

## Dengue Situation Report, Issue # 4, 18 SEP 2023

<https://www.who.int/bangladesh/emergencies/dengue-update-2023>

Epi-week 37: 11 - 17 Sep 2023



**Weekly Case**

19 356



**Weekly Recovered**

18 698



**Weekly Death**

92



**Presently Hospitalised**

10 437



**Cumulative Case**

167 684



**Cumulative Death**

822

(Data source: HEOC & Control Room, MIS-DGHS)

## Highlights

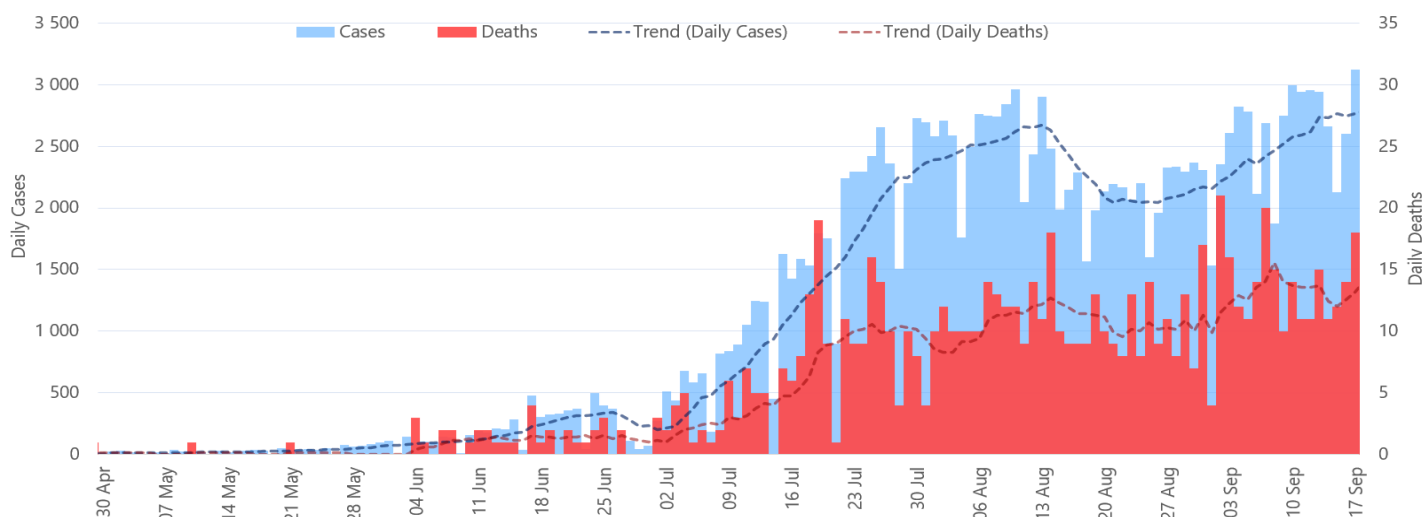
- This reporting week 19 356 cases and 92 deaths were reported compared to 18 026 cases and 96 deaths. The highest number of cases (3 122) and deaths (18) in a single day were reported this week on 17 September 2023.
- The number of reported cases and deaths show an increasing trend around the country outside of Dhaka city while the trend within Dhaka city is showing a relative decrease.
- WHO and partners continue to support the government in outbreak response. This week a high-level deployment of expert from the WHO dengue unit in Geneva arrived the country to further support the response.

## Surveillance & Laboratory

- As of 17 September 2023, a total of 167 684 cases (dengue NS1 or IgM test-positive persons hospitalized in the reporting health facilities), including 822 deaths had been reported in the country, according to the DGHS Dengue press release.
- The highest ever daily cases of 3 122 and 18 deaths were reported on 17 September 2023.
- During the epidemiological week 37 (11-17 September), 19 356 new cases were reported, which has increased by 7.4% compared to the previous week 36 (n=18 026). Highest ever active dengue case (10 437) reported during the week on 17 September 2023.
- At the divisional level, weekly cases increased in all the divisions except Mymensingh and Sylhet. Dhaka division reported the highest number of cases (10 037 this week and 9 537 in the previous week, a 5.2% increase),

**Figure 1: Epi-curve: Dengue Cases and Deaths, Bangladesh, 2023**

(Data source: HEOC & Control Room, MIS-DGHS)

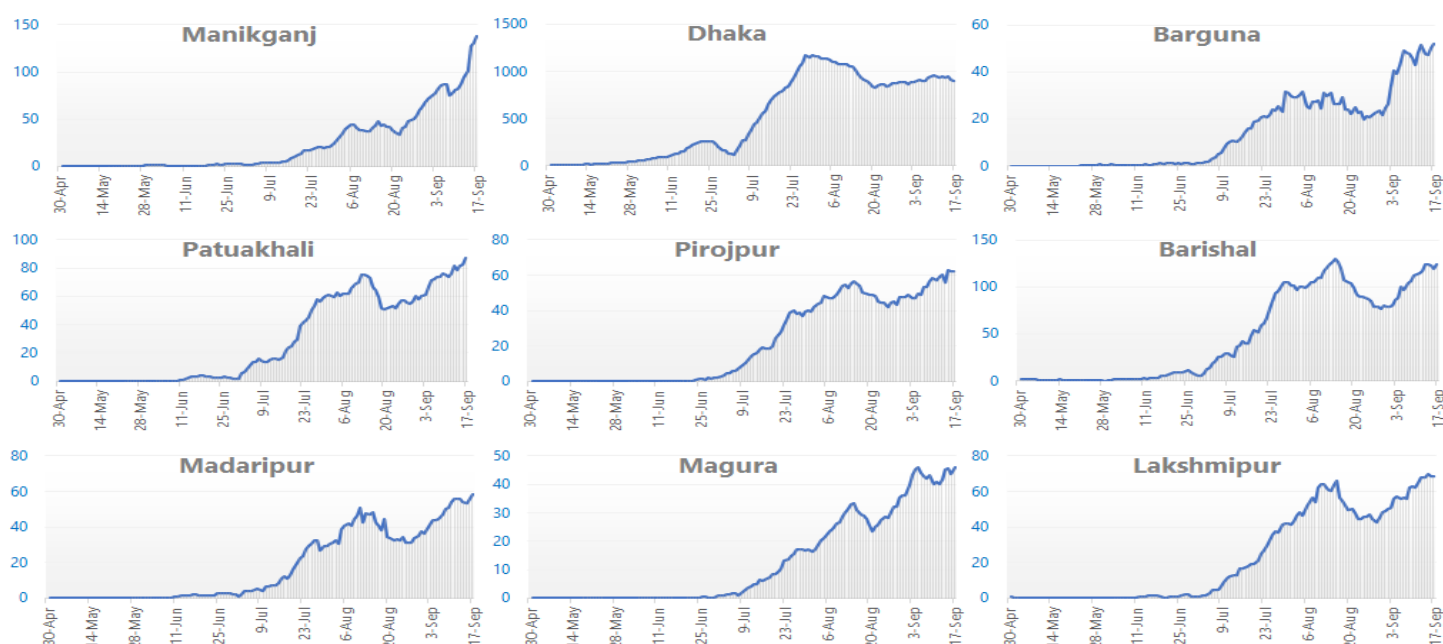


followed by Chattogram (2 853 this week and 2 597 in the previous week, a 9.9% increase), Barishal (2 663 this week and 2 370 in the previous week, a 12.4% increase), Khulna (1 833 this week and 1 688 in the previous week, an 8.6% increase), Rajshahi (1 017 this week and 899 in the previous week, a 13.1% increase), Mymensingh (554 this week and 557 in the previous week, a 0.5% decrease), Rangpur (338 this week and 306 in the previous week, a 10.5% increase), and Sylhet (61 this week and 72 in the previous week, a 15.3% decrease) [Figure 2].

- In the reporting week, all 64 districts have reported cases ranging from 3 (in Maulvibazar) to 6 287 (in Dhaka).
- Higher case density (>20 per 100 000 population per week) was reported in Manikganj, Dhaka, Barguna, Patuakhali, Pirojpur, Barishal, Madaripur, Magura, Lakshmipur, and Rajbari districts. While 12 districts were in the group of 11-20, 15 districts were in the group of 6-10 and 27 districts were in the group of ≤5 cases per 100 000 per week.
- Based on an in-house dengue risk categorization using two criteria (weekly increment (%) and case per 100k population per week – see map legend [Figure 3]) revealed 12 upazilas were at the very high-risk level, 65 were at high-risk, 206 at medium risk and 209 at low-risk level.
- The very-high risk upazilas are Faridpur Sadar, Nagarkanda, Bhanga and Goalanda upazila in Faridpur district, Nalchity in Jhalokathi district, Ramganj in Lakshmipur district, Kalaroa in Satkhira district, Nagarpur in Manikganj district, Puthia in Rajshahi district and Sadar upazilas of Munshiganj, Chuadanga and Gaibandha districts.

**Figure 2: Dengue Epi-curve of selected districts, Week 37, 2023**

(Data source: HEOC & Control Room, MIS-DGHS)

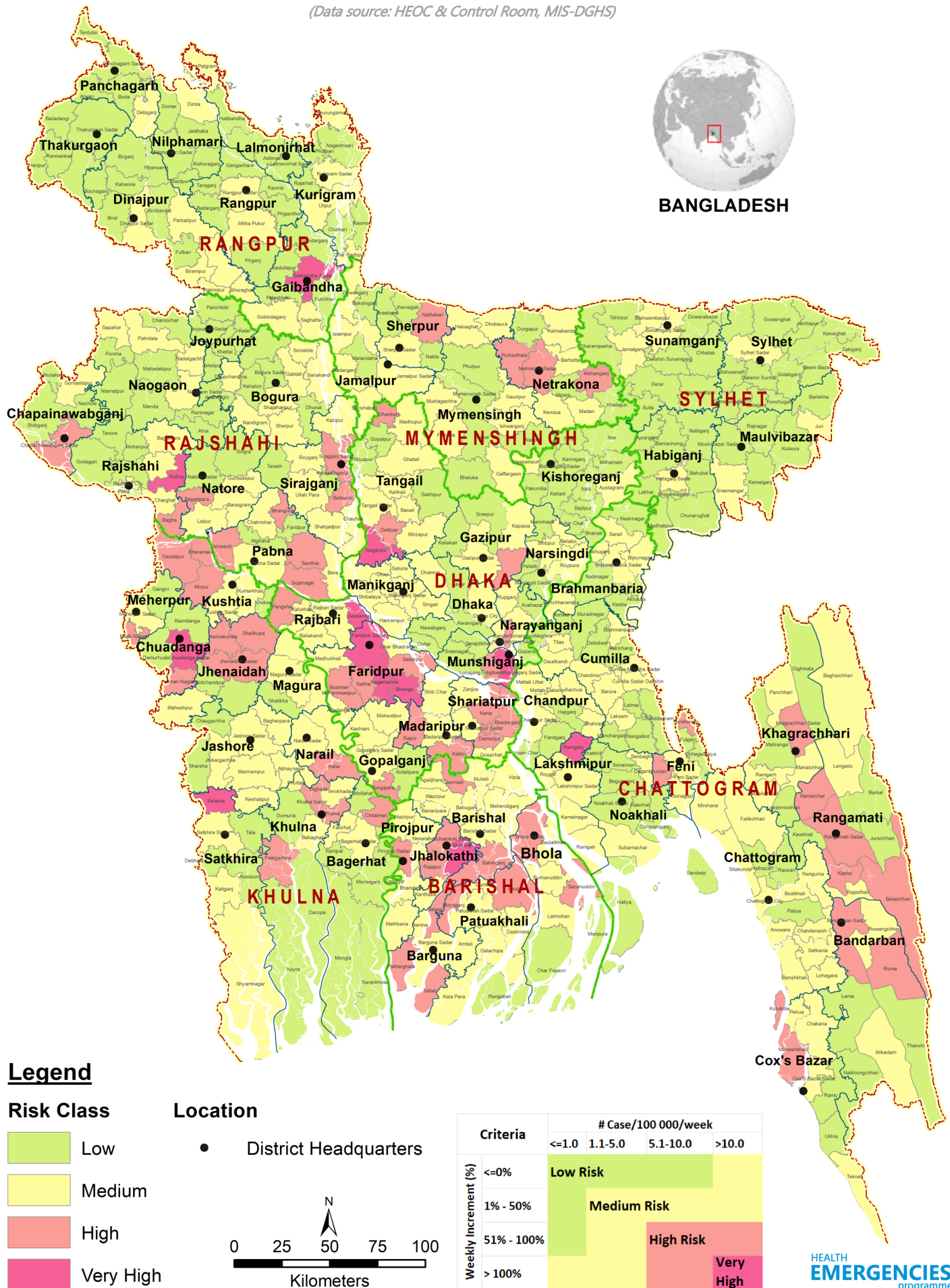


- Among the reported cases (n= 167 684), majority of the cases (66%) were aged between 11 and 40 years. Sixty two (62) percent of the cases are male. Among male cases, 80% is ≤40 years and among female cases, 74% is ≤40 years.
- During week 37, a total of 92 deaths were reported, which has decreased by 4.2% compared to the previous week 36 (n=96). This brings the cumulative number of deaths to 822 as of 17 September 2023. Weekly number of deaths is increasing around the country (49) and exceeded the number of deaths in Dhaka city (43) [Figure 4].
- At the divisional level, the number of deaths has increased in Chattogram and Barishal divisions. In the reporting week (epi-week 37), Dhaka division reported the highest number of deaths (57 this week and 66 in the previous week, a 13.6% decrease), followed by Barishal (19 this week and 11 in the previous week, a 72.7% increase), Chattogram (8 this week and 7 in the previous week, a 14.3% increase), Khulna (5 this week and 8 in the previous week), Rajshahi (1 this week and 3 in the previous week), Mymensingh reported 1 death both in this week and in the previous week, Sylhet reported 1 death this week and no death in the previous week, and Rangpur division reported no deaths in the last two weeks.
- Among the reported deaths (n= 822), majority of the deaths (63%) were aged between 21 and 60 years. Fifty eight (58) percent of the deaths are females. Among the female deaths, 45% are >40 years old, and among male cases, 52% are >40 years old.

Figure 3: Dengue Risk Map by Upazila

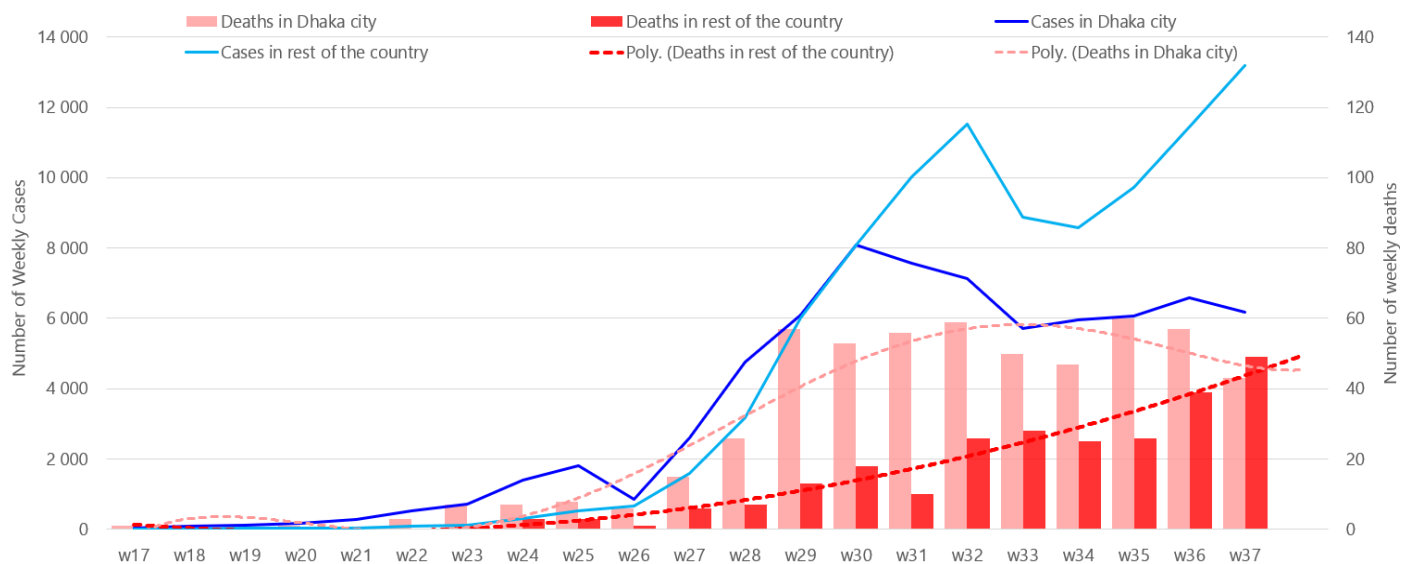
Week 37, 2023 (n=19 356)

(Data source: HEOC & Control Room, MIS-DGHS)



**Figure 4: Weekly dengue deaths, 2023**

(Data source: HEOC & Control Room, MIS-DGHS)



- The overall case fatality rate (CFR) of the year was 0.49% by the end of week 37. CFR is higher in females than in males (0.73% and 0.34% respectively).
- As of 17 September, out of 822 deaths from dengue, initial causes of death were due to dengue shock syndrome (65%), expanded dengue syndrome (23%), dengue haemorrhagic fever (8%), and comorbidities (4%).

## Case Management

- A deployment of two international Clinical Case Management experts is expected in the country to further assess and strengthen dengue case management.

## Vector Control

- Vector Control measures are being continued and intensified by two city corporations in Dhaka.

## Health Operations and Logistics support

- WHO procured 130 000 dengue NS1 test kit, this makes a total of 230 000 NS1 kits provided by WHO.
- Over 55 000 units of Ringer's lactate solution is also ready for shipment.

## Risk Communication & Community Engagement

- The RCCE platform has continued to develop and disseminate relevant messages incorporating emerging evidence in the outbreak. A meeting of the platform is scheduled for 21 September 2023 to update on activities and strategies.