

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

**Surveillance Report as of 20/10/2020**

Nicosia 22/10/2020

# Data in brief (as of 20/10/2020)

<b>Laboratory-confirmed cases</b>	<b>Locally-acquired (%)</b>	<b>Recovered<sup>§</sup> (%)</b>	<b>Deaths (%)</b>
<b>2,704</b>	<b>1,882 (69.6%)</b>	<b>1,581 (59.2%)</b>	<b>32 (1.2%)</b>

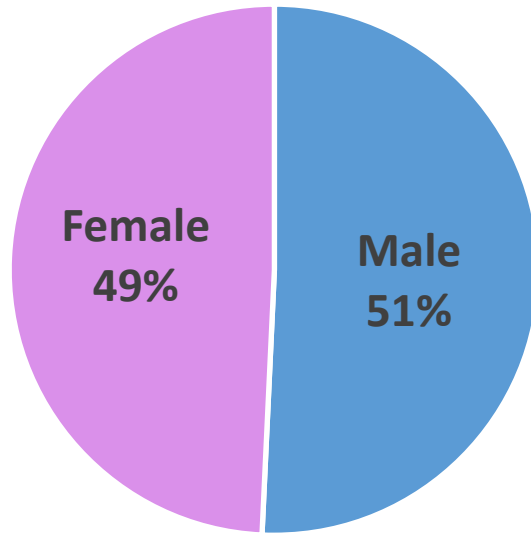
*§Among cases alive*

<b>Hospital care / currently (%)</b>	<b>Currently in Intensive Care Unit*</b>
<b>266 (9.9%) / 24 (9%)</b>	<b>2</b>

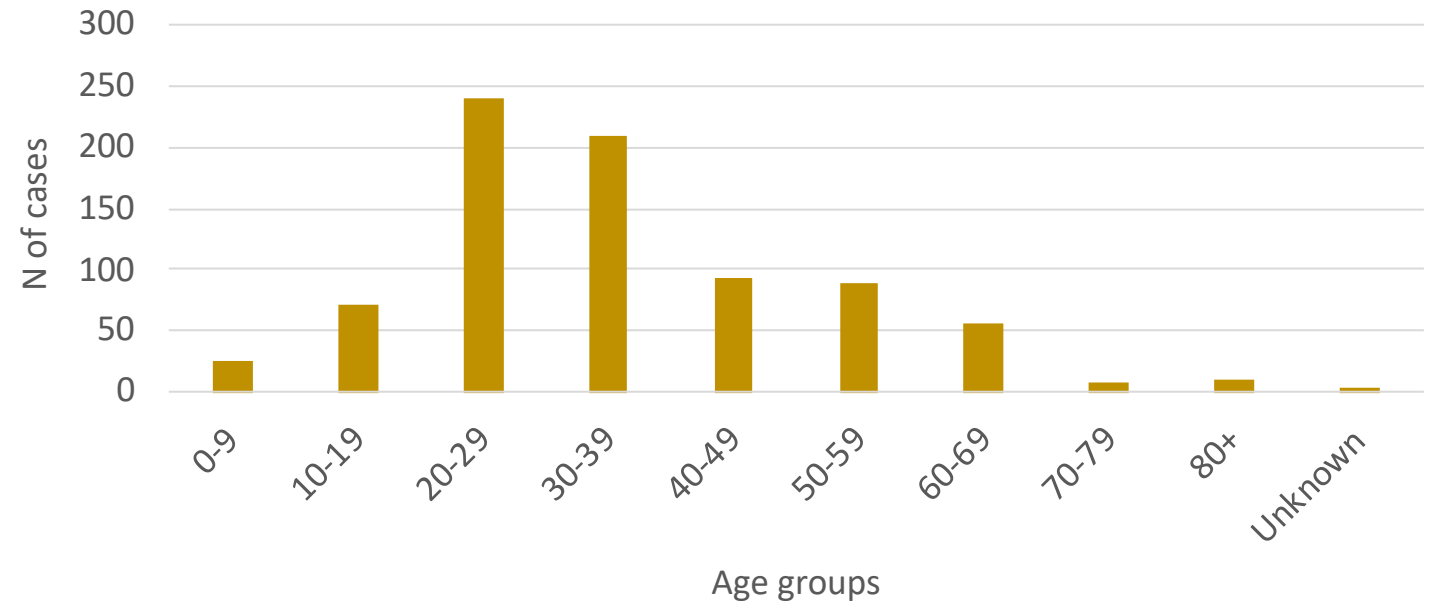
*\*Date of discharge/transfer/death included*

# Distribution of cases by sex and age groups for cases diagnosed in the last 14 days (n = 805)

## Sex

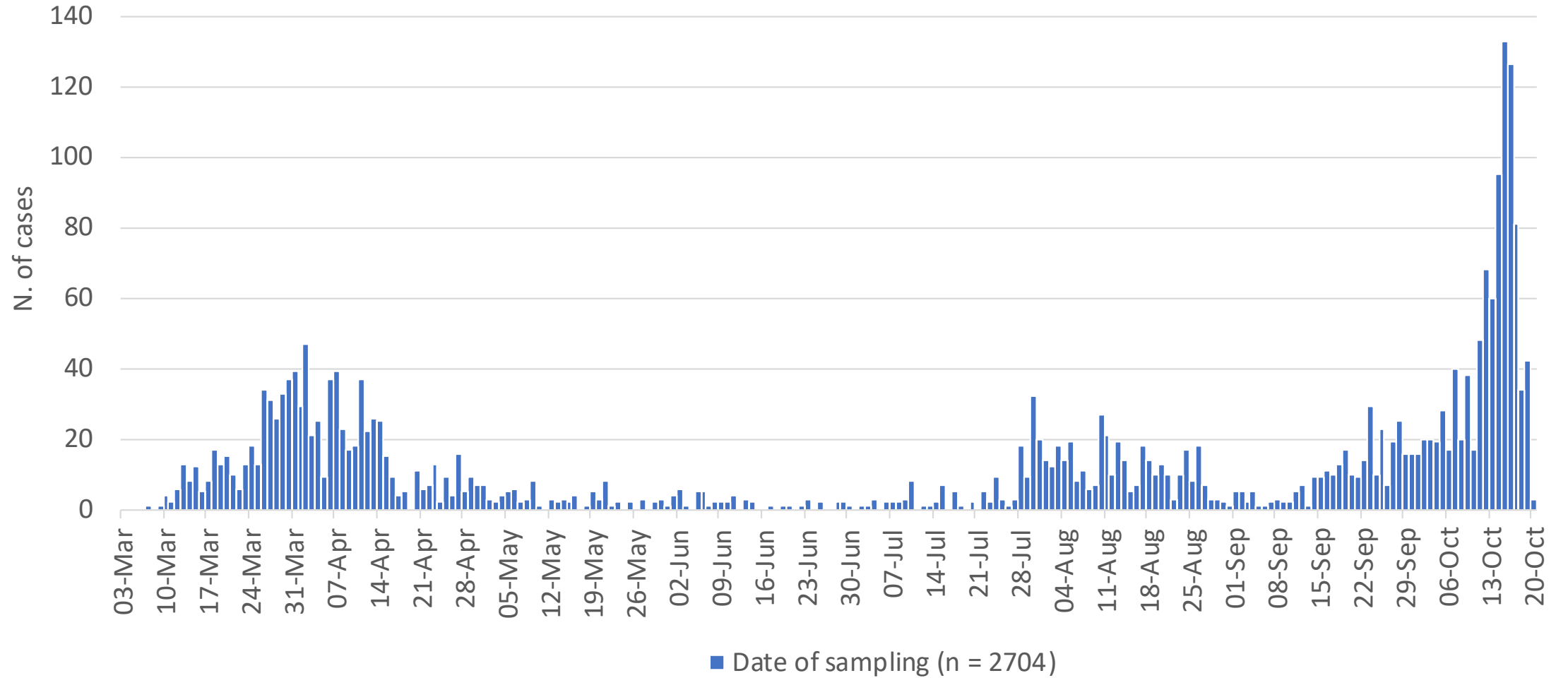


## Age groups

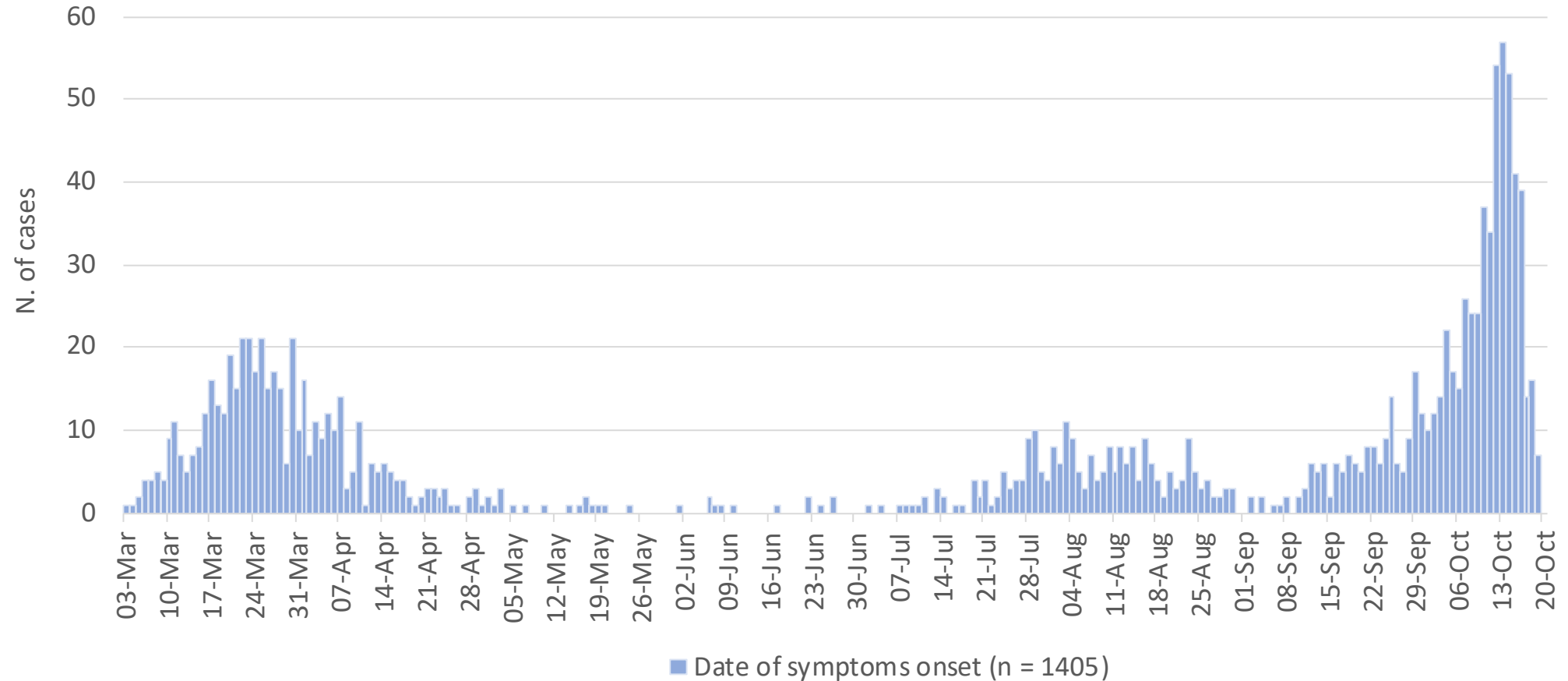


Median age: 31 years (interquartile range: 24-45 years)

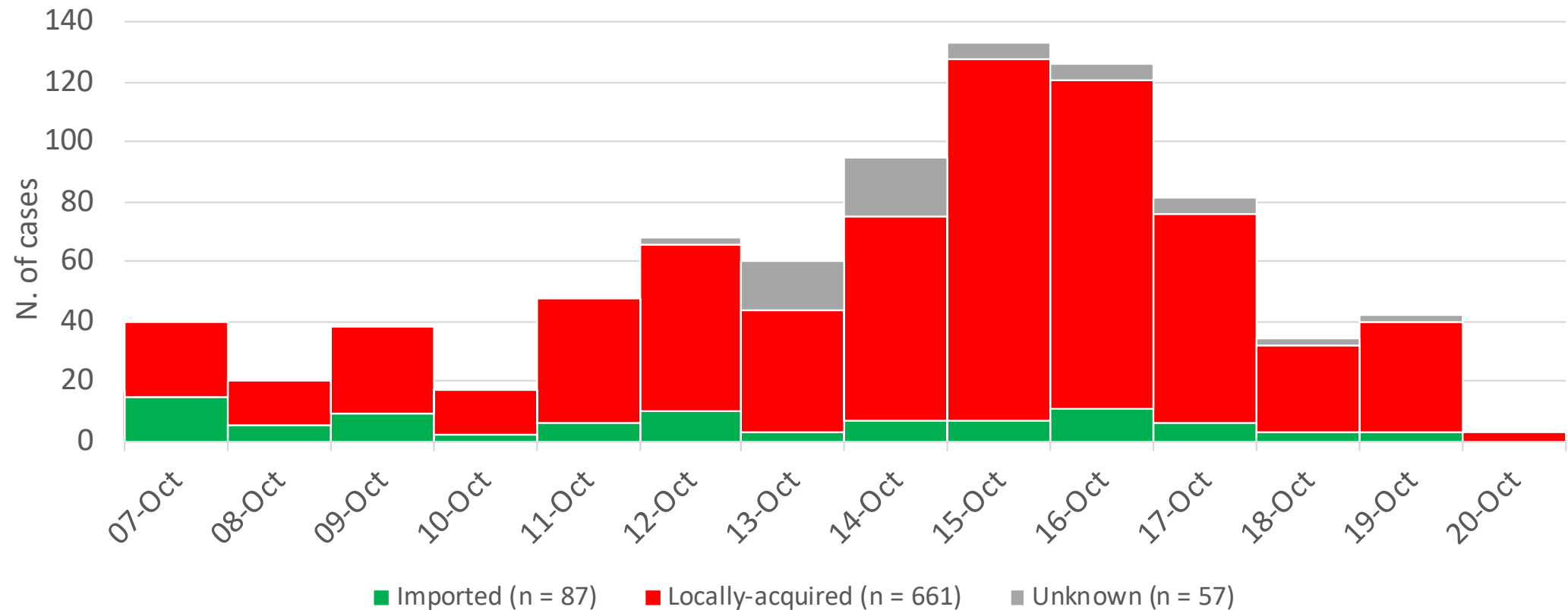
# Laboratory-confirmed cases by date of sampling



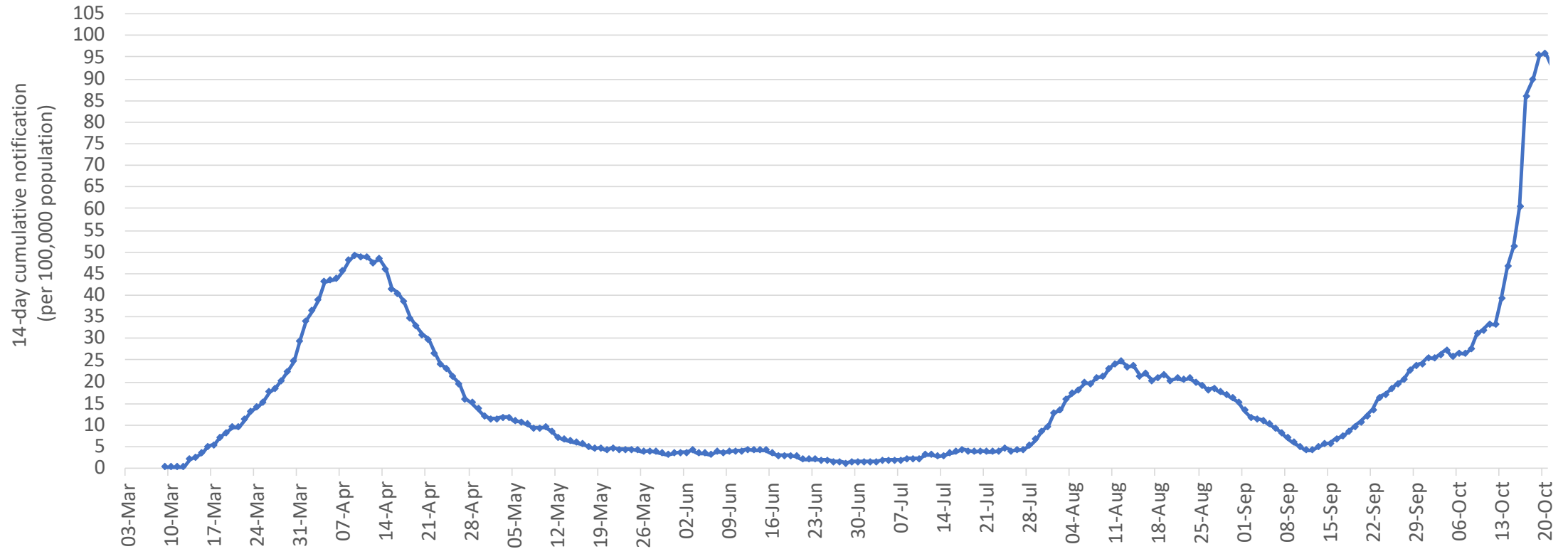
# Laboratory-confirmed cases by date of symptom onset



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

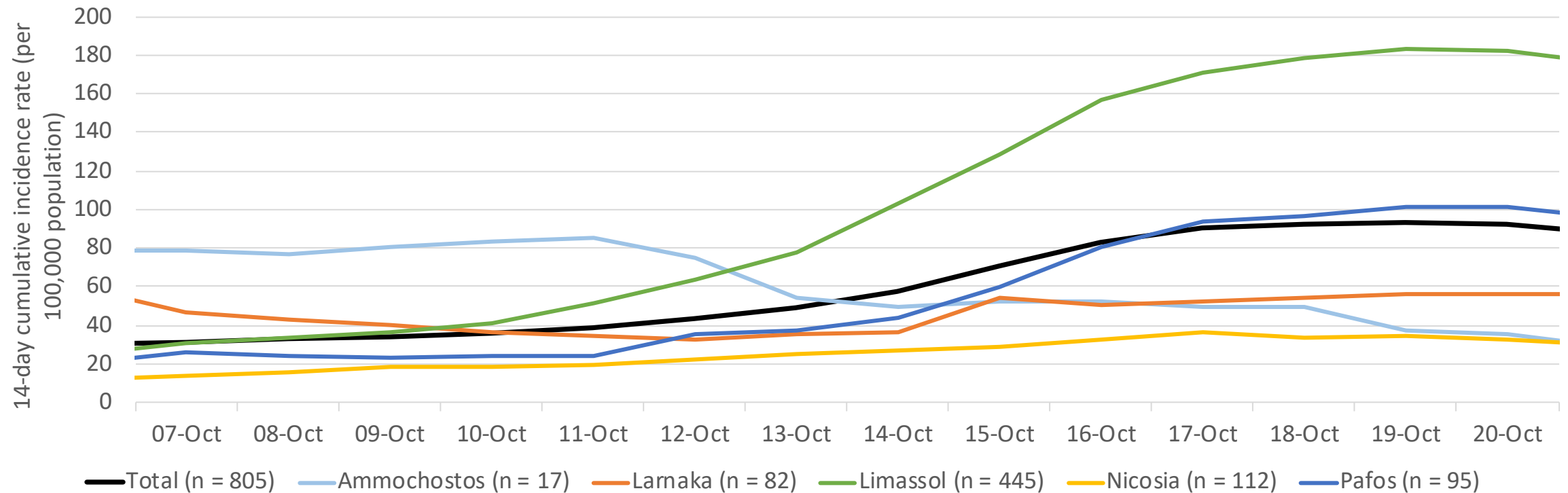


# COVID-19 14-day cumulative notification rate per 100,000 population (proxy of COVID-19 prevalence)



*March 23<sup>rd</sup>: 14 days since the first reported case*

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



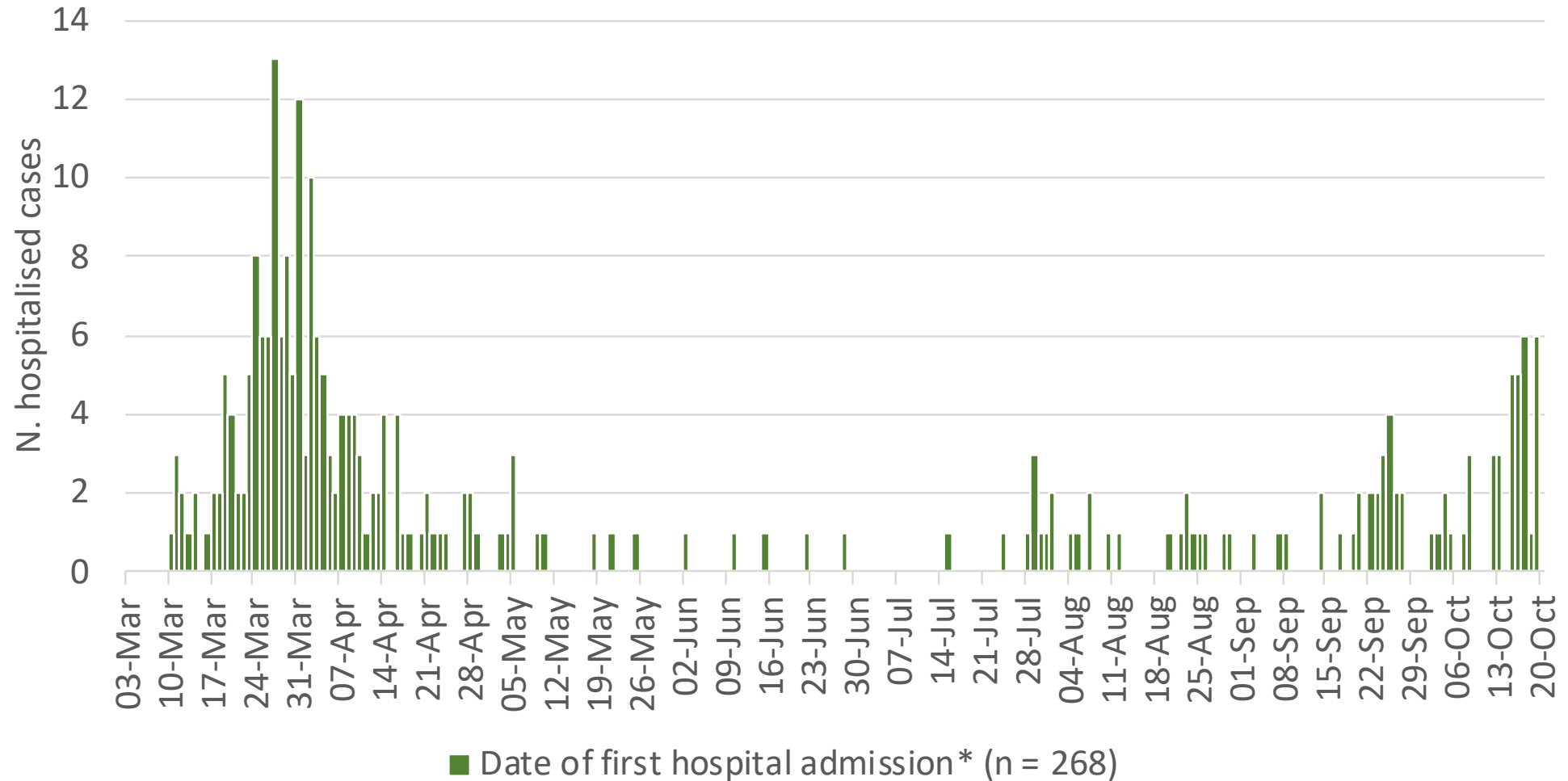
March 23<sup>rd</sup>: 14 days since the first reported case



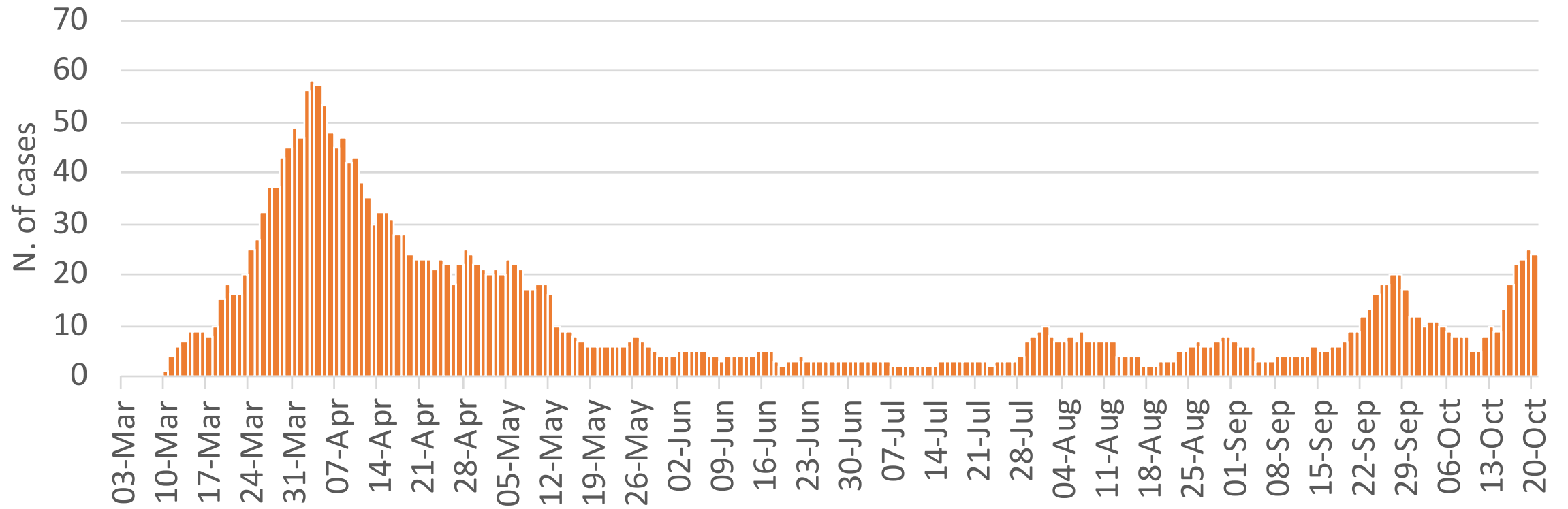
# COVID-19 cases characteristics for the last 14 days

Characteristics	Total (n = 805)		Imported (n = 87)		Locally-acquired (n = 661)		Unknown (n = 57)	
	N	%	N	%	N	%	N	%
Sex								
Male	409	50.8	43	49.4	333	50.4	33	57.9
Female	396	49.2	44	50.6	328	49.6	24	42.1
Age groups (years)								
0-9	25	3.1	0	0.0	24	3.6	1	1.8
10-19	71	8.8	9	10.3	57	8.6	5	8.8
20-29	240	29.8	24	27.6	193	29.2	23	40.4
30-39	209	26.0	20	23.0	179	27.1	10	17.5
40-49	93	11.6	12	13.8	73	11.0	8	14.0
50-59	88	10.9	10	11.5	73	11.0	5	8.8
60-69	57	7.1	6	6.9	48	7.3	3	5.3
70-79	8	1.0	5	5.7	3	0.5	0	0.0
80+	11	1.4	1	1.1	10	1.5	0	0.0
Unknown	3	0.4	0	0.0	1	0.2	2	3.5
Median age in years (IQR*)	31 (24-45)		32 (25-50)		31.5 (24-45)		29 (23-41)	
District								
Ammochostos	17	2.1	2	2.3	13	2.0	2	3.5
Larnaka	82	10.2	7	8.0	71	10.7	4	7.0
Limassol	445	55.3	30	34.5	389	58.9	26	45.6
Nicosia	112	13.9	17	19.5	89	13.5	6	10.5
Pafos	95	11.8	8	9.2	81	12.3	6	10.5
Other	54	6.7	23	26.4	18	2.7	13	22.8
Symptoms at diagnosis								
Yes	542	67.3	47	54.0	476	72.0	19	33.3
No	223	27.7	39	44.8	180	27.2	4	7.0
Unknown	40	5.0	1	1.1	5	0.8	34	59.6

# Number of cases by date of hospital admission

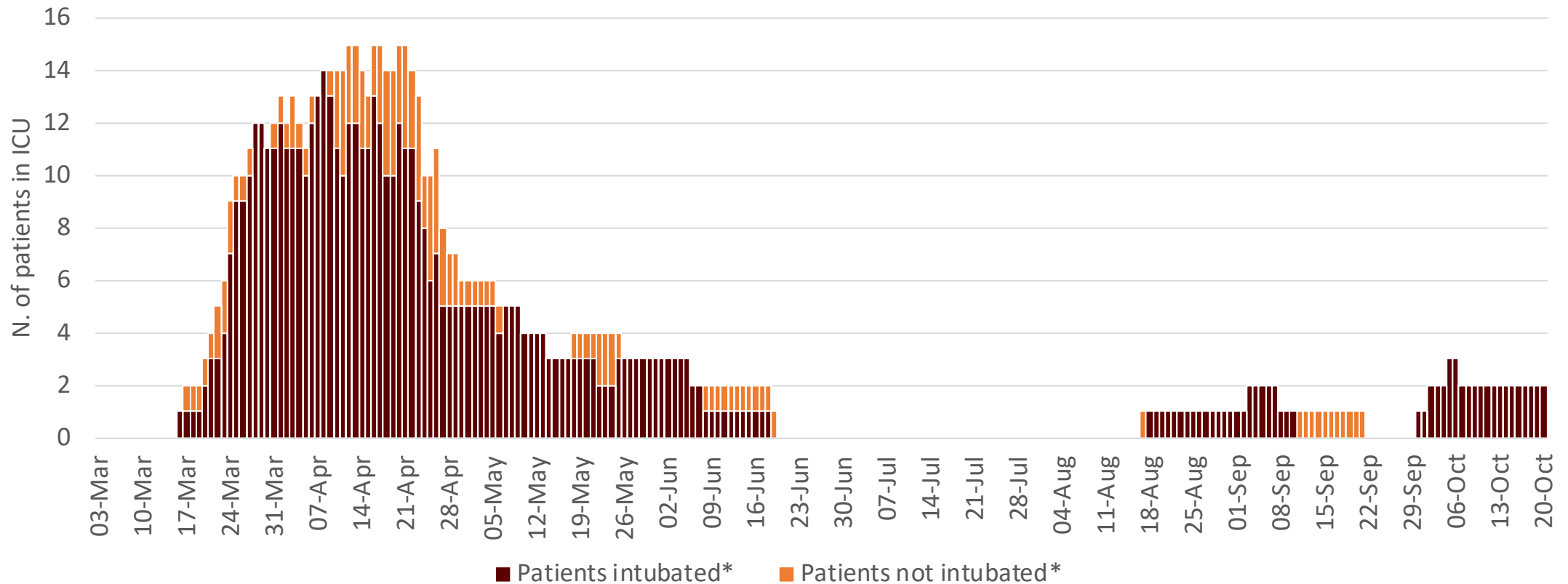


# Cases in hospital every day



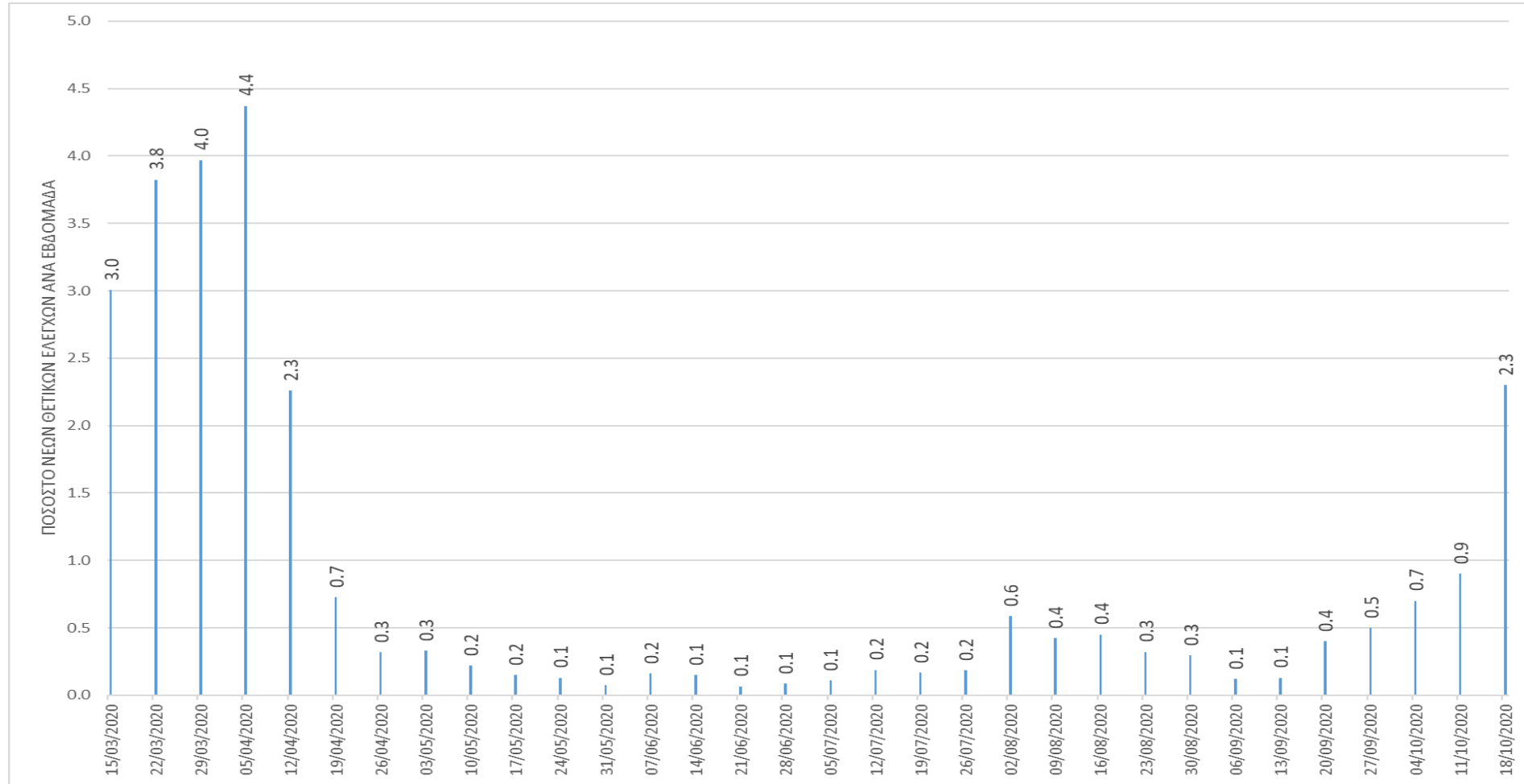
# Cases in intensive care units (ICU)\*

- 36 (1.3% of all cases) have ever been admitted to ICU



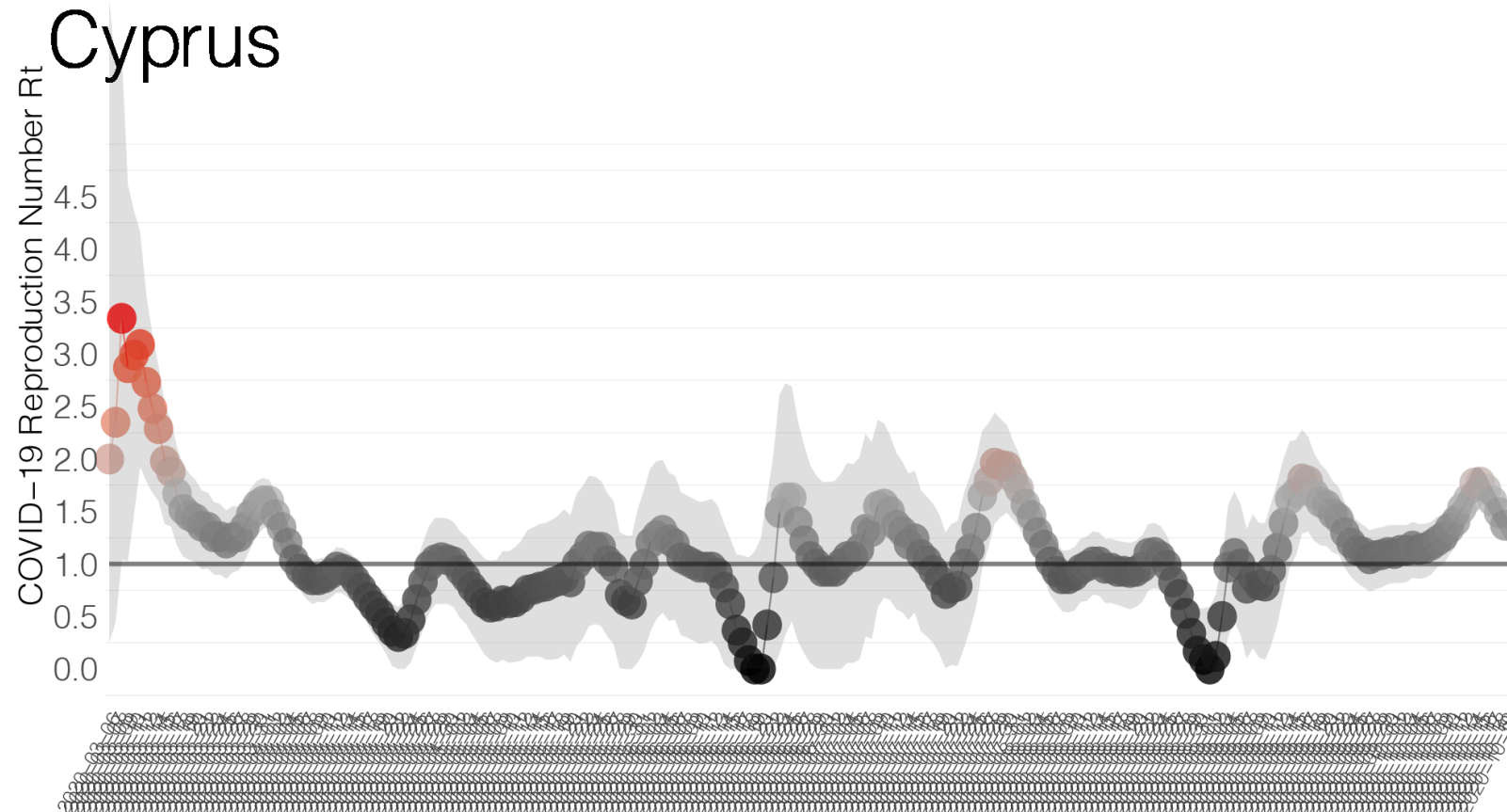
\*Intensive care unit (ICU) refers only to the ICU in Limassol General Hospital and ICU in Nicosia General Hospital  
*Date of discharge/transfer/death included*

# Percentage of laboratory tests with a positive result, per week



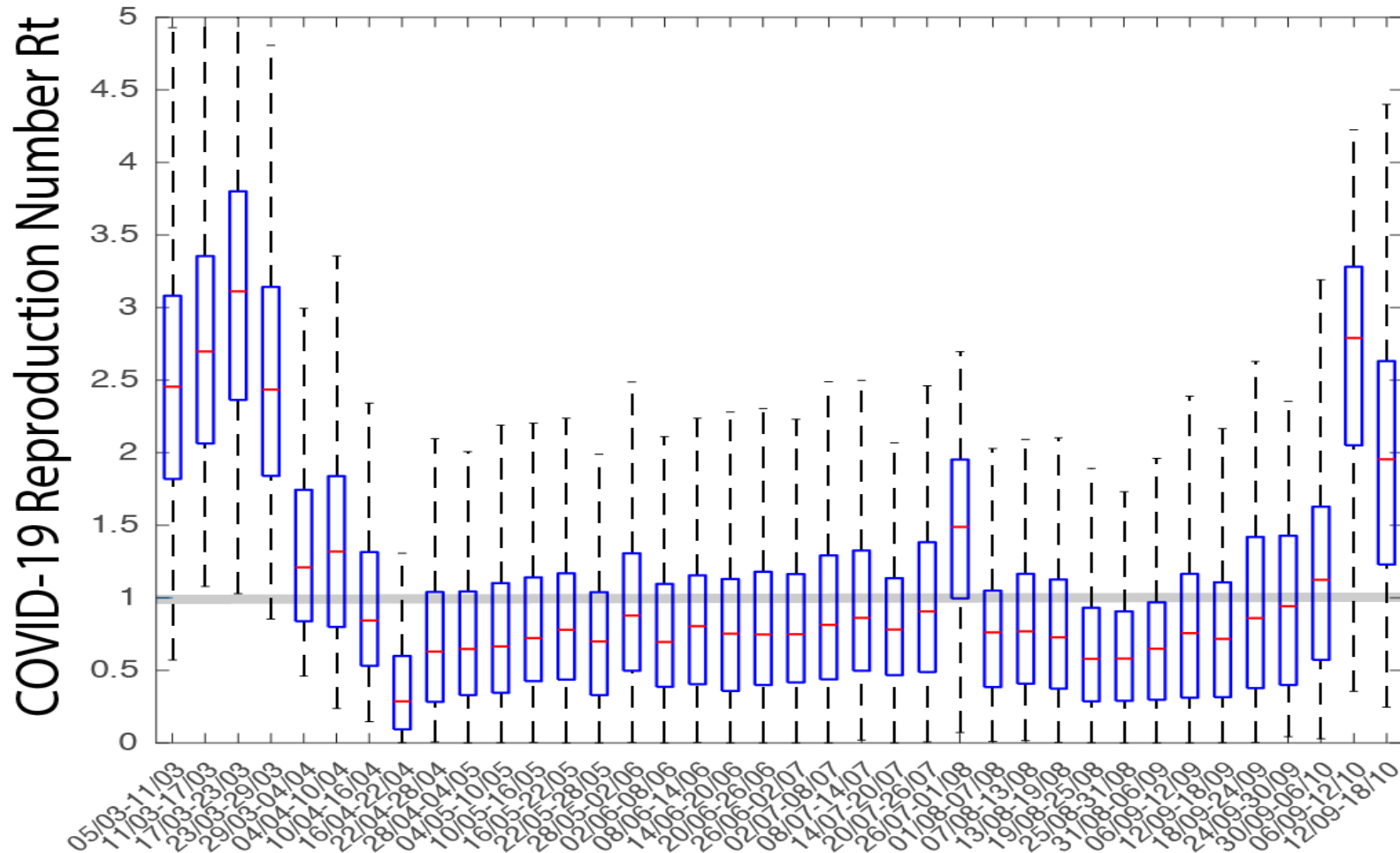
# Effective reproductive number ( $R_t$ ) – Method A

$R_t$  13 - 19 Oct: 1.6 (1.4 - 1.7)



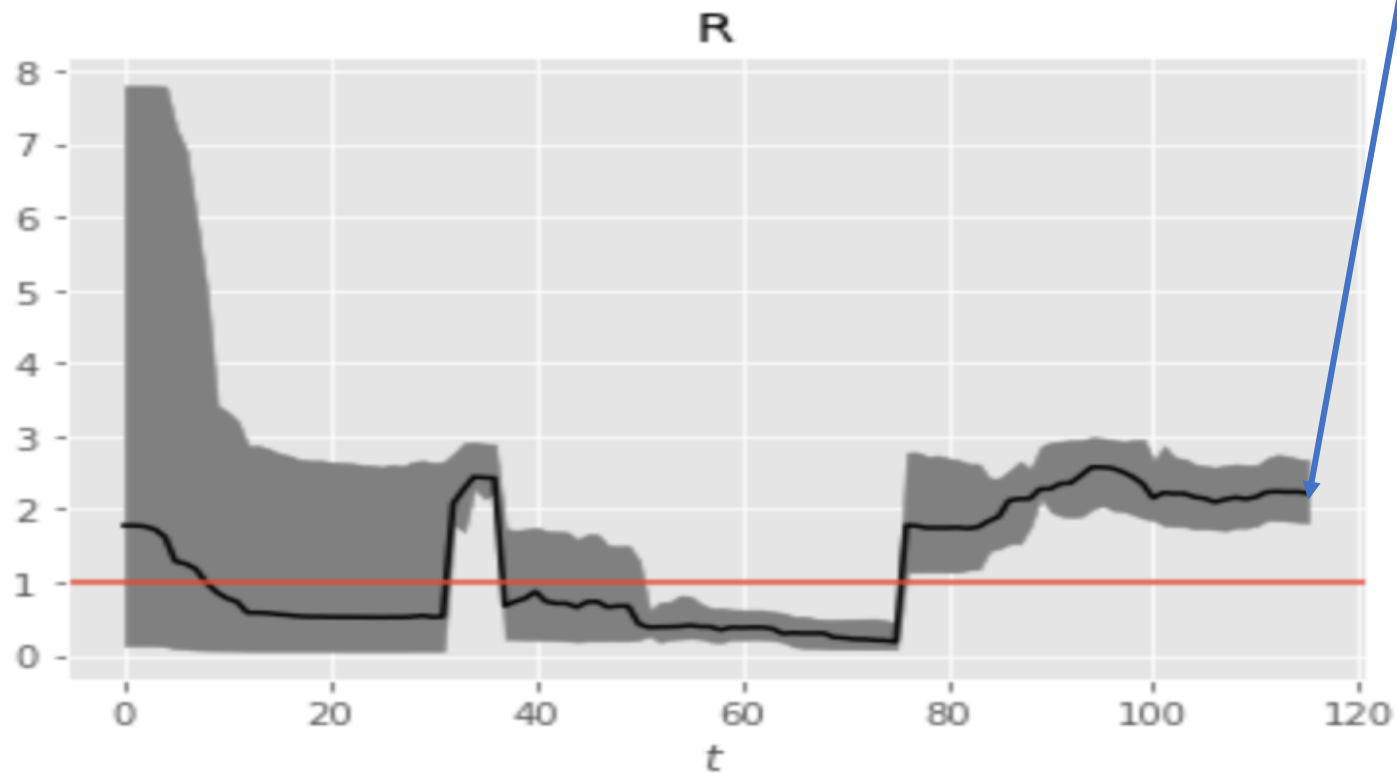
# Effective reproductive number ( $R_t$ ) – Method B

$R_t$  12 – 18 Oct: 1.9



# Effective reproductive number ( $R_t$ ) – Method C

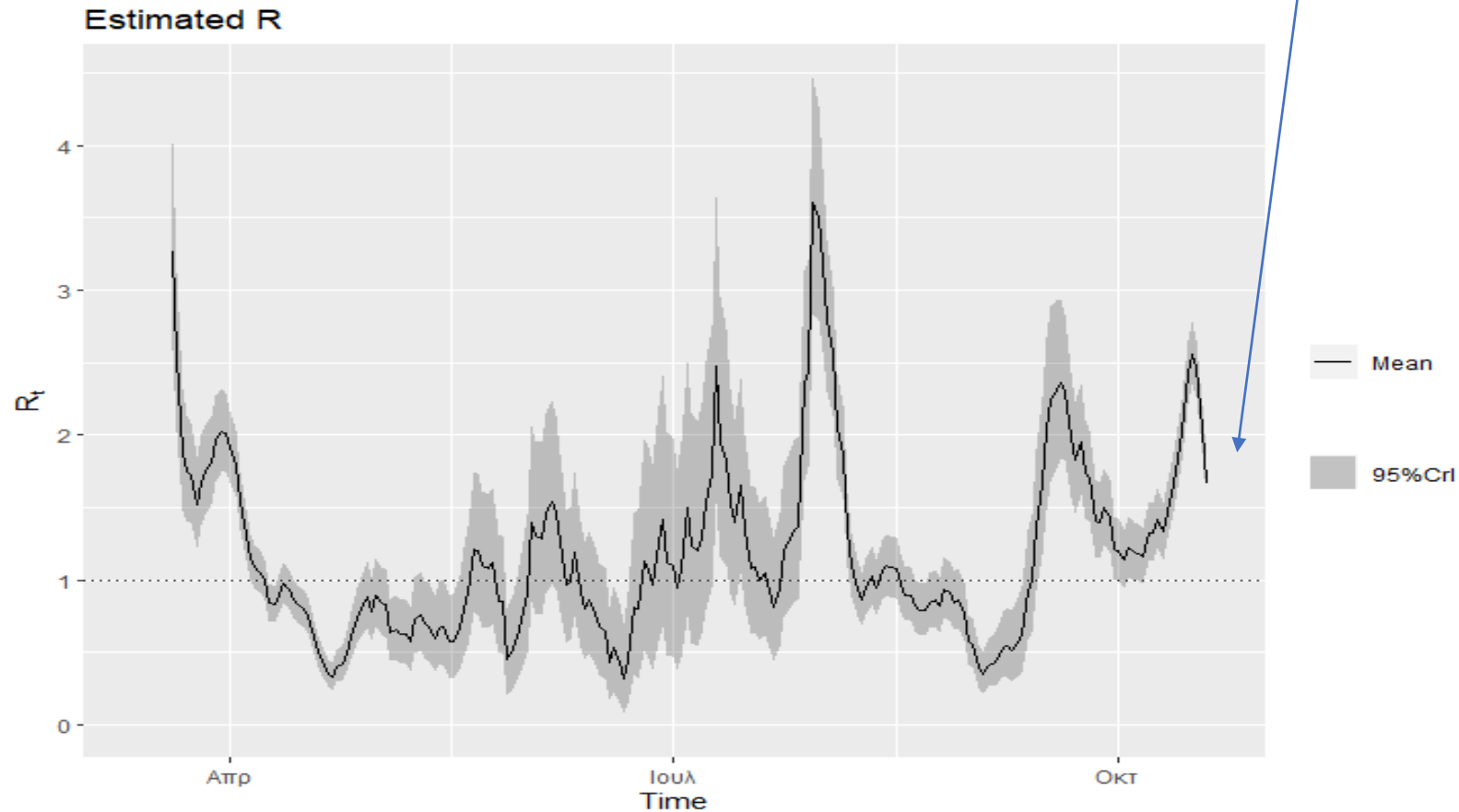
$R_t$  recent days: 2 (90% credibility interval for the last day 1.8-2.6 )





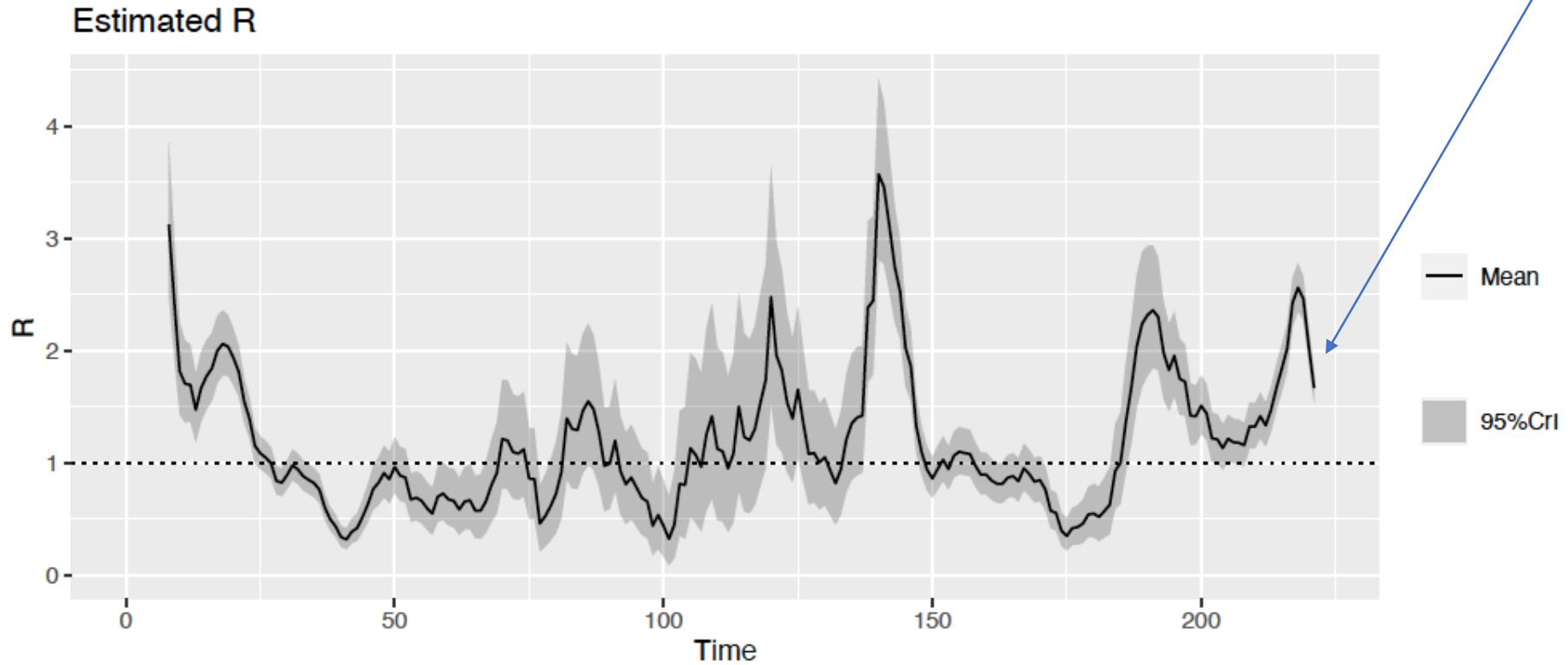
# Effective reproductive number ( $R_t$ ) – Method D (all cases)

$R_t$  13-19 Oct: 1.7 (1.5 - 1.8)

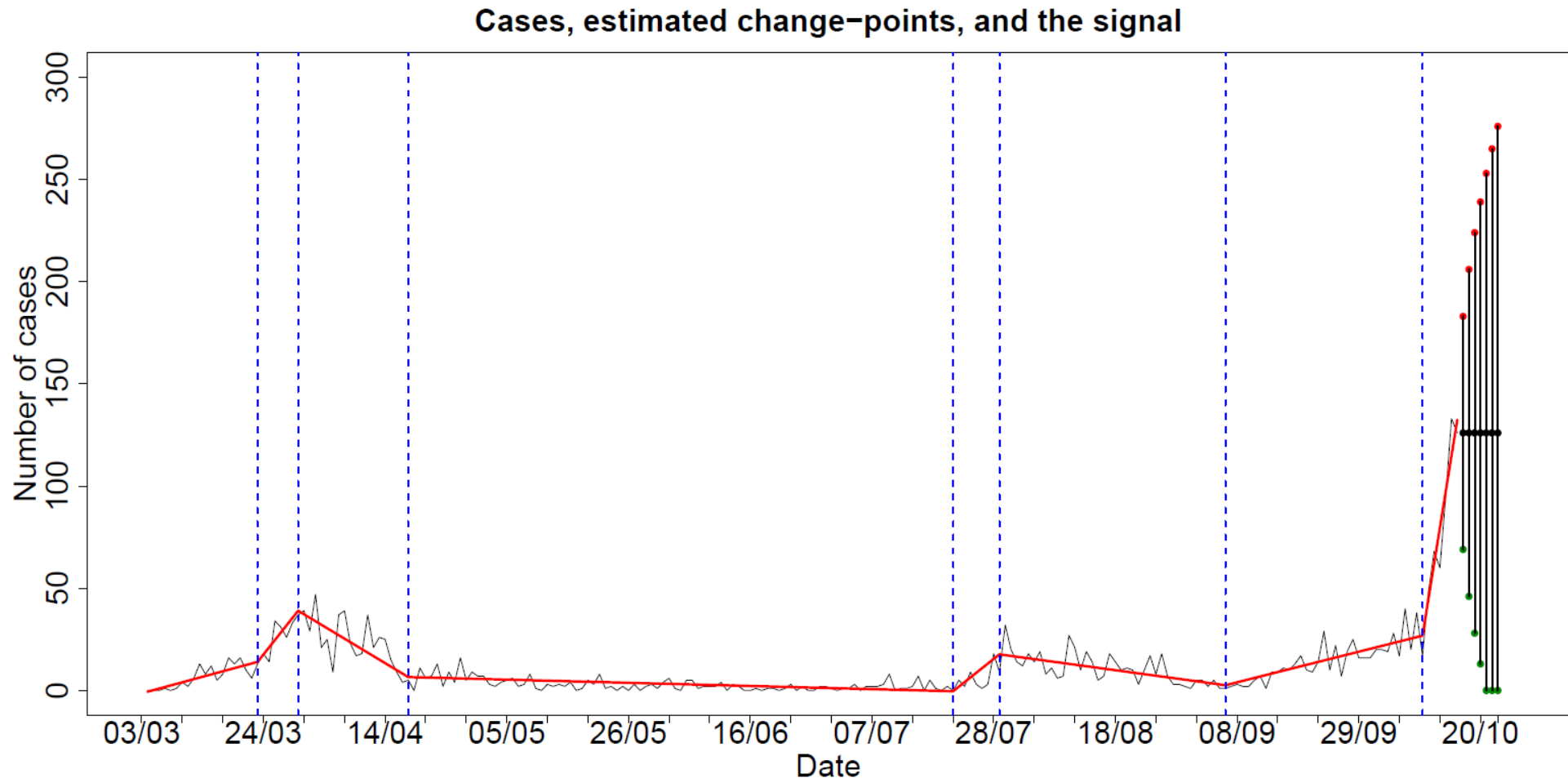


# Effective reproductive number ( $R_t$ ) – Method D (only locally-acquired cases)

$R_t$  13-19 Oct: 1.6 (1.4 - 1.7)



# Change-point analysis and predictions



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

## **Research Team**

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# Laboratory tests for SARS-CoV-2

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