**REPUBLIC OF TURKEY
MINISTRY OF HEALTH**

# COVID-19 Weekly Situation Report
# 31/08/2020 – 06/09/2020
# Turkey

**07/09/2020**

**Summary**

- After the first COVID-19 patient in Turkey was notified on 11 March 2020, 7.798.526 tests were performed in total. Between 31 August-6 September, 751.244 tests were performed.

- In total, 280.809 laboratory-confirmed COVID-19 patients, and 6.673 deaths due to COVID-19 have been reported in Turkey.

- The total number of hospitalizations was 145.648, and 4.145 patients were newly hospitalized between 31 August-6 September.

- Compared to the previous week, the number of COVID-19 tests, and the number of hospital discharges increased.

- The death rate of all laboratory-confirmed COVID-19 patients was 2,38%.

- Considering the case filiation ratio by NUTS-1, in 6 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 | 7.798.526 | 751.244 | 50.302 | 7,2 |
| Number of New Patients | 280.809 | 11.259 | 962 | 9,3 |
| Number of Deaths | 6.673 | 347 | 142 | 69,3 |
| Number of New Hospitalizations | 145.648 | 4.145 | 259 | 6,7 |
| Number of New Intubated Patient | 11.792 | 580 | 59 | 11,3 |
| Number of New Hospital Discharges | 140.840 | 3.292 | 229 | 7,5 |

*Total numbers including 06/09/2020,  ** Numbers between 31/08/2020 – 06/09/2020*

# Epidemiological Situation in Turkey

## Geographical Distribution of Patients

Since 11 March 2020, a total of 280.809 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 13,5 and cumulative nationwide incidence was 337,7 (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 | New Patients in Last 7 Days** | 7 Day Incidence per 100.000 Population | Change from Previous Week, (%) |
|---|---|---|---|---|---|
| Istanbul | 122.446 | 789,0 | 1.267 | 8,2 | 4,5 |
| Western Marmara | 3.467 | 96,3 | 88 | 2,4 | 37,5 |
| Aegean | 17.978 | 169,3 | 625 | 5,9 | 3,5 |
| Eastern Marmara | 27.450 | 337,8 | 659 | 8,1 | 3,9 |
| Western Anatolia | 30.118 | 370,7 | 2.631 | 32,4 | 15,7 |
| Mediterranean | 10.975 | 103,3 | 860 | 8,1 | 7,0 |
| Central Anatolia | 9.527 | 233,7 | 1.570 | 38,5 | 19,8 |
| Western Blacksea | 8.293 | 177,7 | 677 | 14,5 | 16,1 |
| Eastern Blacksea | 3.940 | 146,5 | 297 | 11,0 | 4,9 |
| Northeastern Anatolia | 5.509 | 250,4 | 532 | 24,2 | 8,4 |
| Mideastern Anatolia | 7.995 | 203,4 | 972 | 24,7 | 23,4 |
| Southeastern Anatolia | 33.111 | 368,9 | 1.081 | 12,0 | -13,5 |
| **Turkey** | **280.809** | **337,7** | **11.259** | **13,5** | **9,3** |

*Total number of patients including 06/09/2020, ** Patients between 31/08/2020 – 06/09/2020*

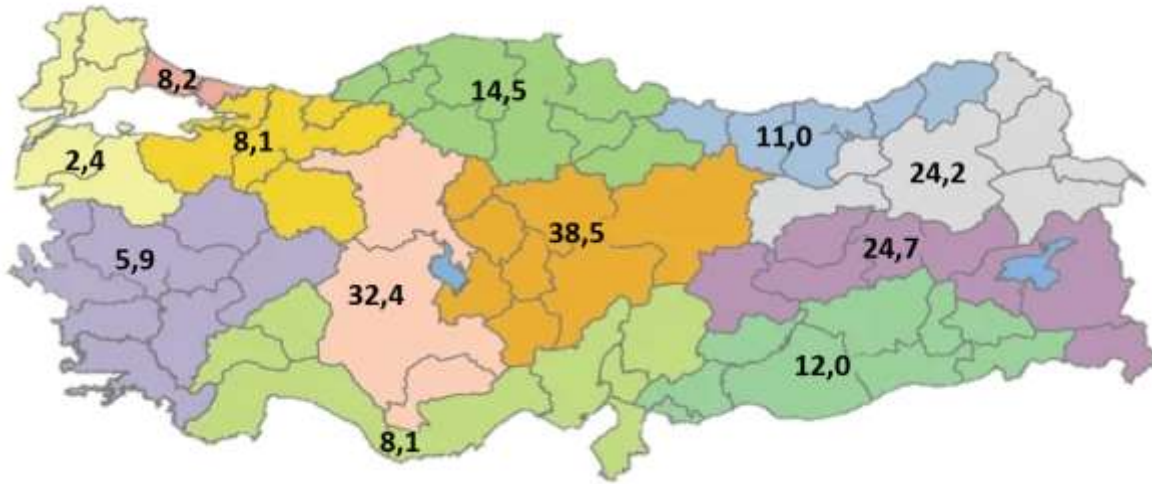**Figure 1:** 7 Day Incidence per 100.000 Population of New COVID-19 Patients by NUTS-1, Turkey

| | |
|---|---|
| Istanbul | 8,2 |
| Western Marmara | 2,4 |
| Aegean | 5,9 |
| Eastern Marmara | 8,1 |
| Western Anatolia | 32,4 |
| Mediterranean | 8,1 |
| Central Anatolia | 38,5 |
| Western Blacksea | 14,5 |
| Eastern Blacksea | 11,0 |
| Northeastern Anatolia | 24,2 |
| Mideastern Anatolia | 24,7 |
| Southeastern Anatolia | 12,0 |
| **Turkey** | **13,5** |

## Demographic Distribution of Patients

Of all reported patients, 49% were female and 51% were male. Among all those notified patients, 19.056 were children under 15 years of age (6,8%), 39.073 persons aged 15 to 24 years (13,9%), 138.689 persons aged 25 to 49 years (49,4%), 52.516 persons aged 50 to 64 years (18,7%), 24.440 persons aged 65 to 79 years (8,7%) and 7.034 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 among the 25-49 age group (Figure 2).
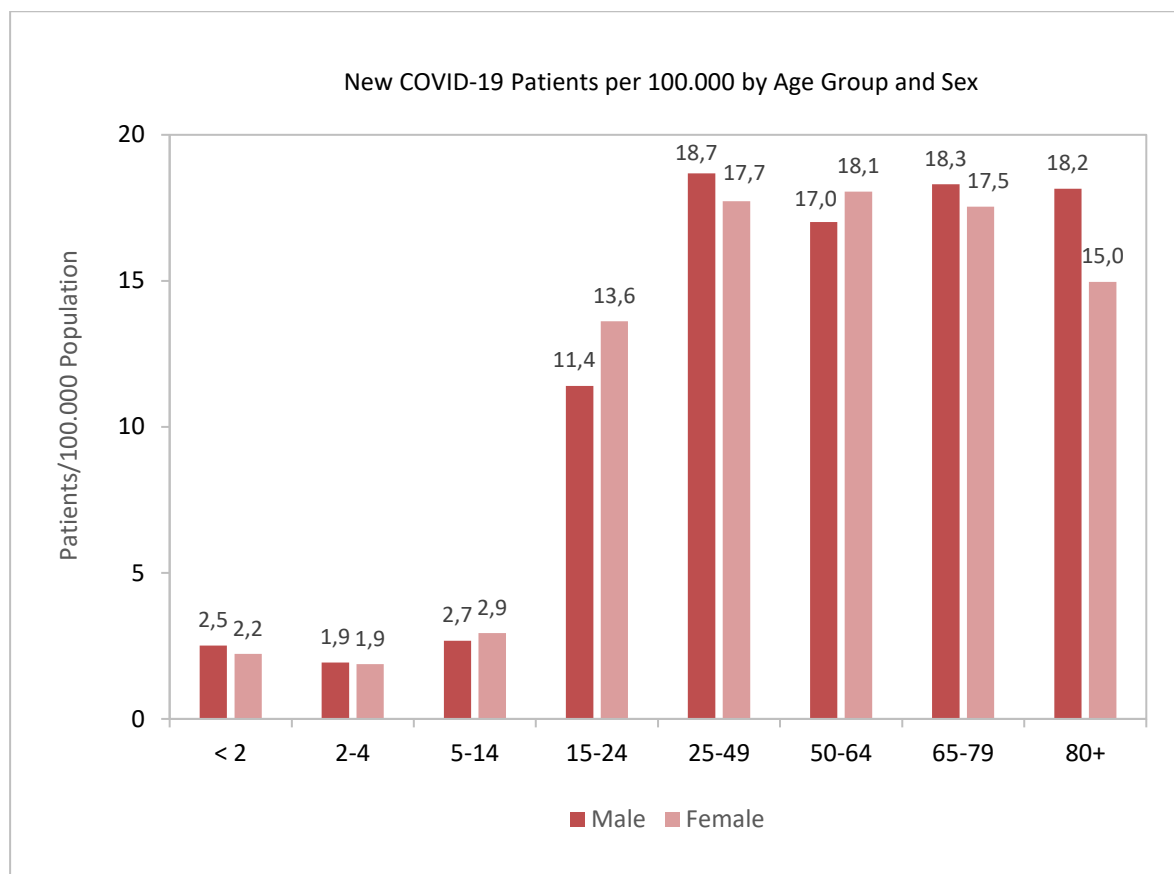
New COVID-19 Patients per 100.000 by Age Group and Sex



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

## Mortality

In total, 6.673 COVID-19 related deaths have been reported to and confirmed by MoH in Turkey. Death rate of all laboratory-confirmed COVID-19 patients was 2,38%. The lowest death rate was 0,03% for 15-24 age group, and when the highest death rate was 26,24% for patients aged 80 and older (Table 3).

**Table 3:** Death Rate of All Laboratory-Confirmed 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** | 0,37 | 0,05 | 0,03 | 0,01 | 0,38 | 4,08 | 15,66 | 31,76 |
| **Female** | 0,22 | 0,06 | 0,04 | 0,04 | 0,20 | 1,57 | 8,37 | 22,26 |
| **Total** | **0,30** | **0,06** | **0,04** | **0,03** | **0,30** | **2,86** | **11,83** | **26,24** |

* Deaths including 06/09/2020
** 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 6.673 COVID-19 related deaths, 4.146 (62%) were men and 2.527 (38%) were women. Of all deaths, 4.737 (71,0%) were in people aged 65 years or older, but only 11,2% 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 | 2 | 285 | 1.099 | 1.816 | 937 |
| **Female** | 2 | 1 | 3 | 8 | 127 | 402 | 1.075 | 909 |
| **Total** | **6** | **2** | **5** | **10** | **412** | **1.501** | **2.891** | **1.846** |

*Deaths including 06/09/2020*

The lowest number of deaths per 100.000 population were 1,8, 3,2, and 3,8 respectively for Mediterranean, Mideastern Anatolia, and Central 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 | 2.899 | 18,7 |
| Western Marmara | 171 | 4,7 |
| Aegean | 612 | 5,8 |
| Eastern Marmara | 635 | 7,8 |
| Western Anatolia | 651 | 8,0 |
| Mediterranean | 196 | 1,8 |
| Central Anatolia | 155 | 3,8 |
| Western Blacksea | 225 | 4,8 |
| Eastern Blacksea | 125 | 4,6 |
| Northeastern Anatolia | 96 | 4,4 |
| Mideastern Anatolia | 126 | 3,2 |
| Southeastern Anatolia | 782 | 8,7 |
| **Turkey** | **6.673** | **8,0** |

*Deaths including 06/09/2020*

## Outbreak

The last 7-day incidence with more than new 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 (45,6, 43,8 and 32,6 respectively). On the other hand, Muğla, Balıkesir, and Hatay have the lowest incidence rate among metropolises in the last 7-days (2,3, 2,3 and 2,0 respectively).

## Hospital Care

As of 06/09/2020, the number of new hospitalizations was 145.648. The percentage of hospitalizations was 51,9% among all COVID-19 patients. 8,1% of all hospitalized patients were intubated and 96,7% were discharged from hospital.

## Filiation

The filiation ratio (%), and the filiation time (hours) were calculated for the new COVID-19 cases between 31/08/2020-06/09/2020.

### Case Filiation

Considering the case filiation ratio (%) by NUTS-1, in 6 of 12 regions this ratio was 100%, and 99,97% for Turkey. Western Marmara Region has the shortest case filiation time. The average filiation time of Turkey was about 13 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 | 9,0 |
| Aegean | 99,86 | 11,8 |
| Eastern Marmara | 99,98 | 9,3 |
| Western Anatolia | 100,00 | 17,7 |
| Mediterranean | 99,94 | 11,0 |
| Central Anatolia | 99,99 | 17,4 |
| Western Blacksea | 100,00 | 14,1 |
| Eastern Blacksea | 100,00 | 20,2 |
| Northeastern Anatolia | 100,00 | 18,0 |
| Mideastern Anatolia | 100,00 | 14,4 |
| Southeastern Anatolia | 99,99 | 11,6 |
| **Turkey** | **99,97** | **13,3** |

**Contact Filiation**

Southeastern Anatolia Region has the highest contact filiation ratio, and its average filiation time was 14 hours. The contact filiation ratio of Turkey was 99,61%, and the average contact filiation time was about 19 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 | 99,20 | 16,0 |
| Western Marmara | 99,74 | 17,0 |
| Aegean | 99,66 | 18,3 |
| Eastern Marmara | 99,56 | 18,3 |
| Western Anatolia | 99,67 | 20,3 |
| Mediterranean | 99,59 | 17,5 |
| Central Anatolia | 99,46 | 20,9 |
| Western Blacksea | 99,84 | 19,4 |
| Eastern Blacksea | 99,65 | 28,7 |
| Northeastern Anatolia | 99,90 | 19,4 |
| Mideastern Anatolia | 99,65 | 19,3 |
| Southeastern Anatolia | 99,96 | 14,0 |
| **Turkey** | **99,61** | **19,1** |

**Total Filiation**

When analyzed the cases and contacts together, the average time between the first diagnosis date and filiation date was 17,3 hours and the total filiation ratio was 99,72%.

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

| NUTS-1 | Follow-Up Ratio, (%) |
|---|---|
| Istanbul | 72,3 |
| Western Marmara | 87,0 |
| Aegean | 89,7 |
| Eastern Marmara | 83,7 |
| Western Anatolia | 91,6 |
| Mediterranean | 88,7 |
| Central Anatolia | 89,0 |
| Western Blacksea | 85,0 |
| Eastern Blacksea | 80,7 |
| Northeastern Anatolia | 83,7 |
| Mideastern Anatolia | 82,3 |
| Southeastern Anatolia | 83,9 |
| **Turkey** | **84,8** |

**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.