

INSACOG WEEKLY BULLETIN

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The INSACOG reports genomic surveillance of SARS CoV -2 across the country through sequencing of samples from Sentinel sites and also detailed State wise district analysis for some states under State MoUs (Maharashtra, Kerala and some others) A summary of the cumulative data of INSACOG and other state sequencing initiatives can be found at the INSACOG data portal link (<http://clingen.igib.res.in/covid19genomes/>) along with other INSACOG information at <https://dbtindia.gov.in/insacog>. New web-based query tool is now available on the data portal. All data presented on the portal is organized by date of sample collection, state, assigned lineage and mutations found on analysis.

INSACOG:

- Total number of samples processed so far is 89,187
- Total number of samples sequenced is 89,187
- Total number of sequences analysed are 88,000

Samples from MoUs with state governments:

- Number of samples sequenced is 17,287

Total number of samples sequenced: 1,06,474

The number of samples with pangolin lineage assigned are 62,293

| Table 1: Cumulative samples with Pangolin lineage assigned (as on 14.10.2021) | | | | |
|---|------------------|---------------------------|---------------|------------|
| Community sample | Travelers sample | Pangolin lineage assigned | Total VOC/VOI | Proportion |
| 57115 | 5178 | 62293 | 42146 | 67.7 |

| Table 2: Cumulative distribution of VOC/VOI (as on 14.10.2021) | | | | | | | | | | | | | | | | |
|--|------|------|--------------|-----|-----|---------------|---|---|---------------|-------|-------|-------------------------|------|------|-----------|---------------|
| Delta Variant | | | Beta Variant | | | Gamma Variant | | | Delta Variant | | | B.1.617.1 and B.1.617.3 | | | AY series | Total VOC/VOI |
| 577 | 3655 | 4232 | 117 | 102 | 219 | 1 | 1 | 2 | 74 | 26767 | 26841 | 85 | 5365 | 5450 | 5402 | 42146 |

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Variants reported during the period

Global

There is no change to the global scenario. Delta, including B.1.617.2 (AY) and AY.x sublineages, continues to be the main VOC globally and has started to replace all other lineages, including in South America, where other VOC and VOI had been circulating. There are early reports of a small transmission advantage to AY.4.2 in genomic surveillance results from UK. The two characteristic new mutations in the spike protein, Y145H and A222V, have been seen before and do not yet have any known significance. It is thus not clear at this point whether this is a chance demographic event.

National

Delta (B.1.617.2 and AY.x) continues to be the main VOC in India. No new VOI or VOC are noted in India.

1. <https://www.ft.com/content/f1ec9d5d-9e02-4cc4-95e7-1dcbb1844d43>