**REPUBLIC OF TURKEY
MINISTRY OF HEALTH**

COVID-19 Weekly Situation Report
19/10/2020 – 25/10/2020
Turkey

26/10/2020

Summary

- After the first COVID-19 patient in Turkey was notified on 11 March 2020, 13.237.403 tests were performed in total. Between 19 – 25 October, 809.639 tests were performed.
- In total, 362.800 laboratory-confirmed COVID-19 patients, and 9.799 deaths due to COVID-19 have been reported in Turkey.
- The total number of hospitalizations was 172.346, and 4.166 patients were newly hospitalized between 19 - 25 October.
- Compared to the previous week, the number of COVID-19 tests, and the number of new hospital discharges increased.
- The death rate of all laboratory-confirmed COVID-19 patients by MoH was 2,70%.
- The highest case filiation ratio was in the Southeastern Anatolia Region (99,87%). The case filiation ratio was 99,66% 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	13.237.403	809.639	17.013	2,1
Number of New Patients	362.800	14.307	2.347	19,6
Number of Deaths	9.799	503	44	9,6
Number of New Hospitalizations	172.346	4.166	567	15,8
Number of New Intubated Patient	15.751	606	74	13,9
Number of New Hospital Discharges	163.093	3.139	338	12,1

*Total numbers including 25/10/2020, ** Numbers between 19/10/2020 – 25/10/2020*

Epidemiological Situation in Turkey

Geographical Distribution of Patients

Since 11 March 2020, a total of 362.800 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 17,2 and cumulative nationwide incidence was 436,3 (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	140.192	903,3	4.924	31,7	37,7
Western Marmara	4.401	122,2	253	7,0	36,8
Aegean	24.572	231,4	1.467	13,8	26,8
Eastern Marmara	34.460	424,1	1.750	21,5	34,6
Western Anatolia	44.576	548,6	1.491	18,4	-8,9
Mediterranean	17.306	162,8	989	9,3	17,9
Central Anatolia	16.712	410,0	655	16,1	0,0
Western Blacksea	12.495	267,8	562	12,0	7,5
Eastern Blacksea	5.698	211,8	211	7,8	-6,6
Northeastern Anatolia	7.987	363,0	282	12,8	4,4
Mideastern Anatolia	14.139	359,7	639	16,3	0,9
Southeastern Anatolia	40.262	448,6	1.084	12,1	13,0
Turkey	**362.800**	**436,3**	**14.307**	**17,2**	**19,6**

*Total number of patients including 25/10/2020, ** Patients between 19/10/2020 –25/10/2020*
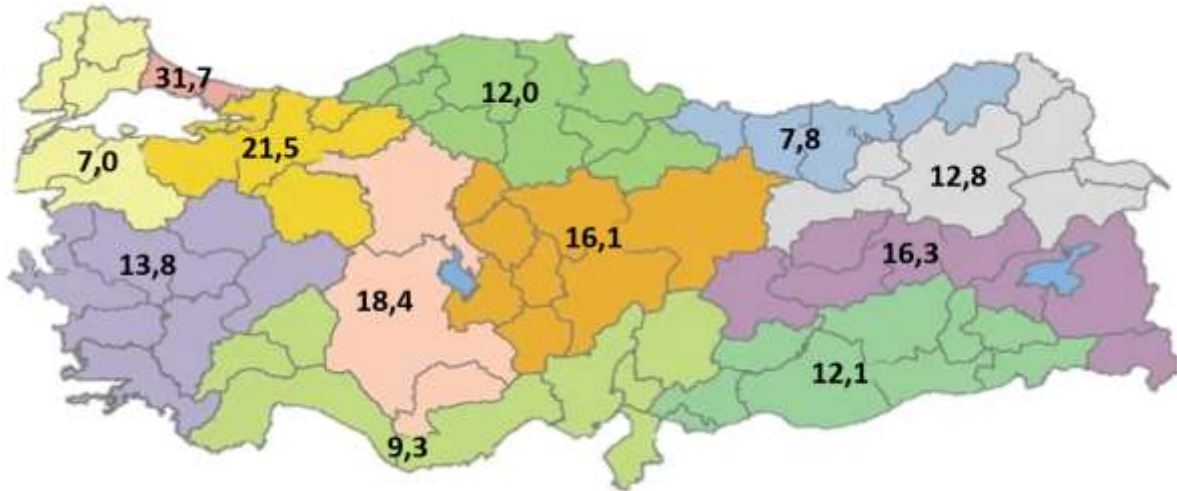
Figure 1: 7 Day Incidence per 100.000 Population of New COVID-19 Patients by NUTS-1, Turkey

Istanbul	**31,7**
Western Marmara	**7,0**
Aegean	**13,8**
Eastern Marmara	**21,5**
Western Anatolia	**18,4**
Mediterranean	**9,3**
Central Anatolia	**16,1**
Western Blacksea	**12,0**
Eastern Blacksea	**7,8**
Northeastern Anatolia	**12,8**
Mideastern Anatolia	**16,3**
Southeastern Anatolia	**12,1**
Turkey	**17,2**

Demographic Distribution of Patients

Of all reported patients, 49% were female and 51% were male. Among all those notified patients, 22.885 were children under 15 years of age (6,3%), 51.541 persons aged 15 to 24 years (14,2%), 179.695 persons aged 25 to 49 years (49,5%), 68.165 persons aged 50 to 64 years (18,8%), 31.737 persons aged 65 to 79 years (8,7%) and 8.776 persons aged 80 years and older (2,4%). 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 25-49 (Figure 2).
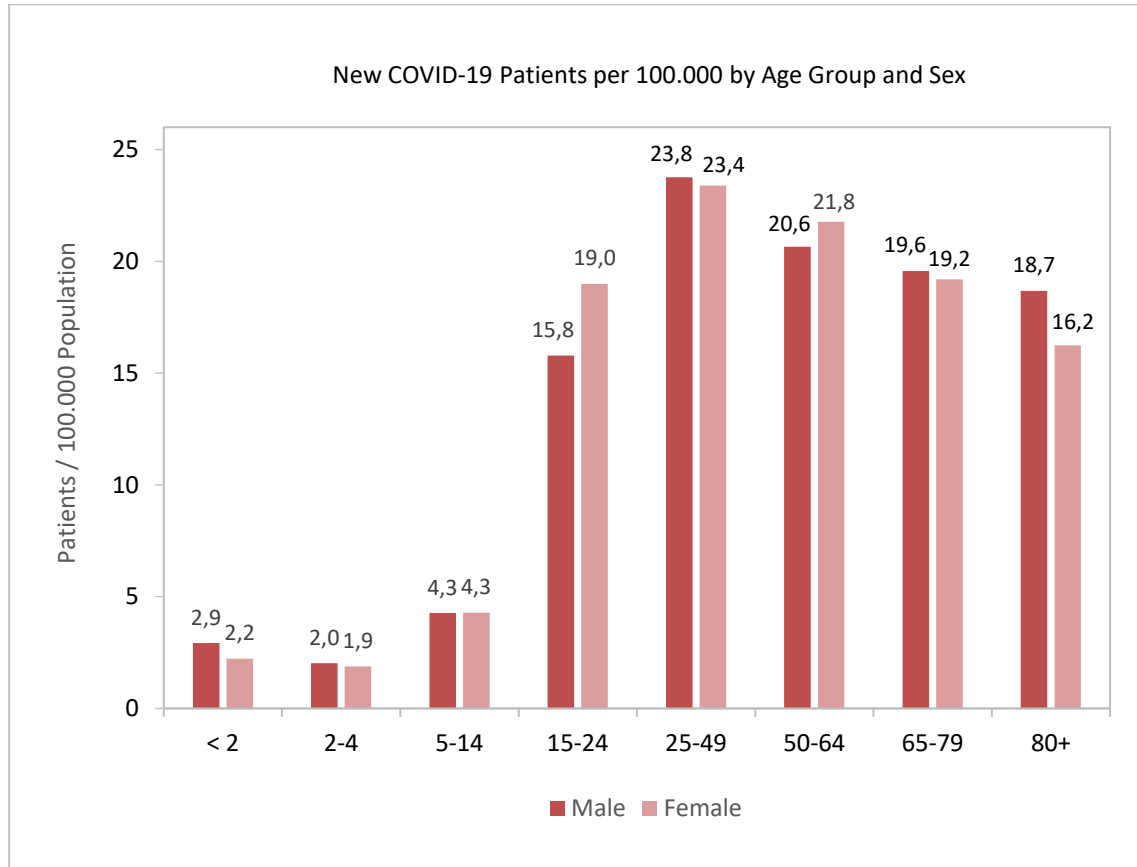
Figure 2: 7 Day Incidence per 100.000 Population of New COVID-19 Patients by Age Group and Sex, Turkey

Mortality

In total, 9.799 COVID-19 related deaths have been reported to and confirmed by MoH in Turkey. Death rate of all laboratory-confirmed patients was 2,70%. The lowest death rate was 0,04% for aged 15-24, and when the highest death rate was 30,81% 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*

	Age Group							
Death Rate**	**< 2**	**2-4**	**5-14**	**15-24**	**25-49**	**50-64**	**65-79**	**80+**
Male	0,32	0,05	0,05	0,04	0,38	4,37	18,44	38,17
Female	0,28	0,05	0,05	0,04	0,21	1,81	9,78	25,50
Total	**0,30**	**0,05**	**0,05**	**0,04**	**0,30**	**3,11**	**13,87**	**30,81**

Deaths including 25/10/2020
*** 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 9.799 COVID-19 related deaths, 6.062 (62%) were men and 3.737 (38%) were women. Of all deaths, 7.105 (73%) were in people aged 65 years or older, but only 11% of all patients were in this age group. So far, 17 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	4	9	367	1.510	2.763	1.404
Female	3	1	4	10	174	607	1.638	1.300
Total	**7**	**2**	**8**	**19**	**541**	**2.117**	**4.401**	**2.704**

* Deaths including 25/10/2020

The lowest number of deaths per 100.000 population were 4,5, 6,5 and 7,7 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	3.253	21,0
Western Marmara	235	6,5
Aegean	902	8,5
Eastern Marmara	810	10,0
Western Anatolia	1.278	15,7
Mediterranean	479	4,5
Central Anatolia	524	12,9
Western Blacksea	453	9,7
Eastern Blacksea	208	7,7
Northeastern Anatolia	231	10,5
Mideastern Anatolia	354	9,0
Southeastern Anatolia	1.072	11,9
Turkey	**9.799**	**11,8**

* Deaths including 25/10/2020

Outbreak

The last 7-day incidence with more than new 15 patients per 100.000 population was observed in the Istanbul, Eastern Marmara, Western Anatolia, Mideastern Anatolia, and Central Anatolia Regions. Kahramanmaraş, Denizli, and Istanbul have the highest incidence rate among metropolises in the last 7-days (38,3, 32,3 and 31,7 respectively). On the other hand, Mersin, Muğla, and Hatay have the lowest incidence rate among metropolises in the last 7-days (3,7, 3,6 and 2,5 respectively).

Hospital Care

As of 25/10/2020, the number of new hospitalizations was 172.346. The percentage of hospitalizations was 47,5% among all COVID-19 patients. 9,1% of all hospitalized patients were intubated and 94,6% were discharged from hospital.

Filiation

The filiation ratio (%), and the average filiation time (hours) were calculated for the new COVID-19 cases between 19/10/2020-25/10/2020.

Case Filiation

The highest case filiation ratio was in the Southeastern Anatolia Region (99,87%). The case filiation ratio was 99,66% for Turkey. Western Blacksea 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	99,32	9,1
Western Marmara	99,21	6,9
Aegean	99,83	6,8
Eastern Marmara	99,80	7,6
Western Anatolia	99,84	5,2
Mediterranean	99,85	6,8
Central Anatolia	99,78	6,4
Western Blacksea	99,74	4,8
Eastern Blacksea	99,40	5,1
Northeastern Anatolia	99,50	6,4
Mideastern Anatolia	99,79	7,2
Southeastern Anatolia	99,87	6,9
Turkey	**99,66**	**6,6**

Contact Filiation

Southeastern Anatolia Region has the highest contact filiation ratio (99,81%), and its average filiation time was 10,1 hours. The contact filiation ratio of Turkey was 99,52%, 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	98,99	14,3
Western Marmara	99,20	15,2
Aegean	99,54	12,4
Eastern Marmara	99,43	13,2
Western Anatolia	99,68	8,5
Mediterranean	99,58	11,3
Central Anatolia	99,75	11,6
Western Blacksea	99,66	10,5
Eastern Blacksea	99,39	12,3
Northeastern Anatolia	99,48	10,4
Mideastern Anatolia	99,69	10,0
Southeastern Anatolia	99,81	10,1
Turkey	**99,52**	**11,7**

Total Filiation

When analyzed the cases and contacts together, the average time between the first diagnosis date and filiation date was 9,1 hours and the total filiation ratio was 99,6%.

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

NUTS-1	Follow-Up Ratio, (%)
Istanbul	81,9
Western Marmara	91,9
Aegean	93,1
Eastern Marmara	88,2
Western Anatolia	91,1
Mediterranean	91,4
Central Anatolia	93,1
Western Blacksea	90,5
Eastern Blacksea	88,8
Northeastern Anatolia	88,9
Mideastern Anatolia	87,6
Southeastern Anatolia	89,4
Turkey	**89,7**

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:

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

- 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.