



**REPUBLIC OF TURKEY
MINISTRY OF HEALTH**

**COVID-19 Weekly Situation Report
28/09/2020 – 04/10/2020
Turkey**

05/10/2020

Summary

- After the first COVID-19 patient in Turkey was notified on 11 March 2020, 10.835.423 tests were performed in total. Between 28 September - 4 October, 778.639 tests were performed.
- In total, 325.445 laboratory-confirmed COVID-19 patients, and 8.441 deaths due to COVID-19 have been reported in Turkey.
- The total number of hospitalizations was 161.212, and 3.414 patients were newly hospitalized between 28 September – 4 October.
- Compared to the previous week, the number of new COVID-19 patients, new hospitalizations, new intubated patients, and deaths decreased. The number of COVID-19 tests, and new hospital discharges increased.
- The death rate of all laboratory-confirmed COVID-19 patients by MoH was 2,59%.
- The highest case filiation ratio was in the Northeastern Anatolia Region (99,96%). The case filiation ratio was 99,77% for Turkey.

Table 1: Summary Table of COVID-19, Turkey

Indicator	Total*	Last 7 days**	Difference Between Previous Week	Change from Previous Week, (%)
Number of Tests	10.835.423	778.639	9.846	1,3
Number of New Patients	325.445	10.009	-1.557	-13,5
Number of Deaths	8.441	444	-47	-9,6
Number of New Hospitalizations	161.212	3.414	-198	-5,5
Number of New Intubated Patient	14.124	531	-88	-14,2
Number of New Hospital Discharges	154.072	3.361	9	0,3

* Total numbers including 04/10/2020, ** Numbers between 28/09/2020 – 04/10/2020

Epidemiological Situation in Turkey

Geographical Distribution of Patients

Since 11 March 2020, a total of 325.445 laboratory-confirmed patients of coronavirus disease (COVID-19) have been reported to the Ministry of Health (MoH), Turkey. New COVID-19 patients per 100.000 population over the past 7 days was 12,0 and cumulative nationwide incidence was 391,4 (Table 2).

Table 2: Number and Incidence per 100.000 Population of COVID-19 Patients by NUTS-1, Turkey

NUTS-1	Total Number of Patients*	Patients/ 100.000 Population	Patients in Last 7 days**	7-day Incidence per 100.000 Population	Change from Previous Week, (%)
Istanbul	128.845	830,2	1.927	12,4	15,7
Western Marmara	3.823	106,1	100	2,8	6,4
Aegean	20.967	197,5	727	6,8	-3,6
Eastern Marmara	30.245	372,2	810	10,0	13,0
Western Anatolia	39.622	487,7	1.806	22,2	-24,6
Mediterranean	14.720	138,5	784	7,4	-24,5
Central Anatolia	14.673	360,0	843	20,7	-29,0
Western Blacksea	10.869	232,9	554	11,9	-14,6
Eastern Blacksea	5.026	186,8	262	9,7	-14,9
Northeastern Anatolia	7.157	325,3	346	15,7	-18,2
Mideastern Anatolia	12.181	309,9	858	21,8	-23,1
Southeastern Anatolia	37.317	415,8	992	11,1	-18,6
Turkey	325.445	391,4	10.009	12,0	-13,5

* Total number of patients including 04/10/2020, ** Patients between 28/09/2020 –04/10/2020



Figure 1: 7 Day Incidence per 100.000 Population of New COVID-19 Patients by NUTS-1, Turkey

Istanbul	12,4
Western Marmara	2,8
Aegean	6,8
Eastern Marmara	10,0
Western Anatolia	22,2
Mediterranean	7,4
Central Anatolia	20,7
Western Blacksea	11,9
Eastern Blacksea	9,7
Northeastern Anatolia	15,7
Mideastern Anatolia	21,8
Southeastern Anatolia	11,1
Turkey	12,0

Demographic Distribution of Patients

Of all reported patients, 49% were female and 51% were male. Among all those notified patients, 21.024 were children under 15 years of age (6,5%), 45.658 persons aged 15 to 24 years (14,0%), 160.832 persons aged 25 to 49 years (49,4%), 61.231 persons aged 50 to 64 years (18,8%), 28.628 persons aged 65 to 79 years (8,8%) and 8.071 persons aged 80 years and older (2,5%). The age is unknown for 1 notified patients. The highest 7-day incidences per 100.000 population of new COVID-19 patients were seen in males aged 80 and over (Figure 2).

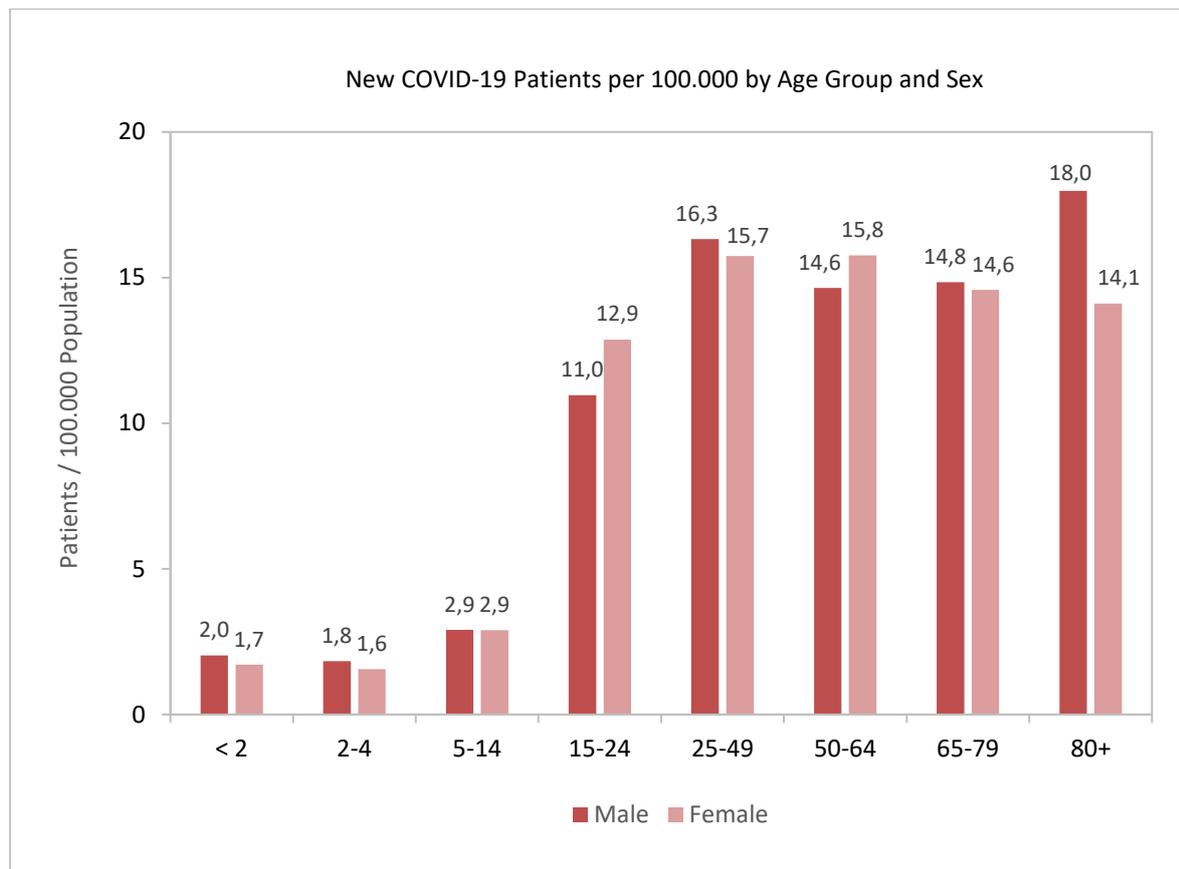


Figure 2: 7 Day Incidence per 100.000 Population of New COVID-19 Patients by Age Group and Sex, Turkey

Mortality

In total, 8.441 COVID-19 related deaths have been reported to and confirmed by MoH in Turkey. Death rate of all laboratory-confirmed patients was 2,59%. The lowest death rates were 0,04% for 5-14, and 15-24 age groups, and when the highest death rate was 28,17% for patients aged 80 and older (Table 3).

Table 3: Death Rate of All Laboratory-Confirmed COVID-19 Patients by Age Group and Sex, (%), Turkey*

Death Rate**	Age Group							
	< 2	2-4	5-14	15-24	25-49	50-64	65-79	80+
Male	0,34	0,05	0,04	0,03	0,40	4,33	17,52	34,67
Female	0,30	0,05	0,04	0,04	0,21	1,72	9,20	23,47
Total	0,32	0,05	0,04	0,04	0,31	3,05	13,14	28,17

* Deaths including 04/10/2020

** The death rate was calculated as the total number of deaths by the relevant age group and sex divided by the total number of confirmed patients by the same group.

Of 8.441 COVID-19 related deaths, 5.259 (62%) were men and 3.182 (38%) were women. Of all deaths, 6.036 (72%) were in people aged 65 years or older, but only 11% of all patients were in this age group. So far, 15 deaths among COVID-19 patients under 15 years of age have been reported and confirmed by MoH (Table 4).

Table 4: Number of Notified COVID-19 Deaths by Age Group and Sex, Turkey*

	Age Group							
	< 2	2-4	5-14	15-24	25-49	50-64	65-79	80+
Male	4	1	3	7	345	1.350	2.374	1.175
Female	3	1	3	10	160	518	1.388	1.099
Total	7	2	6	17	505	1.868	3.762	2.274

* Deaths including 04/10/2020

The lowest number of deaths per 100.000 population were 3,4, 5,8 and 6,5 respectively for Mediterranean, Western Marmara, and Eastern Blacksea Regions (Table 5).

Table 5: Number and Incidence per 100.000 Population of COVID-19 Deaths by NUTS-1, Turkey

NUTS-1	Total Number of Deaths*	Total Deaths/ 100.000 Population
Istanbul	3.090	19,9
Western Marmara	210	5,8
Aegean	752	7,1
Eastern Marmara	713	8,8
Western Anatolia	1.002	12,3
Mediterranean	359	3,4
Central Anatolia	399	9,8
Western Blacksea	353	7,6
Eastern Blacksea	175	6,5
Northeastern Anatolia	176	8,0
Mideastern Anatolia	268	6,8
Southeastern Anatolia	944	10,5
Turkey	8.441	10,2

* Deaths including 04/10/2020

Outbreak

The last 7-day incidence with more than new 15 patients per 100.000 population was observed in Western Anatolia, Mideastern Anatolia, Central Anatolia, and Northeastern Anatolia Regions. Malatya, Kayseri, and Ankara have the highest incidence rate among metropolises in the last 7-days (33,9, 26,7 and 25,2 respectively). On the other hand, Hatay, Balikesir and Muğla have the lowest incidence rate among metropolises in the last 7-days (2,9, 1,9 and 1,7 respectively).

Hospital Care

As of 04/10/2020, the number of new hospitalizations was 161.212. The percentage of hospitalizations was 49,5% among all COVID-19 patients. 8,8% of all hospitalized patients were intubated and 95,6% were discharged from hospital.

Filiation

The filiation ratio (%), and the filiation time (hours) were calculated for the new COVID-19 cases between 28/09/2020-04/10/2020.

Case Filiation

The highest case filiation ratio was in the Northeastern Anatolia Region (99,96%). The case filiation ratio was 99,77% for Turkey. Western Anatolia Region has the shortest average case filiation time. The average case filiation time of Turkey was about 7 hours.

Table 6: Ratio of Case Filiation, (%) and Average Case Filiation Time, (Hours) by NUTS-1

NUTS-1	Case Filiation Ratio, (%)	Case Filiation Time, (Hours)
Istanbul	99,70	9,0
Western Marmara	99,66	6,2
Aegean	99,80	6,1
Eastern Marmara	99,80	6,3
Western Anatolia	99,67	4,3
Mediterranean	99,78	6,1
Central Anatolia	99,78	7,1
Western Blacksea	99,65	5,5
Eastern Blacksea	99,93	6,2
Northeastern Anatolia	99,96	7,1
Mideastern Anatolia	99,88	6,0
Southeastern Anatolia	99,96	8,0
Turkey	99,77	6,7

Contact Filiation

Northeastern Anatolia Region has the highest contact filiation ratio (99,99%), and its average filiation time was 10,6 hours. The contact filiation ratio of Turkey was 99,71%, and the average contact filiation time was about 12 hours.

Table 7: Ratio of Contact Filiation, (%) and Average Contact Filiation Time, (Hours) by NUTS-1

NUTS-1	Contact Filiation Ratio, (%)	Contact Filiation Time, (Hours)
Istanbul	99,60	13,0
Western Marmara	99,60	15,0
Aegean	99,69	11,3
Eastern Marmara	99,39	10,8
Western Anatolia	99,93	7,7
Mediterranean	99,88	11,9
Central Anatolia	99,90	12,3
Western Blacksea	99,85	10,6
Eastern Blacksea	99,82	13,0
Northeastern Anatolia	99,99	10,6
Mideastern Anatolia	99,73	9,9
Southeastern Anatolia	99,93	10,3
Turkey	99,71	11,8

Total Filiation

When analyzed the cases and contacts together, the average time between the first diagnosis date and filiation date was 9,9 hours and the total filiation ratio was 99,73%.

Table 8: Family Medicine Follow-Up Ratio by NUTS-1, (%)

NUTS-1	Follow-Up Ratio, (%)
Istanbul	84,1
Western Marmara	93,2
Aegean	95,8
Eastern Marmara	90,7
Western Anatolia	95,6
Mediterranean	95,2
Central Anatolia	95,9
Western Blacksea	93,8
Eastern Blacksea	92,1
Northeastern Anatolia	92,4
Mideastern Anatolia	90,1
Southeastern Anatolia	91,2
Turkey	92,5

Notes:

- All COVID-19 patients are laboratory confirmed.
- COVID-19 deaths in the Weekly Situation Report are confirmed by Ministry of Health.
- Data in the Weekly Situation Report includes the period between 00:00 and 23:59.
- Percentage change is an indicator that represents the degree of change over the previous week. The calculation is as follows:

$$\text{Percent change} = \frac{(\text{New value} - \text{Old value})}{\text{Old value}} * 100$$

- Hospital discharge includes recovery, death, self-healing, and referral.

Definitions of COVID-19 Indicators

- **Number of Tests:** It represents the total number of all tests for COVID-19 (including resulting tests, requiring re-tests or inappropriate samples) performed during the week of reporting.
- **Number of New Patients:** It represents the number of diagnosed patients for the week of reporting.
- **Number of Deaths:** It represents the number of notified deaths by MoH among confirmed COVID-19 patients.
- **Number of New Hospitalizations:** It represents the number of confirmed COVID-19 patients newly hospitalized for the week of reporting. As of the first COVID-19 patient in Turkey was notified on 11 March 2020, patients more than once hospitalized are included only once in the number of new hospitalizations.
- **Number of New Intubated Patients:** It represents the number of confirmed COVID-19 patients newly intubated for the week of reporting. As of the first COVID-19 patient in Turkey was notified on 11 March 2020, patients more than once intubated are included only once in the number of new intubated patients.
- **Number of New Hospital Discharges:** It represents the number of confirmed patients newly discharged from hospital for the week of reporting. As of the first COVID-19 patient in Turkey was notified on 11 March 2020, patients more than once discharged from hospital are included only once in the number of new hospital discharges.
- **Case Filiation Time, (Hours):** It represents the time between the first COVID-19 diagnosis date and the filiation date of the case.
- **Contact Filiation Time, (Hours):** It represents the time between the first COVID-19 diagnosis date of case and the filiation date of the contact.
- **Case/Contact Filiation Ratio, (%):** It represents the ratio of case/contact tracing.
- **Family Medicine Follow-Up Ratio, (%):** It represents the follow-up ratio of cases and contacts whose quarantine process and home follow-up continues.