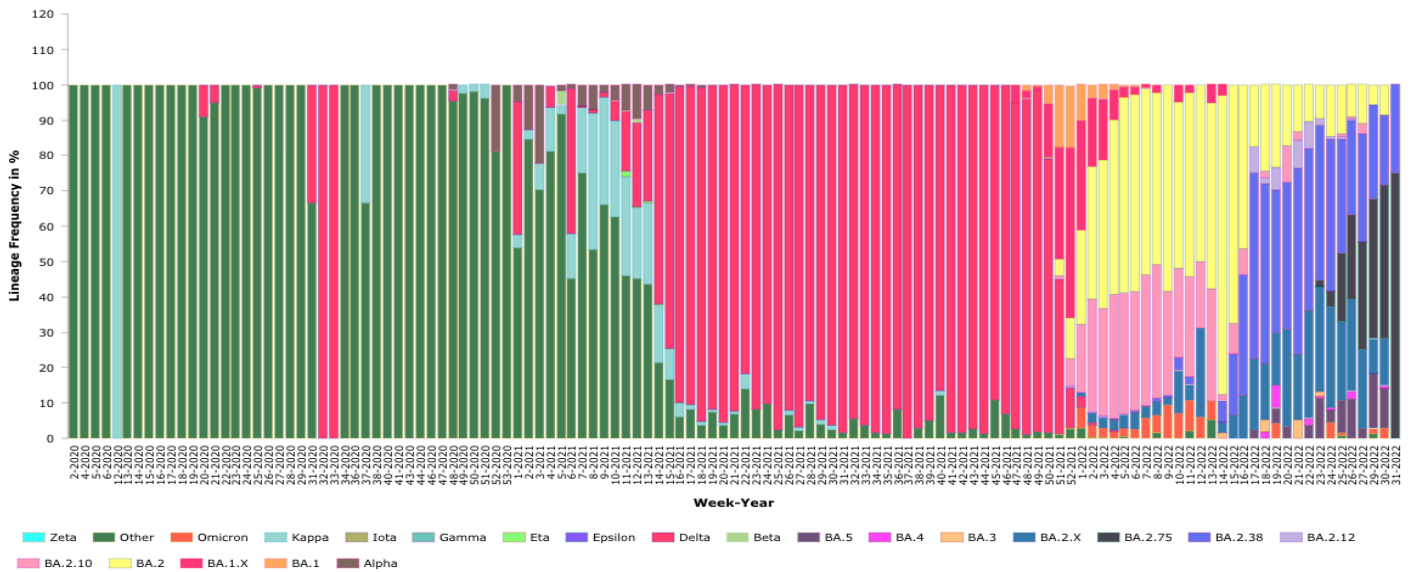
North India - Week wise lineage distribution

As on: 19-08-2022



West India - Week wise lineage distribution

As on: 19-08-2022

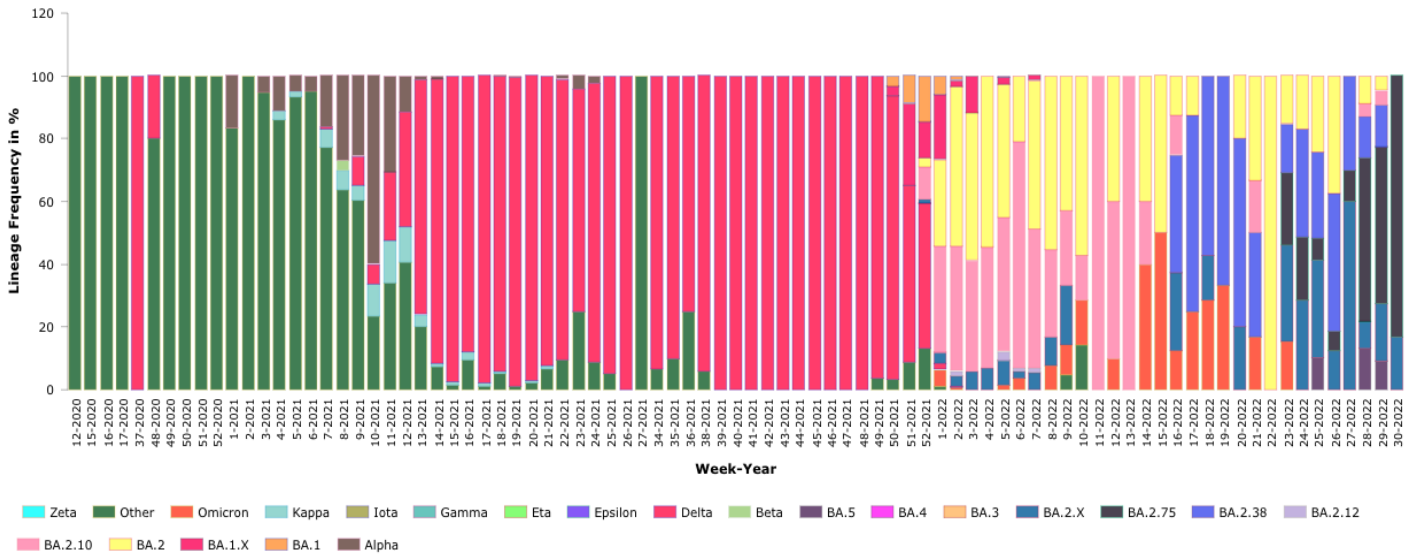


*BA.5 in the graph includes its sub-lineages also.

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Central India - Week wise lineage distribution

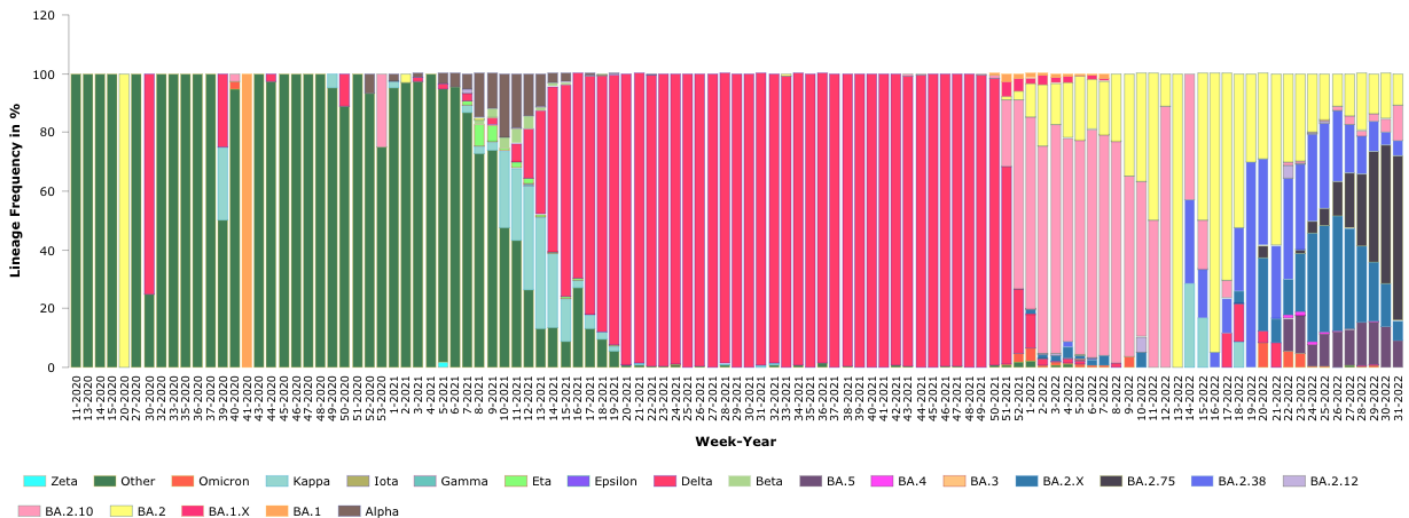
As on: 19-08-2022



In the East and North- East regions, BA.2.75 is the dominant lineage, however BA.2, BA.2.38, BA.5* continue to be in circulation in low frequency.

East India - Week wise lineage distribution

As on: 19-08-2022



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

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NorthEast India - Week wise lineage distribution

As on: 19-08-2022



In the South region, BA.2.75 is the dominant lineage, followed by BA.5*; however its prevalence seem to be on a decline in comparison to previous months.

South India - Week wise lineage distribution

As on: 19-08-2022



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