



Coronavirus Disease 2019 (COVID-19)

National Surveillance Report as of 08/11/2020

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Summary

- As of November 8th, a total of 5,854 COVID-19 cases have been diagnosed, of which 33 died due to COVID-19 (case fatality risk: 0.6%).
- The 14-day cumulative diagnosis rate is 247.5 per 100,000 population.
- In the last 14 days (26 October - 08 November), 2,168 cases were diagnosed.
 - The median age is 35 years (Interquartile range - IQR: 23-52 years); 49.5% are female.
 - By place of exposure 7.5% (n = 163) were imported, 85.8% (n = 1,860) were locally-acquired, and 6.7% (n = 145) are unknown.
- As of November 11th, 66 people were hospitalized. The median age was 66 years (IQR: 57-78 years) and 68.2% were males.
- Among cases hospitalised, six were in intensive care units (ICU) and 4 were intubated. The median age of current ICU patients is 69.5 (IQR: 64-72) years and 83.3% are males. Five out of six (83.3%) patients currently in ICU have pre-existing conditions.
- A total of 511,689 tests have been performed as of November 8th (58,418.8 per 100,000 population). In particular, over the last 14 days, 47,773 tests have been performed (5,454.1 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 November 8th, 5,854 laboratory-confirmed cases of coronavirus disease 2019 (COVID-19) have been diagnosed (Figure 1, 2 and 3).

In the last 14 days (26 October-8 November), 2,168 cases have been diagnosed. The 14-day cumulative diagnosis rate of COVID-19 (per 100,000 population), a measure which reflects the number of active COVID-19 cases in the population (prevalence)¹, is 247.5 per 100,000 population (Figure 3).

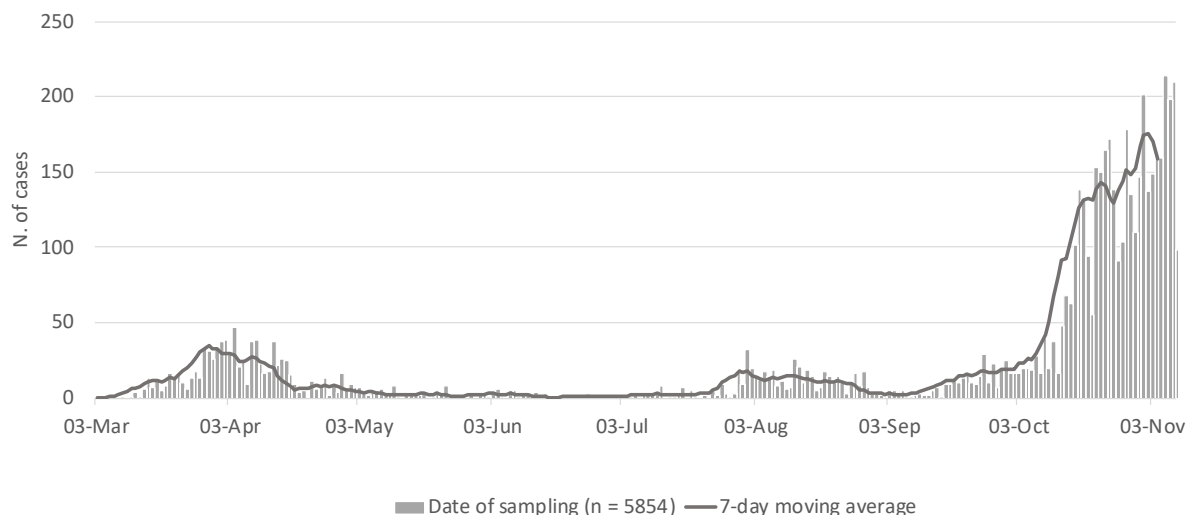


Figure 1: Number and 7-day moving average of laboratory-confirmed COVID-19 cases in Cyprus since 03/03/2020 by date of sample collection.

¹Coronavirus 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>

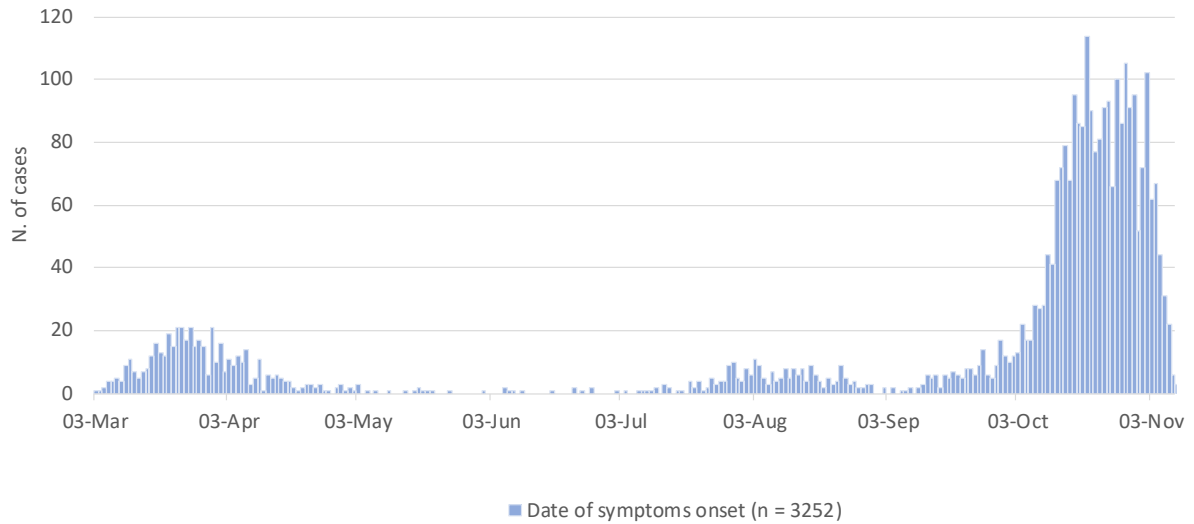


Figure 2: Number of laboratory-confirmed COVID-19 cases in Cyprus since 03/03/2020 by date of symptoms onset.

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.

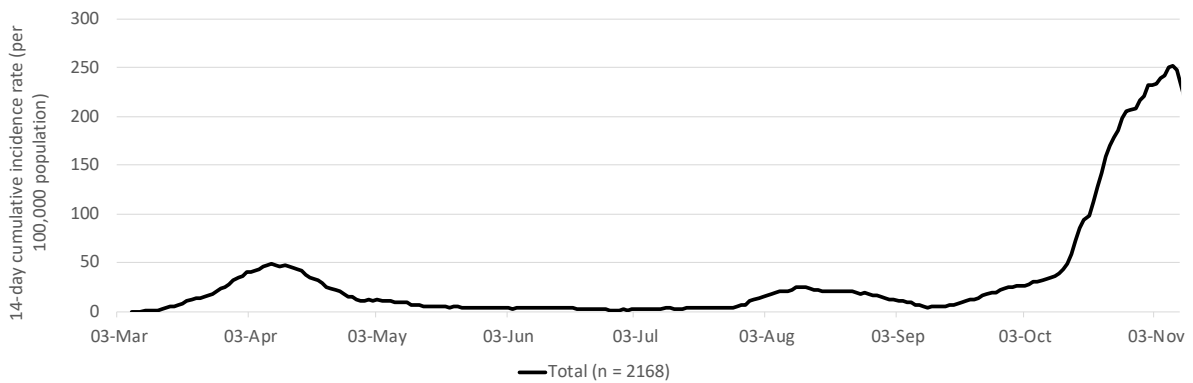


Figure 3: COVID-19 14-day cumulative diagnosis rate per 100,000 population (proxy of COVID-19 prevalence).



Characteristics of the cases diagnosed in the last 14 days

Age and sex

Among 2,168 cases diagnosed since 26th October, 49.5% are female (n = 1,073) and 48.5% male (n = 1,052); for 43 cases (2%) sex is unknown.

By age group, cases include 343 infants, children and adolescents aged 0-17 years-old (15.8%), 1,501 adults aged 18-59 years (69.2%), 305 persons aged 60 years and older (14.1%), and for 19 cases (0.9%) information was missing. Figure 4 shows the number of cases by 10-year age band. The median age of all cases diagnosed in the last 14 days is 35 years (IQR: 23-52 years). The median age of adult cases (≥ 18 years) is 40 years (IQR: 28-54 years).

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

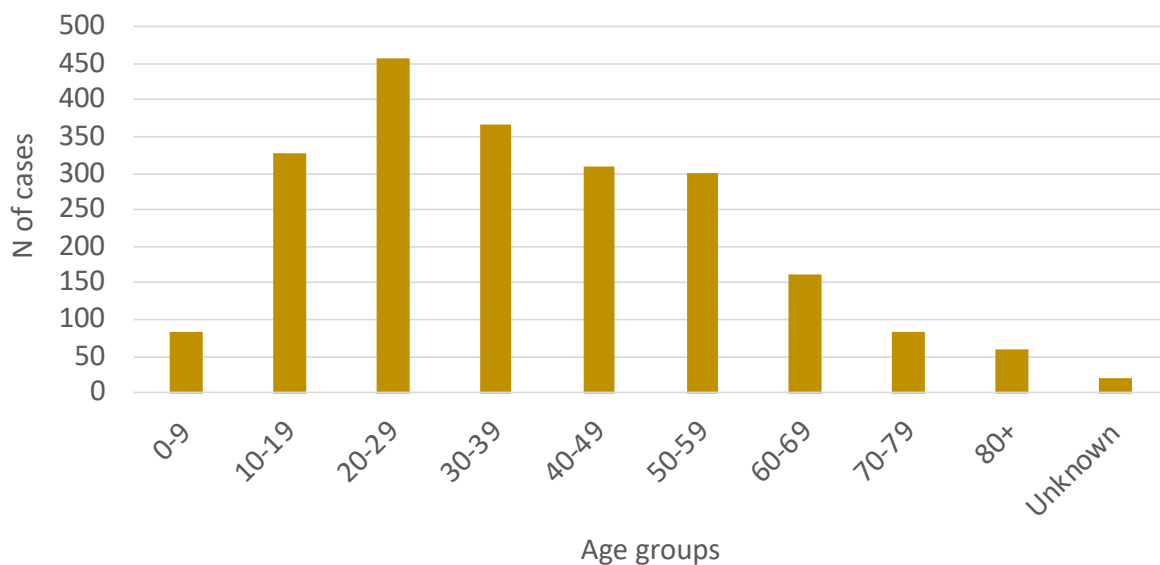


Figure 4: Laboratory-confirmed COVID-19 cases in Cyprus, diagnosed in the last 14 days, by age groups.

Among all cases diagnosed in the last 14 days, 1,266 (58.4%) were reported in Limassol district, 213 (9.8%) in Pafos, 351 (16.2%) in Nicosia, 173 (8.0%) in Larnaka, 86 (4%) in Ammochostos, and 79 (3.6%) 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 (26 October- 08 November), of 2,168 cases sampled and notified, 7.5% (n = 163) were imported, 85.8% (n = 1,860) were locally-acquired, and 6.7% (n = 145) are unknown. Table A1 and Figure A3 in Appendix show the characteristics of cases by origin of infection and the daily number of cases by origin of infection in the recent period, respectively.

Clinical features

Of the 2,168 laboratory-confirmed COVID-19-cases, clinical information is available for 93.4 % (n = 2,024), of which 30.7% (n = 621) reported no symptoms at diagnosis and 69.3% (n = 1,403) reported at least one symptom.

Pre-existing conditions

Information on comorbidities was available for 2,010 (92.7%) cases. Of these, 514 (25.6%) reported at least one comorbidity.



Deaths

Among cases diagnosed until November 8th, 33 COVID-19 associated deaths were reported in Cyprus (Case Fatality Risk - CFR: 0.6%).

The COVID-19 associated mortality is 3.8 per 100,000 population.

Twenty deaths (60.6%) occurred in men and 13 (39.4%) in women; the median age of all deaths was 76 years (IQR: 68-82 years). Ten deaths were reported among residents in Limassol, nine in Larnaka, seven in Pafos, five in Nicosia, and two in Ammochostos.

The median time from date of sampling to death (due to COVID-19) was 11 days (IQR: 5-18 days).

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

Over the last 14 days, seven deaths due to COVID-19 were reported (mortality associated with COVID-19: 0.8 per 100,000 population).

Among cases diagnosed until November 8th, 43 deaths (all causes) were reported in Cyprus (CFR: 0.7%).

The mortality (all-causes) for people with COVID-19 is 4.9 per 100,000 population.

Twenty-nine deaths (67.4%) occurred in men and 14 (32.6%) in women; the median age of all deaths was 76 years (IQR: 68-83 years). Twelve deaths were reported among residents in Larnaka and in Limassol, each, nine in Pafos, five in Nicosia, four in Ammochostos and one death 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 8 days (IQR: 4-18 days).

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

Over the last 14 days, ten deaths (all-causes) were reported (overall mortality among COVID-19 cases: 1.1 per 100,000 population).



Hospitalization and intensive care unit (ICU²) admissions³

In total, 6.9% (n = 401) of people with COVID-19 received hospital care, as of November 11th. The median age of hospitalized patients was 60 years (IQR: 47-73 years). Hospitalized cases were mainly males (n = 243; 60.6%).

The median age of patients still hospitalised (n = 66) is 66 years (IQR: 57-78 years), 68.2% (n = 45) are males, and 60.9% are from Limassol district. Forty-four cases (71%) still hospitalised have comorbidities.

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

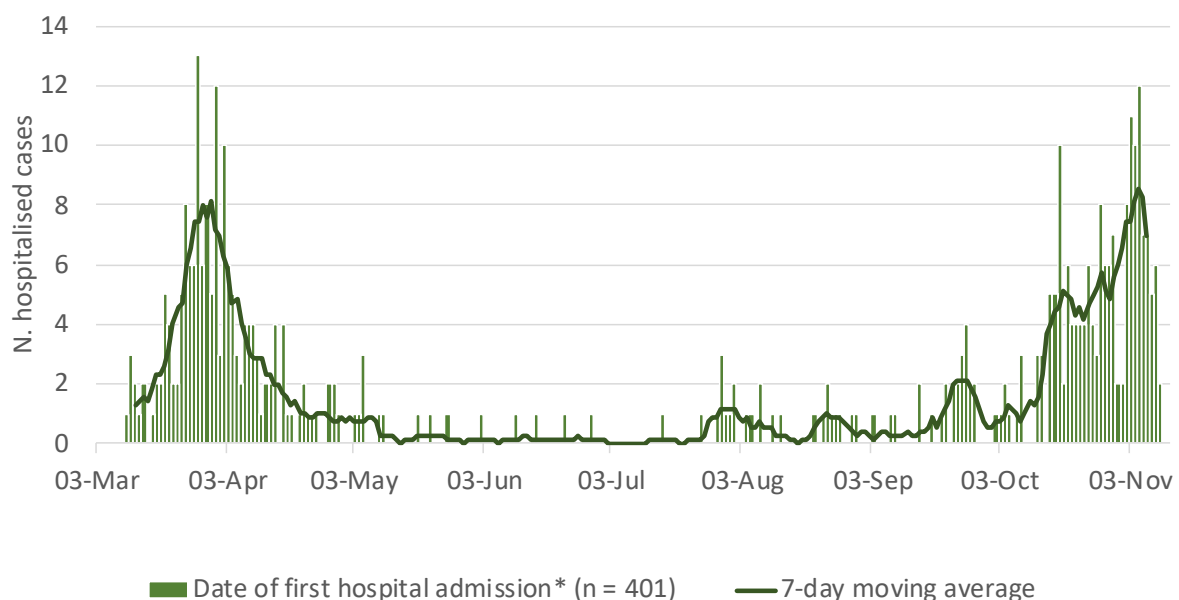


Figure 6a: Number and 7-day moving average of laboratory-confirmed COVID-19 cases by date of first hospital admission.

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

² Intensive care unit (ICU) refers only to the ICU in Limassol General Hospital and to the ICU in Nicosia General Hospital.

³ 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.



Figure 6b reports the number of individuals in hospital every day (excluding those in ICU).

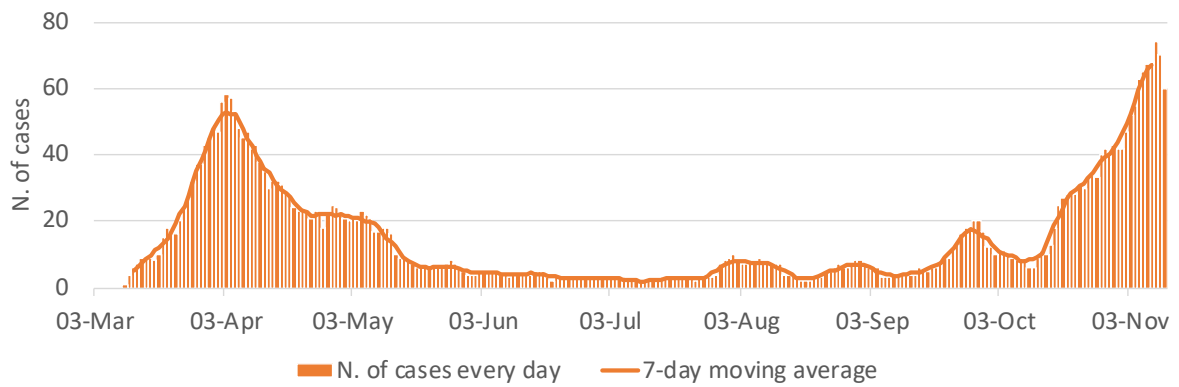


Figure 6b: Number and 7-day moving average of laboratory-confirmed COVID-19 cases in hospital every day (excluding those in ICU).
Patients in hospital for only part of the day (e.g. transferred, dead) are included.



Overall, 41 cases (10.2% of all hospitalized patients) have been admitted to ICU. The median age of patients ever admitted to ICU was 67 years (IQR: 58-74 years). ICU patients are mainly male (n = 31; 75.6%). The overall median length of stay in ICU (for all 39 ICU cases) was 11 days (IQR: 7-30 days).

As of November 11th, six cases are still in ICU (including deaths / discharged on that day). The median age of current ICU patients is 69.5 (IQR: 64-72) years and 83.3% are males. Five out of six (83.3%) patients currently in ICU have pre-existing conditions.

The number of cases currently in ICU is 0.7 per 100,000 population (as of November 11th, including deaths/discharged on that day).

A total of 36 ICU patients (87.8% of all ICU patients) have been intubated - currently there are four patients intubated in ICU (including deaths/discharged on that day). Figure 7 shows the number of patients in ICU, by day and intubation status.

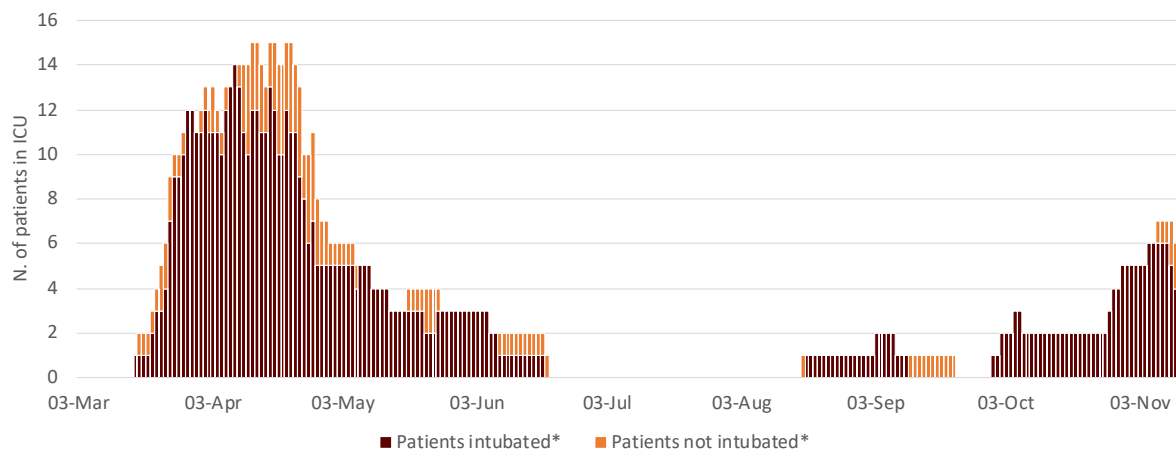


Figure 7: Number of laboratory-confirmed COVID-19 cases in ICU by date and intubation.

**Date of discharge/transfer/death included*



Recovered/released

As of November 11th, among cases alive, 34.8% (n = 2021) of COVID-19 cases have recovered⁴; of which 1,310 (64.8%) tested negative two consecutive times, and 711 (35.2%) have been released as per the new guidelines⁵. The median time between the second negative result and the first date of sampling was 19 days (IQR: 18-30 days).

⁴ For symptomatic cases, or for cases hospitalised, a COVID-19 case can be considered cured after the resolution of symptoms and two negative tests for SARS-CoV-2 at 24-hour interval at least. For asymptomatic cases, or for persons isolated at home, the negative tests to document virus clearance should be obtained at a minimum of 14 days after the initial positive test (end of the quarantine period).

Novel coronavirus (SARS-CoV-2). Discharge criteria for confirmed COVID-19 cases- When is it safe to discharge COVID-19 cases from the hospital or end home isolation? - Technical Report, 10 March 2020. Stockholm: ECDC; 2020.

⁵ A person is released 21 days after the initial diagnosis, if he/she has a positive test 14 days after the initial diagnosis and remains in isolation for one more week without being further tested.



Acknowledgments

We thank the companies CELLOCK (<https://cellock.com>) and GEOMATIC (<https://geomatic.com>) for their volunteering support.

Appendix

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

Characteristics	Total (n = 2168)		Imported (n = 163)		Locally-acquired (n = 1860)		Unknown (n = 145)	
	N	%	N	%	N	%	N	%
Sex								
Male	1052	48.5	78	47.9	892	48.0	82	56.6
Female	1073	49.5	84	51.5	940	50.5	49	33.8
Unknown	43	2.0	1	0.6	28	1.5	14	9.7
Age groups (years)								
0-9	83	3.8	2	1.2	78	4.2	3	2.1
10-19	328	15.1	31	19.0	286	15.4	11	7.6
20-29	457	21.1	56	34.4	361	19.4	40	27.6
30-39	366	16.9	20	12.3	318	17.1	28	19.3
40-49	310	14.3	21	12.9	268	14.4	21	14.5
50-59	300	13.8	20	12.3	265	14.2	15	10.3
60-69	163	7.5	9	5.5	148	8.0	6	4.1
70-79	83	3.8	3	1.8	76	4.1	4	2.8
80+	59	2.7	0	0.0	54	2.9	5	3.4
Unknown	19	0.9	1	0.6	6	0.3	12	8.3
Median age in years (IQR*)	35 (23-52)		25 (20-46)		36 (23-53)		33 (23-45)	
District								
Ammochostos	86	4.0	11	6.7	73	3.9	2	1.4
Larnaka	173	8.0	27	16.6	135	7.3	11	7.6
Limassol	1266	58.4	56	34.4	1151	61.9	59	40.7
Nicosia	351	16.2	38	23.3	286	15.4	27	18.6
Pafos	213	9.8	22	13.5	177	9.5	14	9.7
Other	79	3.6	9	5.5	38	2.0	32	22.1
Symptoms at diagnosis								
Yes	1403	64.7	85	52.1	1253	67.4	65	44.8
No	621	28.6	74	45.4	521	28.0	26	17.9
Unknown	144	6.6	4	2.5	86	4.6	54	37.2



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

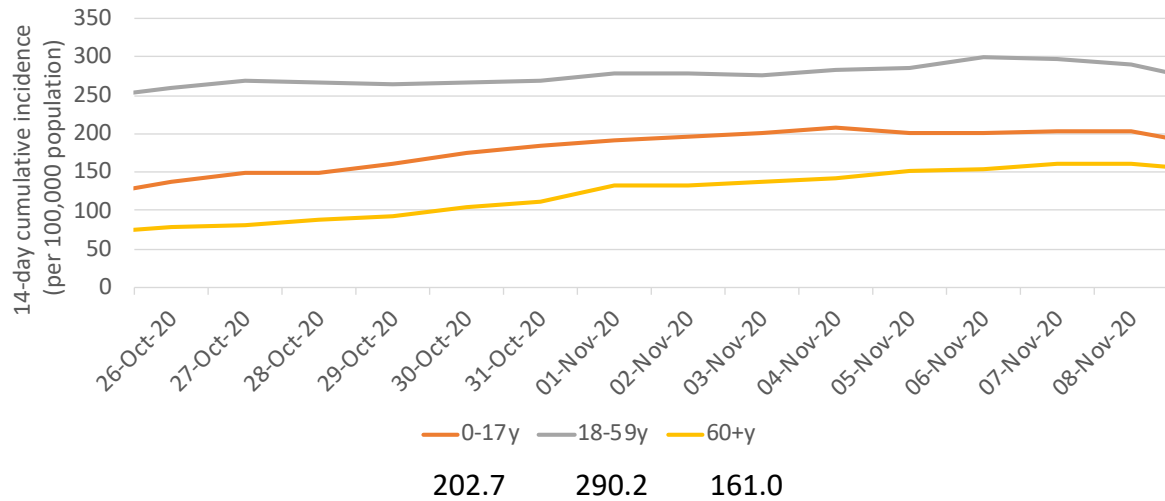
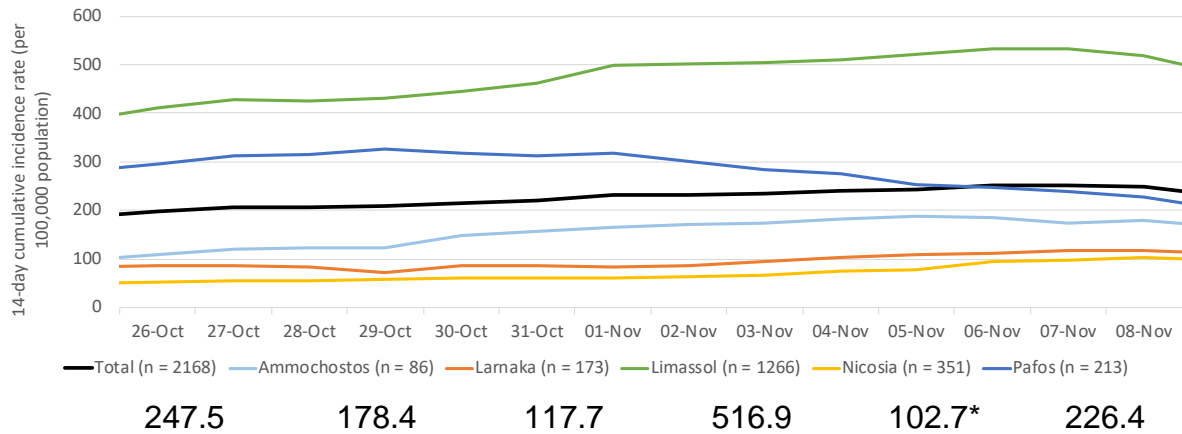




Figure A2: 14-day cumulative diagnosis rate (per 100,000 population) by district for the last 14 days.



*Excluding cases from the outbreak at the Meat Plant in Nicosia, the 14-day cumulative diagnosis rate is: 86 per 100,000 population



Figure A3: Number of cases by origin of infection, by date of sample collection in the last 14 days (26 October-08 November, 2020).

