REPUBLIC OF TURKEY
MINISTRY OF HEALTH

COVID-19 Weekly Situation Report
12/10/2020 – 18/10/2020
Turkey

19/10/2020

Summary

- After the first COVID-19 patient in Turkey was notified on 11 March 2020, 12.427.764 tests were performed in total. Between 12 – 18 October, 792.626 tests were performed.
- In total, 348.493 laboratory-confirmed COVID-19 patients, and 9.296 deaths due to COVID-19 have been reported in Turkey.
- The total number of hospitalizations was 168.180, and 3.599 patients were newly hospitalized between 12 - 18 October.
- The death rate of all laboratory-confirmed COVID-19 patients by MoH was 2,67%.
- The highest case filiation ratio was in the Southeastern Anatolia Region (99,74%). The case filiation ratio was 99,48% 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	12.427.764	792.626	-7.089	-0,9
Number of New Patients	348.493	11.960	872	7,9
Number of Deaths	9.296	459	63	15,9
Number of New Hospitalizations	168.180	3.599	230	6,8
Number of New Intubated Patient	15.145	532	43	8,8
Number of New Hospital Discharges	159.954	2.801	-280	-9,1

*Total numbers including 18/10/2020, ** Numbers between 12/10/2020 – 18/10/2020*

Epidemiological Situation in Turkey

Geographical Distribution of Patients

Since 11 March 2020, a total of 348.493 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 14,4 and cumulative nationwide incidence was 419,1 (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	135.268	871,6	3.576	23,0	25,6
Western Marmara	4.148	115,2	185	5,1	32,1
Aegean	23.105	217,6	1.157	10,9	17,9
Eastern Marmara	32.710	402,6	1.300	16,0	11,6
Western Anatolia	43.085	530,3	1.637	20,1	-10,4
Mediterranean	16.317	153,5	839	7,9	10,7
Central Anatolia	16.057	394,0	655	16,1	-10,2
Western Blacksea	11.933	255,7	523	11,2	-3,3
Eastern Blacksea	5.487	204,0	226	8,4	-3,8
Northeastern Anatolia	7.705	350,2	270	12,3	-2,9
Mideastern Anatolia	13.500	343,5	633	16,1	-7,7
Southeastern Anatolia	39.178	436,5	959	10,7	6,3
Turkey	**348.493**	**419,1**	**11.960**	**14,4**	**7,9**

*Total number of patients including 18/10/2020, ** Patients between 12/10/2020 –18/10/2020*
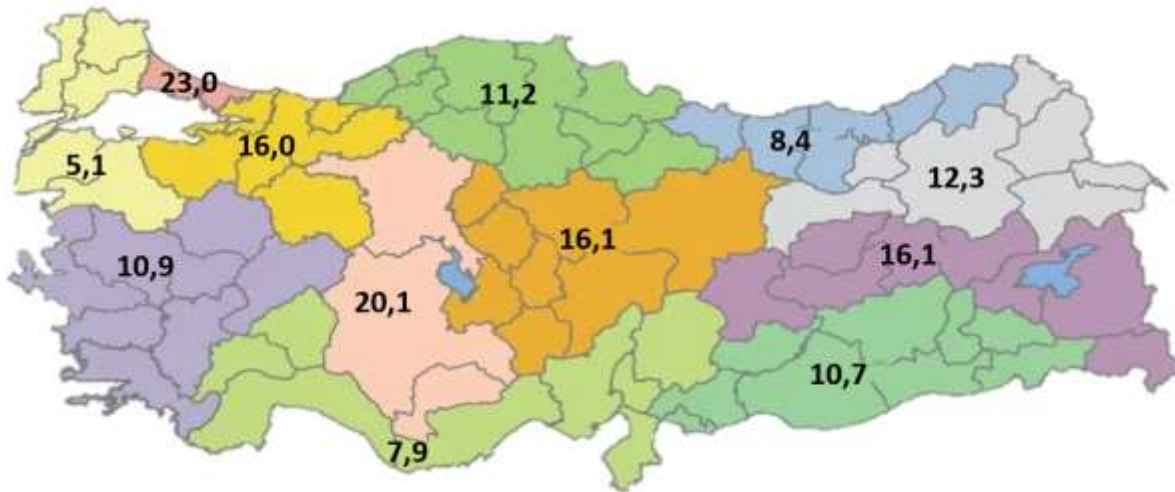
Figure 1: 7 Day Incidence per 100.000 Population of New COVID-19 Patients by NUTS-1, Turkey

Istanbul	**23,0**
Western Marmara	**5,1**
Aegean	**10,9**
Eastern Marmara	**16,0**
Western Anatolia	**20,1**
Mediterranean	**7,9**
Central Anatolia	**16,1**
Western Blacksea	**11,2**
Eastern Blacksea	**8,4**
Northeastern Anatolia	12,3
Mideastern Anatolia	16,1
Southeastern Anatolia	10,7
Turkey	**14,4**

Demographic Distribution of Patients

Of all reported patients, 49% were female and 51% were male. Among all those notified patients, 22.196 were children under 15 years of age (6,4%), 49.294 persons aged 15 to 24 years (14,1%), 172.430 persons aged 25 to 49 years (49,5%), 65.488 persons aged 50 to 64 years (18,8%), 30.566 persons aged 65 to 79 years (8,8%) and 8.518 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).
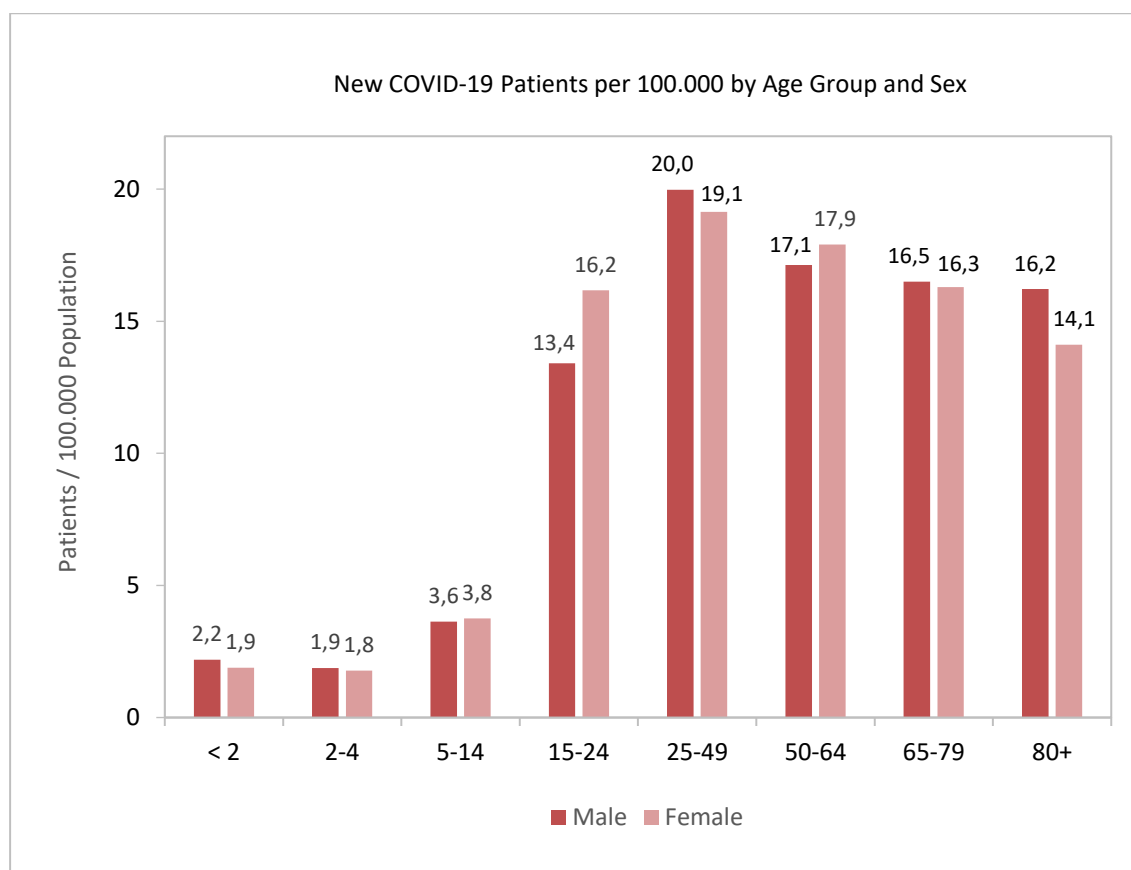
Figure 2: 7 Day Incidence per 100.000 Population of New COVID-19 Patients by Age Group and Sex, Turkey

Mortality

In total, 9.296 COVID-19 related deaths have been reported to and confirmed by MoH in Turkey. Death rate of all laboratory-confirmed patients was 2,67%. The lowest death rates were 0,04% for aged 5-14, and 15-24, and when the highest death rate was 29,90% 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	0,33	0,05	0,04	0,03	0,39	4,36	18,11	36,98
Female	0,29	0,05	0,04	0,04	0,21	1,81	9,59	24,79
Total	0,31	0,05	0,04	0,04	0,30	3,10	13,61	29,90

Deaths including 18/10/2020
*** 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 9.296 COVID-19 related deaths, 5.759 (62%) were men and 3.537 (38%) were women. Of all deaths, 6.708 (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	8	357	1.450	2.615	1.321
Female	3	1	3	10	166	582	1.546	1.226
Total	**7**	**2**	**6**	**18**	**523**	**2.032**	**4.161**	**2.547**

* Deaths including 18/10/2020

The lowest number of deaths per 100.000 population were 4,1, 6,2 and 7,3 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	3.190	20,6
Western Marmara	223	6,2
Aegean	843	7,9
Eastern Marmara	761	9,4
Western Anatolia	1.188	14,6
Mediterranean	432	4,1
Central Anatolia	481	11,8
Western Blacksea	418	9,0
Eastern Blacksea	196	7,3
Northeastern Anatolia	214	9,7
Mideastern Anatolia	323	8,2
Southeastern Anatolia	1.027	11,4
Turkey	**9.296**	**11,2**

* Deaths including 18/10/2020

Outbreak

The last 7-day incidence with more than new 15 patients per 100.000 population was observed in Istanbul, Western Anatolia, Central Anatolia, Mideastern Anatolia, and Eastern Marmara Regions. Kahramanmaraş, Denizli, and Ankara have the highest incidence rate among metropolises in the last 7-days (27,6, 26,5 and 23,3 respectively). On the other hand, Mersin, Hatay, and Muğla have the lowest incidence rate among metropolises in the last 7-days (3,7, 2,8 and 2,2 respectively).

Hospital Care

As of 18/10/2020, the number of new hospitalizations was 168.180. The percentage of hospitalizations was 48,3% among all COVID-19 patients. 9,0% of all hospitalized patients were intubated and 95,1% were discharged from hospital.

Filiation

The filiation ratio (%), and the average filiation time (hours) were calculated for the new COVID-19 cases between 12/10/2020-18/10/2020.

Case Filiation

The highest case filiation ratio was in the Southeastern Anatolia Region (99,74%). The case filiation ratio was 99,48% 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	99,07	9,0
Western Marmara	99,02	7,0
Aegean	99,53	6,5
Eastern Marmara	99,58	7,3
Western Anatolia	99,73	5,4
Mediterranean	99,59	6,2
Central Anatolia	99,62	6,6
Western Blacksea	99,53	5,1
Eastern Blacksea	99,34	5,8
Northeastern Anatolia	99,45	6,7
Mideastern Anatolia	99,61	6,3
Southeastern Anatolia	99,74	7,4
Turkey	**99,48**	**6,6**

Contact Filiation

Southeastern Anatolia Region has the highest contact filiation ratio (99,69%), and its average filiation time was 10,2 hours. The contact filiation ratio of Turkey was 99,32%, 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	98,71	13,9
Western Marmara	98,99	15,1
Aegean	99,22	11,9
Eastern Marmara	99,11	12,6
Western Anatolia	99,50	8,0
Mediterranean	99,23	11,4
Central Anatolia	99,57	11,9
Western Blacksea	99,46	10,8
Eastern Blacksea	99,33	12,5
Northeastern Anatolia	99,42	10,7
Mideastern Anatolia	99,58	10,1
Southeastern Anatolia	99,69	10,2
Turkey	**99,32**	**11,6**

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 99,4%.

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

NUTS-1	Follow-Up Ratio, (%)
Istanbul	82,0
Western Marmara	92,4
Aegean	92,9
Eastern Marmara	87,5
Western Anatolia	90,9
Mediterranean	90,8
Central Anatolia	94,9
Western Blacksea	90,7
Eastern Blacksea	89,2
Northeastern Anatolia	89,2
Mideastern Anatolia	88,4
Southeastern Anatolia	89,6
Turkey	**89,9**

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.