



# Genomic surveillance report

Update for Belgium, 19/07/2022

DEPARTMENT OF MI

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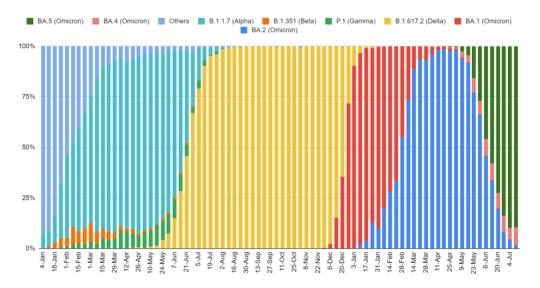
Belgian Sequencing Consortium:

Cliniques Universitaires Saint-Luc, Centre Hospitalier CHU UCL Namur, ULB, UMons, UNamur, ULiège, UGent, UZA/UAntwerpen, Jessa ZH, AZ Delta, AZ Klina, IPG, AZ St Lucas Gent, OLVZ Aalst, Briant network, ZNA, AZ St Jan Brugge, UZ Brussel, LHUB-ULB, UZ Leuven/KU Leuven and Sciensano HealthData.

Previous reports are available online using this link.

## **Executive summary**

Omicron BA.5 is now the dominant lineage in Belgium and accounts for around 90% of the most recent infections. This recent shift is associated with an increase in the number of infections (Rt ~1.05), increasing positivity rate (37%) despite an increased testing intensity, and an increase in the number of hospital admissions, including ICU admissions.

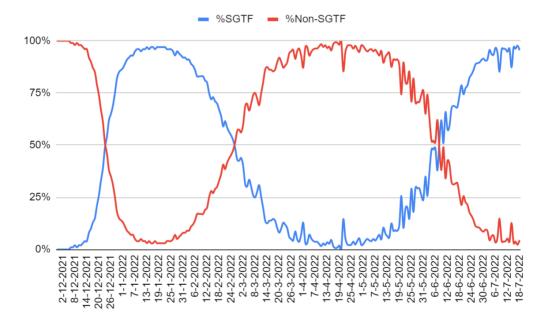


In the meantime, international genomic surveillance highlighted the emergence of a new variant (BA.2.75) which seems to harbor the potential to outpace BA.5. For now, no BA.2.75 samples have been identified in Belgium through our genomic surveillance program.

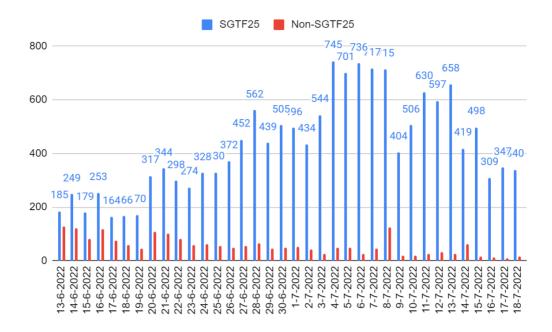
# 1 Epidemiological context and indicators related to diagnostic activities

Omicron BA.2 and BA.2.75 can be distinguished from BA.4 and BA.5 using somespecific diagnostic PCR kits as the latter variants present the deletion 69/70 in the S gene and therefore are characterized by an SGFT.

At this stage, SGTF samples are predominantly Omicron BA.5 and, to a lesser extent, BA.4. These samples represent 96-98% of the most recent samples analyzed (Figure 1).



*Figure 1:* S gene target failure (SGTF, in blue: BA.4 and BA.5) and others (red: currently considered predominantly BA.2, but also possibly BA.2.75) among positive samples reported by the federal platform laboratories.



*Figure 2:* S gene target failure (SGTF, in blue: BA.4 and BA.5) and others (red: currently considered predominantly BA.2, but also possibly BA.2.75) among positive samples reported by the federal platform laboratories.

### 2 Monitoring of Variants of Concern in Belgium

During the last two weeks of baseline surveillance - 04/07/2022 to 17/07/2022 - (1184 sequences collected at this stage), BA.5 represented 89%, BA.4 represented 6% and BA.2 represented 4%. No BA.2.75 have been identified at this stage. In the meantime, we keep monitoring the situation abroad and state of knowledge regarding the emergence and spread of BA.2.75 (currently classified as a variant of interest by the ECDC).

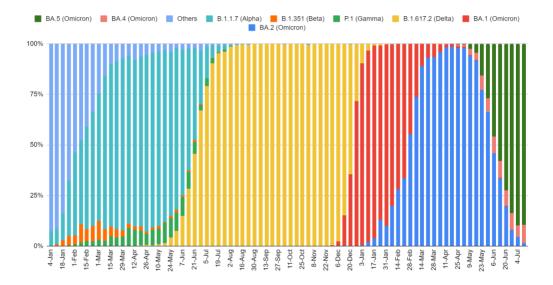


Figure 3: Share of variants of concern per week in Belgium