



Coronavirus Disease 2019 (COVID-19)

National Surveillance Report as of 13/12/2020

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Summary

- As of December 13th, a total of 15,004 COVID-19 cases have been diagnosed, of which 85 died due to COVID-19 (case fatality risk: 0.6%).
- The 14-day cumulative diagnosis rate is 498.3 per 100,000 population.
- In the last 14 days (30 November - 13 December), 4,425 cases were diagnosed.
 - The median age was 36 years (Interquartile range - IQR: 23-53 years); 52.1% were female (n = 2,306), 47.7% male (n = 2,112), and for 7 cases (0.2%) sex is unknown.
 - By place of exposure: 1.2% (n = 53) were imported and 98.8% (n = 4,372) were locally-acquired.
- Of 10 cases in intensive care units (ICU) who are currently notified, 4 are intubated. The median age of current ICU patients is 69 (IQR: 62-80) years and 5 (50%) are males. Seven (70%) patients currently in ICU have pre-existing conditions.
- A total of 665,112 molecular tests have been performed as of December 13th (74,900 per 100,000 population). In particular, over the last 14 days, 49,164 molecular tests have been performed (5,536.5 per 100,000 population).



Epidemiological surveillance in the Republic of Cyprus

Analyses are based on laboratory-confirmed cases notified to the Epidemiological Surveillance Unit of the Ministry of Health.

As of December 13th, 15,004 laboratory-confirmed cases of coronavirus disease 2019 (COVID-19) have been diagnosed (Figure 1, 2 and 3).

In the last 14 days (30 November -13 December), 4,425 cases have been diagnosed. The 14-day cumulative diagnosis rate of COVID-19 (per 100,000 population)¹, a measure which reflects the number of active COVID-19 cases in the population (prevalence)², is 498.3 per 100,000 population (Figure 3).

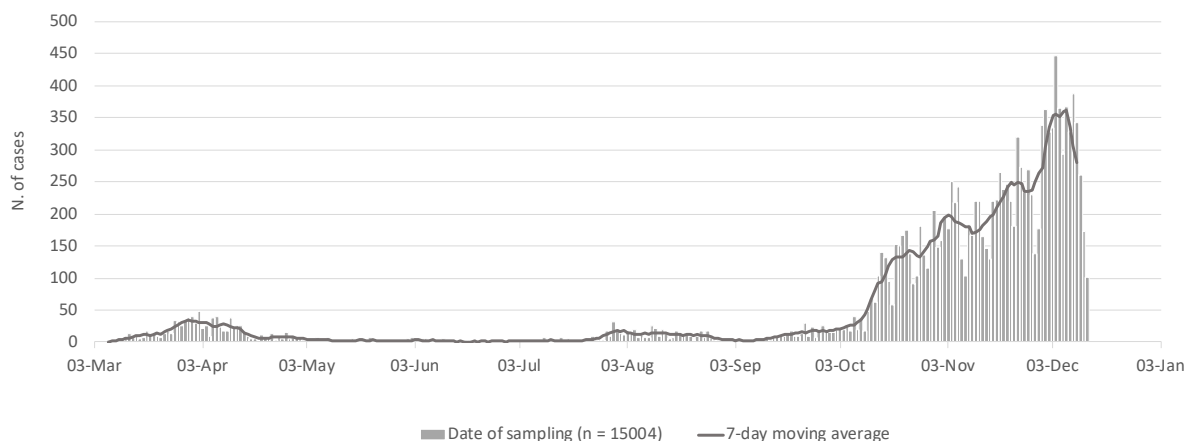


Figure 1: Number and 7-day moving average of laboratory-confirmed COVID-19 cases in Cyprus since 03/03/2020 by date of sample collection.

¹Population denominator for end of year 2019, available at https://www.mof.gov.cy/mof/cystat/statistics.nsf/populationcondition_21main_en/populationcondition_21main_en?OpenForm&sub=1&sel=4

²Coronavirus disease 2019 (COVID-19) pandemic: increased transmission in the EU/EEA and the UK – seventh update, 25 March 2020. Stockholm: ECDC; 2020. <https://www.ecdc.europa.eu/sites/default/files/documents/RRA-seventh-update-Outbreak-of-coronavirus-disease-COVID-19.pdf>

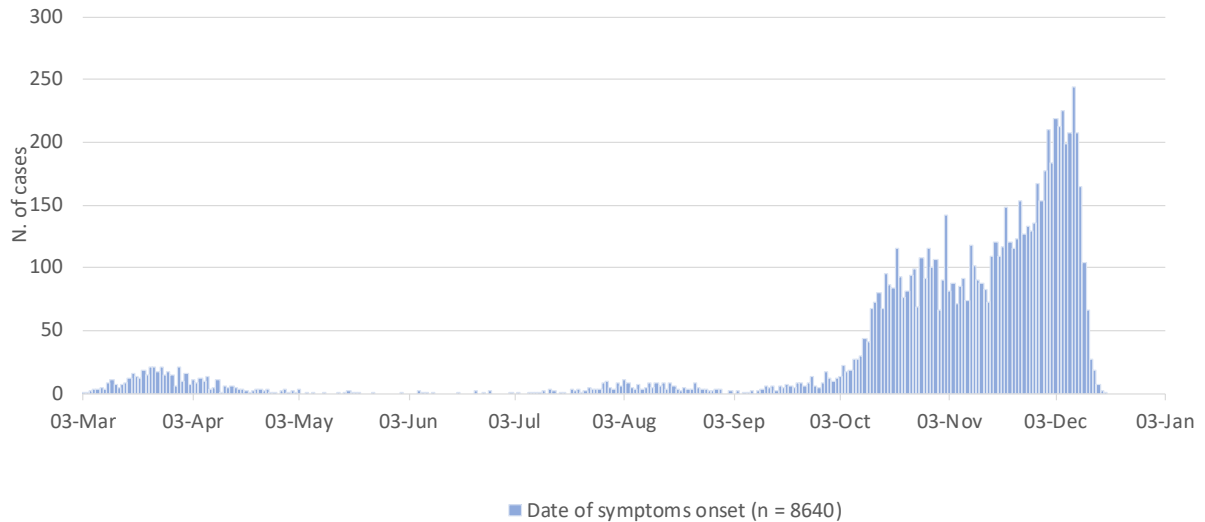


Figure 2: Number of laboratory-confirmed COVID-19 cases in Cyprus since 03/03/2020 by date of symptoms onset.

Recent data should be interpreted with caution due to the possibility that cases with date of onset within the reporting period have not yet been diagnosed.

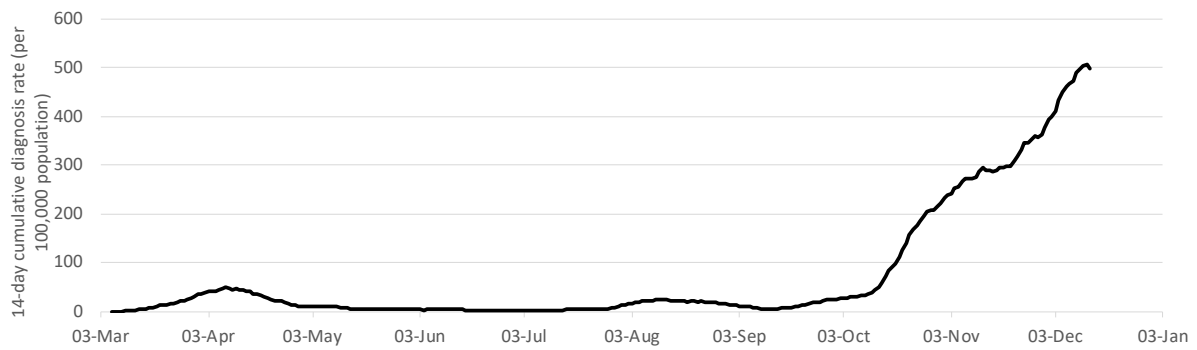


Figure 3: COVID-19 14-day cumulative diagnosis rate per 100,000 population (proxy of COVID-19 prevalence).



Characteristics of the cases diagnosed in the last 14 days

Age, sex, and place of residence

Among 4,425 cases diagnosed since 30th November, 52.1% were female (n = 2,306), 47.7% male (n = 2,112), and for 7 cases (0.2%) sex is unknown.

By age group, cases included 933 infants, children and adolescents aged 0-19 years-old (21.1%), 2,763 adults aged 20-59 years (62.4%), 727 persons aged 60 years and older (16.4%), and for 2 cases (0.1%) information was missing. Figure 4 shows the number of cases by 10-year age band and sex. The median age of all cases diagnosed in the last 14 days is 36 years (IQR: 23-53 years). The median age of adult cases (≥ 18 years) is 42 years (IQR: 30-57 years).

The 14-day cumulative diagnosis rate (per 100,000 population) by age groups is shown in figure A1 in Appendix.

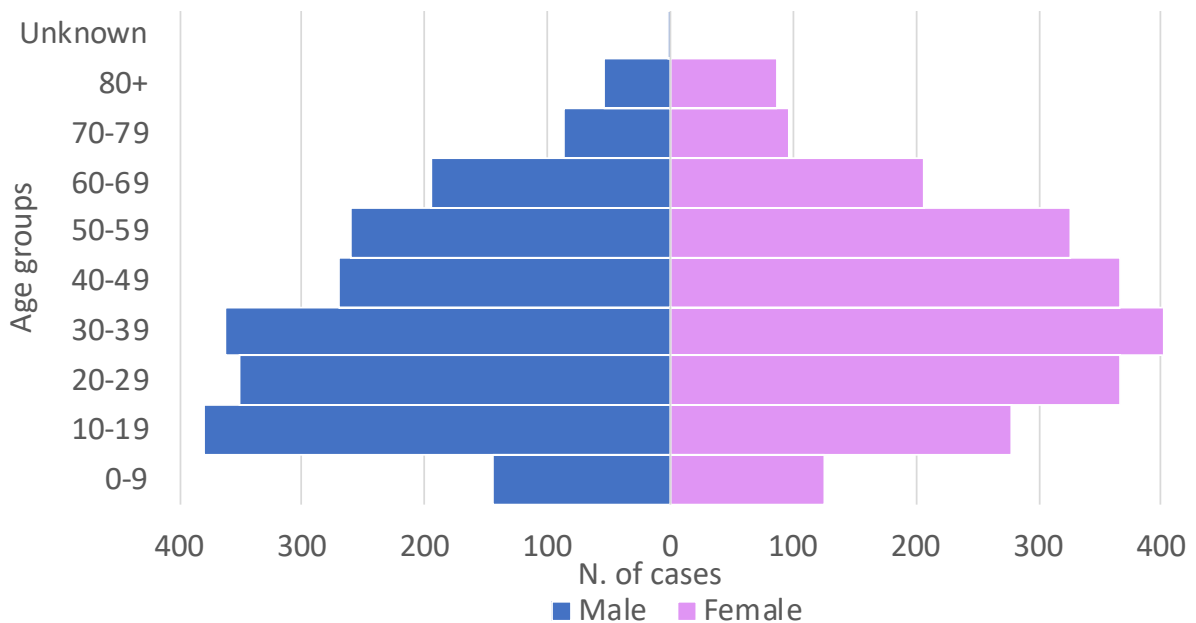


Figure 4: Laboratory-confirmed COVID-19 cases in Cyprus, diagnosed in the last 14 days, by age groups and sex.

Among all cases diagnosed in the last 14 days, 2,373 (53.6%) were reported in Nicosia district, 1050 (23.7%) in Larnaka, 386 (8.7%) in Ammochostos, 383 (8.7%) in Limassol, 121 (2.7%) in Pafos, and 112 (2.5%) were reported either in the British bases or had a residence abroad, or information was not available. Figure A2 in appendix shows the 14-day cumulative diagnosis rate (per 100,000 population) by district.



Epidemiological link

In the last 14 days (30 November – 13 December), of 4,425 cases sampled and notified, 1.2% (n = 53) were imported and 98.8% (n = 4,372) were locally-acquired. Table A1 and Figure A3 (A&B) in Appendix show the characteristics of cases by origin of infection and the daily number of locally-acquired cases by district in the recent period, respectively.

Clinical features

In the last 14 days (30 November – 13 December), 29.9% (n = 1,323) reported no symptoms at diagnosis and 70.1% (n = 3,102) reported at least one symptom.

Pre-existing conditions

In the last 14 days (17 - 30 December), 1,098 cases (24.8%) reported at least one comorbidity.



Deaths

Among cases, 85 COVID-19 associated deaths were reported in Cyprus until December 16th (Case Fatality Risk - CFR: 0.6%).

The COVID-19 associated mortality is 9.6 per 100,000 population.

Deaths occurred in 55 men (64.7%) and 30 (35.3%) women; the median age of all COVID-19 associated deaths was 81 years (IQR: 72-86 years). By district of residence, deceased cases were 36 (42.4%) from Limassol, 21 (24.7%) from Nicosia, 12 (14.1%) from Larnaka, 9 (10.6%) from Pafos, and 7 (8.2%) from Ammochostos.

The median time from date of sampling to death (due to COVID-19) was 13 days (IQR: 7-18 days).

Figure 5a reports the number of COVID-19 associated deaths by date.

Among cases, 110 deaths (all causes) were reported in Cyprus until December 16th (CFR: 0.7%).

The mortality (all-causes) for people with COVID-19 is 12.4 per 100,000 population.

Deaths occurred in 72 men (65.4%) and 38 (34.6%) women; the median age of all deaths was 81.5 years (IQR: 72-86 years). By district of residence, deceased cases were 47 (42.7%) from Limassol, 24 (21.8%) from Nicosia, 17 (15.5%) from Larnaka, 12 (10.9%) from Pafos, 9 (8.2%) from Ammochostos, and one death (0.9%) occurred among cases reported either in the British bases or had a residence abroad, or information was not available.

The median time from date of sampling to death (all-causes) was 12 days (IQR: 7-17 days).

Figure 5b reports the number of all deaths by date.

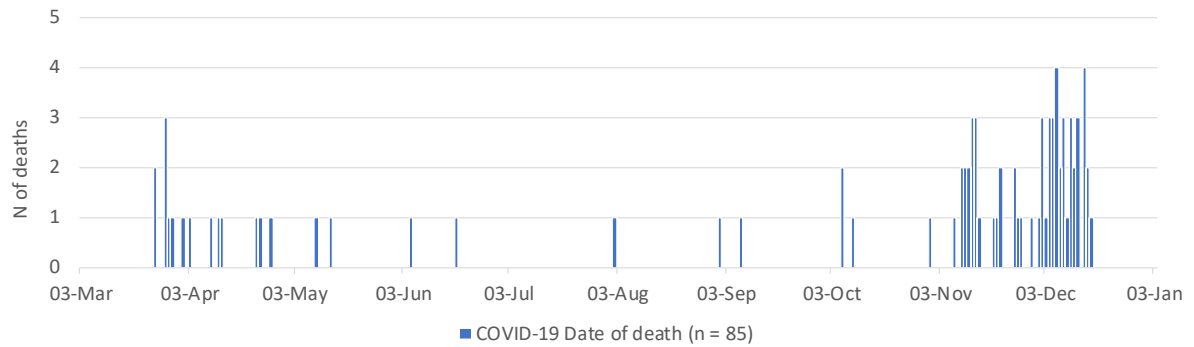


Figure 5a: Number of COVID-19 associated deaths in Cyprus by date of death.

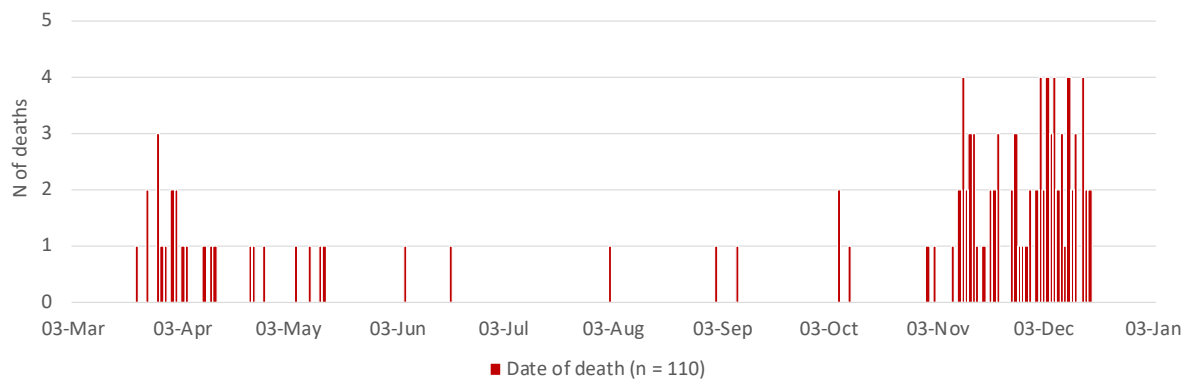


Figure 5b: Number of deaths (all causes) among COVID-19 cases in Cyprus by date of death.



Hospitalization and intensive care unit (ICU³) admissions⁴

In total, 5% (n = 750) of people with COVID-19 received hospital care, as of December 16th. The median age of hospitalized patients was 64 years (IQR: 48-78 years). Hospitalized cases were mainly males (n = 420; 56%).

Figure 6a shows the total number of first hospital admissions by date.

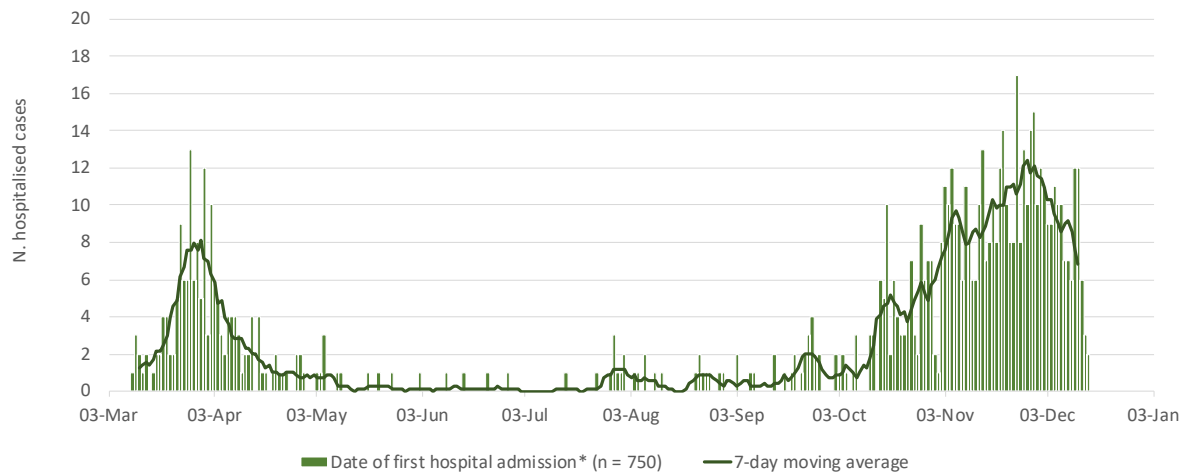


Figure 6a: Number and 7-day moving average of laboratory-confirmed COVID-19 cases by date of first hospital admission.

**Date of hospital admission was replaced with date of sampling for inpatients hospitalised prior to the beginning of the epidemic.*

Recent data should be interpreted with caution due to the possibility that cases recently hospitalised could have not been notified.

³ Intensive care unit (ICU) refers only to the ICU in Limassol General Hospital and to the ICU in Nicosia General Hospital.

⁴ Data on hospitalisation and ICU are provisional and should be interpreted with caution because delay in data reporting is likely; for the construction of the curve, people are no longer in an ICU/hospital the day next to the date of their discharge, death or transfer.



Overall, 69 cases (9.2% of all hospitalized patients) have been admitted to ICU. The median age of patients ever admitted to ICU was 69 years (IQR: 62-76 years). ICU patients are mainly male (n = 49; 71%). The overall median length of stay in ICU (for all 69 ICU cases) was 14 days (IQR: 8-25 days).

As of December 16th and based on records which rapidly evolve, 10 cases are still in ICU (including deaths / discharged on that day). The median age of current ICU patients is 69 (IQR: 62-80) years and 5 (50%) are males. Seven (70%) patients currently in ICU have pre-existing conditions.

The number of cases currently in ICU is 1.1 per 100,000 population (as of December 16th, including deaths/discharged on that day).

A total of 61 ICU patients (85.5% of all ICU patients) have been intubated - currently there are 4 patients intubated in ICU (including deaths/discharged on that day). Figure 7 shows the number of patients in ICU, by day and intubation status.

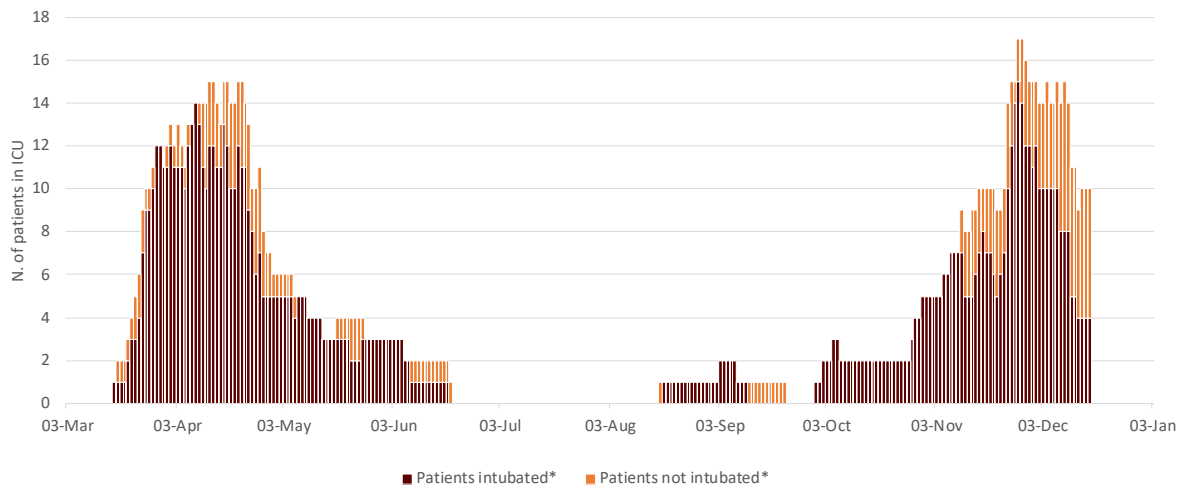


Figure 7: Number of laboratory-confirmed COVID-19 cases in ICU by date and intubation.

**Date of discharge/transfer/death included*

Recent data should be interpreted with caution due to the possibility that cases recently admitted in ICU or intubated could have not been notified/recorded.



Recovered/released

More updated information on recovery, based on new guidelines that do not require testing, will be available in next reports.



Acknowledgments

We would like to thank the KIOS Center of Excellence of the University of Cyprus for the development of the ICT system to support data management.

Appendix

Table A1: Characteristics of cases by origin of infection, diagnosed in the last 14 days.

Characteristics	Total (n = 4425)		Imported (n = 53)		Locally-acquired (n = 4372)	
	N	%	N	%	N	%
Sex						
Male	2112	47.7	30	56.6	2082	47.6
Female	2306	52.1	23	43.4	2283	52.2
Unknown	7	0.2	0	0.0	7	0.2
Age groups (years)						
0-9	274	6.2	1	1.9	273	6.2
10-19	659	14.9	11	20.8	648	14.8
20-29	719	16.2	14	26.4	705	16.1
30-39	816	18.4	8	15.1	808	16.1
40-49	639	14.4	9	17.0	630	18.5
50-59	589	13.3	4	7.5	585	14.4
60-69	403	9.1	4	7.5	399	13.4
70-79	183	4.1	1	1.9	182	9.1
80+	141	3.2	1	1.9	140	4.2
Unknown	2	0.0	0	0.0	2	3.2
Median age in years (IQR*)	37 (24-54)		30 (20-44)		37 (23-53)	
District						
Ammochostos	386	8.7	6	11.3	380	8.7
Larnaka	1050	23.7	11	20.8	1039	23.8
Limassol	383	8.7	7	13.2	376	8.6
Nicosia	2373	53.6	26	49.1	2347	53.7
Pafos	121	2.7	1	1.9	120	2.7
Other	112	2.5	2	3.8	110	2.5
Symptoms at diagnosis						
Yes	3,102	70.1	40	75.5	3062	70.0
No	1323	29.9	13	24.5	1310	30.0
Unknown	0	0.0		0.0	0	0.0



Figure A1. 14-day cumulative diagnosis rate (per 100,000 population) by age groups for the last 14 days.

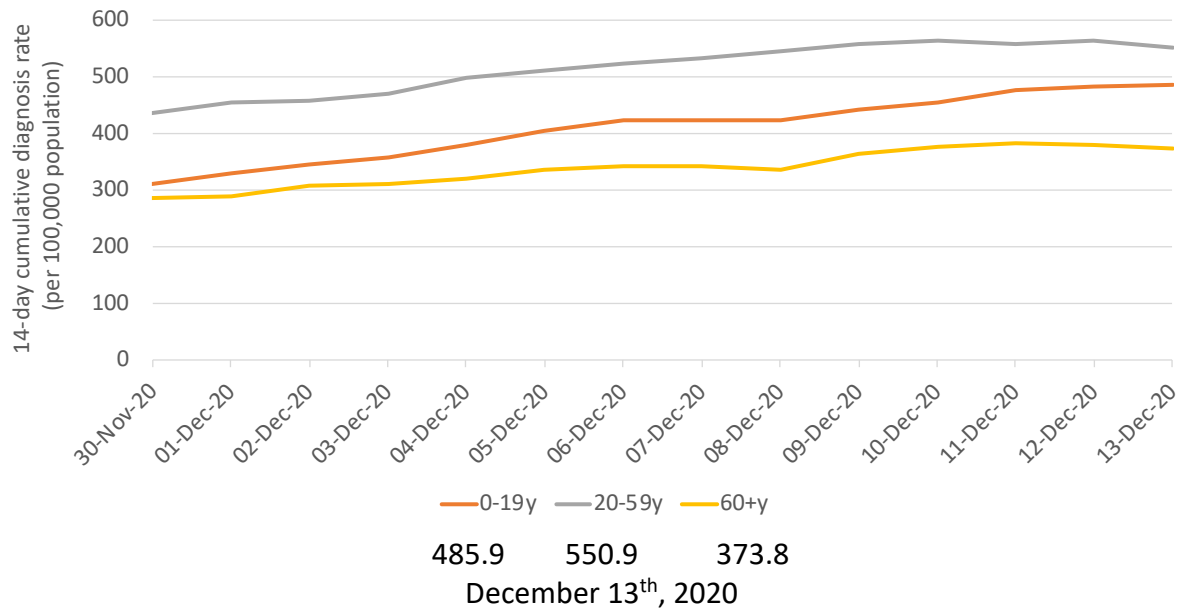




Figure A2: 14-day cumulative diagnosis rate (per 100,000 population) by district for the last 14 days.

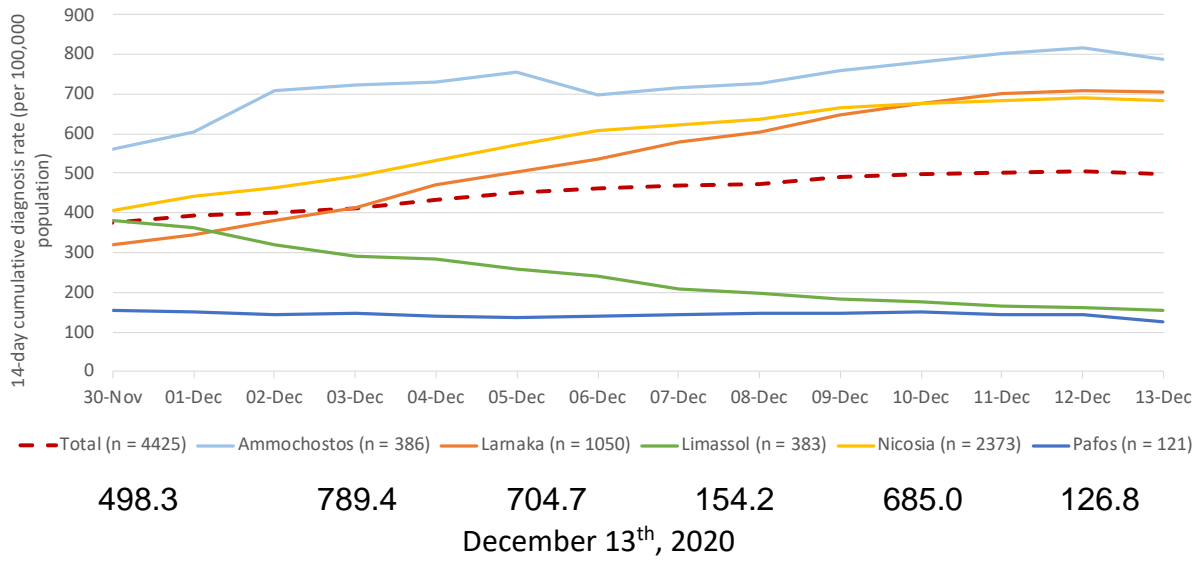




Figure A3A: Number of cases by origin of infection and by date of sample collection in the last 14 days (30 November – 13 December, 2020).

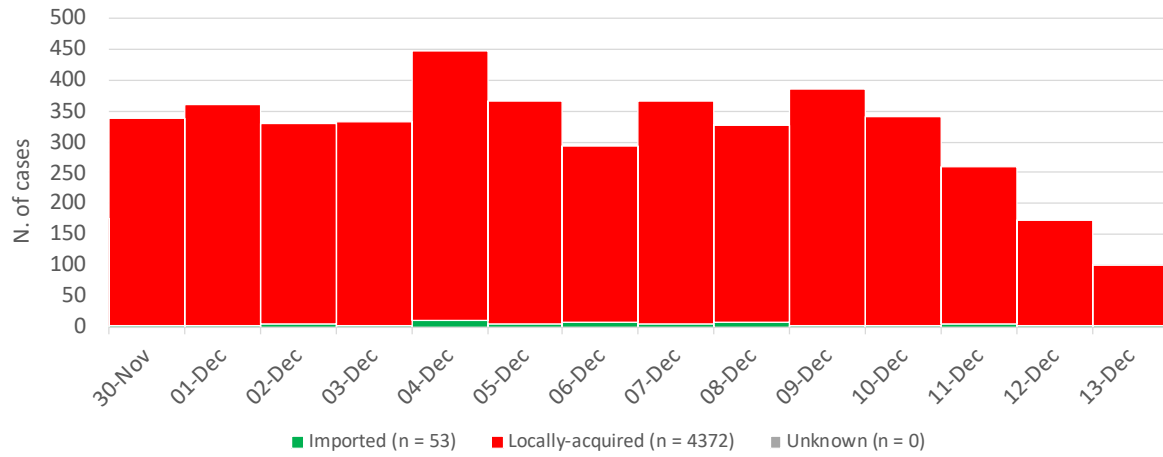




Figure A3B: Number and 7-day moving average of locally-acquired cases, by date of sample collection and district in the last 14 days (30 November – 13 December, 2020).

