

# INSACOG BULLETIN

5 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 268,604

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

**Total number of samples sequenced: 303,367**

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

Table 1: Cumulative samples with pangolin lineage assigned (as on 02.12.2022)

Community sample	Travelers sample	Total pangolin lineage assigned	Total VOC/VOI	Percentage
184326	12285	196611	162018	82.4

Distribution of VOC/VOI and B.1.617.1 & B.1.617.3 (as on 02-12-2022)

Alpha Variant			Beta Variant			Gamma Variant			Delta Variant			B.1.617.1 and			AY Series			Omicron			Recombinant										XE Variant	XM 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.2 2	XBB.3 3	XBB.3 .1	XBB.4	XBB.5	XBD						OTHER S	Total	
577	3690	4267	117	105	222	1	2	3	387	43575	43962	84	5540	5624	227	20248	20475	5952	80310	86585	2	1	336	101	2	130	247	5	7	16	6	16	869	1	2	6	2	162018

Tr&Co= Travelers and contacts ; Com= Community samples

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## Global Scenario

Globally, the number of new weekly cases decreased by 5% 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 13% as compared to the previous week<sup>[1]</sup>. During last week, BA.5 descendent lineages remained dominant, with a prevalence of 72.1%; followed by BA.2 descendent lineages, with a prevalence of 9.2%. BA.4 descendent lineages continued to decline in prevalence, going from 3.6% to 3.0% during the same reporting period. Till date, BQ.1 and XBB (a recombinant of BA.2.10.1 and BA.2.75) and their descendent lineages have been reported from 73 and 47 countries, respectively. A comparison of sequences submitted globally during last week shows a rise in BQ.1 sequences from 19.1% to 23.1%. Similarly, the prevalence of XBB sequences also increased, rising from 2.0% to 3.3%.

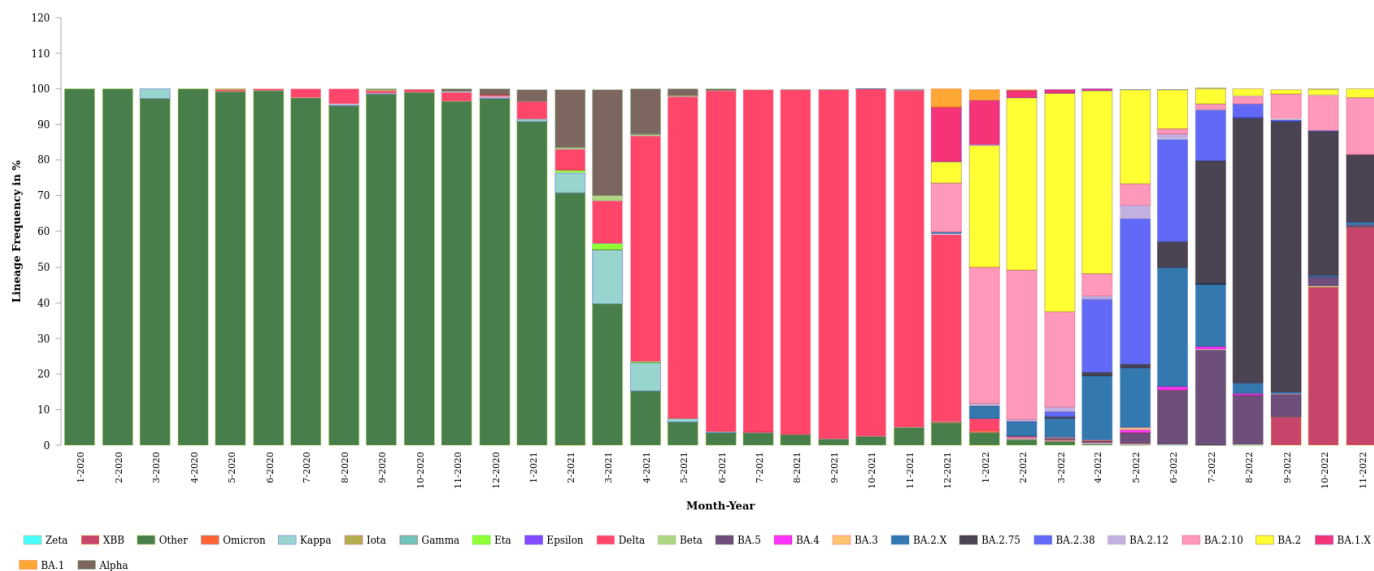
## Indian Scenario

Omicron and its sub-lineages continue to be the dominant variant in India. Overall, the infection rate is below 500 per day. In Northern part of India, XBB was prevalent whereas in Eastern part, BA.2.75 was the prevalent sub lineages. BA.2.10 and other omicron sub lineage frequency was lower in last week. However, any increase in disease severity or hospitalization has not been observed over this period.

## Country wide analysis:

### Month wise lineage distribution

As on: 02-12-2022



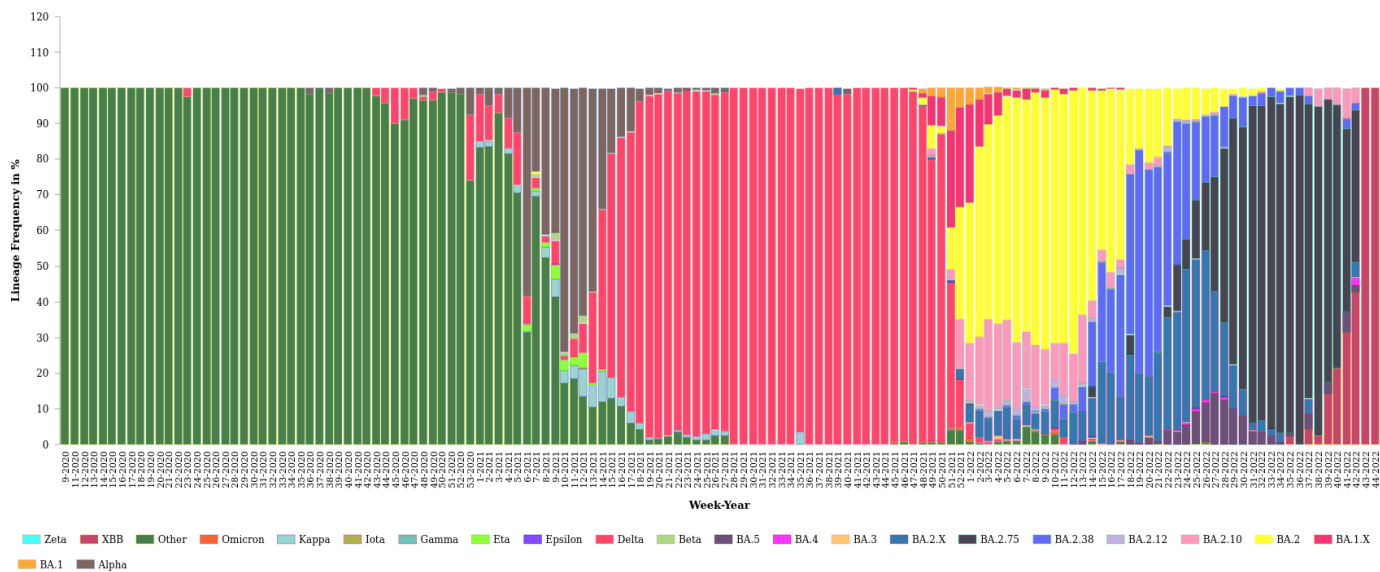
\*BA.5 in the graph includes its sub-lineages also.

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## Region-wise analysis:

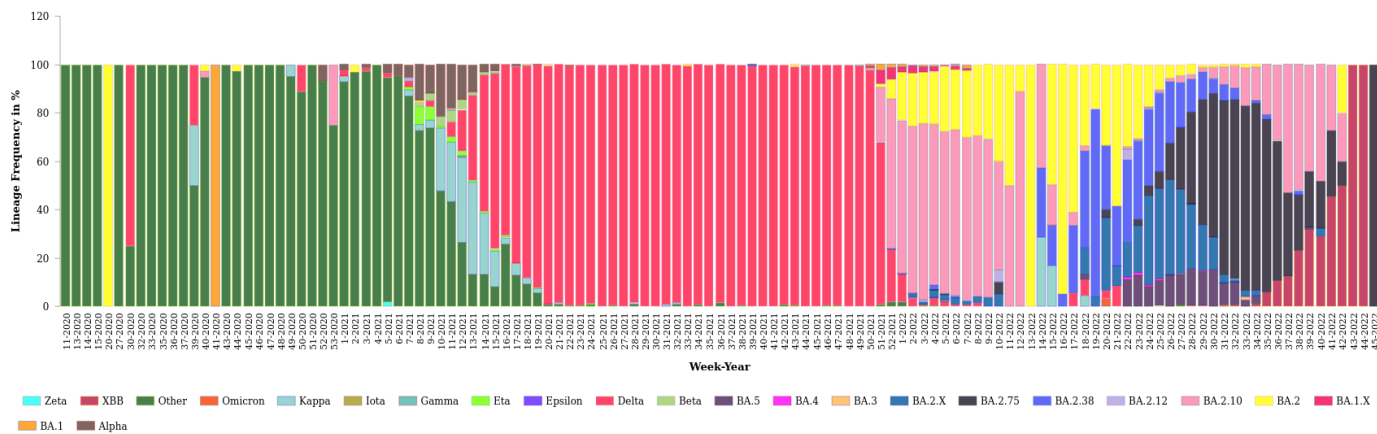
### North India - Week wise lineage distribution

As on: 02-12-2022



### East India - Week wise lineage distribution

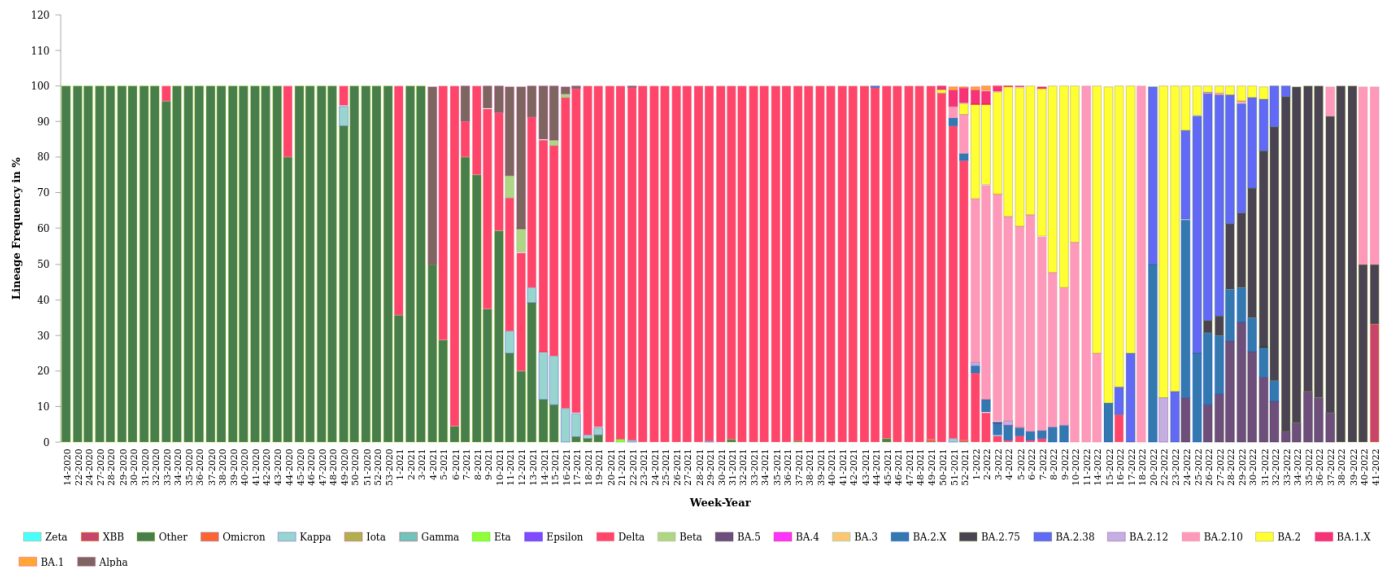
As on: 02-12-2022



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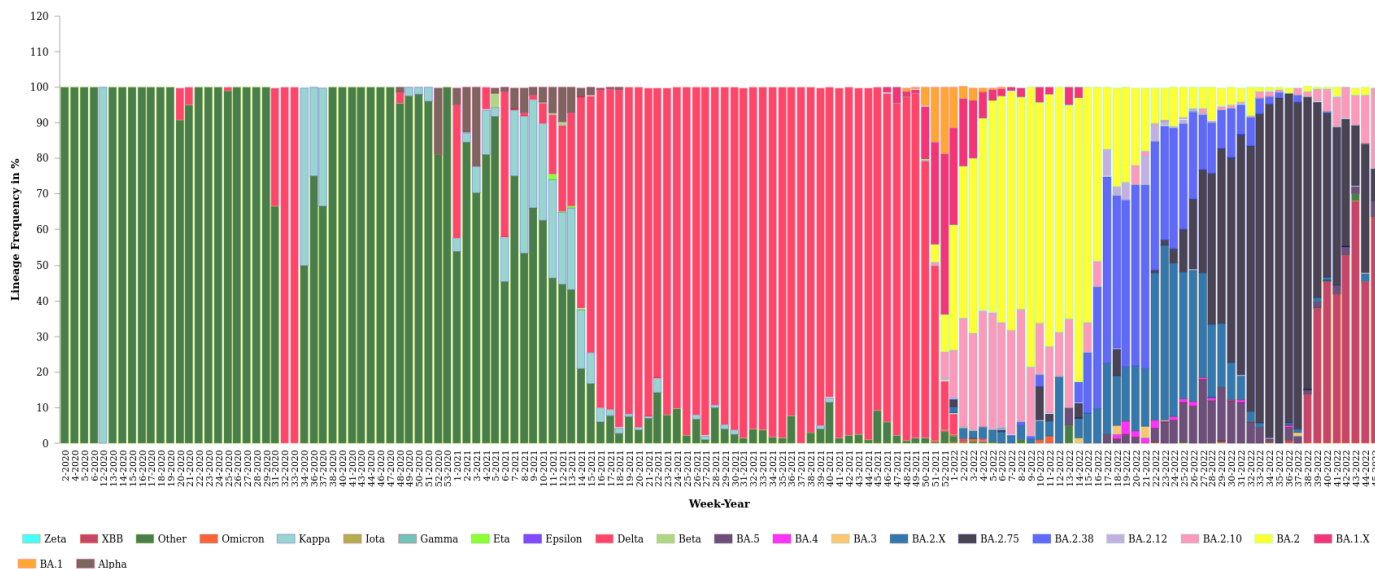
## NorthEast India - Week wise lineage distribution

As on: 02-12-2022



## West India - Week wise lineage distribution

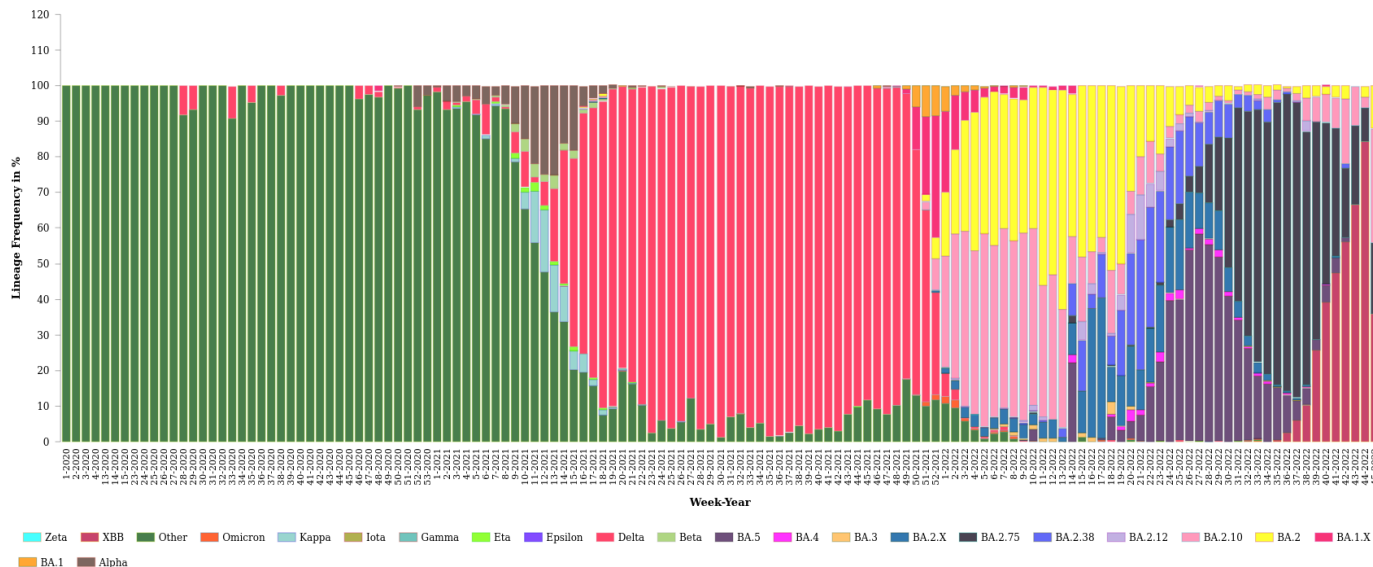
As on: 02-12-2022



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## South India - Week wise lineage distribution

As on: 02-12-2022



## Central India - Week wise lineage distribution

As on: 02-12-2022



## Reference:

1. WHO weekly epidemiological report.