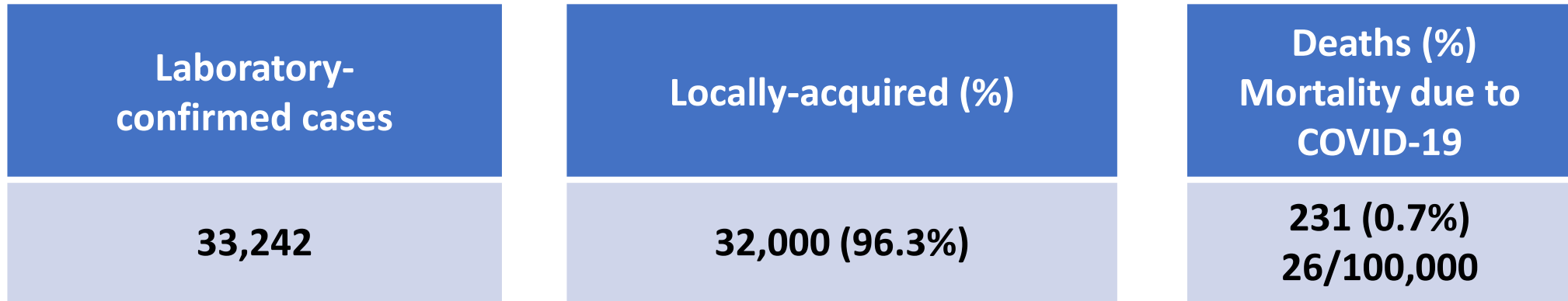


# **Coronavirus Disease 2019 (COVID-19) in the Republic of Cyprus**

**Surveillance Report as of 23/02/2021**

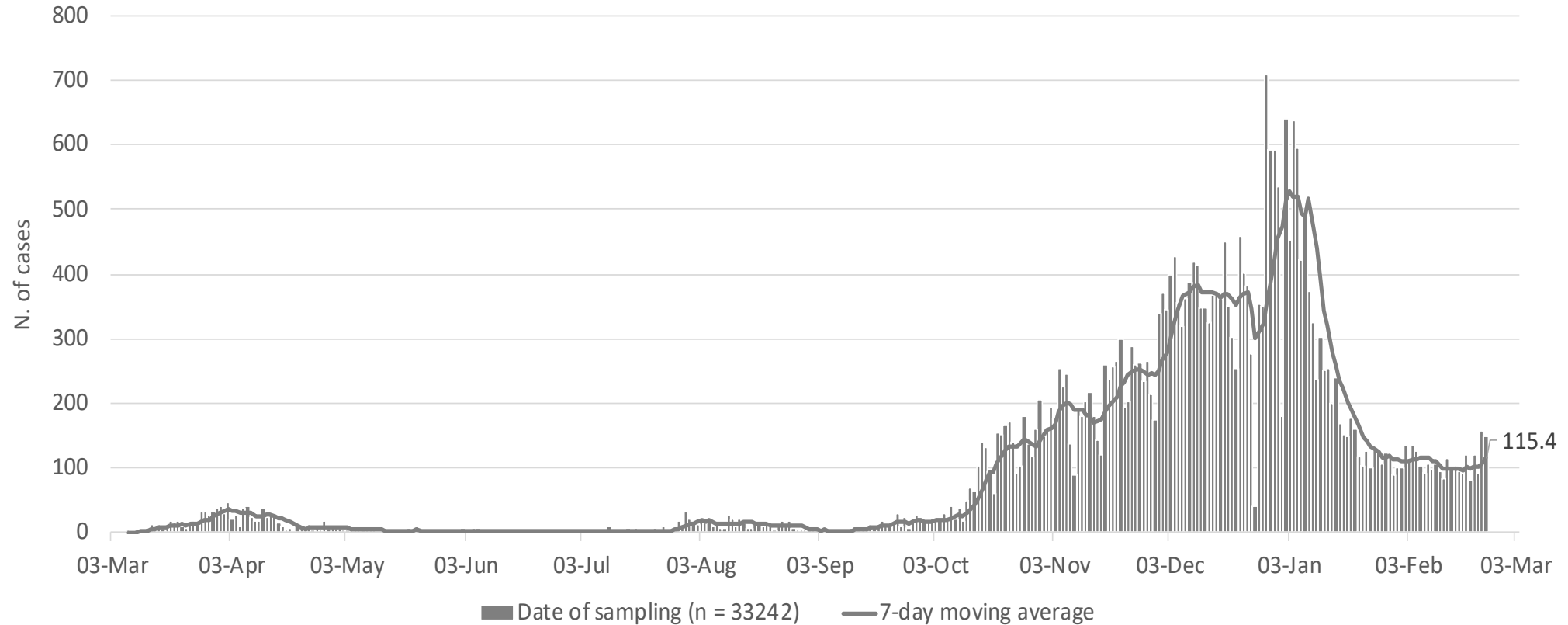
Nicosia 26/02/2021

# Data in brief



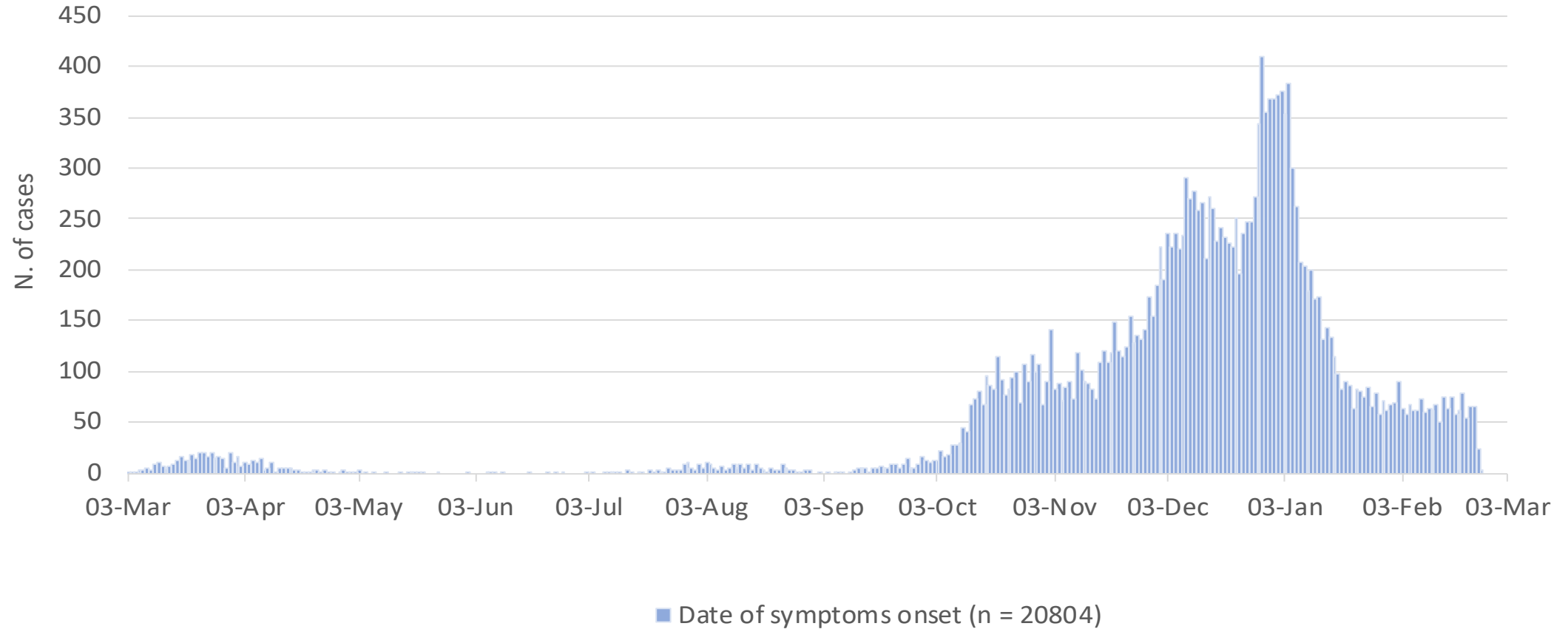
*\*Date of discharge/transfer/death included*

# Laboratory-confirmed cases by date of sampling

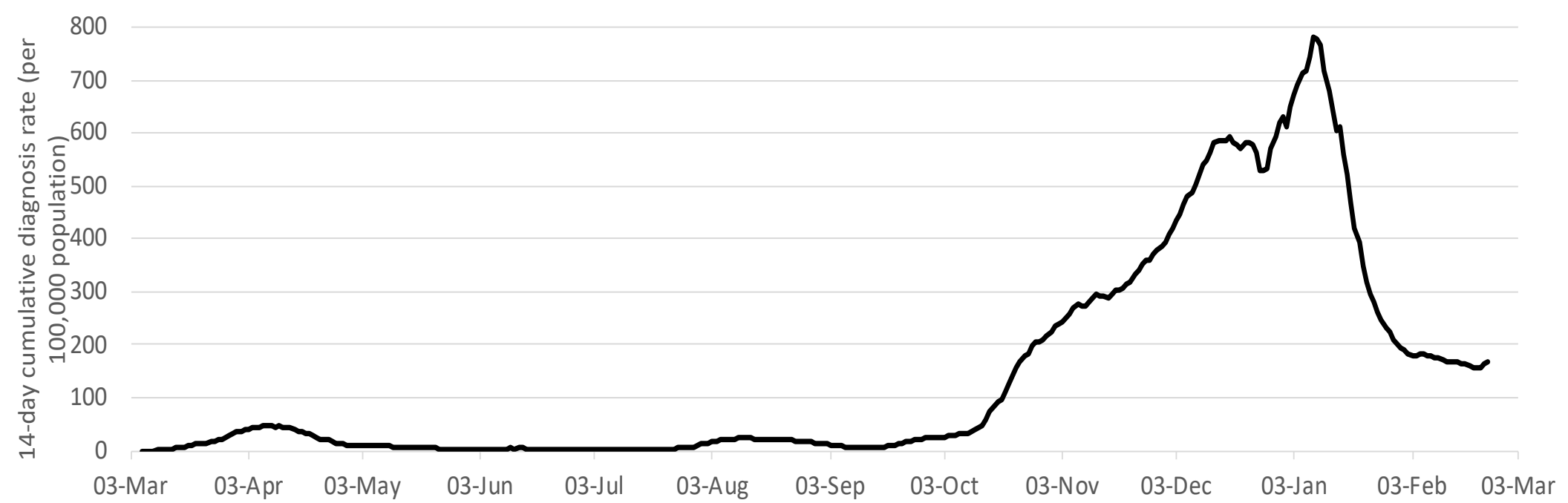


7-day moving average on Feb 23<sup>rd</sup> is shown on the graph

# Laboratory-confirmed cases by date of symptom onset



# COVID-19 14-day cumulative diagnosis rate per 100,000 population (proxy of COVID-19 prevalence)



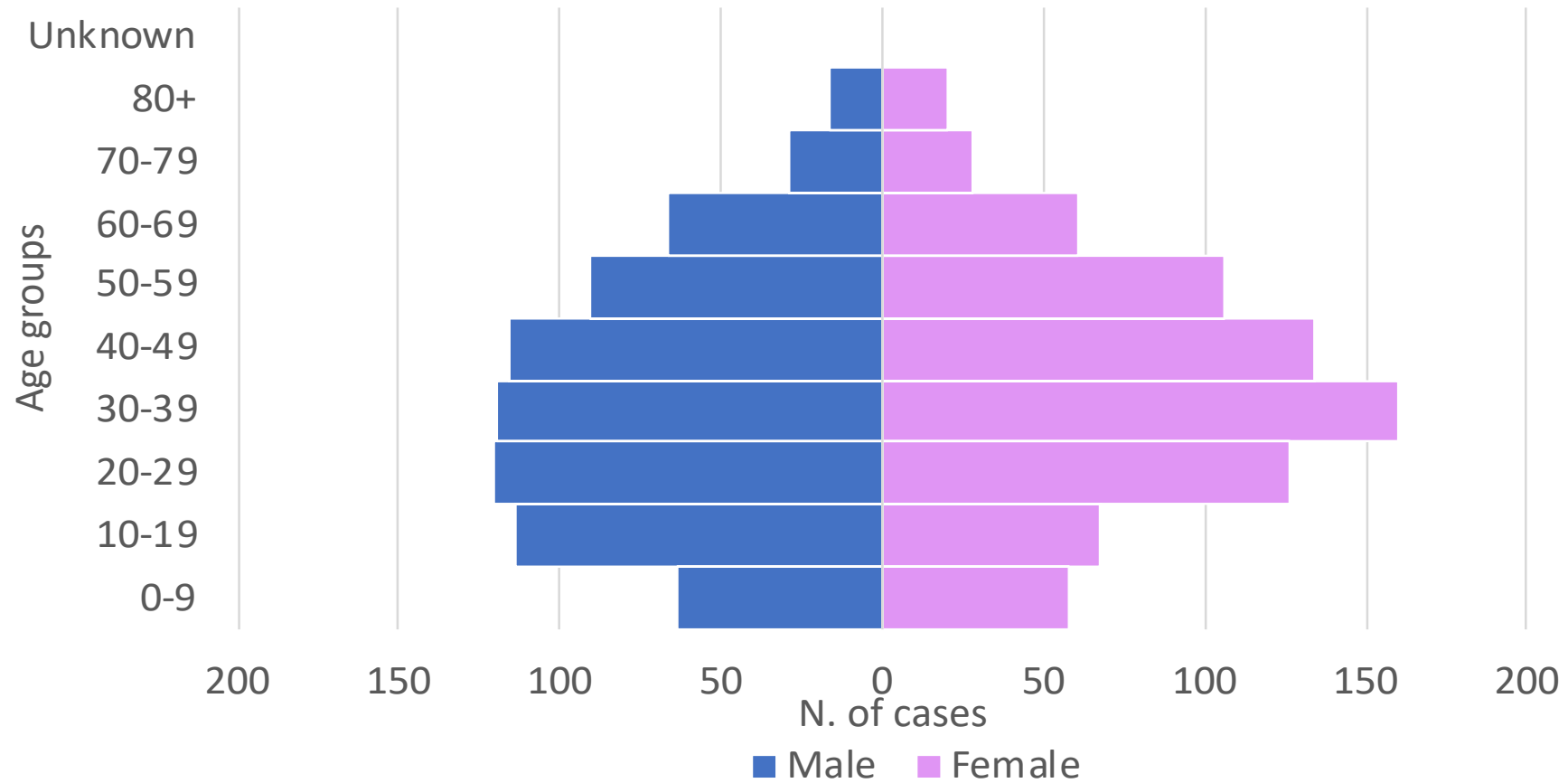
# Data in brief (Last 14 days; 10 - 23 Feb, 2021)

Laboratory-confirmed cases	Locally-acquired (%)
1,498	1,476 (98.5%)

Currently in Intensive Care Unit*
19

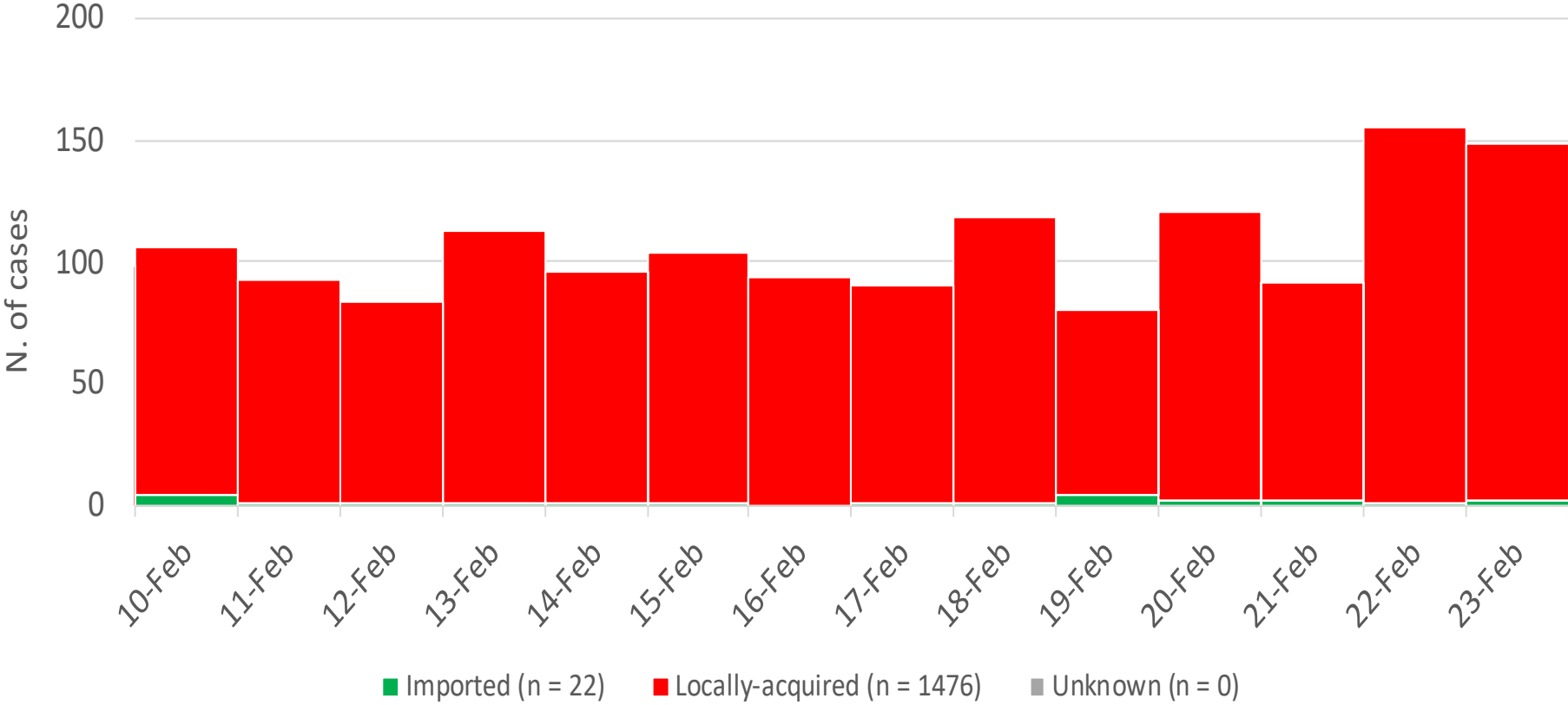
*\*Date of discharge/transfer/death included*

# Distribution of cases diagnosed in the last 14 days by sex and age group (n = 1.498)



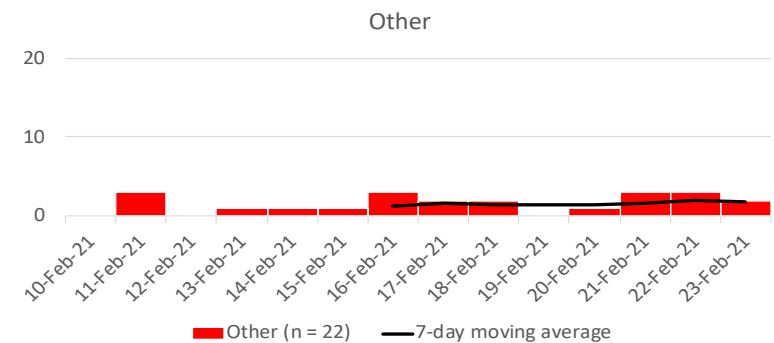
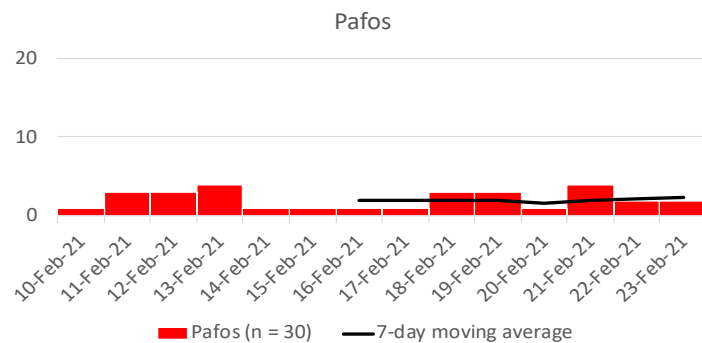
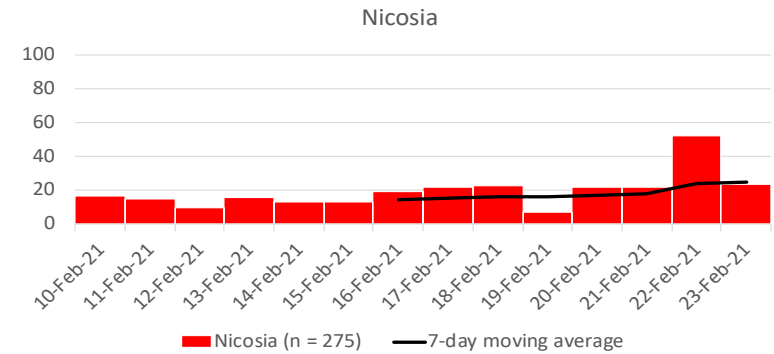
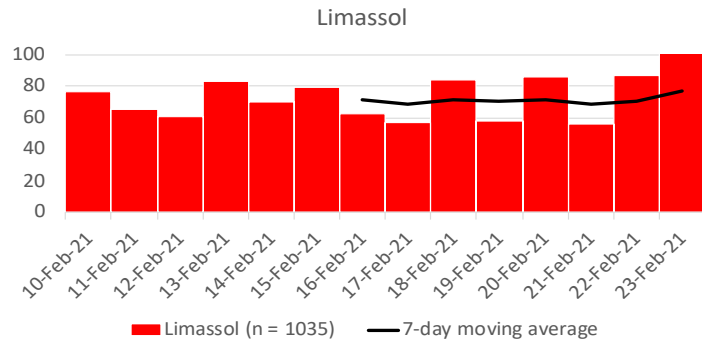
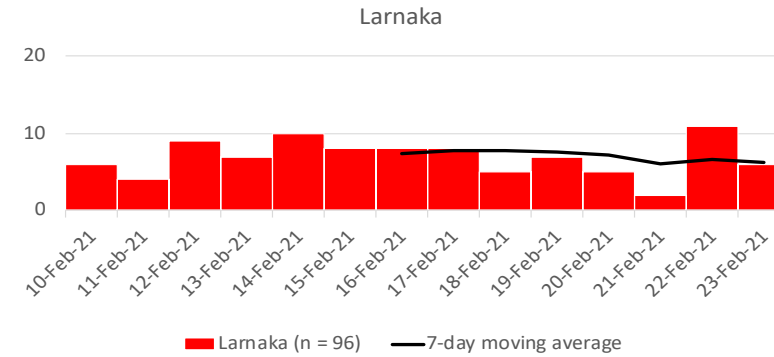
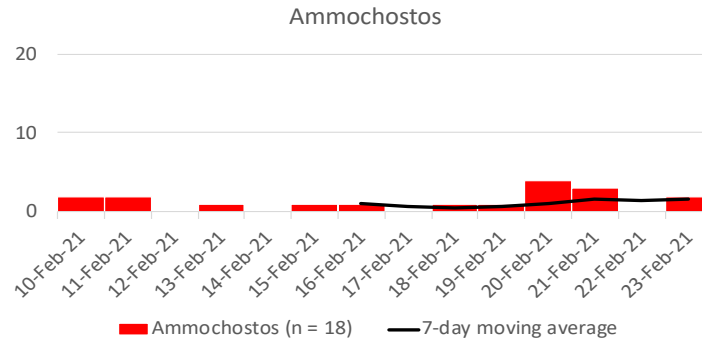
Median age: 37 years (interquartile range: 23-51 years)

# COVID-19 cases by origin of infection and by date of sampling for the last 14 days





# COVID-19 locally-acquired cases by date of sampling and district for the last 14 days

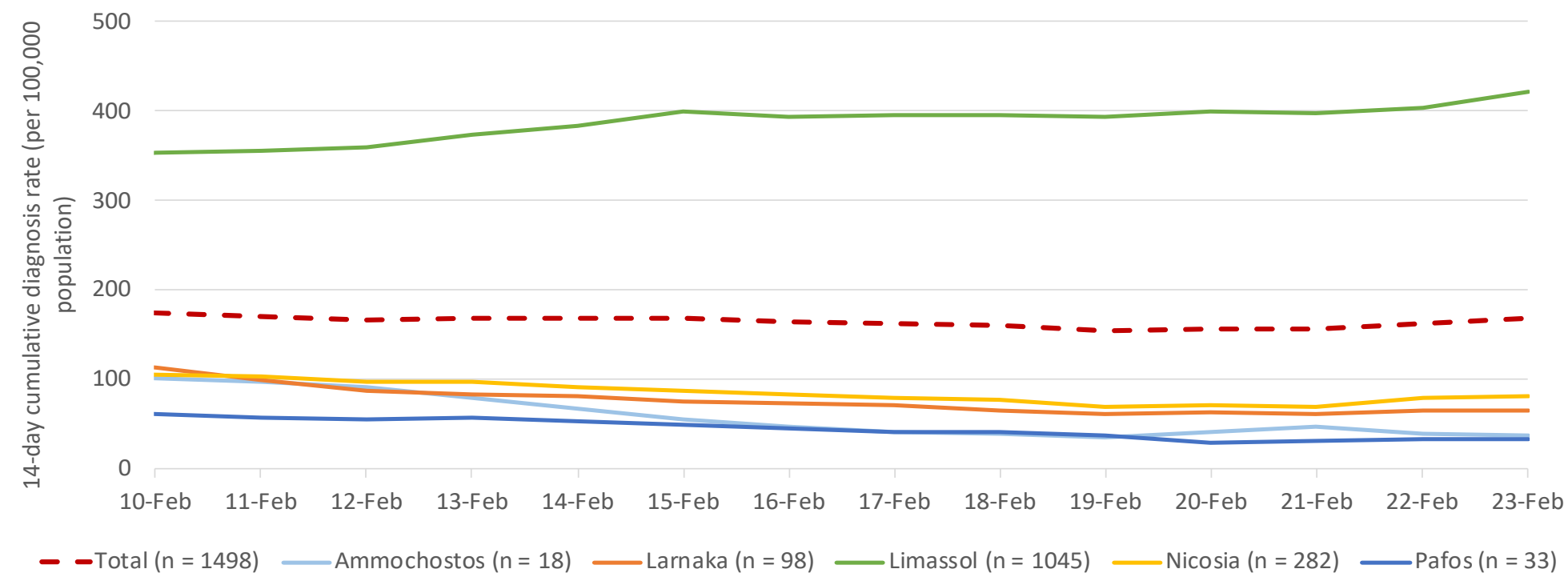


# COVID-19 cases characteristics for the last 14 days

Characteristics	Total (n = 1498)		Imported (n = 22)		Locally-acquired (n = 1476)	
	N	%	N	%	N	%
<b>Sex</b>						
Male	738	49.3	12	54.5	726	49.2
Female	760	50.7	10	45.5	750	50.8
Unknown	0	0.0	0	0.0	0	0.0
<b>Age groups (years)</b>						
0-9	122	8.1	0	0.0	122	8.3
10-19	181	12.1	4	18.2	177	12.0
20-29	247	16.5	8	36.4	239	16.2
30-39	280	18.7	6	27.3	274	18.6
40-49	250	16.7	1	4.5	249	16.9
50-59	197	13.2	2	9.1	195	13.2
60-69	128	8.5	1	4.5	127	8.6
70-79	57	3.8	0	0.0	57	3.9
80+	36	2.4	0	0.0	36	2.4
Unknown	0	0.0	0	0.0	0	0.0
<b>Median age in years (IQR)</b>	37 (23-51)		29 (22-36)		37 (23-51)	
<b>District</b>						
Ammochostos	18	1.2	0	0.0	18	1.2
Larnaka	98	6.5	2	9.1	96	6.5
Limassol	1045	69.8	10	45.5	1035	70.1
Nicosia	282	18.8	7	31.8	275	18.6
Pafos	33	2.2	3	13.6	30	2.0
Other	22	1.5	0	0.0	22	1.5
<b>Symptoms at diagnosis</b>						
Yes	997	66.6	7	31.8	990	67.1
No	501	33.4	15	68.2	486	32.9
Unknown	0	0.0	0	0.0	0	0.0

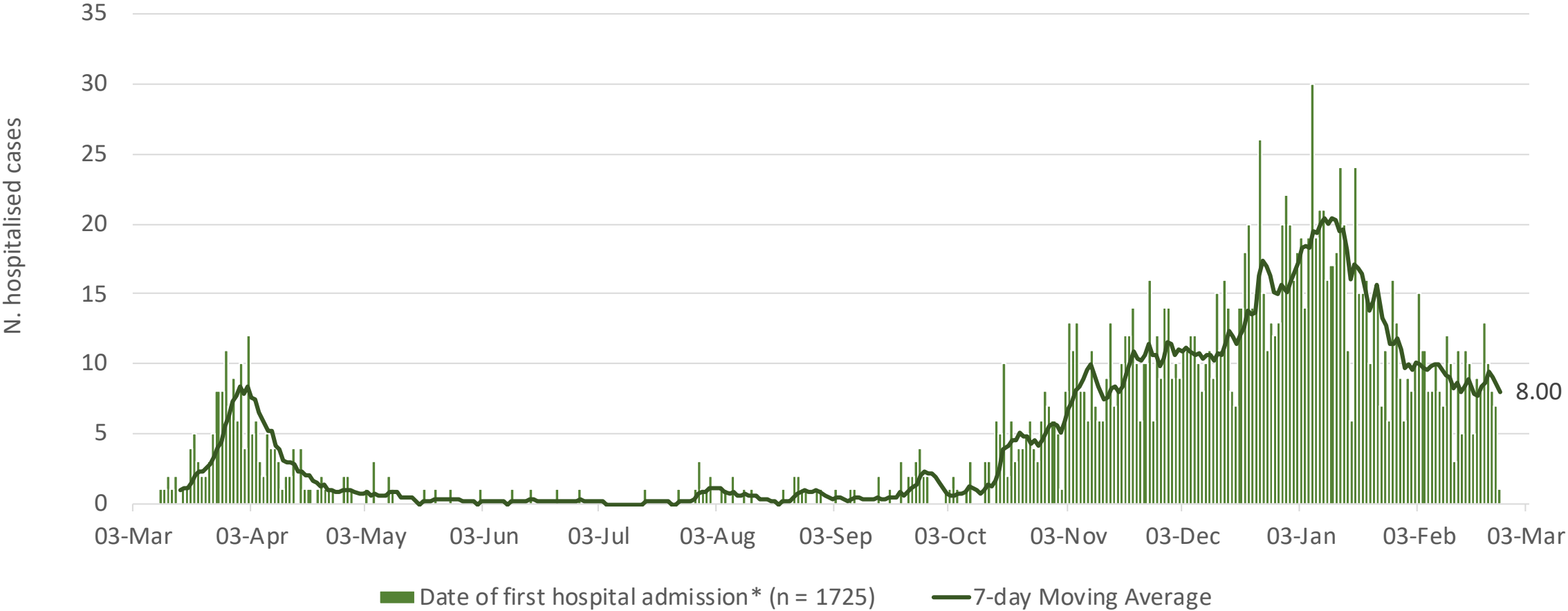
IQR: interquartile range

# COVID-19 14-day cumulative diagnosis rate per 100,000 population, overall and by district for the last 14 days



168.7	36.8	65.8	420.9	81.4	34.6
February 23 <sup>rd</sup> , 2021					

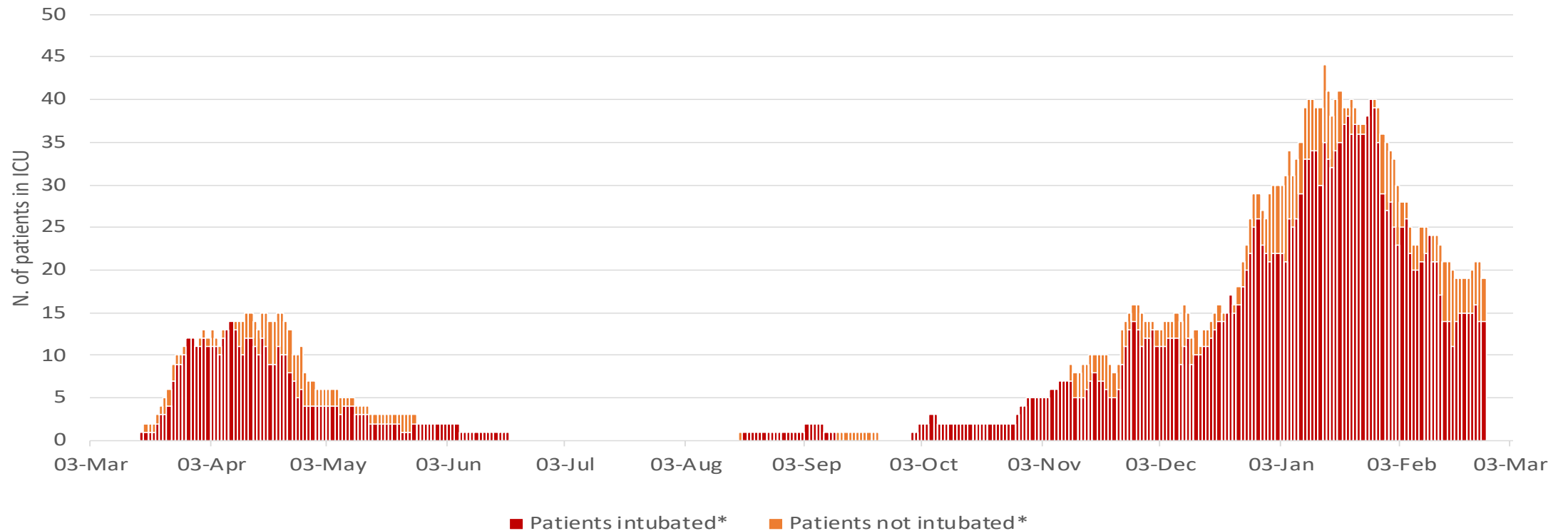
# Number of cases by date of hospital admission



7 day moving average on Feb 24<sup>th</sup> is shown on the graph

# Cases in intensive care units (ICU)\*

- Total: 182 (10,6% of all ever hospitalized patients) have ever been admitted to ICU – 19 currently in ICU (February 24<sup>th</sup>)

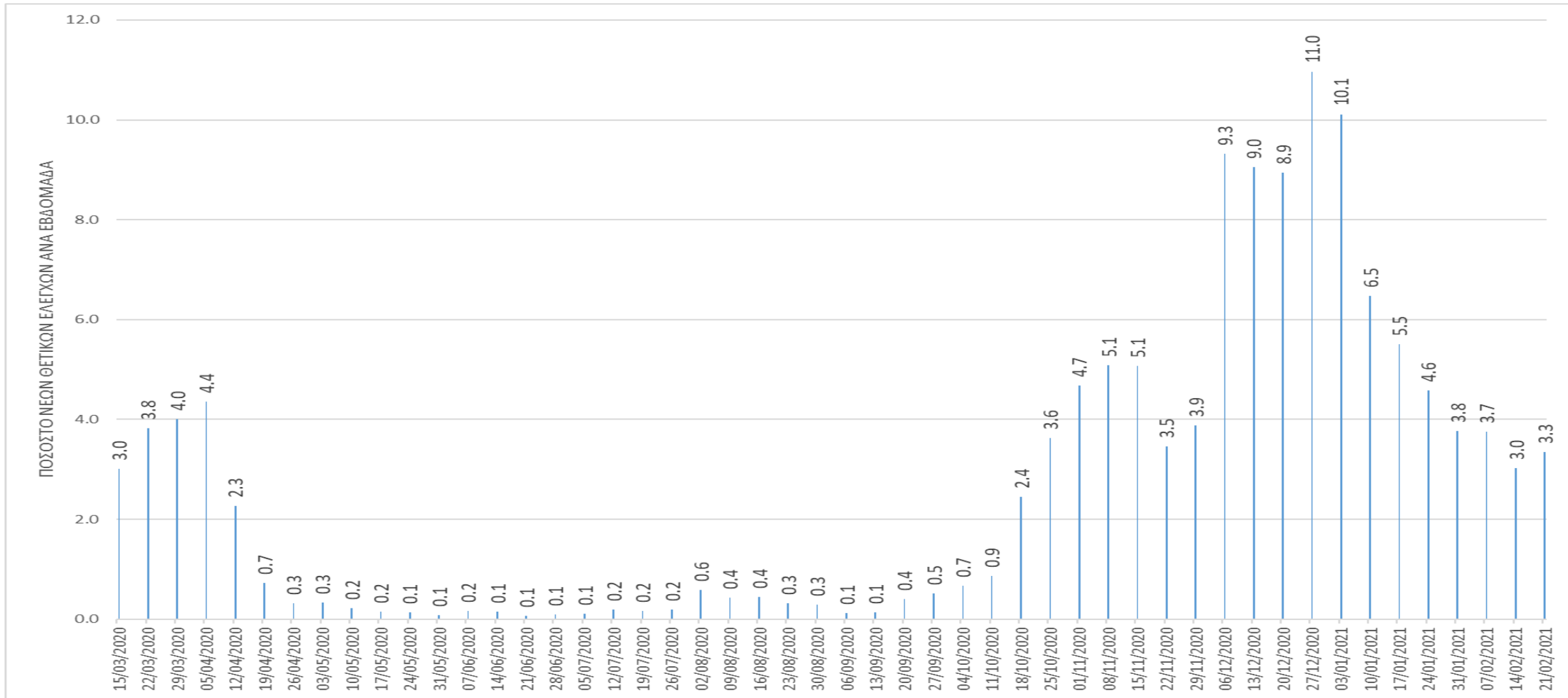


\*Intensive care unit (ICU) refers only to the ICU in Limassol General Hospital and ICU in Nicosia General Hospital  
*Date of discharge/transfer/death included*

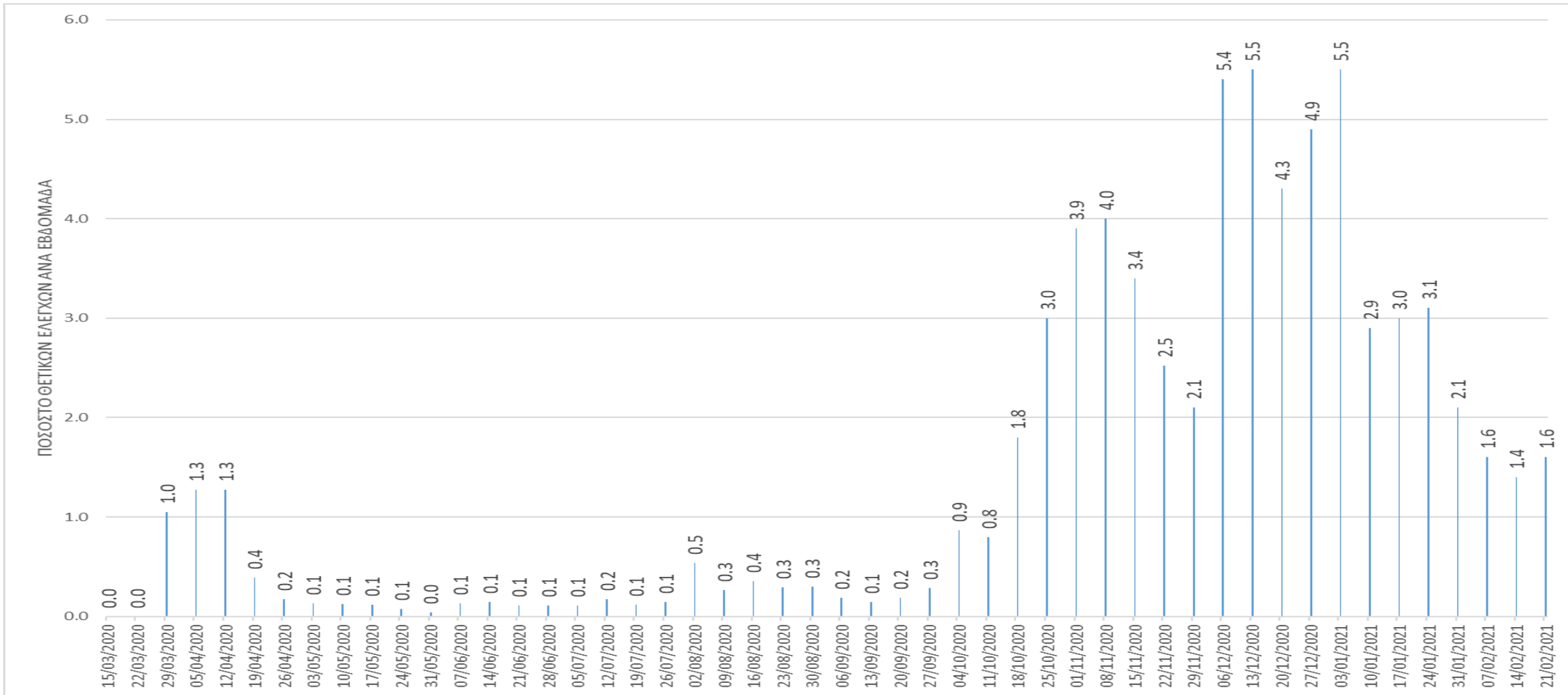
# Molecular tests and antigen rapid tests

	<b>Molecular tests (as announced by the Ministry of Health)</b>	<b>Antigen rapid tests (Ministry of Health)</b>
<b>Total overall</b>	846,078	1,307,320
<b>Tests/100.000</b>	95,279.1	147,220.7
<b>Total (Last 14 days)</b>	29,166	403,117
<b>Last 14 days/100.000</b>	3,284.5	45,396.1

# Percentage of new laboratory tests (molecular) with a positive result (all labs), per week

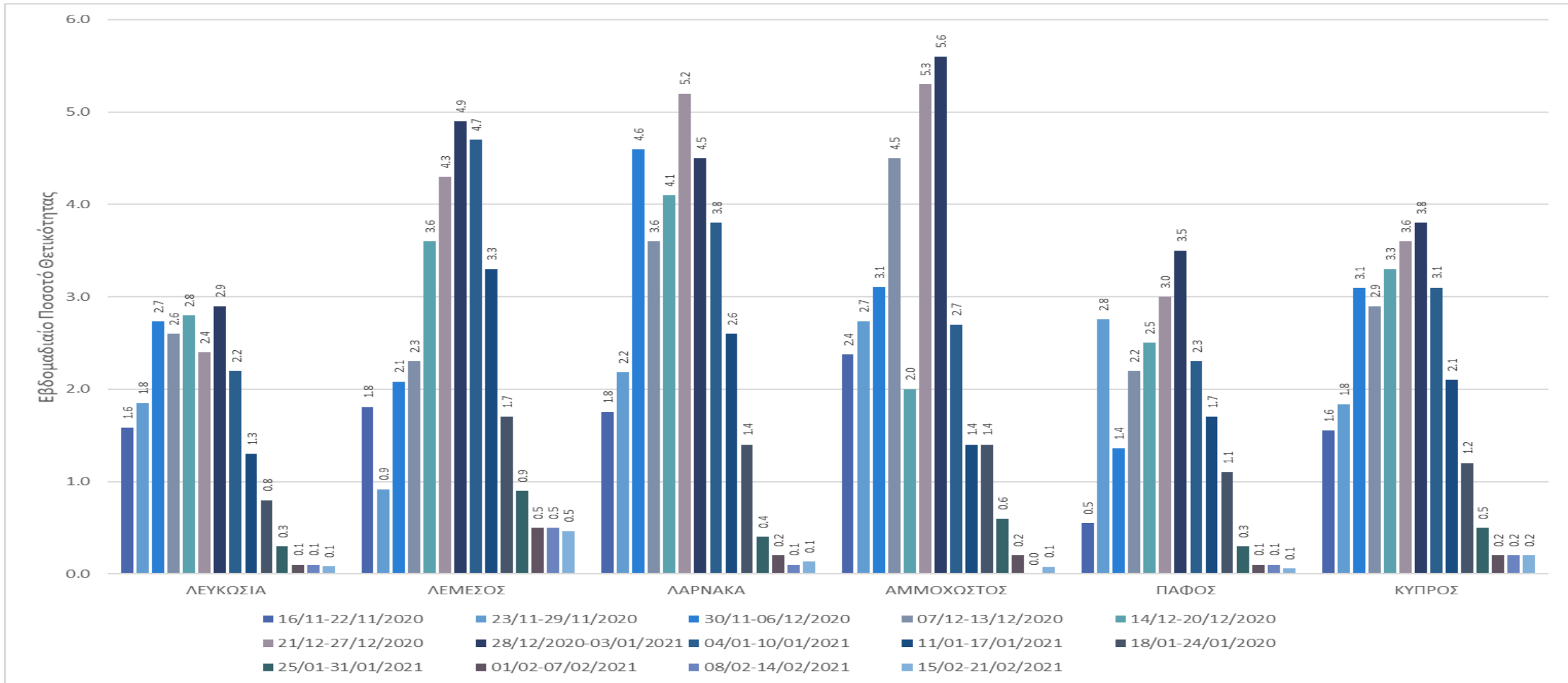


# Percentage of laboratory tests (molecular) with a positive result (private sector), per week





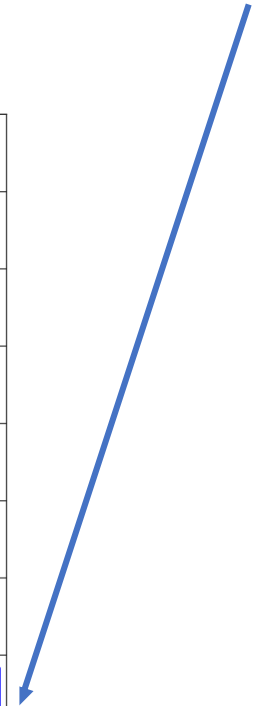
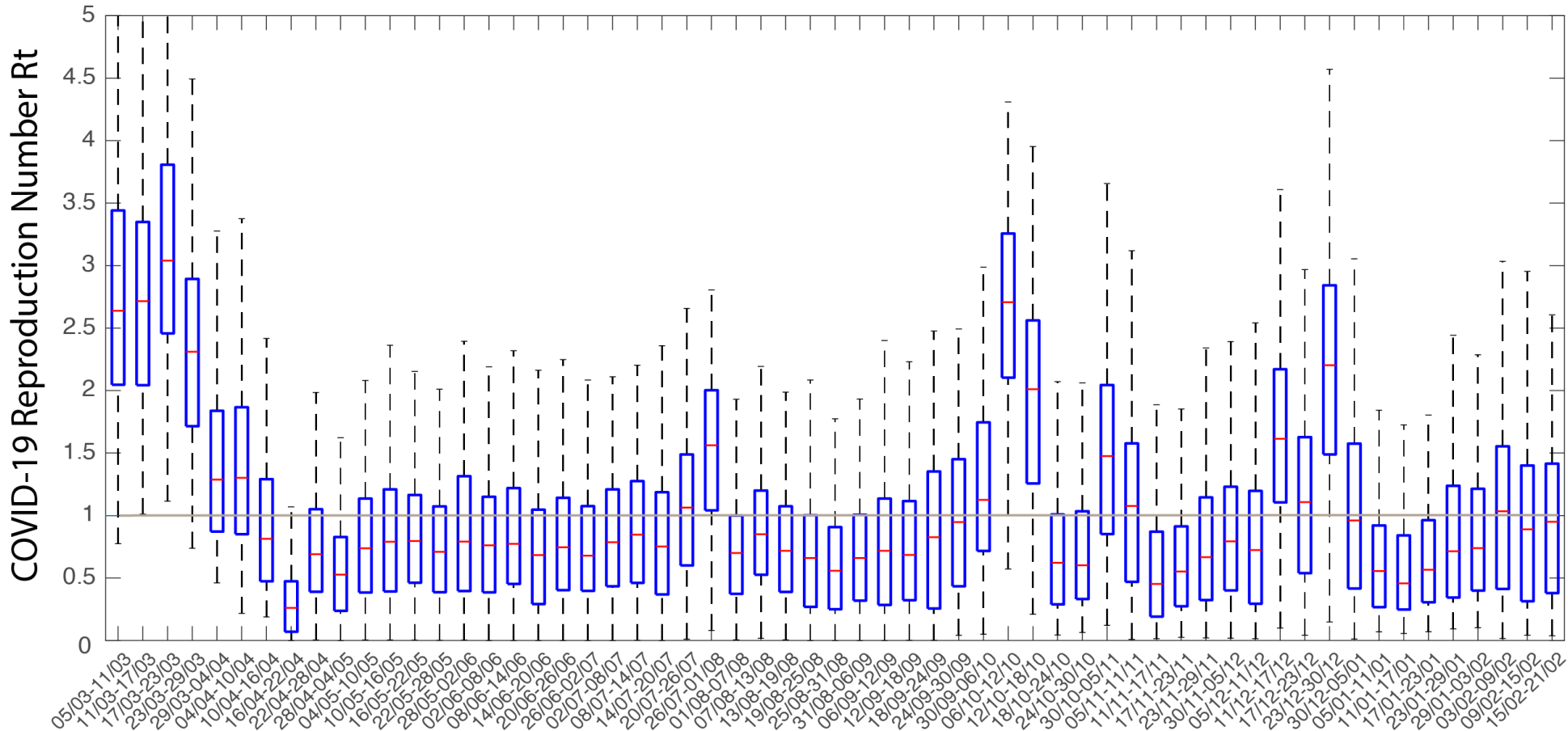
# Rapid antigen tests (Ministry of Health) – percentage (weekly) with a positive result (overall and by district)





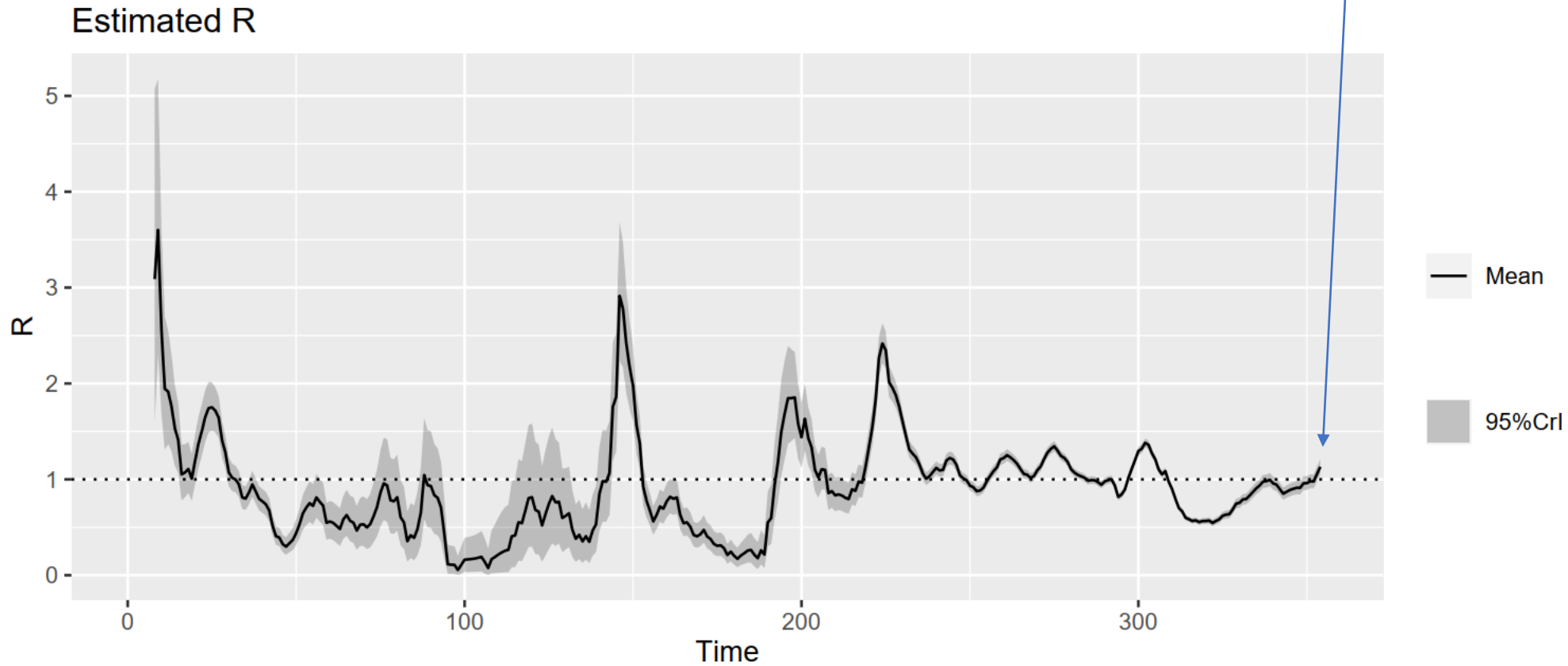
# Effective reproduction number (Rt) – Method B

R<sub>t</sub> 15 – 21 Feb: 0.97



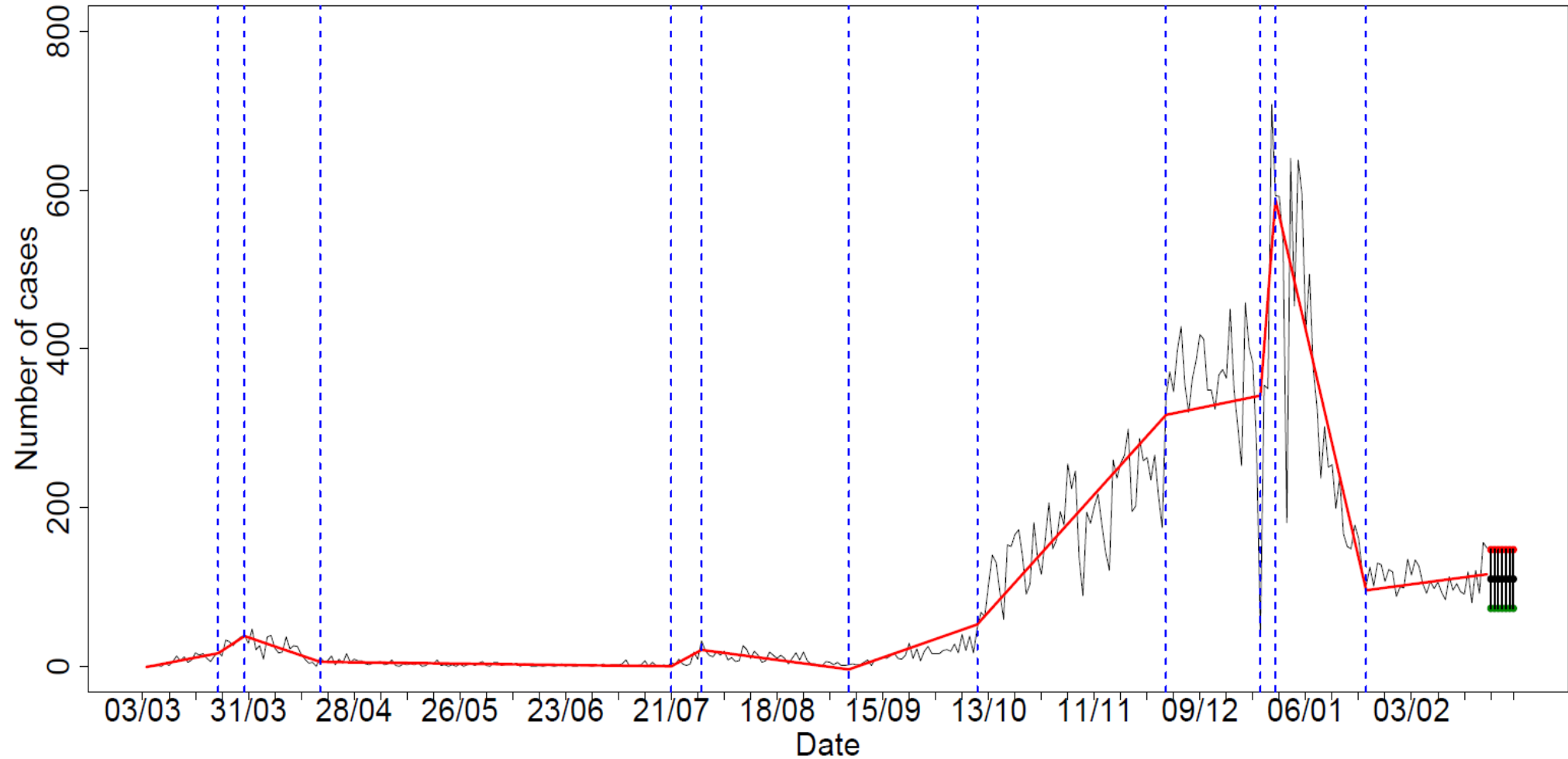
# Effective reproduction number ( $R_t$ ) – Method D (Locally-acquired cases)

$R_t$  17 - 23 Feb: 1.13 (1.05 - 1.21)



# Change-point analysis and predictions

Cases, estimated change-points, and the signal



# **Mathematical Modeling of COVID-19 Pandemic**

## **Research Team**

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# Laboratory tests for SARS-CoV-2

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