



**REPUBLIC OF TURKEY
MINISTRY OF HEALTH**

**COVID-19 Weekly Situation Report
21/09/2020 – 27/09/2020
Turkey**

28/09/2020

Summary

- After the first COVID-19 patient in Turkey was notified on 11 March 2020, 10.056.784 tests were performed in total. Between 21-27 September, 768.793 tests were performed.
- In total, 315.436 laboratory-confirmed COVID-19 patients, and 7.997 deaths due to COVID-19 have been reported in Turkey.
- The total number of hospitalizations was 157.798, and 3.612 patients were newly hospitalized between 21-27 September.
- Compared to the previous week, the number of COVID-19 tests, and the number of new hospital discharges increased, the number of new COVID-19 patients, and the number of new hospitalizations decreased.
- The death rate of all laboratory-confirmed COVID-19 patients by MoH was 2,54%.
- The highest case filiation ratios were in the Mideastern Anatolia, and Eastern Blacksea Regions. The case filiation ratio was 99,94% 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	10.056.784	768.793	19.316	2,6
Number of New Patients	315.436	11.566	-139	-1,2
Number of Deaths	7.997	491	41	9,1
Number of New Hospitalizations	157.798	3.612	-681	-15,9
Number of New Intubated Patient	13.593	619	31	5,3
Number of New Hospital Discharges	150.711	3.352	107	3,3

* Total numbers including 27/09/2020, ** Numbers between 21/09/2020 – 27/09/2020

Epidemiological Situation in Turkey

Geographical Distribution of Patients

Since 11 March 2020, a total of 315.436 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 13,9 and cumulative nationwide incidence was 379,3 (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	126.918	817,8	1.665	10,7	10,5
Western Marmara	3.723	103,4	94	2,6	19,0
Aegean	20.240	190,6	754	7,1	-1,3
Eastern Marmara	29.435	362,3	717	8,8	12,2
Western Anatolia	37.816	465,4	2.395	29,5	-11,2
Mediterranean	13.936	131,1	1.039	9,8	1,2
Central Anatolia	13.830	339,3	1.188	29,1	-20,6
Western Blacksea	10.315	221,1	649	13,9	-1,5
Eastern Blacksea	4.764	177,1	308	11,4	12,0
Northeastern Anatolia	6.811	309,6	423	19,2	-3,0
Mideastern Anatolia	11.323	288,1	1.116	28,4	2,1
Southeastern Anatolia	36.325	404,7	1.218	13,6	18,0
Turkey	315.436	379,3	11.566	13,9	-1,2

* Total number of patients including 27/09/2020, ** Patients between 21/09/2020 –27/09/2020

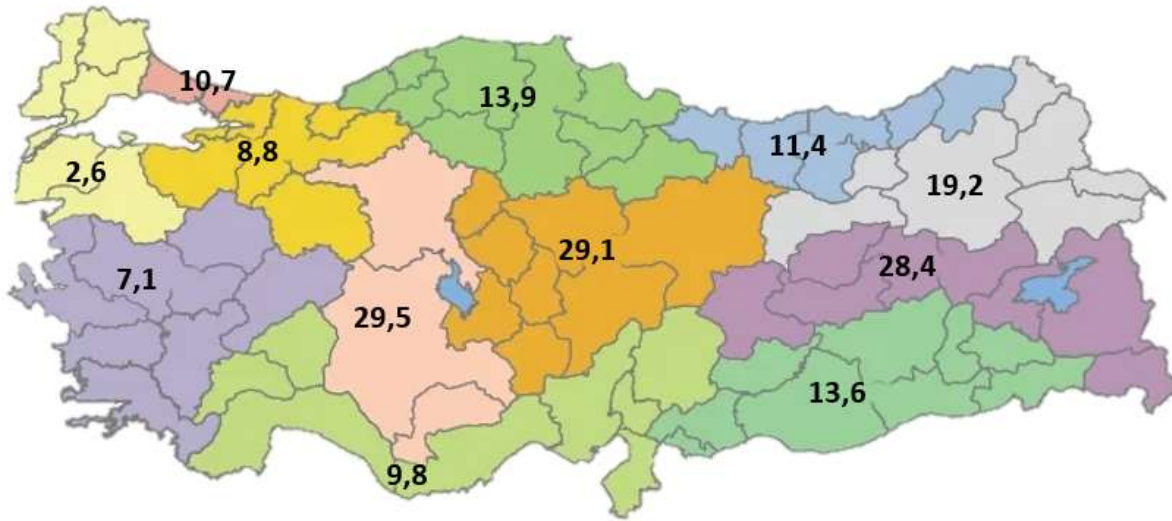


Figure 1: 7 Day Incidence per 100.000 Population of New COVID-19 Patients by NUTS-1, Turkey

Istanbul	10,7
Western Marmara	2,6
Aegean	7,1
Eastern Marmara	8,8
Western Anatolia	29,5
Mediterranean	9,8
Central Anatolia	29,1
Western Blacksea	13,9
Eastern Blacksea	11,4
Northeastern Anatolia	19,2
Mideastern Anatolia	28,4
Southeastern Anatolia	13,6
Turkey	13,9

Demographic Distribution of Patients

Of all reported patients, 49% were female and 51% were male. Among all those notified patients, 20.539 were children under 15 years of age (6,5%), 44.117 persons aged 15 to 24 years (14,0%), 155.891 persons aged 25 to 49 years (49,4%), 59.312 persons aged 50 to 64 years (18,8%), 27.739 persons aged 65 to 79 years (8,8%) and 7.837 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).

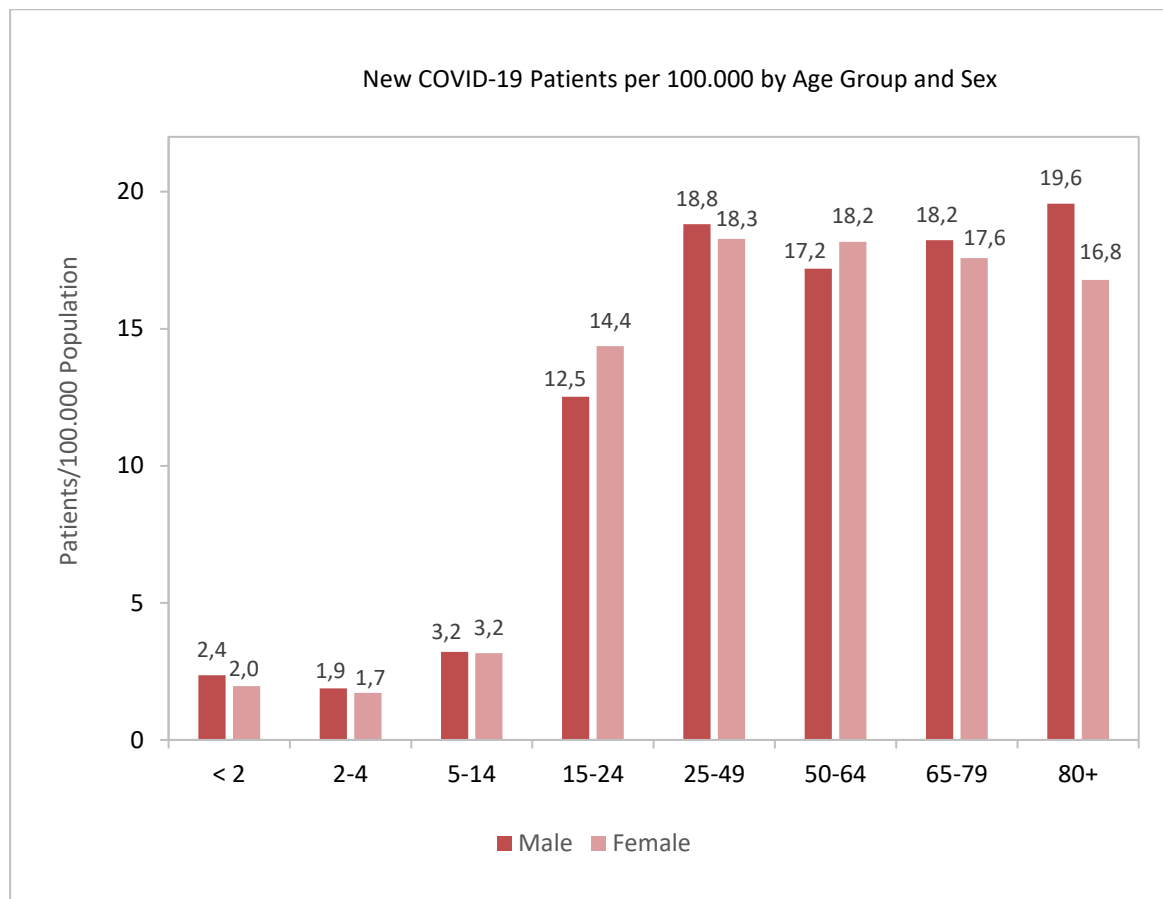


Figure 2: 7 Day Incidence per 100.000 Population of New COVID-19 Patients by Age Group and Sex, Turkey

Mortality

In total, 7.997 COVID-19 related deaths have been reported to and confirmed by MoH in Turkey. Death rate of all laboratory-confirmed COVID-19 patients was 2,54%. The lowest death rates were 0,04% for 5-14, and 15-24 age groups, and when the highest death rate was 27,68% 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	0,35	0,05	0,04	0,03	0,40	4,28	17,02	33,89
Female	0,20	0,06	0,04	0,04	0,21	1,68	8,88	23,19
Total	0,28	0,05	0,04	0,04	0,31	3,01	12,74	27,68

* Deaths including 27/09/2020

** 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 7.997 COVID-19 related deaths, 4.989 (62%) were men and 3.008 (38%) were women. Of all deaths, 5.702 (71,3%) were in people aged 65 years or older, but only 11% of all patients were in this age group. So far, 14 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	6	330	1.295	2.236	1.114
Female	2	1	3	10	152	488	1.297	1.055
Total	6	2	6	16	482	1.783	3.533	2.169

* Deaths including 27/09/2020

The lowest number of deaths per 100.000 population were 3,0, 5,6 and 6,0 respectively for Mediterranean, Western Marmara, and Mideastern Anatolia 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*	Number of Deaths/ 100.000 Population
Istanbul	3.041	19,6
Western Marmara	200	5,6
Aegean	710	6,7
Eastern Marmara	691	8,5
Western Anatolia	915	11,3
Mediterranean	314	3,0
Central Anatolia	347	8,5
Western Blacksea	319	6,8
Eastern Blacksea	163	6,1
Northeastern Anatolia	158	7,2
Mideastern Anatolia	236	6,0
Southeastern Anatolia	903	10,1
Turkey	7.997	9,6

* Deaths including 27/09/2020

Outbreak

The last 7-day incidence with more than 15 patients per 100.000 population was observed in Western Anatolia, Central Anatolia, Mideastern Anatolia, and Northeastern Anatolia Regions. Malatya, Kayseri, and Ankara have the highest incidence rate among metropolises in the last 7-days (43,0, 34,9 and 33,3 respectively). On the other hand, Aydın, Muğla, and Balıkesir have the lowest incidence rate among metropolises in the last 7-days (2,6, 2,1 and 1,7 respectively).

Hospital Care

As of 27/09/2020, the total number of hospitalizations was 157.798. The percentage of hospitalizations was 50,0% among all COVID-19 patients. 8,6% of all hospitalized patients were intubated and 95,5% were discharged.

Filiation

The filiation ratio (%), and the filiation time (hours) were calculated for the new COVID-19 cases between 21/09/2020-27/09/2020.

Case Filiation

The highest case filiation ratios were in the Mideastern Anatolia, and Eastern Blacksea Regions. The case filiation ratio was 99,94% for Turkey. Western Blacksea Region has the shortest case filiation time. The average filiation time of Turkey was about 8 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	99,80	9,0
Western Marmara	99,96	6,4
Aegean	99,96	7,0
Eastern Marmara	99,86	7,3
Western Anatolia	99,97	7,3
Mediterranean	99,98	7,0
Central Anatolia	99,99	7,9
Western Blacksea	99,94	5,6
Eastern Blacksea	100,00	7,5
Northeastern Anatolia	99,93	7,1
Mideastern Anatolia	100,00	7,4
Southeastern Anatolia	99,99	8,3
Turkey	99,94	7,9

Contact Filiation

Southeastern Anatolia Region has the highest contact filiation ratio, and its average filiation time was 10,6 hours. The contact filiation ratio of Turkey was 99,75%, and the average contact filiation time was 13 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	99,70	14,0
Western Marmara	99,82	16,2
Aegean	99,80	13,1
Eastern Marmara	99,79	14,3
Western Anatolia	99,60	10,3
Mediterranean	99,88	13,1
Central Anatolia	99,66	12,8
Western Blacksea	99,87	13,7
Eastern Blacksea	99,80	14,7
Northeastern Anatolia	99,89	10,9
Mideastern Anatolia	99,89	12,0
Southeastern Anatolia	99,96	10,6
Turkey	99,75	13,0

Total Filiation

When analyzed the cases and contacts together, the average time between the first diagnosis date and filiation date was 11,4 hours and the total filiation ratio was 99,8%.

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

NUTS-1	Follow-Up Ratio, (%)
Istanbul	82,5
Western Marmara	93,1
Aegean	95,2
Eastern Marmara	89,3
Western Anatolia	94,7
Mediterranean	94,2
Central Anatolia	95,3
Western Blacksea	93,1
Eastern Blacksea	88,8
Northeastern Anatolia	90,7
Mideastern Anatolia	88,5
Southeastern Anatolia	89,2
Turkey	91,2

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.