



# **Coronavirus Disease 2019 (COVID-19)**

## **National Surveillance Report as of 02/01/2021**

Date of publication: 05/01/2021

Produced by the Epidemiological Surveillance Unit of the Ministry of Health

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Suggested citation: Epidemiological Surveillance Unit of the Ministry of Health, Cyprus. National Situation Report. Coronavirus Disease 2019 (COVID-19), 05 January 2021.



## Summary

- As of January 2<sup>nd</sup>, 2021, a total of 23,560 COVID-19 cases have been diagnosed, of which 132 died due to COVID-19 (case fatality risk: 0.6%).
- The 14-day cumulative diagnosis rate is 614.3 per 100,000 population.
- In the last 14 days (20 Dec, 2020 - 02 Jan, 2021), 5,455 cases were diagnosed.
  - The median age was 38 years (Interquartile range - IQR: 25-56 years); 53.6% were female (n = 2,923), 46.3% male (n = 2,527), and for 5 cases (0.1%) sex is unknown at the moment.
  - By place of exposure: 1.2% (n = 63) were imported and 98.8% (n = 5,392) were locally-acquired.
- As of January 3<sup>rd</sup>, 2021, 185 people were still hospitalized (currently notified). The median age of patients still hospitalized, as of 3<sup>rd</sup> January, is 69 years (IQR: 56-79 years), 64.9% (n = 120) are males, and 26% (n = 48) are from Nicosia district.
- Of 30 cases in intensive care units (ICU), who are currently notified, 22 are intubated. The median age of current ICU patients is 69 (IQR: 64-76) years and 18 (60%) are males. Twenty-two (73.3%) patients currently in ICU have pre-existing conditions.



## 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 January 2<sup>nd</sup>, 2021, 23,560 cases of coronavirus disease 2019 (COVID-19) have been diagnosed (laboratory-confirmed) (Figure 1, 2 and 3).

In the last 14 days (20 Dec, 2020 - 02 Jan, 2021), 5,455 cases have been diagnosed. The 14-day cumulative diagnosis rate of COVID-19 (per 100,000 population)<sup>1</sup>, a measure which reflects the number of active COVID-19 cases in the population (prevalence)<sup>2</sup>, is 614.3 per 100,000 population (Figure 3).

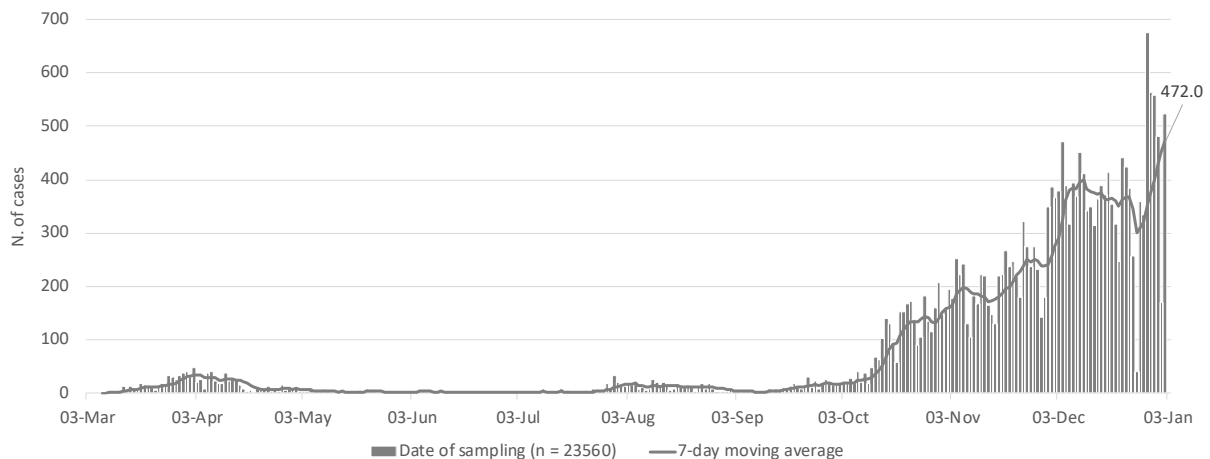


Figure 1: Number and 7-day moving average (last moving average on Jan 2<sup>nd</sup>, 2021, is shown on the graph) of laboratory-confirmed COVID-19 cases in Cyprus since 03/03/2020 by date of sample collection\*.

\* when date of sample collection was not available, laboratory result date or hospitalisation date was used.

<sup>1</sup>Population 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](https://www.mof.gov.cy/mof/cystat/statistics.nsf/populationcondition_21main_en/populationcondition_21main_en?OpenForm&sub=1&sel=4)

<sup>2</sup>Coronavirus 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>

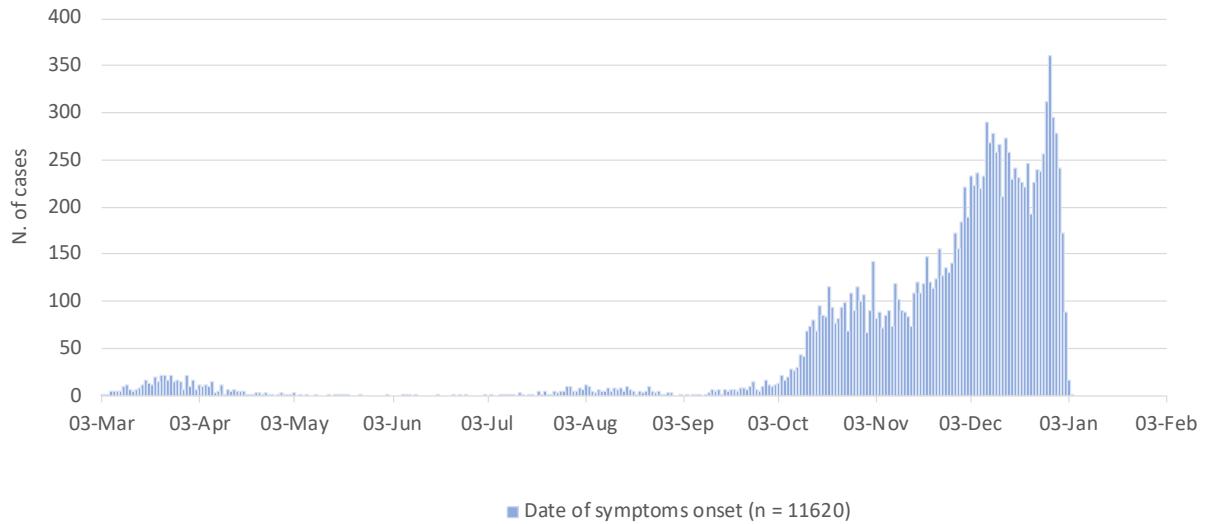


Figure 2: Number of laboratory-confirmed COVID-19 cases in Cyprus since 03/03/2020 by date of symptoms onset.

**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.**

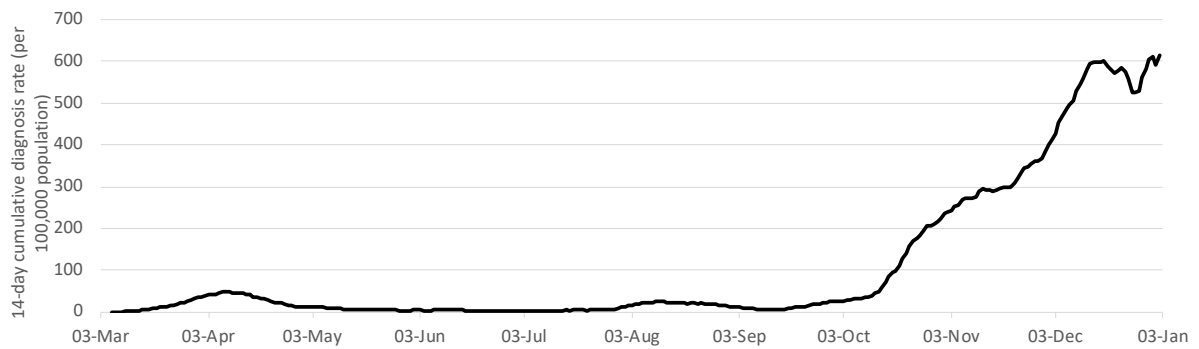


Figure 3: COVID-19 14-day cumulative diagnosis rate per 100,000 population (proxy of COVID-19 prevalence).



## Characteristics of cases diagnosed in the last 14 days

### Age, sex, and place of residence

Among 5,455 cases diagnosed since 20<sup>th</sup> December, 2020, 53.6% were female (n = 2,923), 46.3% male (n = 2,527), and for 5 cases (0.1%) sex is unknown at the moment.

By age group, cases included 883 infants, children and adolescents aged 0-19 years-old (16.2%), 3,491 adults aged 20-59 years (64%), 1,067 persons aged 60 years and older (19.6%), and for 14 cases (0.3%) age is unknown at the moment. 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 38 years (IQR: 25-56 years). The median age of adult cases ( $\geq 18$  years) is 43 years (IQR: 30-58 years).

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

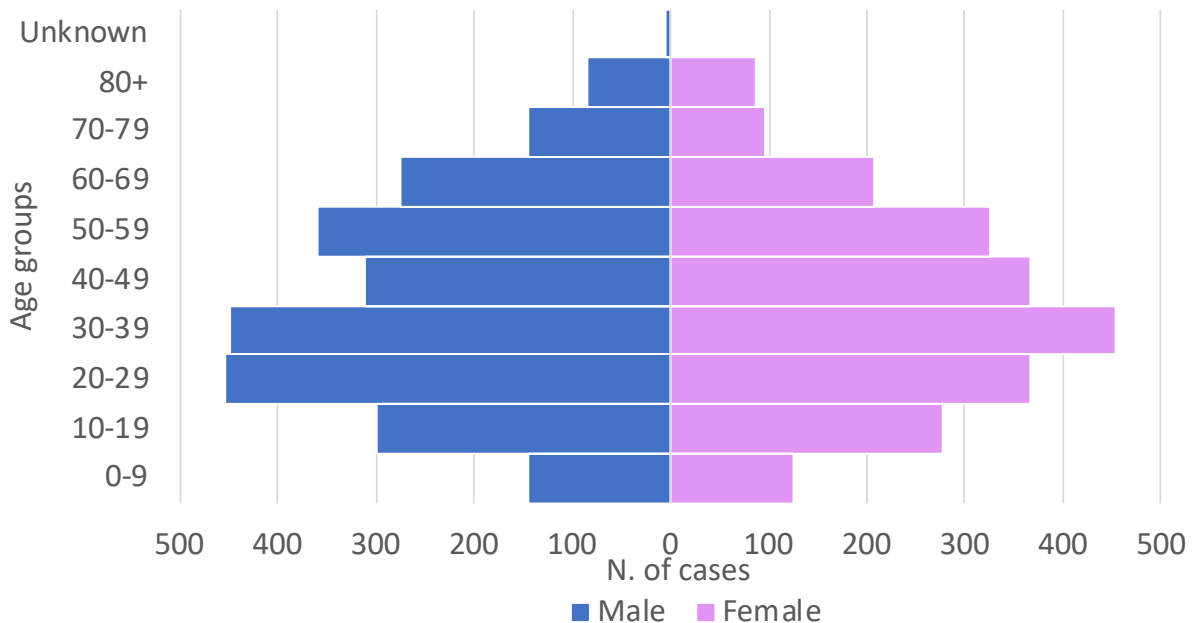


Figure 4: Laboratory-confirmed COVID-19 cases in Cyprus, diagnosed in the last 14 days, by age group and sex.

Among all cases diagnosed in the last 14 days, 2,139 (39.2%) were reported in Nicosia district, 1,470 (27%) in Larnaka, 1,098 (20.1%) in Limassol, 323 (5.9%) in Ammochostos, 319 (5.9%) in Pafos, and 106 (2%) 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 (20 Dec, 2020 – 02 Jan, 2021), of 5,455 cases sampled and notified, 1.2% (n = 63) were imported and 98.8% (n = 5,392) 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 (20 Dec, 2020 – 02 Jan, 2021), 28.8% (n = 1,541) reported no symptoms at diagnosis and 71.2% (n = 3,883) reported at least one symptom.

### Pre-existing conditions

In the last 14 days (20 Dec, 2020 – 02 Jan, 2021), 1,509 cases (27.8%) reported at least one comorbidity.



## Deaths

Among cases, 132 COVID-19 associated deaths were reported in Cyprus until January 4<sup>th</sup>, 2021 (Case Fatality Risk - CFR: 0.6%).

The COVID-19 associated mortality is 14.9 per 100,000 population.

Deaths occurred in 88 men (66.7%) and 44 (33.3%) women; the median age of all COVID-19 associated deaths was 82 years (IQR: 74-87 years). By district of residence, deceased cases were 45 (34.1%) from Nicosia, 44 (33.3%) from Limassol, 22 (16.7%) from Larnaka, 11 (8.3%) from Ammochostos, 9 (6.8%) from Pafos and one death (0.8%) 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 (due to COVID-19) was 12 days (IQR: 7-18 days).

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

Among cases, 162 deaths (all causes) were reported in Cyprus until January 4<sup>th</sup>, 2021 (CFR: 0.7%).

The mortality (all-causes) for people with COVID-19 is 18.2 per 100,000 population.

Deaths occurred in 108 men (66.7%) and 54 (33.3%) women; the median age of all deaths was 82 years (IQR: 74-87 years). By district of residence, deceased cases were 57 (35.2%) from Limassol, 50 (30.9%) from Nicosia, 27 (16.7%) from Larnaka, 13 (8%) from Ammochostos, 12 (7.4%) from Pafos, and three deaths (1.9%) 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 11 days (IQR: 6-18 days).

Figure 5b reports the number of all deaths among people with COVID-19 by date.

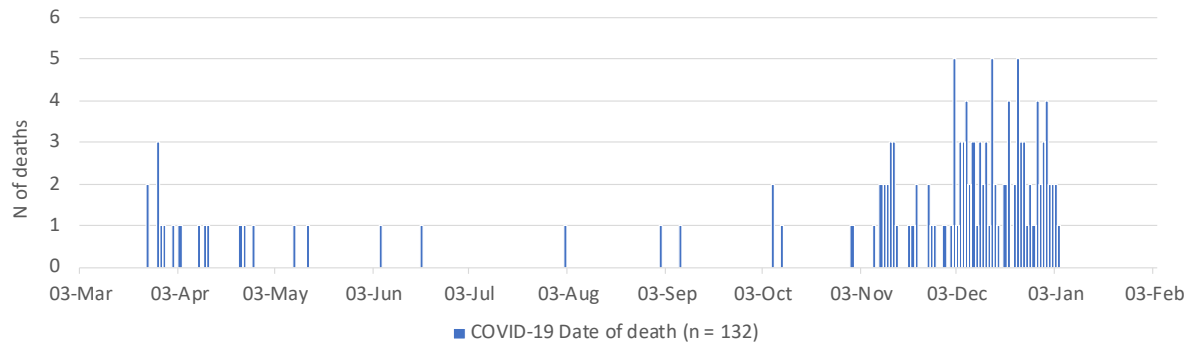


Figure 5a: Number of COVID-19 associated deaths in Cyprus by date of death.

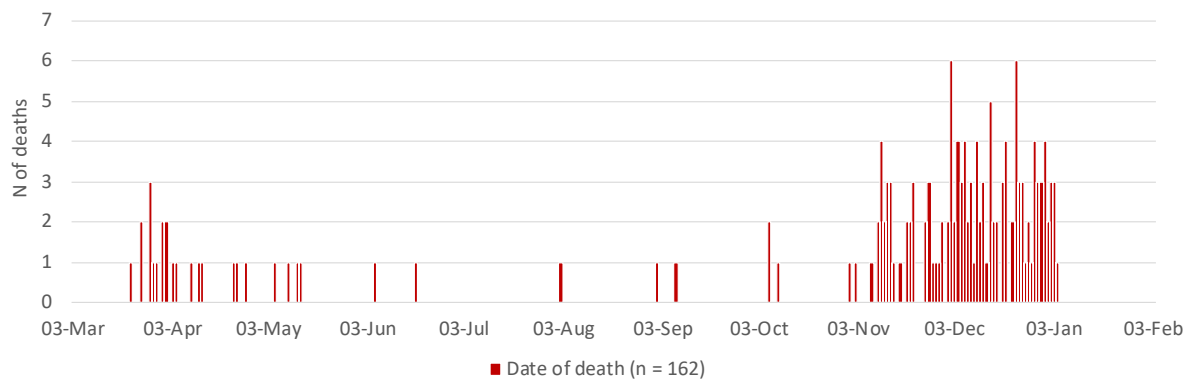


Figure 5b: Number of deaths (all causes) among COVID-19 cases in Cyprus by date of death.





## Hospitalization and intensive care unit (ICU<sup>3</sup>) admissions<sup>4</sup>

In total, 4.7% (n = 1,096) of people with COVID-19 received hospital care, as of January 4<sup>th</sup>, 2021. The median age of hospitalized patients was 65 years (IQR: 50-78 years). Hospitalized cases were mainly males (n = 642; 58.6%).

The median age of patients still hospitalised as of 3<sup>rd</sup> of January, 2021 (n = 185) is 69 years (IQR: 56-79 years), 64.9% (n = 120) are males, and 26% (n = 48) are from Nicosia district. One-hundred-four cases (68.4%) still hospitalised have comorbidities.

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

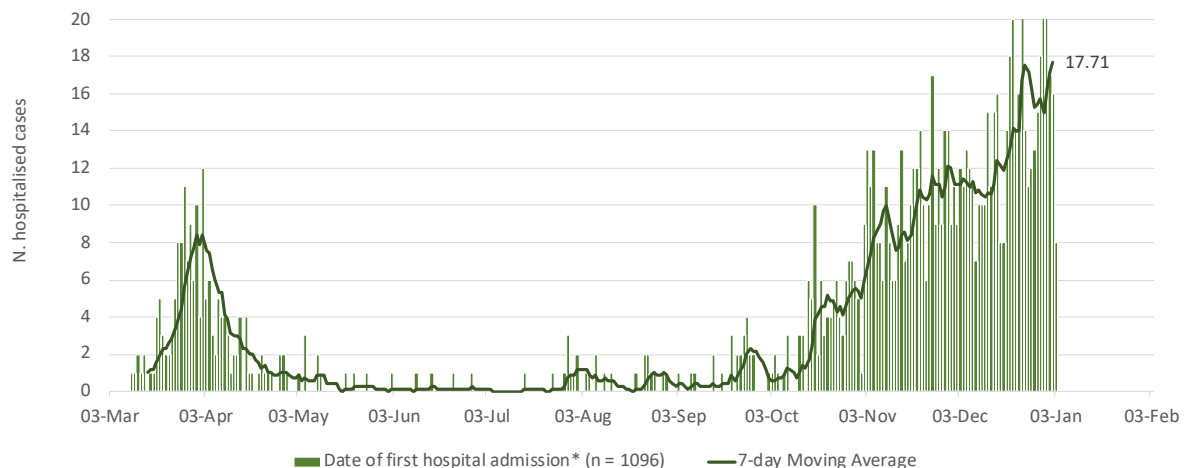


Figure 6a: Number and 7-day moving average (last moving average on Jan 2<sup>nd</sup>, 2021 is shown on the graph) of laboratory-confirmed COVID-19 cases by date of first hospital admission.

*\*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.**

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

<sup>4</sup> 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).

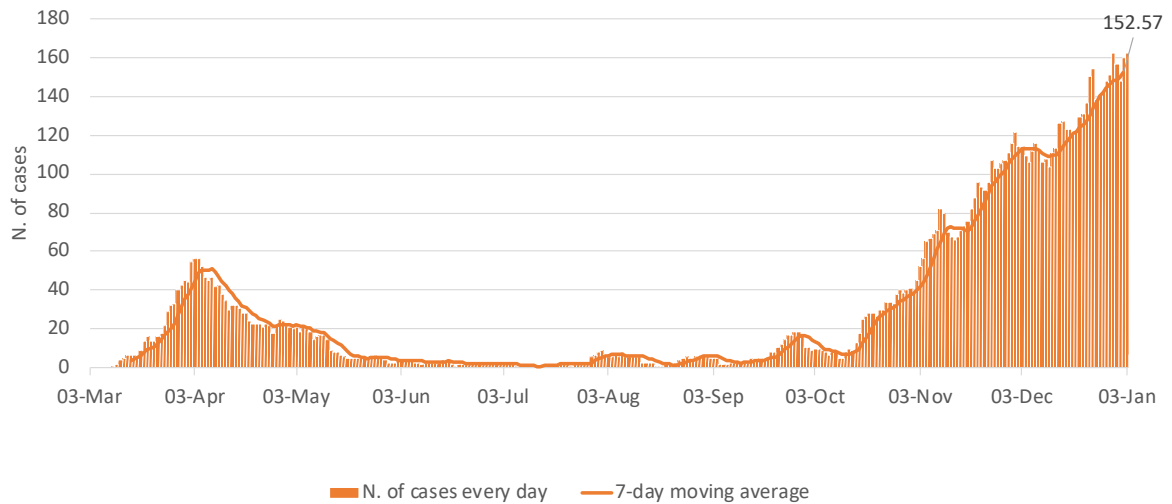


Figure 6b: Number and 7-day moving average (last moving average on Jan 2<sup>nd</sup>, 2021 is shown on the graph) of laboratory-confirmed COVID-19 cases in hospital every day (excluding those in ICU).

*Patients in hospital for only part of the day (e.g. transferred, dead) are included.*

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



Overall, 102 cases (9.4% 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 = 73; 71.6%). The overall median length of stay in ICU (for all ICU cases) was 12 days (IQR: 8-22 days).

As of January 3<sup>rd</sup>, 2021 and based on records which rapidly evolve, 30 cases are still in ICU (including deaths / discharged on that day). The median age of current ICU patients is 69 (IQR: 64-76) years and 18 (60%) are males. Twenty-two (73.3%) patients currently in ICU have pre-existing conditions.

The number of cases currently in ICU is 3.4 per 100,000 population (as of January 3<sup>rd</sup>, including deaths/discharged on that day).

A total of 94 ICU patients (90.2% of all ICU patients) have been intubated - currently there are 22 patients intubated in ICU (including deaths/discharged on that day). Figure 7 shows the number of patients in ICU, by day and intubation status.

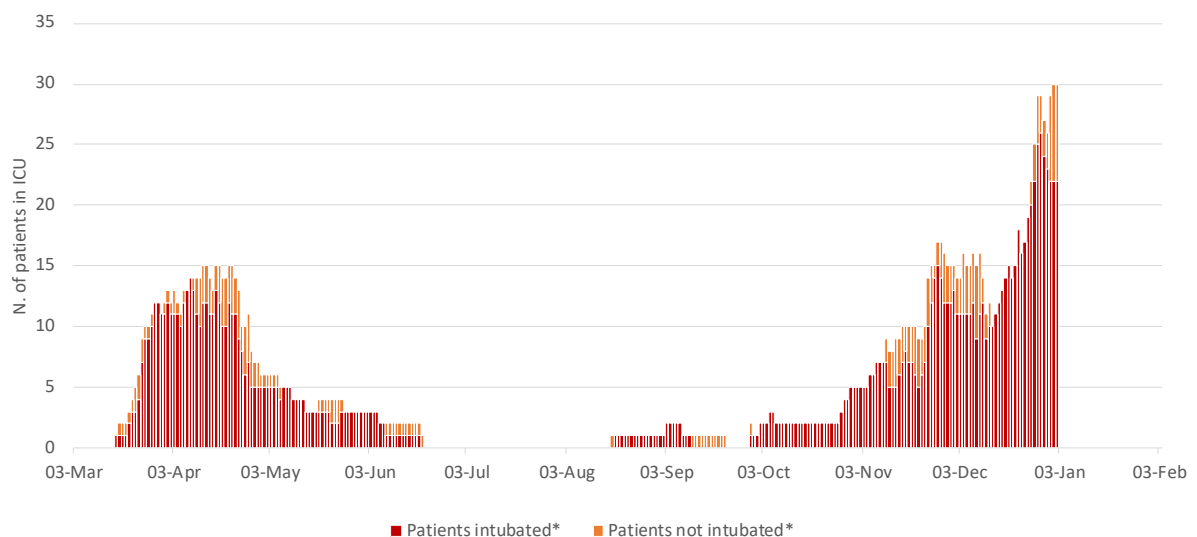


Figure 7: Number of laboratory-confirmed COVID-19 cases in ICU by date and intubation.

*\*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 (20 Dec, 2020 – 02 Jan, 2021).

Characteristics	Total (n = 5455)		Imported (n = 63)		Locally-acquired (n = 5392)	
	N	%	N	%	N	%
Sex						
Male	2527	46.3	31	49.2	2496	46.3
Female	2923	53.6	30	47.6	2893	53.6
Unknown	5	0.1	2	3.2	3	0.1
Age groups (years)						
0-9	262	4.8	2	3.2	260	4.8
10-19	621	11.4	7	11.1	614	11.4
20-29	958	17.6	14	22.2	944	17.5
30-39	988	18.1	14	22.2	974	17.5
40-49	743	13.6	5	7.9	738	18.1
50-59	802	14.7	10	15.9	792	13.7
60-69	576	10.6	7	11.1	569	14.7
70-79	314	5.8	3	4.8	311	10.6
80+	177	3.2	1	1.6	176	5.8
Unknown	14	0.3	0	0.0	14	3.3
Median age in years (IQR)	38 (25-56)		33 (23-54)		38 (25-56)	
District						
Ammochostos	323	5.9	2	3.2	321	6.0
Larnaka	1470	26.9	19	30.2	1451	26.9
Limassol	1098	20.1	13	20.6	1085	20.1
Nicosia	2139	39.2	16	25.4	2123	39.4
Pafos	319	5.8	11	17.5	308	5.7
Other	106	1.9	2	3.2	104	1.9
Symptoms at diagnosis						
Yes	3,883	71.2	32	50.8	3851	71.4
No	1572	28.8	31	49.2	1541	28.6
Unknown	0	0.0	0	0.0	0	0.0



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

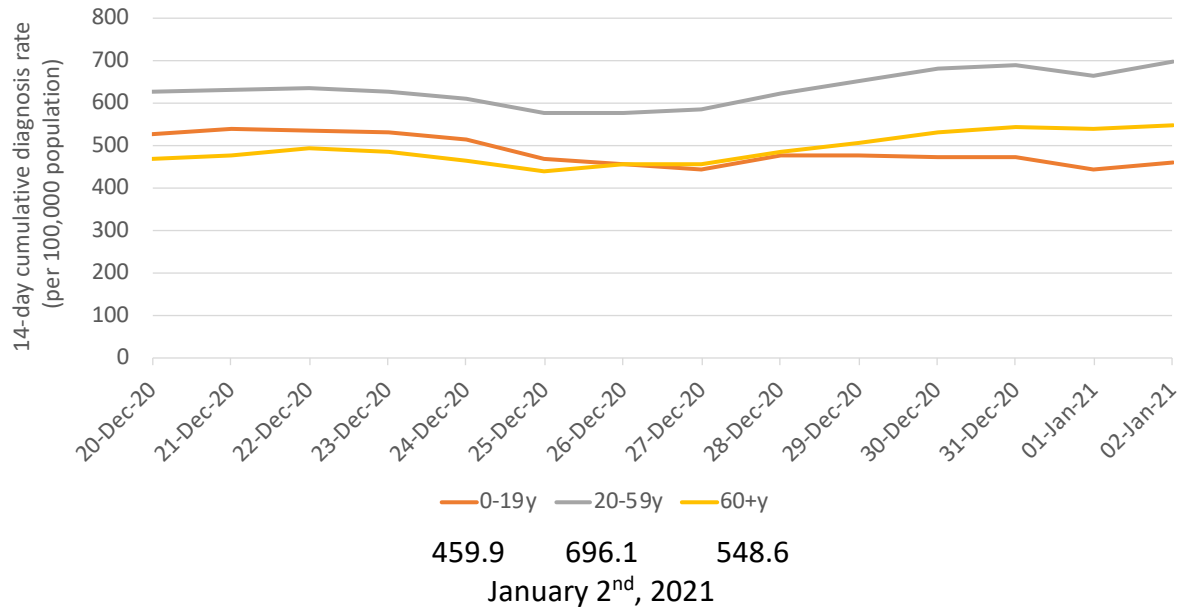




Figure A2: 14-day cumulative diagnosis rate (per 100,000 population) by district for the last 14 days.

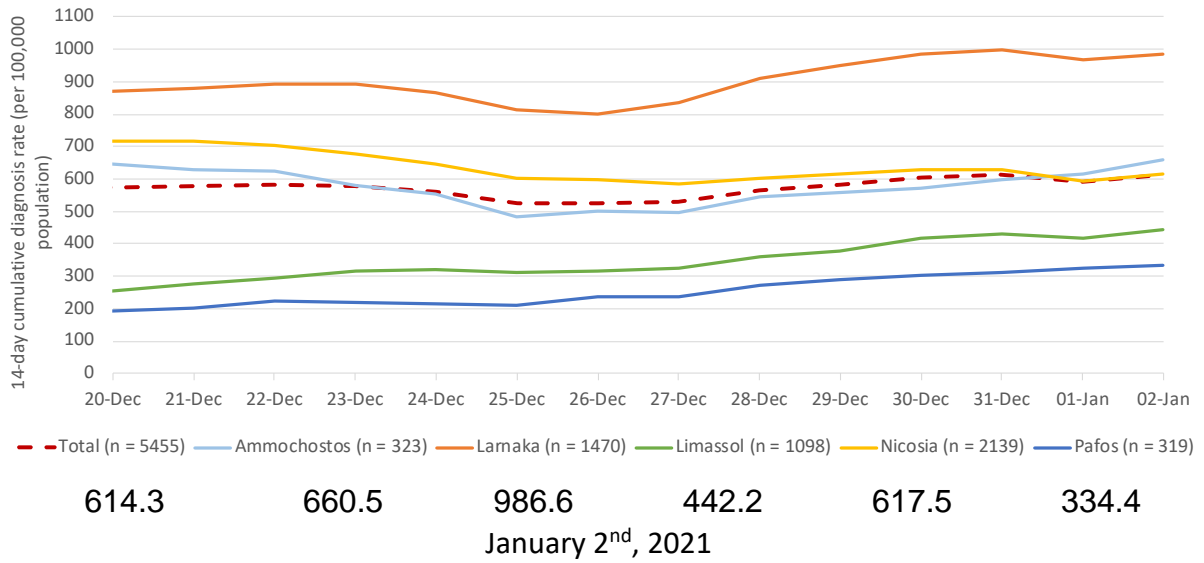






Figure A3A: Number of cases by origin of infection and by date of sample collection in the last 14 days (20 Dec, 2020 – 02 Jan, 2021).

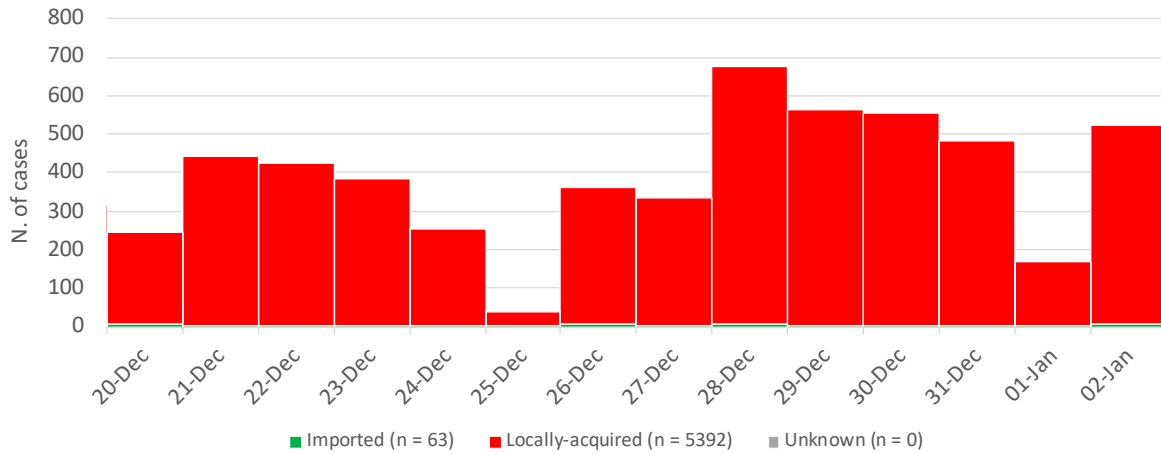




Figure A3B: Number and 7-day moving average of locally-acquired cases, by date of sample collection and district in the last 14 days (20 Dec, 2020 – 02 Jan, 2021).

