

# INSACOG BULLETIN

12 December, 2022

The INSACOG reports genomic surveillance of SARS-CoV-2 by whole genome sequencing of samples from sentinel sites across the country 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 269,145

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

**Total number of samples sequenced: 303,908**

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

Table 1: Cumulative samples with pangolin lineage assigned (as on 09.12.2022)

Community sample	Travelers sample	Total pangolin lineage assigned	Total VOC/VOI	Percentage
184651	12285	196936	162343	82.4

Distribution of VOC/VOI and B.1.617.1 & B.1.617.3 (as on 09-12-2022)

Alpha Variant			Beta Variant			Gamma Variant			Delta Variant			B.1.617.1 and B.1.617.3			AY Series			Omicron			Recombinant											XE Variant	XM Variant	XT Variant	XU 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	XAR	XAH	XBB	XBB.1 1	XBB.1 3	XBB.2	XBB.3 1	XBB.4	XBB.5	XBD	OTHERS							Total		
577	3690	4267	117	105	222	1	2	3	387	43575	43962	84	5540	5624	227	20248	20475	5952	80520	86795	2	1	348	121	2	2	160	288	5	8	25	6	16	984	1	2	0	6	2	162343
Tr&Co= Travelers and contacts ; Com= Community samples																																								

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## Global Scenario

Globally, the number of new weekly cases decreased by 3% during last week as compared to the previous week, with over 2.4 million new cases reported. The number of new weekly deaths decreased by 17% as compared to the previous week<sup>[1]</sup>. During last week, BA.5 descendent lineages remained dominant, with a prevalence of 70.1%; followed by BA.2 descendent lineages, with a prevalence of 10.5%. BA.4 descendent lineages continued to decline in prevalence, going from 2.8% to 2.0% during the same reporting period. Among the Omicron subvariants under monitoring, an increase from 27.6% to 36.2% for BQ.1 and its descendent lineages was observed. During the same period, the prevalence of XBB and its descendent lineages increased from 4.2% to 5.0%. BA.2.75 increased from 6.8% to 7.8%, while BA.4.6 decreased from 2.5% to 1.7%.

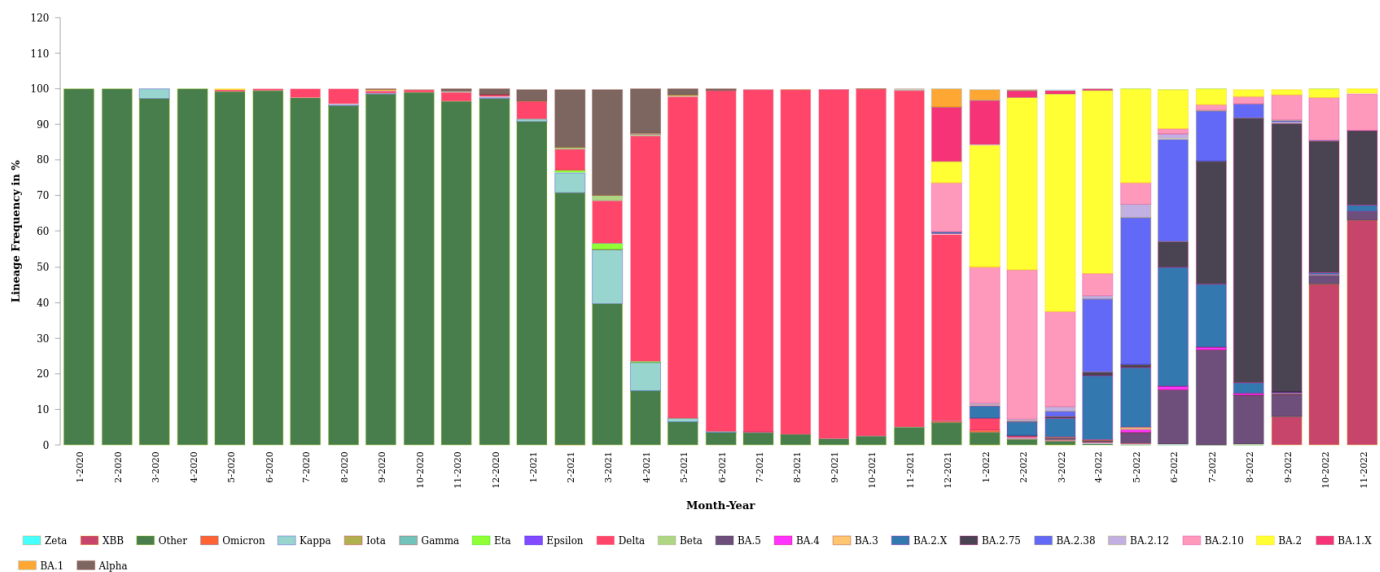
## Indian Scenario

Omicron and its sub-lineages continue to be the dominant variant in India. XBB is the most prevalent sub lineage (63.2%) circulating all over India. BA.2.75 and BA.2.10 were also circulating in lesser extent. Especially, in North-East India, BA.2.75 is the prevalent sub lineage. However, any increase in disease severity or hospitalization has not been observed over this period.

## Country wide analysis:

Month wise lineage distribution

As on: 09-12-2022



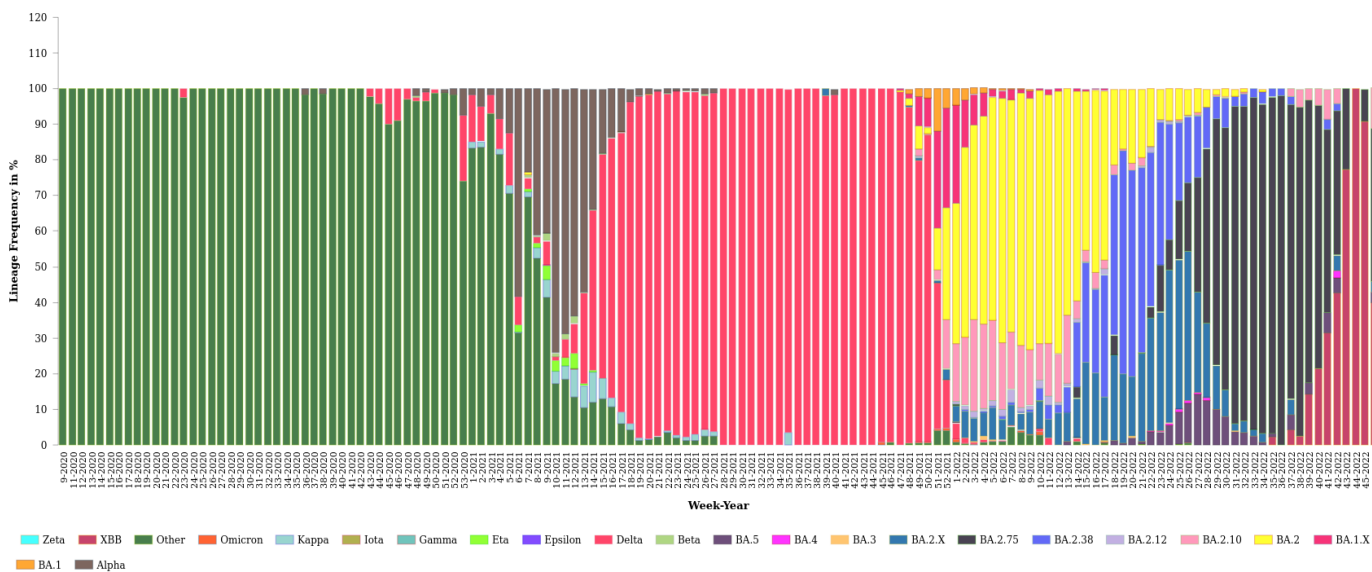
\*BA.5 in the graph includes its sub-lineages also.

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## Region-wise analysis:

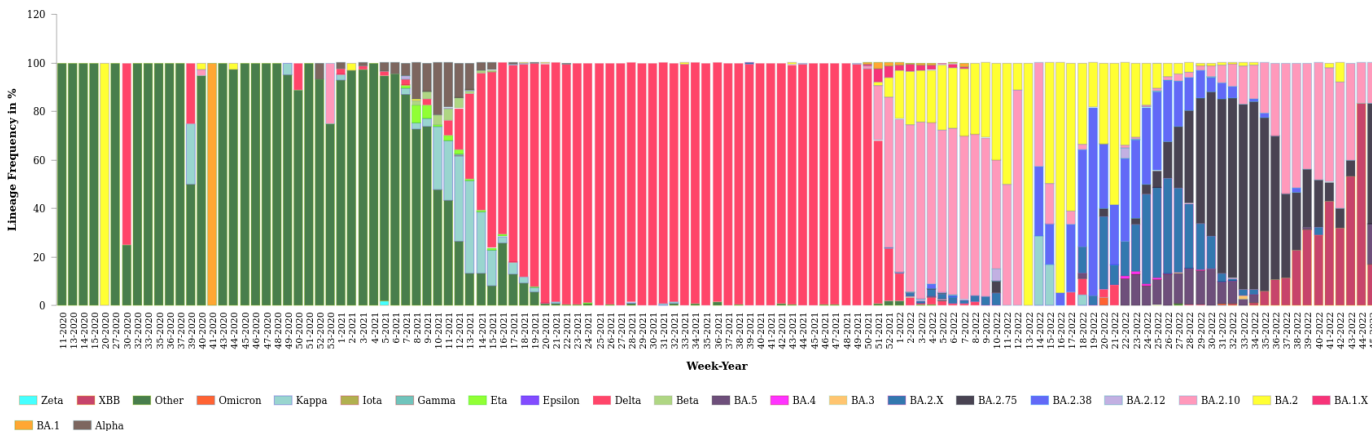
### North India - Week wise lineage distribution

As on: 09-12-2022



### East India - Week wise lineage distribution

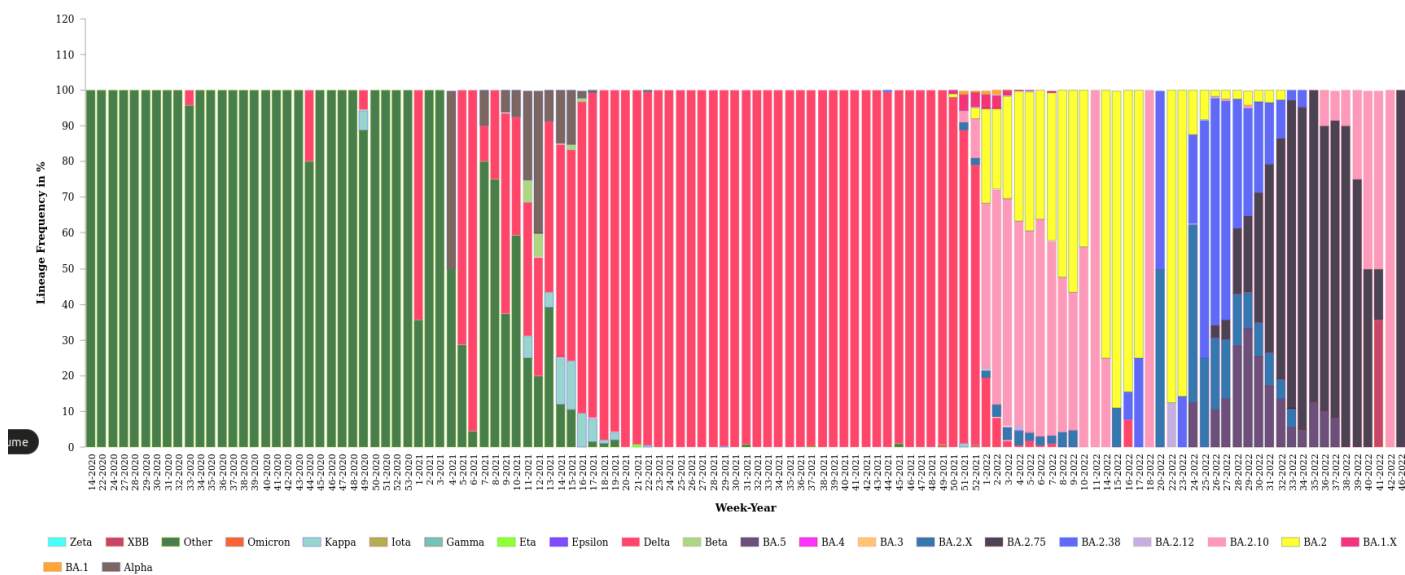
As on: 09-12-2022



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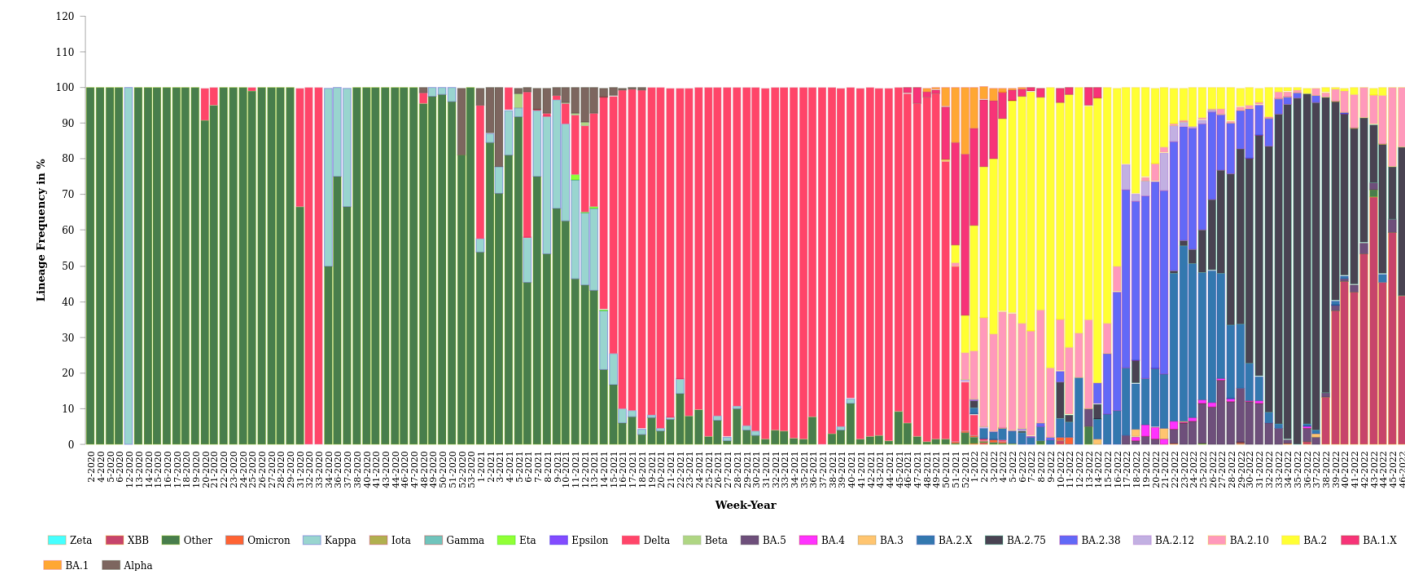
## NorthEast India - Week wise lineage distribution

As on: 09-12-2022



## West India - Week wise lineage distribution

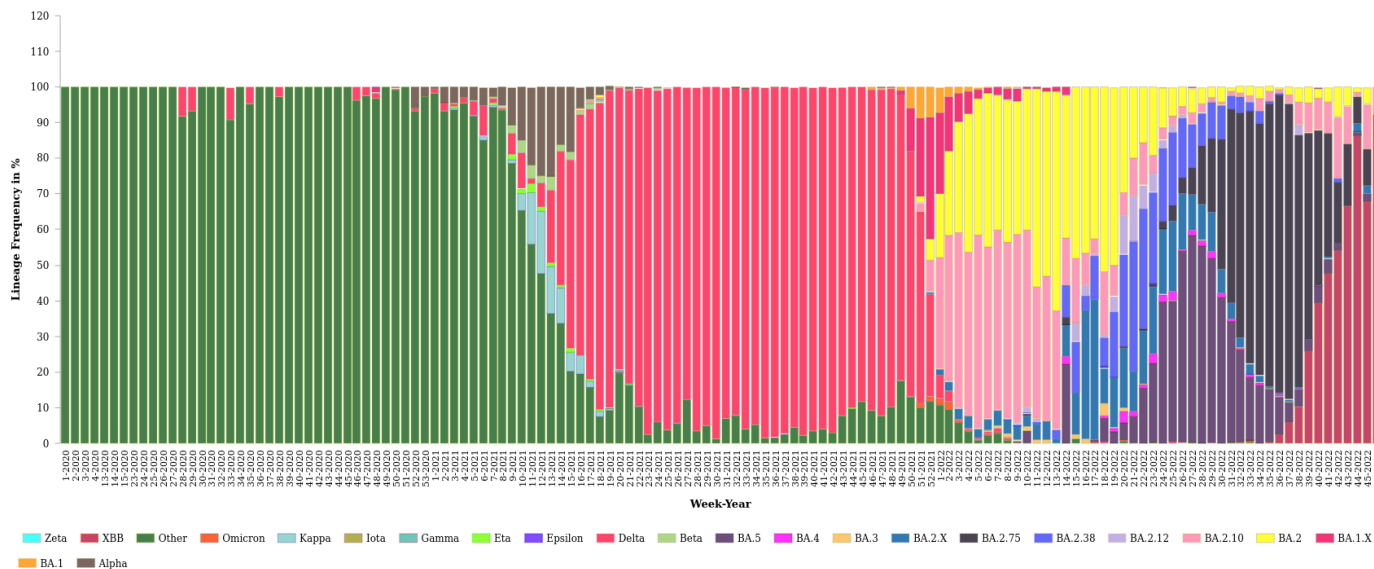
As on: 09-12-2022



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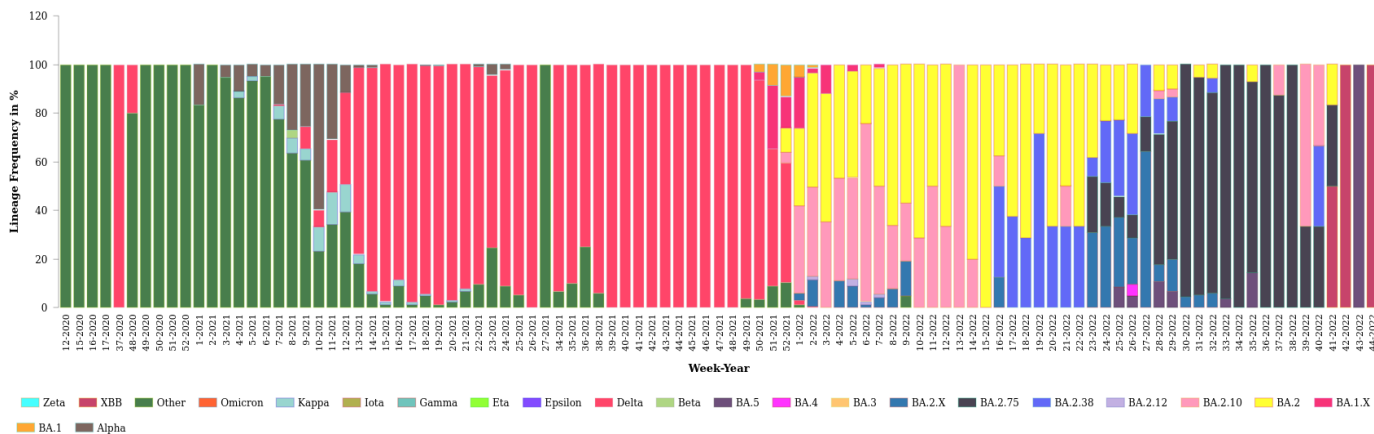
## South India - Week wise lineage distribution

As on: 09-12-2022



## Central India - Week wise lineage distribution

As on: 09-12-2022



## Reference:

1. WHO weekly epidemiological report.