REPUBLIC OF TURKEY
MINISTRY OF HEALTH

COVID-19 Weekly Situation Report
14/09/2020 – 20/09/2020
Turkey

21/09/2020

Summary

- After the first COVID-19 patient in Turkey was notified on 11 March 2020, 9.287.991 tests were performed in total. Between 14-20 September, 749.477 tests were performed.

- In total, 303.870 laboratory-confirmed COVID-19 patients, and 7.506 deaths due to COVID-19 have been reported in Turkey.

- The total number of hospitalizations was 154.186, and 4.293 patients were newly hospitalized between 14-20 September.

- Compared to the previous week, COVID-19 tests increased, the number of new intubated patients decreased.

- The death rate of all laboratory-confirmed COVID-19 patients was 2,47%.

- Considering the case filiation ratio (%) by NUTS-1, in 5 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	9.287.991	749.477	9.489	1,3
Number of New Patients	303.870	11.705	349	3,1
Number of Deaths	7.506	450	67	17,5
Number of New Hospitalizations	154.186	4.293	48	1,1
Number of New Intubated Patient	12.974	588	-6	-1,0
Number of New Hospital Discharges	147.359	3.245	-29	-0,9

*Total numbers including 20/09/2020, ** Numbers between 14/09/2020 – 20/09/2020*

Epidemiological Situation in Turkey

Geographical Distribution of Patients

Since 11 March 2020, a total of 303.870 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 14,1 and cumulative nationwide incidence was 365,4 (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	125.253	807,1	1.507	9,7	15,9
Western Marmara	3.629	100,8	79	2,2	-4,8
Aegean	19.486	183,5	764	7,2	2,7
Eastern Marmara	28.718	353,5	639	7,9	1,6
Western Anatolia	35.421	436,0	2.698	33,2	3,6
Mediterranean	12.897	121,4	1.027	9,7	14,7
Central Anatolia	12.642	310,2	1.496	36,7	-7,6
Western Blacksea	9.666	207,2	659	14,1	-7,7
Eastern Blacksea	4.456	165,6	275	10,2	14,1
Northeastern Anatolia	6.388	290,4	436	19,8	-1,6
Mideastern Anatolia	10.207	259,7	1.093	27,8	-2,3
Southeastern Anatolia	35.107	391,1	1.032	11,5	7,1
Turkey	**303.870**	**365,4**	**11.705**	**14,1**	**3,1**

*Total number of patients including 20/09/2020, ** Patients between 14/09/2020 –20/09/2020*
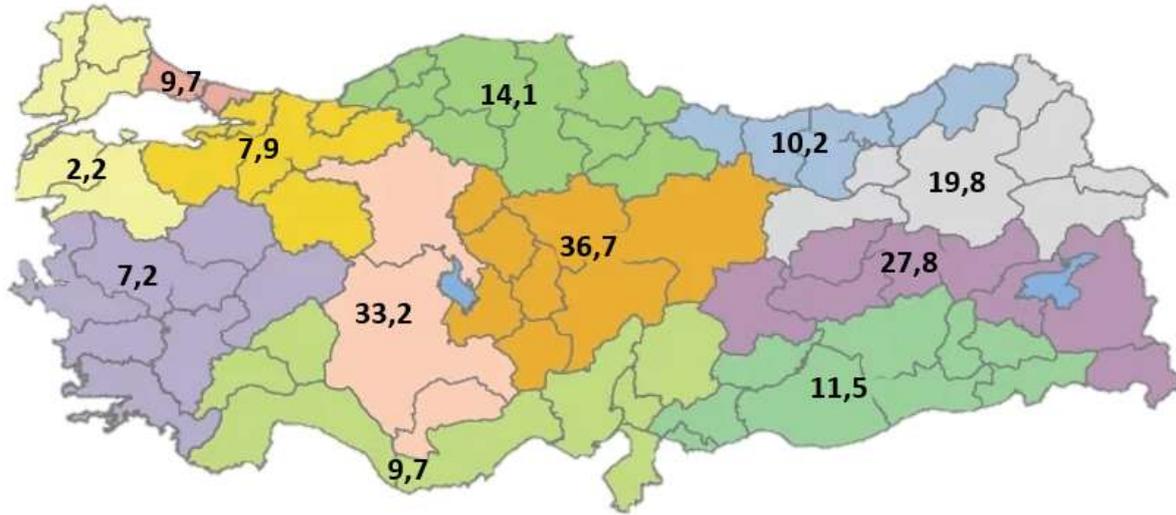
Figure 1: 7 Day Incidence per 100.000 Population of New COVID-19 Patients by NUTS-1, Turkey

Istanbul	**9,7**
Western Marmara	**2,2**
Aegean	**7,2**
Eastern Marmara	**7,9**
Western Anatolia	**33,2**
Mediterranean	**9,7**
Central Anatolia	**36,7**
Western Blacksea	**14,1**
Eastern Blacksea	**10,2**
Northeastern Anatolia	**19,8**
Mideastern Anatolia	**27,8**
Southeastern Anatolia	**11,5**
Turkey	**14,1**

Demographic Distribution of Patients

Of all reported patients, 49% were female and 51% were male. Among all those notified patients, 20.006 were children under 15 years of age (6,6%), 42.379 persons aged 15 to 24 years (13,9%), 150.176 persons aged 25 to 49 years (49,4%), 57.081 persons aged 50 to 64 years (18,8%), 26.658 persons aged 65 to 79 years (8,8%) and 7.569 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).

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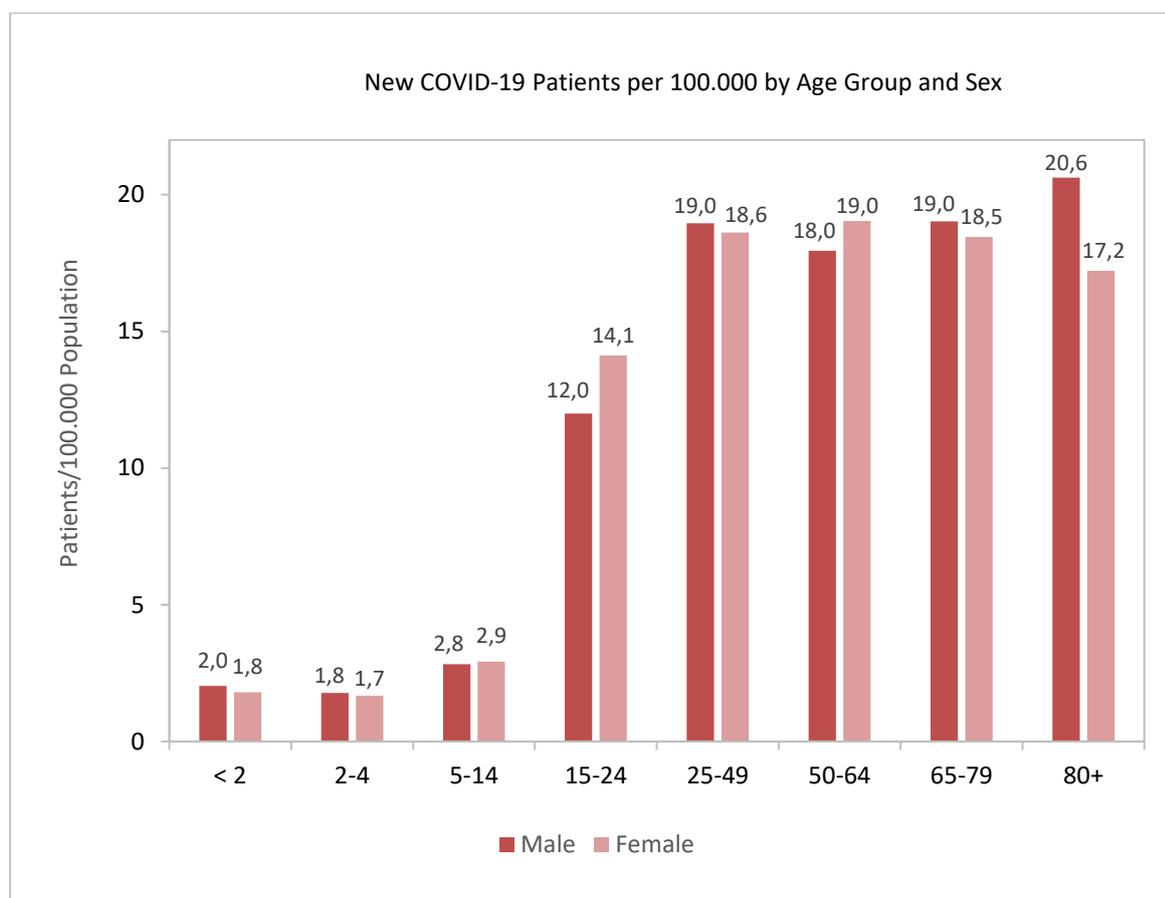
Figure 2: 7 Day Incidence per 100.000 Population of New COVID-19 Patients by Age Group and Sex, Turkey

Mortality

In total, 7.506 COVID-19 related deaths have been reported to and confirmed by MoH in Turkey. Death rate of all laboratory-confirmed COVID-19 patients was 2,47%. The lowest death rates were 0,04% for aged 5-14,and 15-24, and when the highest death rate was 27,19% 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	0,04	0,03	0,39	4,20	16,40	33,09
Female	0,21	0,06	0,04	0,04	0,20	1,64	8,63	22,92
Total	0,29	0,05	0,04	0,04	0,30	2,95	12,31	27,19

Deaths including 20/09/2020
** 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 7.506 COVID-19 related deaths, 4.675 (62%) were men and 2.831 (38%) were women. Of all deaths, 5.340 (71%) 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	313	1.225	2.072	1.051
Female	2	1	3	10	141	457	1.210	1.007
Total	**6**	**2**	**6**	**16**	**454**	**1.682**	**3.282**	**2.058**

* Deaths including 20/09/2020

The lowest number of deaths per 100.000 population were 2,5, 5,0 and 5,3 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	2.986	19,2
Western Marmara	191	5,3
Aegean	668	6,3
Eastern Marmara	670	8,2
Western Anatolia	822	10,1
Mediterranean	263	2,5
Central Anatolia	284	7,0
Western Blacksea	290	6,2
Eastern Blacksea	150	5,6
Northeastern Anatolia	133	6,0
Mideastern Anatolia	196	5,0
Southeastern Anatolia	853	9,5
Turkey	**7.506**	**9,0**

* Deaths including 20/09/2020

Outbreak

The last 7-day incidence with more than 15 patients per 100.000 population was observed in Central Anatolia, Western Anatolia, Mideastern Anatolia, and Northeastern Anatolia Regions. Malatya, Kayseri, and Ankara have the highest incidence rate among metropolises in the last 7-days (52,0, 47,7 and 36,1 respectively). On the other hand, Muğla, Aydın, and Balıkesir have the lowest incidence rate among metropolises in the last 7-days (2,4, 2,3 and 1,6 respectively).

Hospital Care

As of 20/09/2020, the total number of hospitalizations was 154.186. The percentage of hospitalizations was 50,7% among all COVID-19 patients. 8,4% of all hospitalized patients were intubated and 95,6% were discharged.

Filiation

The filiation ratio (%), and the filiation time (hours) were calculated for the new COVID-19 cases between 14/09/2020-20/09/2020.

Case Filiation

Considering the case filiation ratio (%) by NUTS-1, in 5 of 12 regions this ratio was 100%, and 99,97% for Turkey. Western Blacksea Region has the shortest case filiation time. The average filiation time of Turkey was about 9 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	10,0
Western Marmara	100,00	7,6
Aegean	99,99	9,9
Eastern Marmara	99,91	7,1
Western Anatolia	100,00	11,3
Mediterranean	99,98	8,6
Central Anatolia	99,98	10,8
Western Blacksea	99,99	6,7
Eastern Blacksea	100,00	10,8
Northeastern Anatolia	99,97	14,0
Mideastern Anatolia	100,00	8,4
Southeastern Anatolia	100,00	8,0
Turkey	**99,97**	**9,4**

Contact Filiation

Southeastern Anatolia Region has the highest contact filiation ratio, and its average filiation time was 10,3 hours. The contact filiation ratio of Turkey was 99,69%, and the average contact filiation time was about 14 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	99,66	16,6
Aegean	99,78	18,6
Eastern Marmara	99,70	14,4
Western Anatolia	99,60	13,7
Mediterranean	99,79	13,4
Central Anatolia	99,74	14,8
Western Blacksea	99,81	15,2
Eastern Blacksea	99,90	16,7
Northeastern Anatolia	99,96	12,7
Mideastern Anatolia	99,86	12,1
Southeastern Anatolia	99,97	10,3
Turkey	**99,69**	**14,4**

Total Filiation

When analyzed the cases and contacts together, the average time between the first diagnosis date and filiation date was 12,1 hours and the total filiation ratio was 99,77%.

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

NUTS-1	Follow-Up Ratio, (%)
Istanbul	81,4
Western Marmara	90,3
Aegean	93,8
Eastern Marmara	86,8
Western Anatolia	94,5
Mediterranean	92,2
Central Anatolia	93,5
Western Blacksea	90,8
Eastern Blacksea	85,7
Northeastern Anatolia	87,7
Mideastern Anatolia	86,9
Southeastern Anatolia	87,2
Turkey	**89,2**

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:

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

- 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.