INSACOG BULLETIN

15th May, 2023

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 289,696

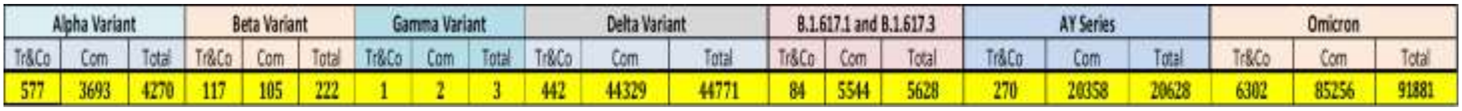
Samples sequenced by IGSLs under State government MoUs: 35,441

Total number of samples sequenced: 325,137

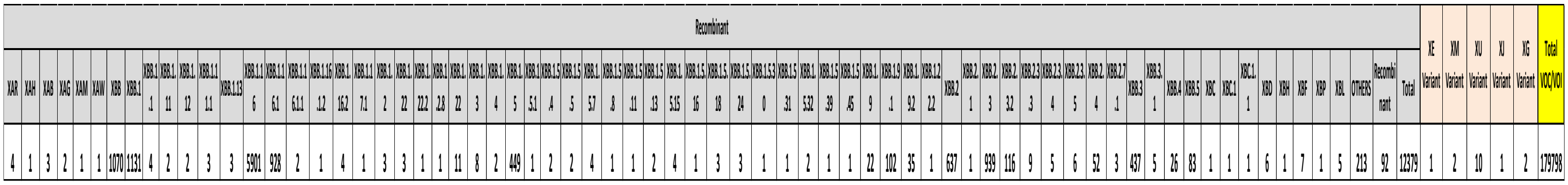
The number of samples with pangolin lineages assigned are given below:

Table 1: Cumulative samples with pangolin lineage assigned (as on 12.05.2022)

Community sample	**Travelers sample**	**Total pangolin lineage assigned**	**Total VOC/VOI**	**Percentage**
202572	**12526**	**215098**	**179798**	**83.6**



Alpha Variant			Beta Variant			Gamma Variant			Delta Variant			B.1.617.1 and B.1.617.3			AY Series			Omicron		
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	3693	4270	117	105	222	1	2	3	442	44329	44771	84	5544	5628	270	20358	20628	6302	85256	91881



Recombinant																											
XAR	XAH	XAB	XAG	XAM	XAW	XBB	XBB.1	XBB.1.1	XBB.1.11	XBB.1.12	XBB.1.11.1	XBB.1.13	XBB.1.16	XBB.1.16.1	XBB.1.16.1.1	XBB.1.16.1.2	XBB.1.16.2	XBB.1.17.1	XBB.1.2	XBB.1.22	XBB.1.22.2	XBB.1.2.8	XBB.1.22	XBB.1.3	XBB.1.4	XBB.1.5	XBB.1.5.1
4	1	3	2	1	1	1070	1131	4	2	2	3	3	5901	928	2	1	4	1	3	3	1	1	11	8	2	449	1

Recombinant																									
XBB.1.5.4	XBB.1.5.5	XBB.1.5.7	XBB.1.5.8	XBB.1.5.11	XBB.1.5.13	XBB.1.5.15	XBB.1.5.16	XBB.1.5.18	XBB.1.5.24	XBB.1.5.30	XBB.1.5.31	XBB.1.5.32	XBB.1.5.39	XBB.1.5.45	XBB.1.9	XBB.1.9.1	XBB.1.9.2	XBB.1.22.2	XBB.2	XBB.2.1	XBB.2.3	XBB.2.3.2	XBB.2.3.3	XBB.2.3.4	XBB.2.3.5
2	2	4	1	1	2	4	1	3	3	1	1	2	1	1	22	102	35	1	637	1	939	116	9	5	6

Recombinant																							
XBB.2.4	XBB.2.7.1	XBB.3	XBB.3.1	XBB.4	XBB.5	XBC	XBC.1	XBC.1.1	XBD	XBH	XBF	XBP	XBL	OTHERS	Recombinant	Total	XE Variant	XM Variant	XU Variant	XJ Variant	XG Variant	Total VOC/VOI
52	3	437	5	26	83	1	1	1	6	1	7	1	5	213	92	12379	1	2	10	1	2	179798

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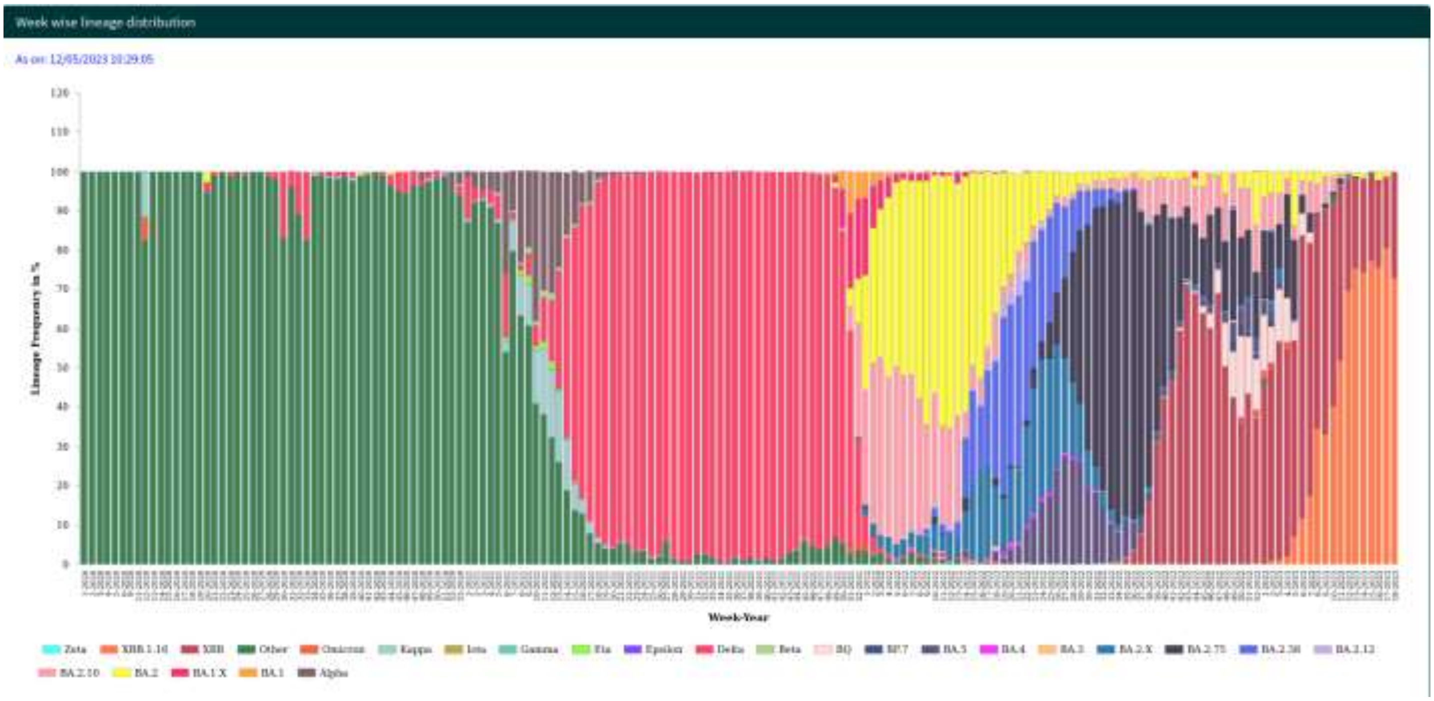
Global Scenario

Globally, nearly 2.7 million new cases and 17000 deaths have been reported in the last 28 days[1]. During the week 18 of the year 2023, there has been a continued decreasing trend in the proportions of recombinant lineages globally. However, the picture is mixed at the regional level, with increases in reported cases seen in the South-East Asia and Western Pacific regions and decreases in other regions. Currently, there are two variants of interest (VOI), XBB.1.5 & XBB.1.16 and six variants under monitoring (VUMs). The VUMs are BA.2.75, CH.1.1, BQ.1, XBB, XBB.1.9.1, and XBB.1.9.2. The variant XBF has been removed from the list of VUMs due to its declining prevalence. Globally, XBB.1.5 has been detected in 109 countries and continues to be the most prevalent variant, accounting for 47.5% of cases in epidemiological week 18. XBB.1.16 has been reported from 46 countries and accounted for 8.6% of sequences submitted till date. However, rise in hospitalizations, ICU admissions, or deaths due to the circulating XBB variants have not been reported.

Indian Scenario

Omicron and its sub-lineages continue to be the dominant variants in India. The prevalence of recombinant variant XBB.1.16 has increased in different parts of India compared to last week, accounting for 87.1% of the infection till date. Among the samples collected till the second week of May 2023, other XBB sub-lineages accounted for 12.9% of the current infection. The number of samples were relatively low in some part of India. No increase in disease severity or hospitalization has been reported.

Country wide analysis:



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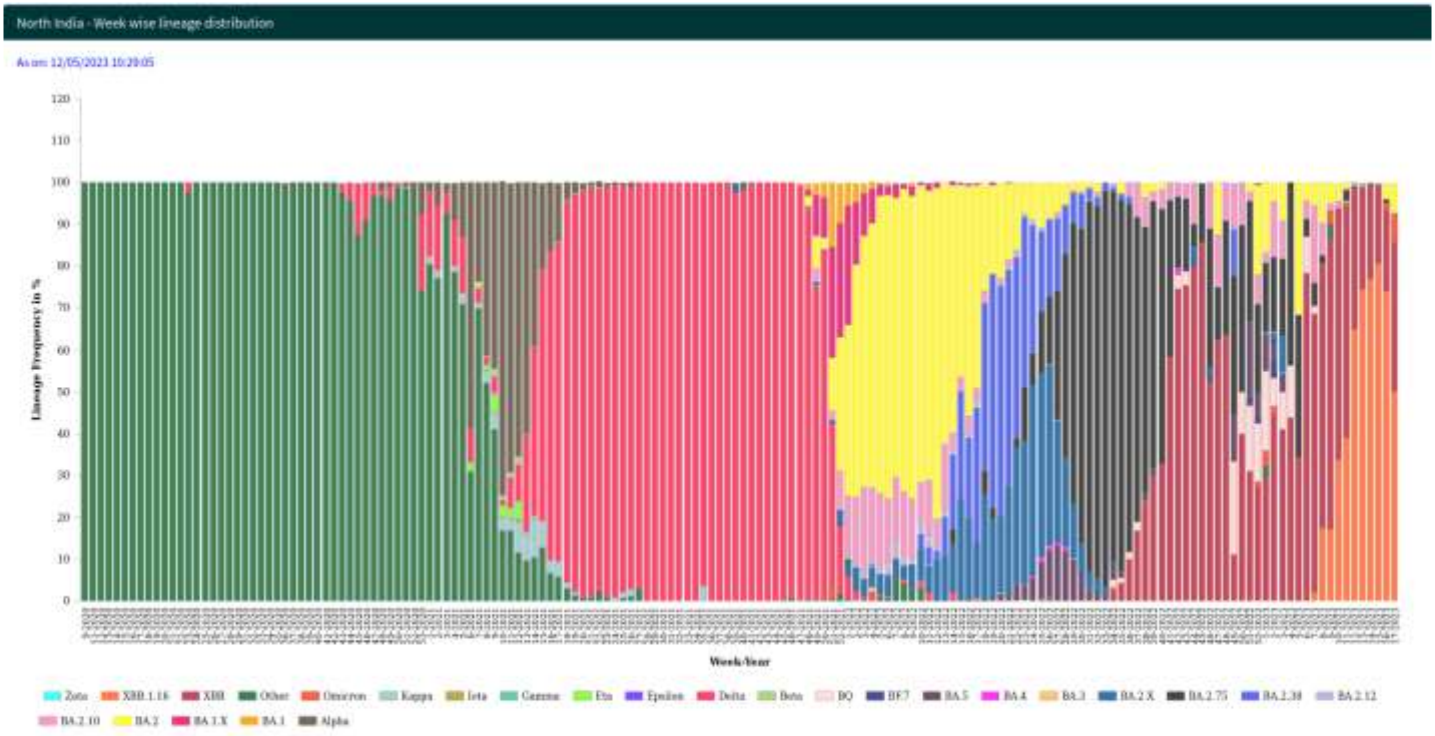
Region-wise analysis:


North India - Week wise lineage distribution

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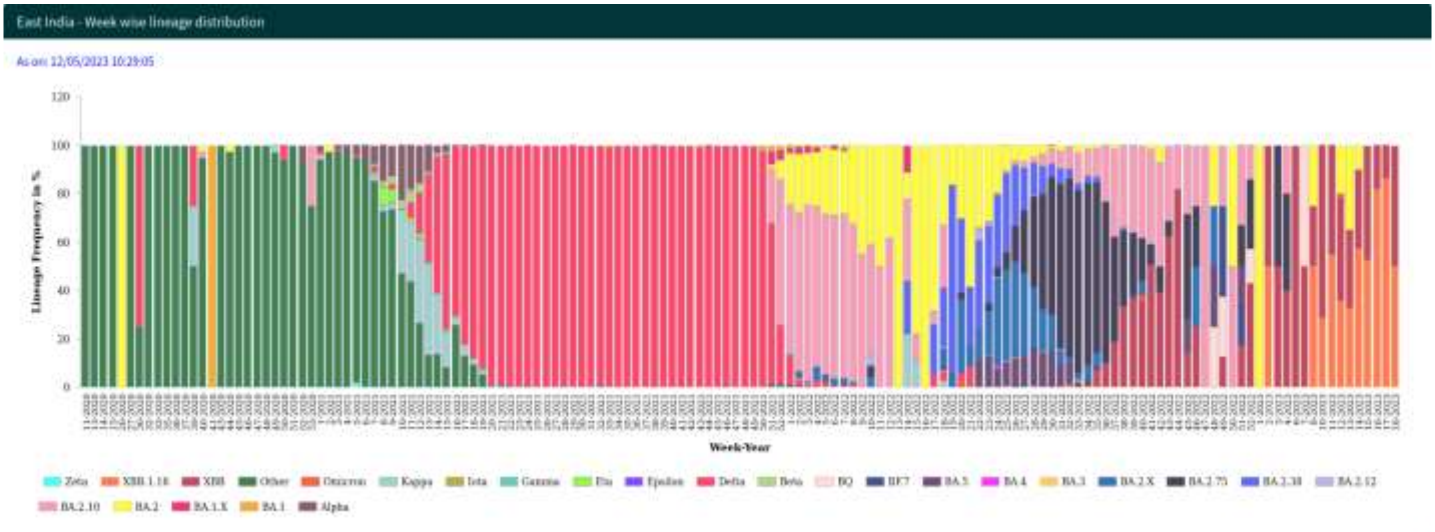
East India - Week wise lineage distribution

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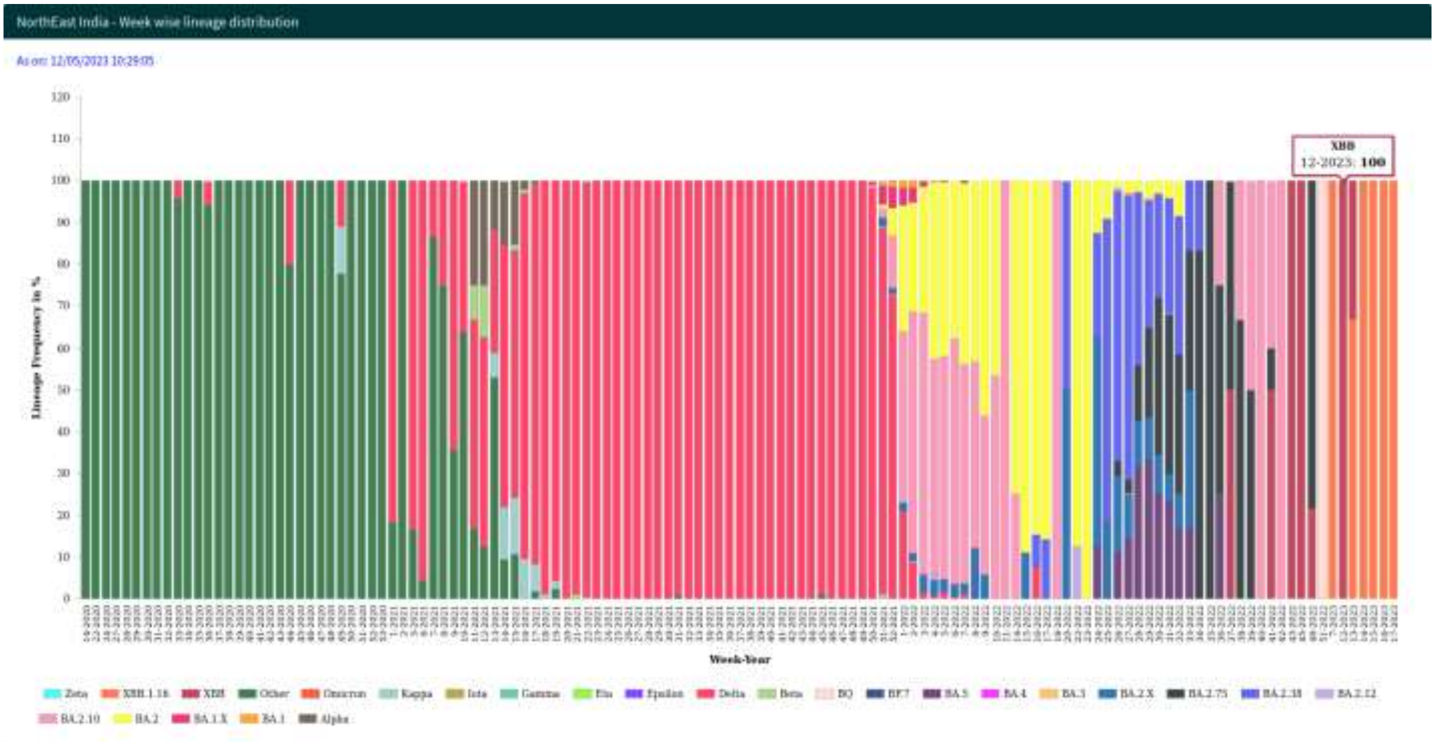

NorthEast India - Week wise lineage distribution

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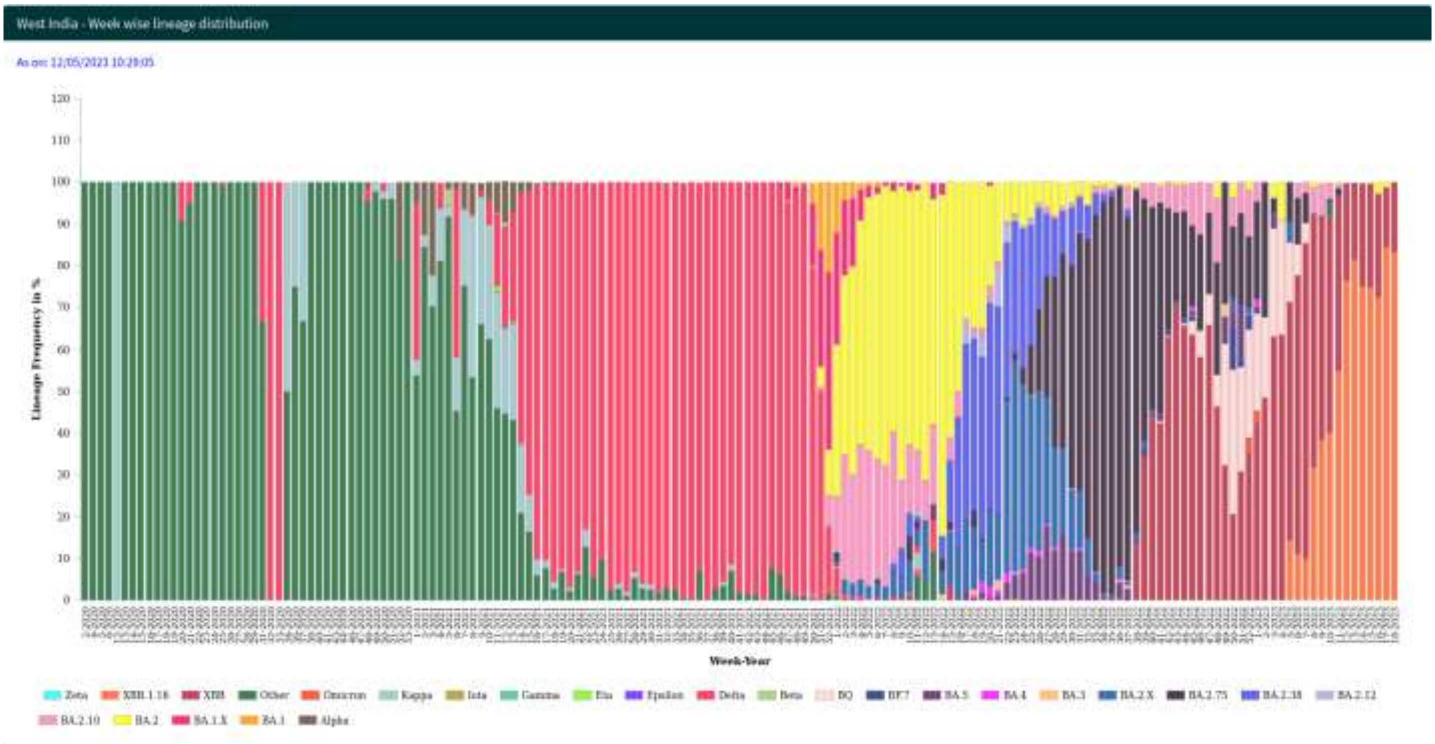

West India - Week wise lineage distribution

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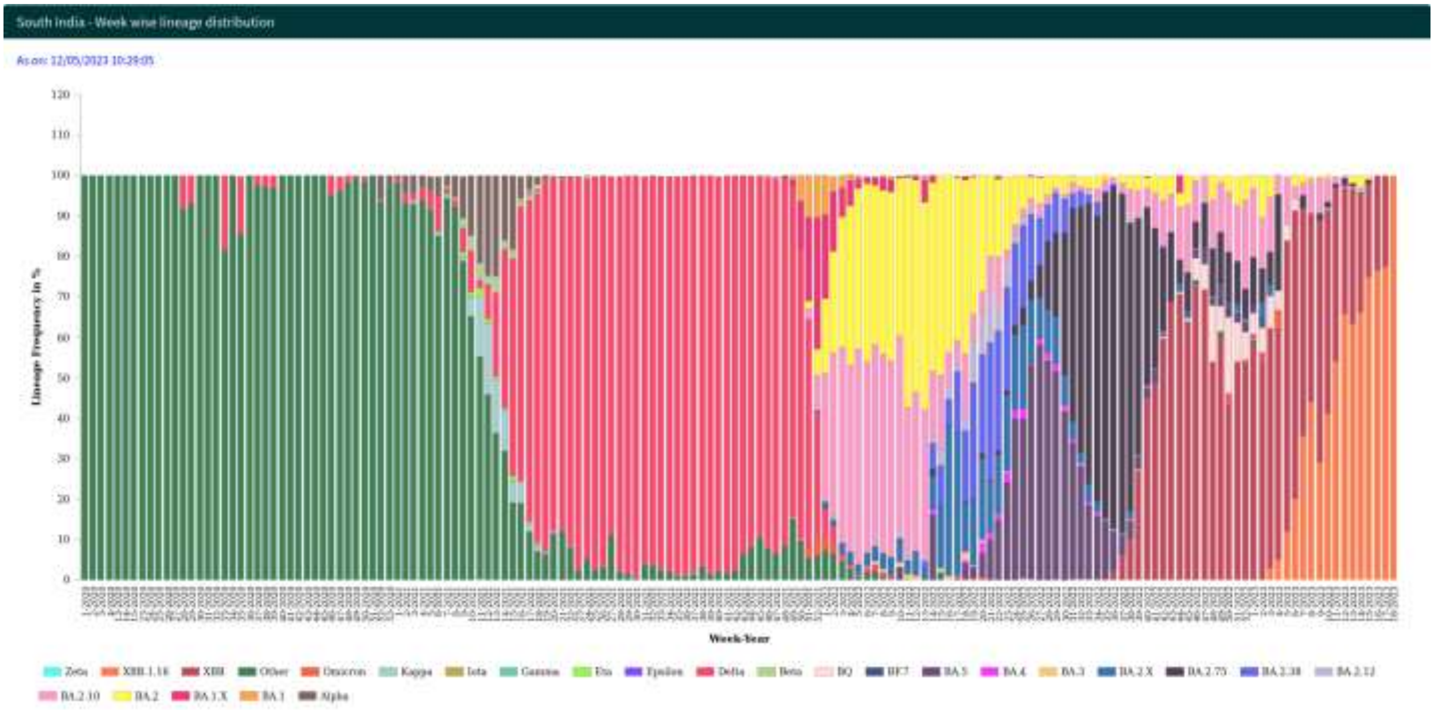

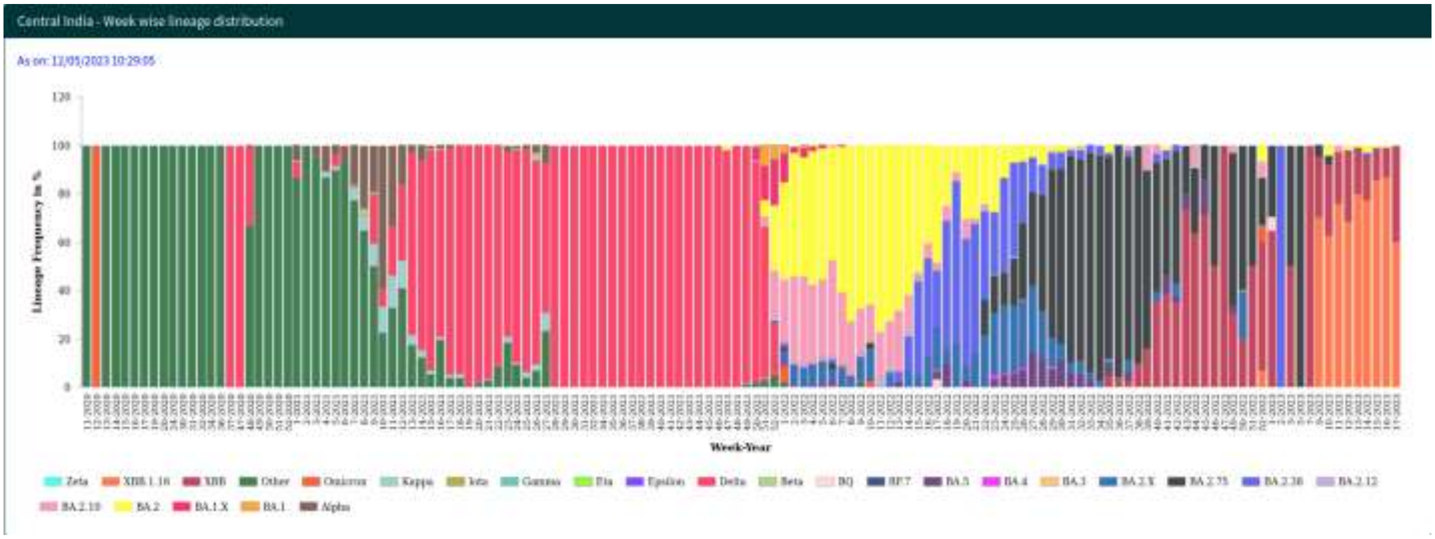

Reference:

1. WHO weekly epidemiological report.