REPUBLIC OF TURKEY
MINISTRY OF HEALTH

COVID-19 Weekly Situation Report
07/09/2020 – 13/09/2020
Turkey

14/09/2020

Summary

- After the first COVID-19 patient in Turkey was notified on 11 March 2020, 8.538.514 tests were performed in total. Between 7-13 September, 739.988 tests were performed.
- In total, 292.165 laboratory-confirmed COVID-19 patients, and 7.056 deaths due to COVID-19 have been reported in Turkey.
- The total number of hospitalizations was 149.893, and 4.245 patients were newly hospitalized between 7-13 September.
- The death rate of all laboratory-confirmed COVID-19 patients was 2,42%.
- Considering the case filiation ratio by NUTS-1, in 4 of 12 regions this ratio was 100%, and 99,97% 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	8.538.514	739.988	-11.256	-1,5
Number of New Patients	292.165	11.356	97	0,9
Number of Deaths	7.056	383	36	10,4
Number of New Hospitalizations	149.893	4.245	100	2,4
Number of New Intubated Patient	12.386	594	14	2,4
Number of New Hospital Discharges	144.114	3.274	-18	-0,5

*Total numbers including 13/09/2020, ** Numbers between 07/09/2020 – 13/09/2020*

Epidemiological Situation in Turkey

Geographical Distribution of Patients

Since 11 March 2020, a total of 292.165 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 13,7 and cumulative nationwide incidence was 351,3 (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	123.746	797,4	1.300	8,4	2,6
Western Marmara	3.550	98,6	83	2,3	-5,7
Aegean	18.722	176,3	744	7,0	19,0
Eastern Marmara	28.079	345,6	629	7,7	-4,6
Western Anatolia	32.723	402,8	2.605	32,1	-1,0
Mediterranean	11.870	111,7	895	8,4	4,1
Central Anatolia	11.146	273,5	1.619	39,7	3,1
Western Blacksea	9.007	193,0	714	15,3	5,5
Eastern Blacksea	4.181	155,4	241	9,0	-18,9
Northeastern Anatolia	5.952	270,5	443	20,1	-16,7
Mideastern Anatolia	9.114	231,9	1.119	28,5	15,1
Southeastern Anatolia	34.075	379,6	964	10,7	-10,8
Turkey	**292.165**	**351,3**	**11.356**	**13,7**	**0,9**

* Total number of patients including 13/09/2020, ** Patients between 07/09/2020 –13/09/2020
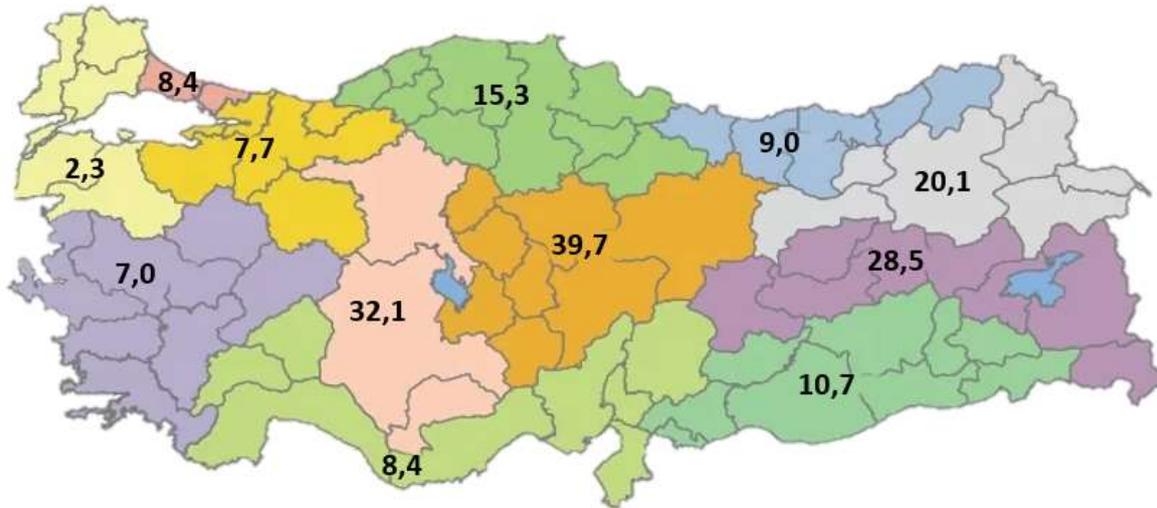
Figure 1: 7 Day Incidence per 100.000 Population of New COVID-19 Patients by NUTS-1, Turkey

Istanbul	8,4
Western Marmara	2,3
Aegean	7,0
Eastern Marmara	7,7
Western Anatolia	32,1
Mediterranean	8,4
Central Anatolia	39,7
Western Blacksea	15,3
Eastern Blacksea	9,0
Northeastern Anatolia	20,1
Mideastern Anatolia	28,5
Southeastern Anatolia	10,7
Turkey	**13,7**

Demographic Distribution of Patients

Of all reported patients, 49% were female and 51% were male. Among all those notified patients, 19.522 were children under 15 years of age (6,7%), 40.691 persons aged 15 to 24 years (13,9%), 144.387 persons aged 25 to 49 years (49,4%), 54.747 persons aged 50 to 64 years (18,7%), 25.526 persons aged 65 to 79 years (8,7%) and 7.291 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).
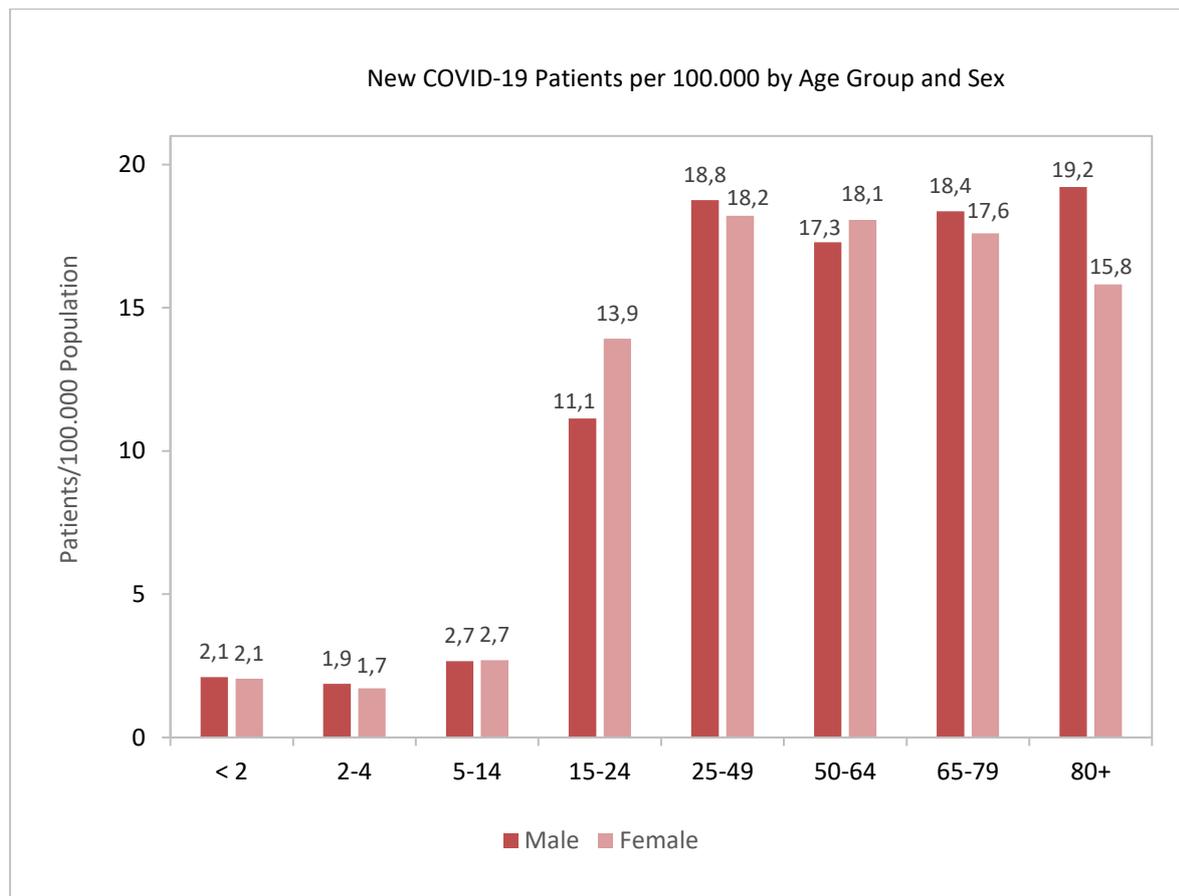
Figure 2: 7 Day Incidence per 100.000 Population of New COVID-19 Patients by Age Group and Sex, Turkey

Mortality

In total, 7.056 COVID-19 related deaths have been reported to and confirmed by MoH in Turkey. Death rate of all laboratory-confirmed COVID-19 patients was 2,42%. The lowest death rates was 0,03% for aged 15-24, and when the highest death rate was 26,66% 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	0,36	0,05	0,03	0,03	0,38	4,14	15,99	32,53
Female	0,21	0,06	0,04	0,04	0,20	1,61	8,43	22,42
Total	0,29	0,05	0,04	0,03	0,30	2,90	12,02	26,66

Deaths including 13/09/2020
*** 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 7.056 COVID-19 related deaths, 4.396 (62%) were men and 2.660 (38%) were women. Of all deaths, 5.011 (71%) were in people aged 65 years or older, but only 11% of all patients were in this age group. So far, 13 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	2	6	293	1.160	1.935	995
Female	2	1	3	8	136	429	1.132	949
Total	**6**	**2**	**5**	**14**	**429**	**1.589**	**3.067**	**1.944**

Deaths including 13/09/2020

The lowest number of deaths per 100.000 population were 2,1, 4,0 and 5,0 respectively for Mediterranean, Mideastern Anatolia and Western Marmara 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	2.941	19,0
Western Marmara	180	5,0
Aegean	638	6,0
Eastern Marmara	653	8,0
Western Anatolia	733	9,0
Mediterranean	222	2,1
Central Anatolia	214	5,3
Western Blacksea	253	5,4
Eastern Blacksea	138	5,1
Northeastern Anatolia	112	5,1
Mideastern Anatolia	157	4,0
Southeastern Anatolia	815	9,1
Turkey	**7.056**	**8,5**

Deaths including 13/09/2020

Outbreak

The last 7-day incidence with more than 15 patients per 100.000 population was observed in Central Anatolia, Western Anatolia, Mideastern Anatolia, Northeastern Anatolia, and Western Blacksea Regions. Malatya, Kayseri, and Ankara have the highest incidence rate among metropolises in the last 7-days (50,4, 48,9 and 33,5 respectively). On the other hand, Hatay, Aydın, and Balıkesir have the lowest incidence rate among metropolises in the last 7-days (2,9, 2,3 and 1,5 respectively).

Hospital Care

As of 13/09/2020, the total number of hospitalizations was 149.893. The percentage of hospitalizations was 51,3% among all COVID-19 patients. 8,3% of all hospitalized patients were intubated and 96,1% were discharged.

Filiation

The filiation ratio (%), and the filiation time (hours) were calculated for the new COVID-19 cases between 07/09/2020-13/09/2020.

Case Filiation

Considering the case filiation ratio (%) by NUTS-1, in 4 of 12 regions this ratio was 100%, and 99,97% for Turkey. Eastern Marmara Region has the shortest case filiation time. The average filiation time of Turkey was about 11 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	99,90	9,0
Western Marmara	99,82	8,0
Aegean	99,98	10,3
Eastern Marmara	99,96	7,8
Western Anatolia	100,00	16,0
Mediterranean	99,99	10,1
Central Anatolia	100,00	13,6
Western Blacksea	99,98	9,6
Eastern Blacksea	100,00	16,8
Northeastern Anatolia	99,97	11,9
Mideastern Anatolia	100,00	13,5
Southeastern Anatolia	99,98	8,6
Turkey	**99,97**	**11,3**

Contact Filiation

Northeastern Anatolia, and the Southeastern Anatolia Regions have the highest contact filiation ratio, and their average filiation times were 15,4 and 11 hours respectively. The contact filiation ratio of Turkey was 99,66%, and the average contact filiation time was about 16 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	15,0
Western Marmara	99,76	15,6
Aegean	99,79	17,4
Eastern Marmara	99,48	16,9
Western Anatolia	99,57	18,0
Mediterranean	99,81	16,0
Central Anatolia	99,65	17,8
Western Blacksea	99,85	15,5
Eastern Blacksea	99,75	22,2
Northeastern Anatolia	99,97	15,4
Mideastern Anatolia	99,73	17,3
Southeastern Anatolia	99,97	11,0
Turkey	**99,66**	**16,2**

Total Filiation

When analyzed the cases and contacts together, the average time between the first diagnosis date and filiation date was 14,4 hours and the total filiation ratio was 99,75%.

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

NUTS-1	Follow-Up Ratio, (%)
Istanbul	79,8
Western Marmara	91,6
Aegean	93,0
Eastern Marmara	86,7
Western Anatolia	94,4
Mediterranean	92,3
Central Anatolia	92,8
Western Blacksea	89,5
Eastern Blacksea	85,6
Northeastern Anatolia	87,8
Mideastern Anatolia	87,2
Southeastern Anatolia	86,8
Turkey	**89,0**

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.