INSACOG BULLETIN

8th 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 286,368

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

Total number of samples sequenced: 321,131

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

Table 1: Cumulative samples with pangolin lineage assigned (as on 05.05.2023)

Community sample	Travelers sample	Total pangolin lineage assigned	Total VOC/VOI	Percentage
199830	**12526**	**212356**	**177092**	**83.4**

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	20357	20627	6302	85141	91766

Recombinant

XAR	XAH	XAS	XAG	XAM	XAV	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.1.17.1	XBB.1.2	XBB.1.22.2	XBB.1.28	XBB.1.21	XBB.1.3	XBB.1.4	XBB.1.5
4	1	3	2	1	1	1023	1080	4	1	2	3	3	496	526	1	3	1	1	11	8	2	400

XBB.1.5.1	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.1.5.32	XBB.1.5.39	XBB.1.9	XBB.1.9.1	XBB.1.9.2	XBB.1.22	XBB.2	XBB.2.1	XBB.2.3	XBB.2.3.3	XBB.2.3.4	XBB.2.4	XBB.1.7.1
1	1	2	4	1	1	1	4	1	1	1	1	2	1	20	81	26	1	590	1	734	60	4	51	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	XQ Variant	XZ Variant	XG Variant	Total VOC/VOI
467	5	26	88	1	1	1	6	1	7	1	5	164	55	5789	1	2	10	1	1	177092

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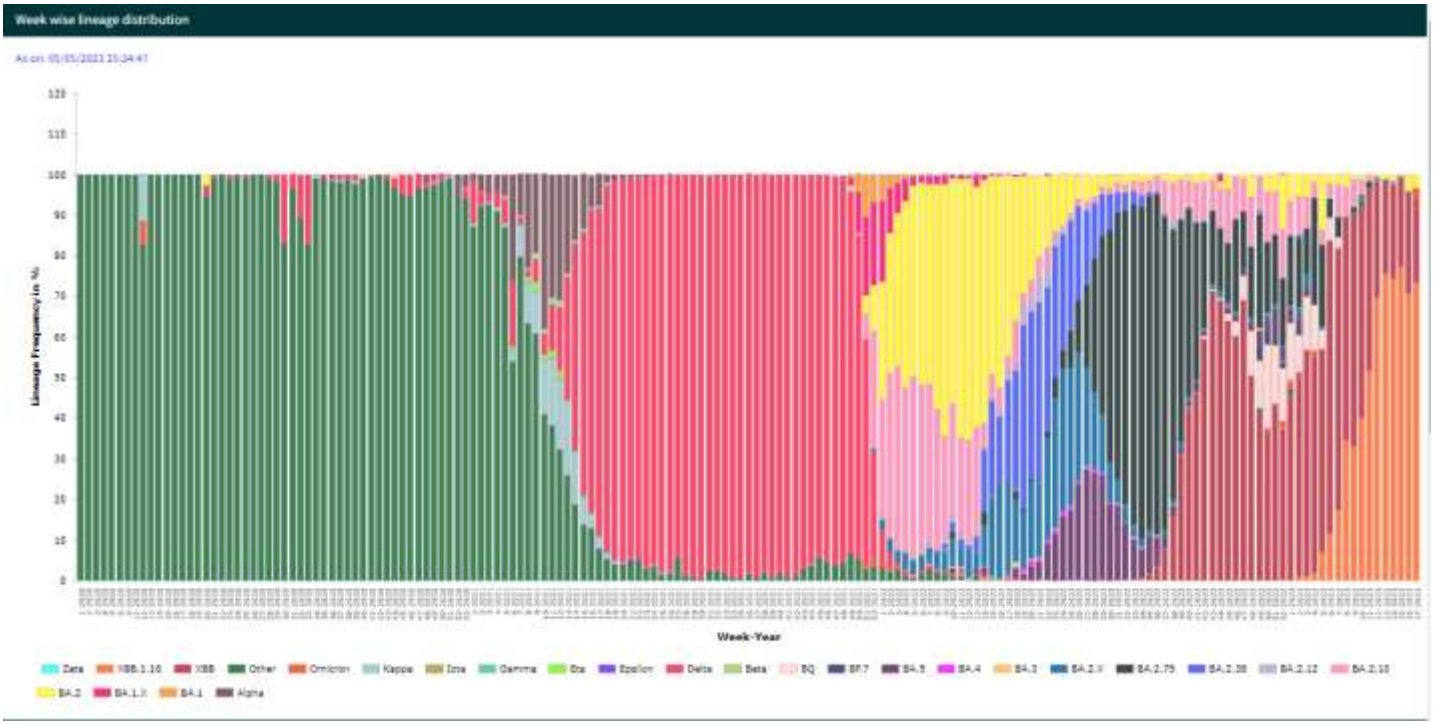
Global Scenario

Globally, nearly 2.8 million new cases and 17000 deaths have been reported in the last 28 days[1]. During the week 15 of the year 2023, there has been a continued decreasing trend in the proportions of recombinant lineages globally. Contrary to the overall trend, important increases in reported cases and deaths were seen in the South-East Asia and Eastern Mediterranean regions. Currently, there are two variants of interest (VOI), XBB.1.5 & XBB.1.16 and seven variants under monitoring (VUMs). The VUMs are BA.2.75, CH.1.1, BQ.1, XBB, XBB.1.9.1, XBB.1.9.2, and XBF. Globally, XBB.1.5 has been detected in 106 countries and continues to be the most prevalent variant, accounting for 46.7% of cases in epidemiological week 15. XBB.1.16 has been reported from 40 countries and accounted for 5.7% of sequences submitted till date. However, so far reports do not indicate a rise in hospitalizations, ICU admissions, or deaths due to XBB.1.16.

Indian Scenario

Omicron and its sub-lineages continue to be the dominant variants in India. The prevalence of recombinant variant XBB.1.16 has been decreased in different parts of India, accounting for 73.3% of the infection till date compared to last week. Among the samples collected till the third week of April 2023, other XBB sub-lineages accounted for 20.0% of the current infection. However, no increase in disease severity or hospitalization has been observed.

Country wide analysis:



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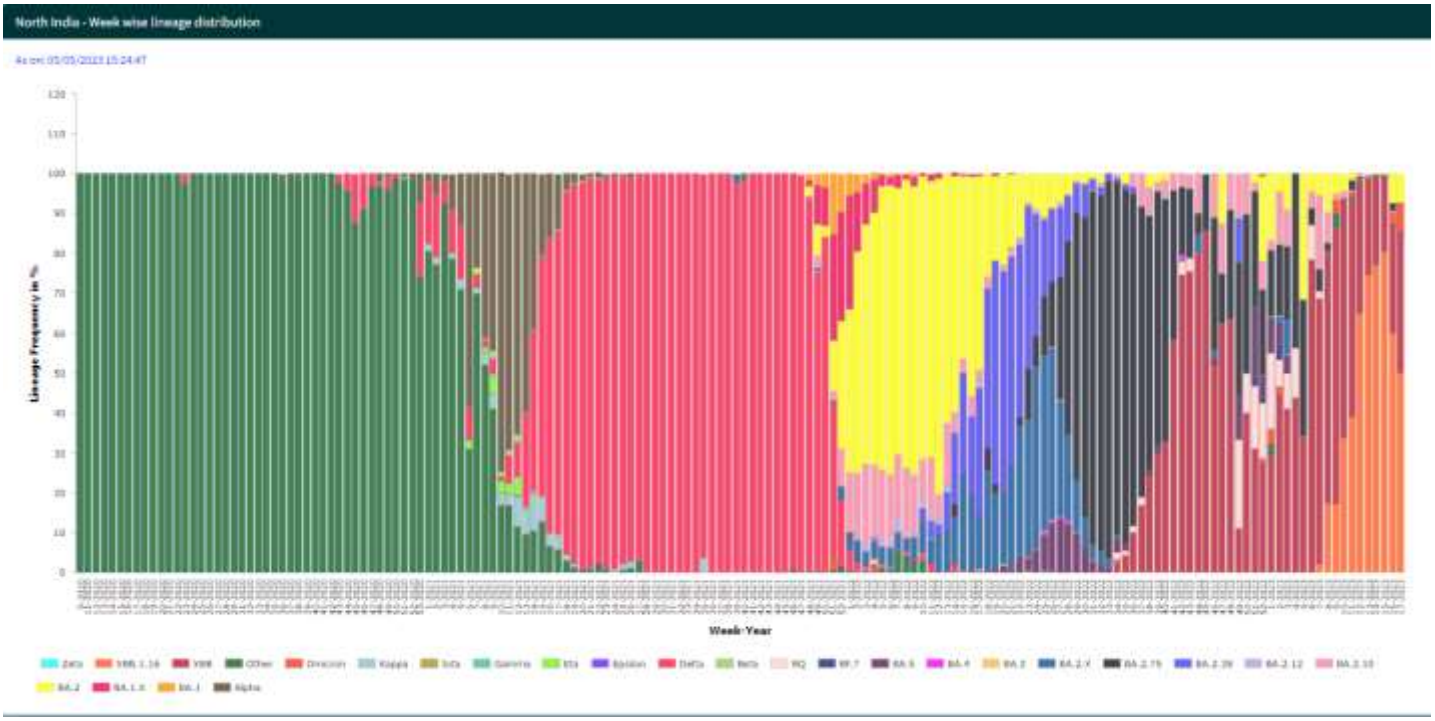
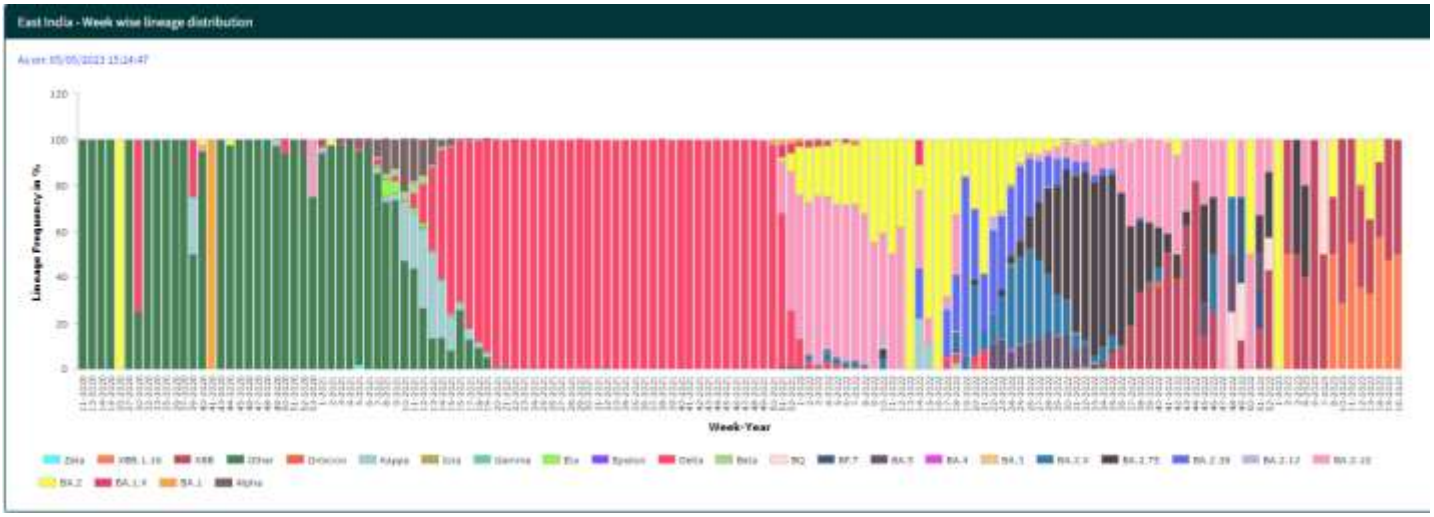
Region-wise analysis:





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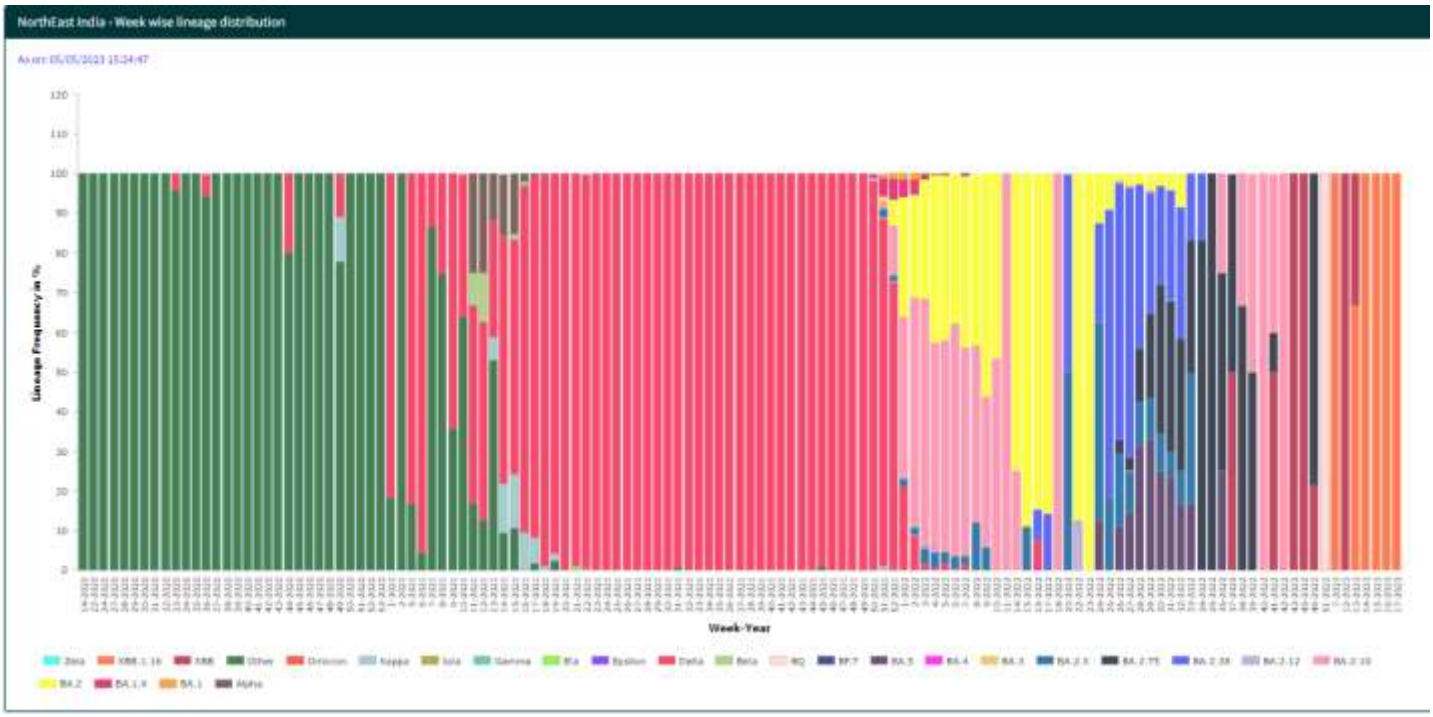

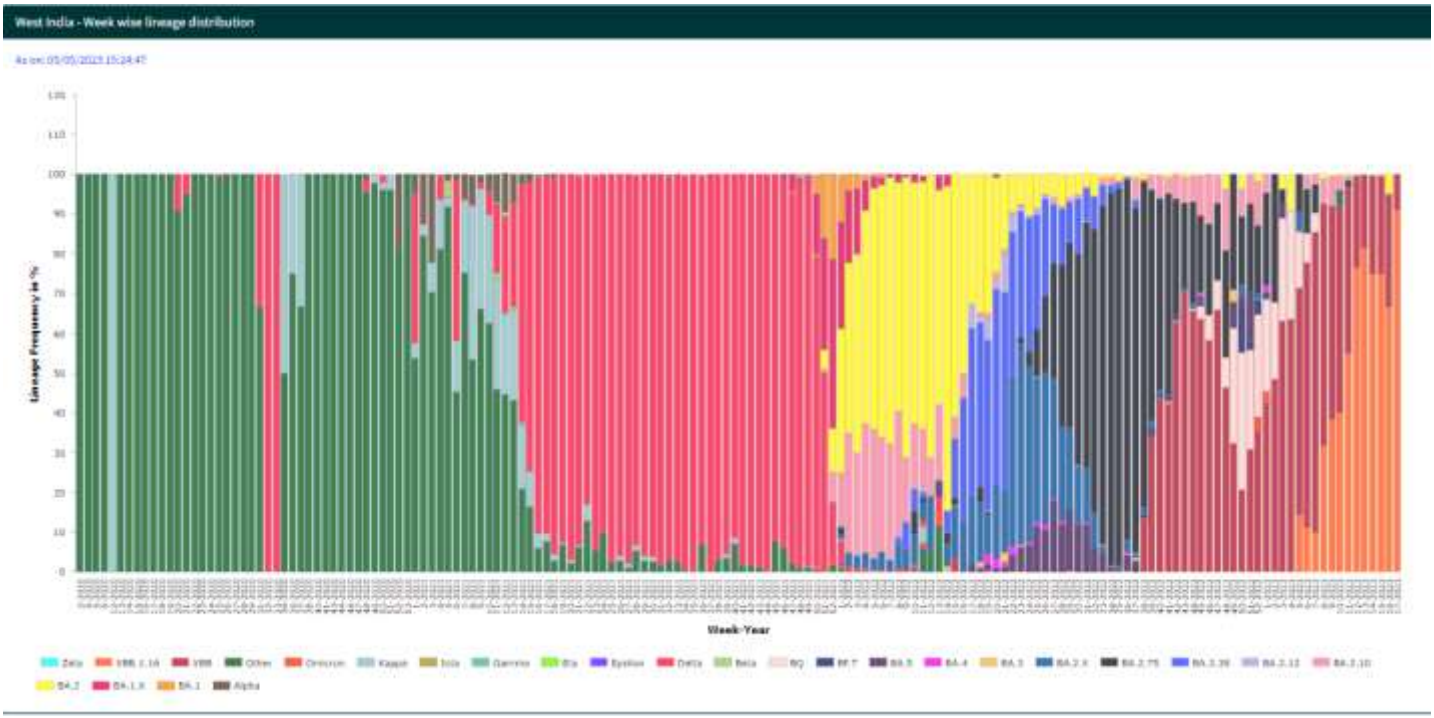

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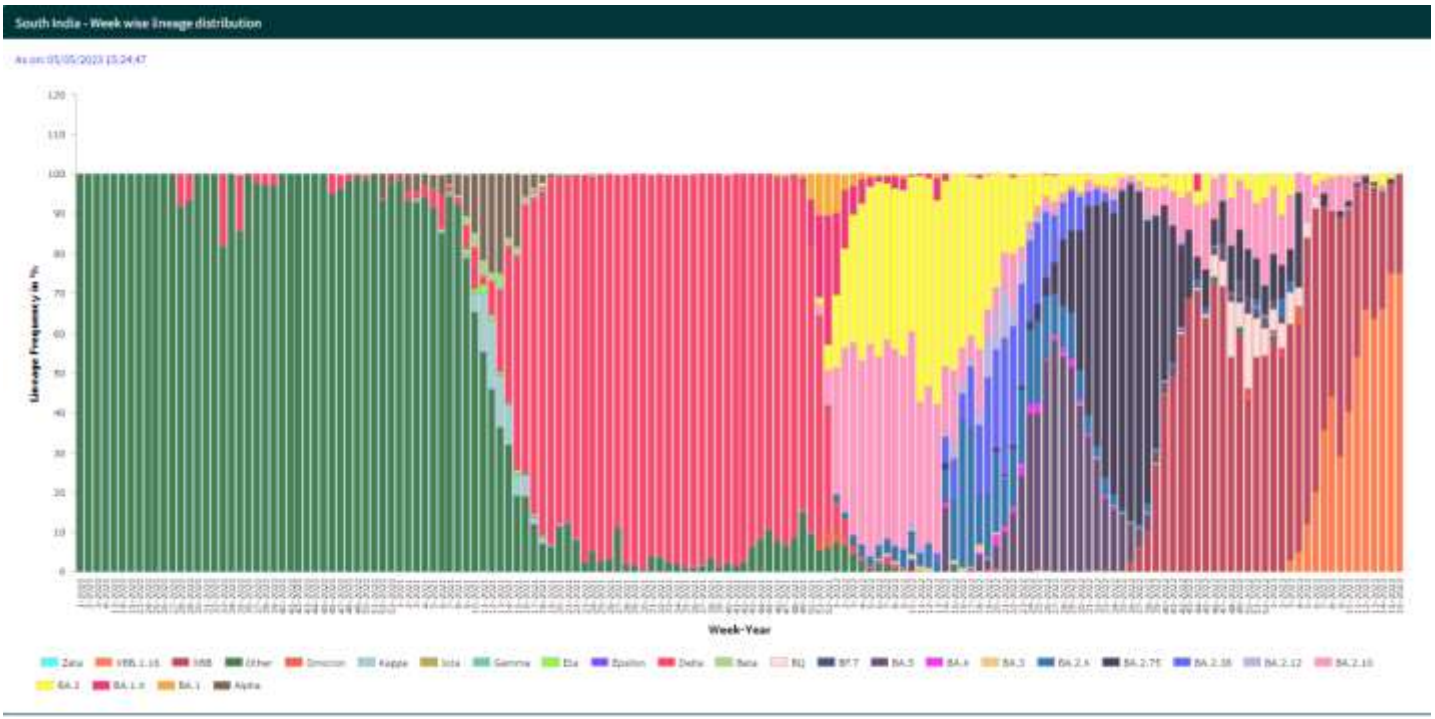

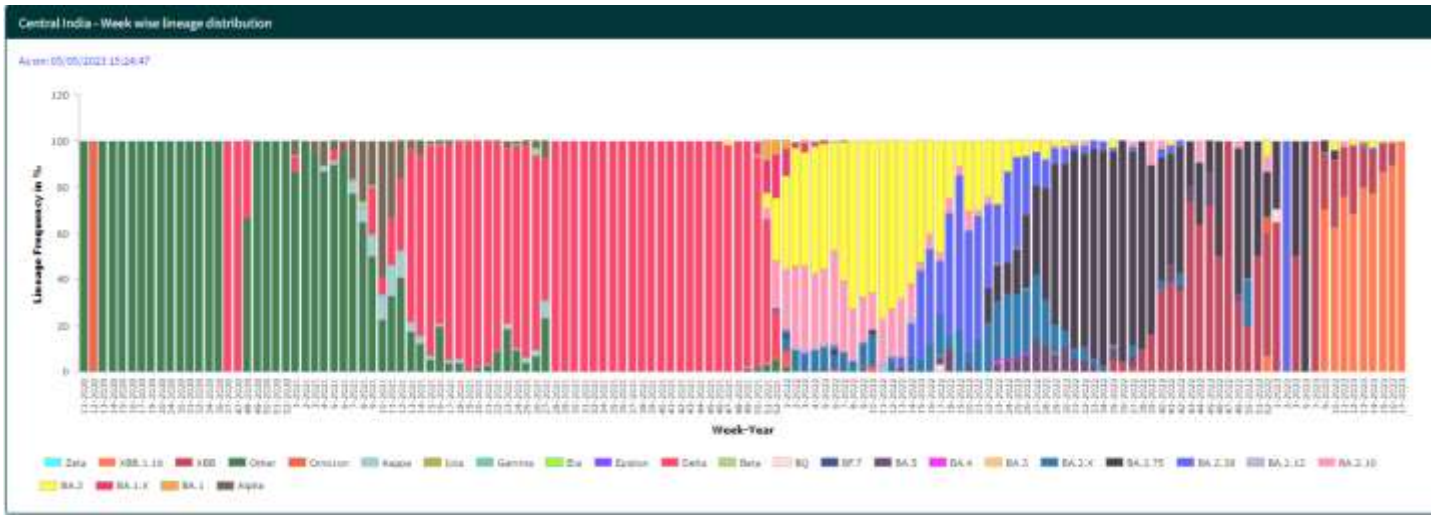

Reference:

1. WHO weekly epidemiological report.