

Dengue Situation Report, Issue # 5, 25 SEP 2023

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

Epi-week 38: 18 - 24 Sep 2023



Weekly Case

20 041



Weekly Recovered

19 921



Weekly Death

87



Presently Hospitalised

10 470



Cumulative Case

187 725



Cumulative Death

909

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

Highlights

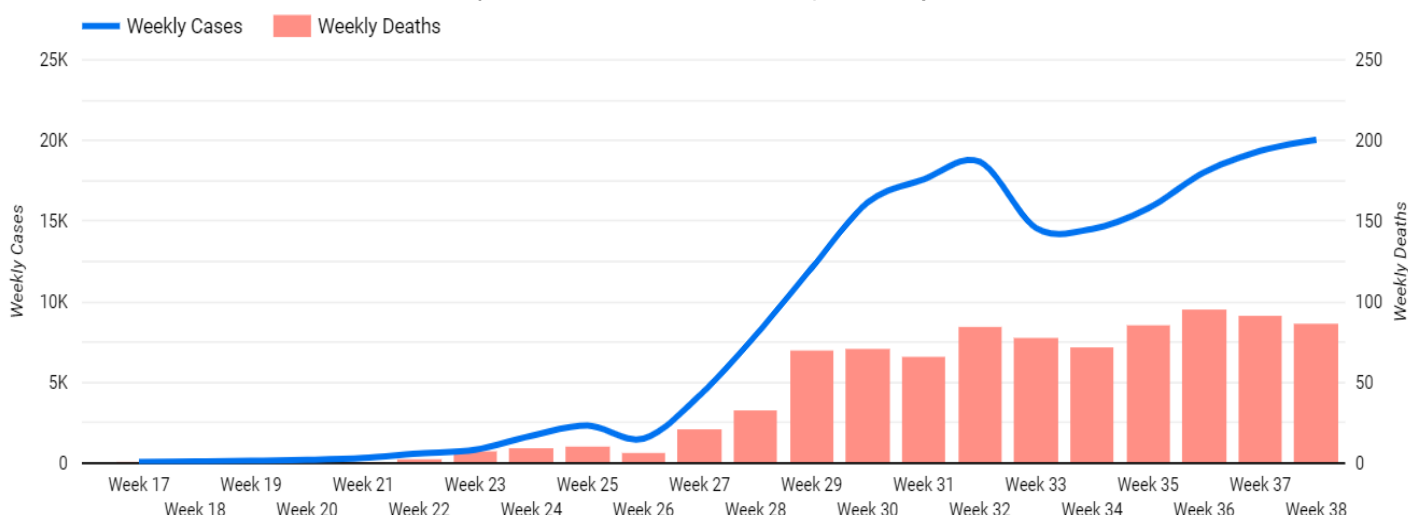
- This reporting week, 20 041 cases including 87 deaths have been reported compared to 19 356 cases including 92 deaths in the previous week.
- A higher proportion of female deaths (57% females to 43% males) have been observed since the beginning of the outbreak. However, the gap is closing in recent weeks. In the reporting week, there were 52% male deaths compared to 48% female deaths.
- A total of 445 samples have been serotyped in this outbreak. The majority are DENV-2 (65.6%), then DENV-3 (27.4%), DENV-1 (2.5%), DENV-4 (0.2%) and the rest 4.3% are co-infection of DENV2 and DENV-3.
- A Health Cluster Meeting was held on 20 September 2023 to review and share experiences in the current response and re-strategize as needed. Over 20 partners participated and committed to continue to support the government.

Surveillance & Laboratory

- As of 24 September 2023, a total of 187 725 cases (dengue NS1 or IgM test-positive persons hospitalized in the reporting health facilities), including 909 deaths, had been reported in the country, according to the [DGHS Dengue press release](#).
- During the epidemiological week 38 (18-24 September), 20 041 new cases were reported, which has increased by 3.5% compared to the previous week 37 (n=19 356) [Figure 1]. The highest ever daily number of hospitalized dengue cases (10 572) was reported during the week on 23 September 2023.
- At the divisional level, weekly cases increased in Barishal, Chattogram, Khulna and Rajshahi divisions. Dhaka division reported the highest number of cases (9 840 this week and 10 037 in the previous week, a 2.0% decrease), followed by Chattogram (3 140 this week and 2 853 in the previous week, a 10.1% increase), Barishal (2 709 this week and 2 663 in

Figure 1: Weekly Dengue Cases and Deaths, Bangladesh, 2023

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



the previous week, a 1.7% increase), Khulna (2 232 this week and 1 833 in the previous week, a 21.8% increase), Rajshahi (1 273 this week and 1 017 in the previous week, a 25.2% increase), Mymensingh (463 this week and 554 in the previous week, a 16.4% decrease), Rangpur (326 this week and 338 in the previous week, a 3.6% decrease), and Sylhet (58 this week and 61 in the previous week, a 4.9% decrease) [Figure 2].

Figure 2: Dengue Weekly Indicators by Division, Week 38, 2023

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

Div. / Distr.	New Cases ①	Change	Cumulative Cases ②	% of Total Cases	New Death	Change	Cumulative Death	New Recovery	Change	Cumulative Recovery	Active Cases
Dhaka	9,840	-2.0%	107,836	57%	58	1.8%	667	9,979	1.2%	101,245	5,924
Chattogram	3,140	10.1%	27,043	14%	6	-25.0%	80	3,064	11.4%	25,723	1,240
Barishal	2,709	1.7%	22,328	12%	16	-15.8%	91	2,617	3.8%	20,936	1,301
Khulna	2,232	21.8%	12,741	7%	3	-40.0%	39	2,071	19.8%	11,647	1,055
Rajshahi	1,273	25.2%	7,634	4%	2	100.0%	15	1,215	31.1%	7,053	566
Mymensingh	463	-16.4%	5,322	3%	1	0.0%	11	553	6.6%	5,089	222
Rangpur	326	-3.6%	3,675	2%	1	null	5	361	8.7%	3,538	132
Sylhet	58	-4.9%	1,146	1%	0	-100.0%	1	61	0.0%	1,115	30

- In the reporting week, all 64 districts have reported cases ranging from 4 (in Sunamganj) to 5 924 (in Dhaka). Number of cases has increased rapidly outside of Dhaka during the last week, especially in Gopalganj, Bagerhat, Noakhali and Bogura districts [Figure 3].
- Higher case density (>20 per 100 000 population per week) was reported in Dhaka, Manikganj, Barishal, Patuakhali, Lakshmipur, Pirojpur, Madaripur, Magura, Barguna, Rajbari, Gopalganj, and Narail districts. While 13 districts were in the group of 11-20, 13 districts were in the group of 6-10, and 26 districts were in the group of ≤5 cases per 100 000 per week.

Figure 3: Distribution of Dengue Cases

Week 38, 2023, n= 20 041

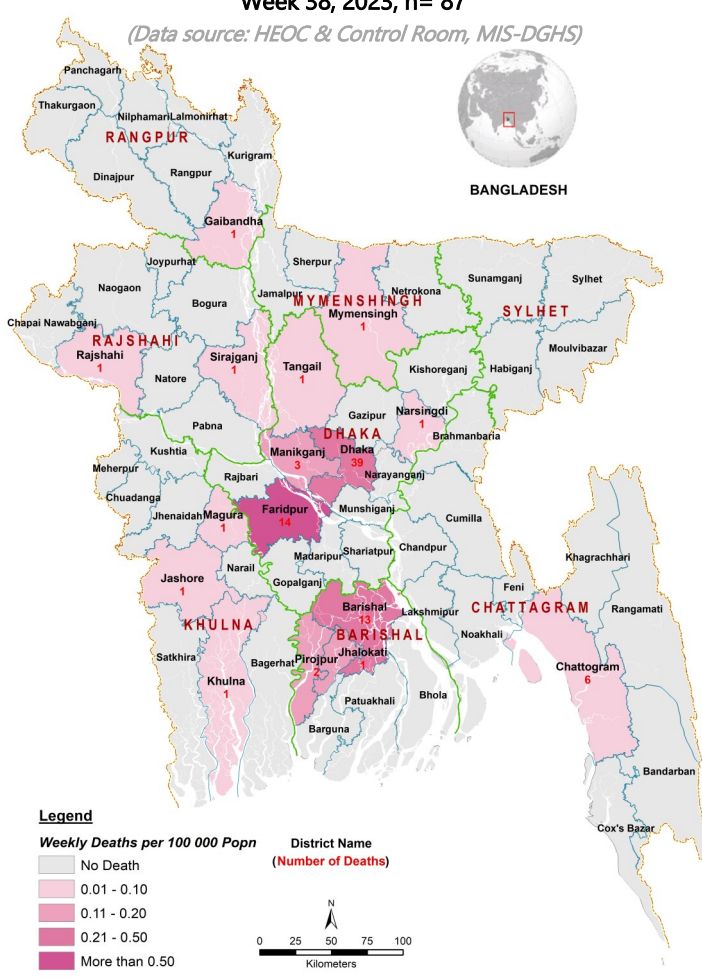
(Data source: HEOC & Control Room, MIS-DGHS)



Figure 4: Distribution of Dengue Deaths

Week 38, 2023, n= 87

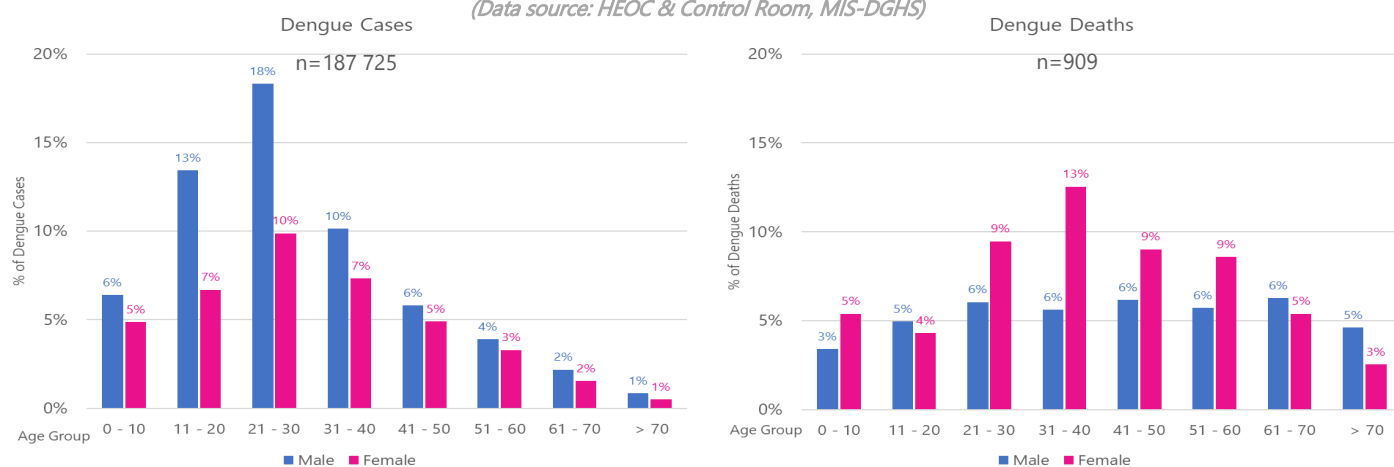
(Data source: HEOC & Control Room, MIS-DGHS)



- During week 38, a total of 87 deaths were reported, which decreased by 5.4% compared to the previous week 37 (n=92). Weekly deaths were 39 this week and 43 in the previous week in Dhaka city but remained almost same in rest of the country (48 this week and 49 in the previous week).
- At the divisional level, the number of deaths has increased in Dhaka and Rajshahi divisions. In the reporting week (epi-week 38), Dhaka division reported the highest number of deaths (58 this week and 57 in the previous week, a 1.8% increase), followed by Barishal (16 this week and 19 in the previous week, a 15.8% decrease), Chattogram (6 this week and 8 in the previous week, a 25.0% decrease), Khulna (3 this week and 5 in the previous week, a 40.0% decrease), Rajshahi (2 this week and 1 in the previous week), Mymensingh reported 1 death both in this week and in the previous week, Rangpur division reported 1 death this week and no death in the previous week, and Sylhet reported no death this week and 1 death in the previous week.
- Outside Dhaka city, Faridpur and Barishal districts reported highest weekly deaths, 14 and 13, respectively [Figure 4].
- Dengue Cases Male vs Female ratio 61% vs 39%. The highest number of cases was observed among the age group of 16-35 yrs. (50%). While 11% cases (21 131) were reported from 0-10 yrs. age group [Figure 5].
- Dengue Deaths Male vs Female ratio 43% vs 57%. The highest number of deaths was observed among the age group of 31-60 yrs. (48%). While 8.8% deaths (80) were reported from 0-10 yrs. age group [Figure 5].

Figure 5: Age-Sex distribution of Dengue Cases and Deaths, Bangladesh, 2023

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



- The CFR show a gender disparity with 0.71% and 0.34% among females and males, respectively.
- Around 82% of death cases (n=909) are dying within 1 to 3 days in the hospital of death. The main cause is Dengue Shock Syndrome (67%).
- IEDCR reported serotyping of 96 additional samples that were collected during August 2023. With this the total number of known serotyped samples is 445, from IEDCR (245) and NILMRC (200) and the overall proportion of circulating dengue found to be DENV-1 (2.5%), DENV-2 (65.6%), DENV-3 (27.4%), DENV-4 (0.2%), and coinfection with DENV2+DENV3 (4.3%).

Coordination

- A dengue response plan has been developed by WHO and partners and submitted to the government for its consideration. This is hoped to bring together all partners to support the government in a coordinated manner for immediate disease control.
- A virtual Health Cluster Meeting was on 20 September 2023 to review and share experiences in the current response and re-strategize as needed. Over 20 partners participated and committed to continue to support the government and regularly share updates with the secretariat.

Case Management

- Two clinical experts (one specialist in medicine and another in paediatrics) will arrive Bangladesh in the first week of October to support the ongoing government initiative on dengue case management. They will facilitate experience-sharing workshops and discussion sessions with national-level experts and with professional societies for the management of dengue in health facilities and in the community. During their two-week stay, they will facilitate several workshops with physicians and nursing staff at priority locations outside Dhaka at the subnational level where case

fatalities are significant.

- With the support of BDRCS, Directorate General of Health Services (CDC, DGHS) conducted nine additional batches of case management orientations in Dhaka during this month which make a total of 21 orientations for the health professionals (19 in Dhaka, 1 in Barisal and 1 in Chattogram city) on the "updated Dengue treatment guideline". So far, 668 doctors (45 Professors, 41 Associate Professors, 67 Assistant Professors, 345 Medical Officers, 123 Consultants, 47 Registrars) and 9 nurses from paediatric and medicine department received the orientation.

Environmental & Vector Surveillance and Control

- An entomologist is expected to arrive the country in the next two weeks to further support vector control work and help institute monitoring and evaluation system for the vector control activities.

Health Operations and Logistics support

- UNICEF provided 2 421 dengue combo test kits for 24 210 tests to the Communicable Disease Control - Directorate General of Health Services (CDC-DGHS) this week. So far, a total of 37 635 test kits have been provided by UNICEF in batches.

Risk Communication & Community Engagement

- The second Risk Communication and Community Engagement (RCCE) platform meeting on dengue was held on 21 September 2023 at IEDCR, Dhaka. In the meeting, partners planned to organize a workshop to develop standardized messages for long term campaign of dengue outbreak response.
- A meeting of the message development sub-committee of the RCCE platform was held on 20 September 2023. This was attended by all sub-committee members (CDC-DGHS, Department of Mass Communication, IEDCR, IFRC, BDRCS, BRAC, UNICEF, and WHO). At the meeting, participants identified the need to review existing messages and strategies and develop new messages on dengue. The new messages will address issues such as self-negligence, especially among vulnerable groups such as women, to promote awareness and compliance among medicine retailers on not selling non-steroidal anti-inflammatory drugs (NSAIDs) and antibiotics without prescription.
- Google is discussing with the government and partners in Bangladesh on how to use the google platform to communicate and enhance easy accessibility of relevant dengue information to the public in the country.

Situation update of FDMN Camp

- During week 38, 332 new cases (NS1 or IgM positive) and no deaths were reported in the FDMN camps which made the cumulative number of 11 927 cases and 14 deaths (CFR: 0.1%). The CFR is 1.1% according to the case definition of national case reporting (i.e., dengue NS1 or IgM test-positive persons hospitalized in the reporting health facilities).
- The case number is declining over the weeks, a 27% drop compared with the previous week (from 455 to 332).
- All the 33 FDMN camps have reported cases, however the hotspots are Camp 3 and four of the surrounding camps in Ukhia [Figure 6].

Figure 6: Distribution of Dengue Cases, FDMN Camps, 2023

(Data source: EWARS, WHO Sub Office, Cox's Bazar)

