

Dengue Situation Report, Issue # 8, 16 OCT 2023

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

Epi-week 41: 09-15 Oct 2023



Weekly Case

16 050



Weekly Recovered

16 593



Weekly Death

83



Presently Hospitalised

8 174



Cumulative Case

239 614



Cumulative Death

1 169

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

Highlights

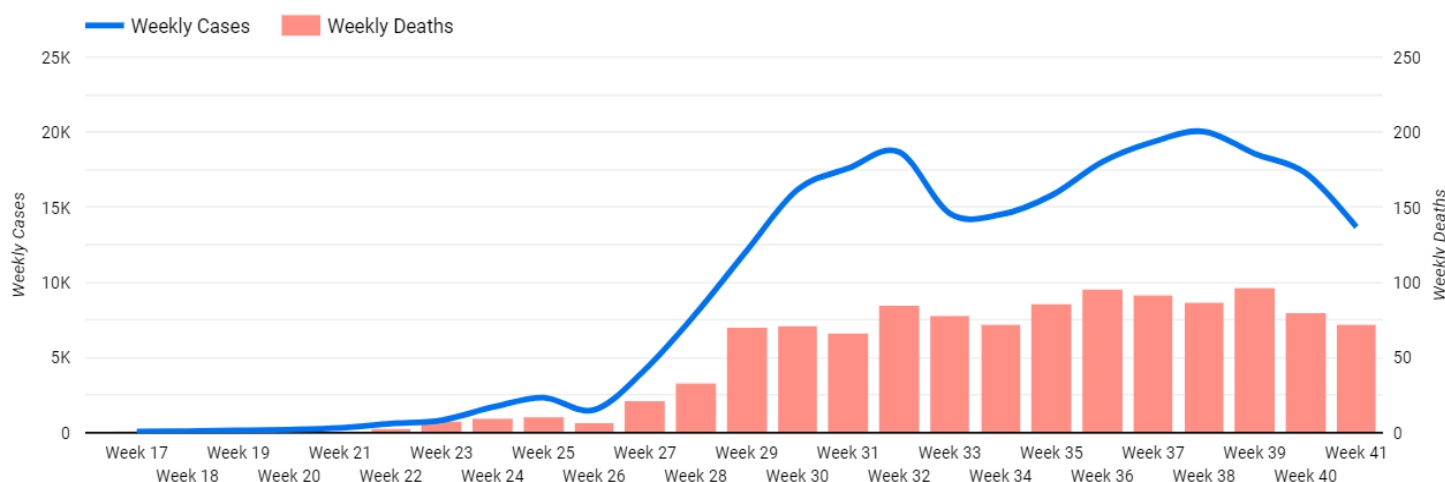
- The weekly number of cases continued to drop for the third week. The number of new cases in the reporting week is 16 050, a 7.1% decrease compared to 17 276 cases reported in the week before. However, the weekly number of deaths is 83 compared to 80 last week.
- Over the reporting week, number of cases decreased in all the divisions except Rajshahi. However, at the district level, Khulna, Pirojpur, Rajshahi, Gazipur, Kushtia, Rajbari, and Madaripur are showing an increasing trend of dengue cases, and each reported at least 250 cases this week.
- Among the 80 deaths this week, Dhaka Medical College reported 15 deaths, 13 reported from Faridpur Medical College, 6 each from Kurmitola General Hospital, Dhaka and Sher-e-Bangla Medical College Hospital, Barishal and 5 from DNCC Dedicated Hospital, Dhaka.
- As the number of dengue cases show a slight steady decline in the last 3 weeks, the number of reported deaths is still concerning and require continued focus on the dengue case management.

Surveillance & Laboratory

- As of 15 October 2023, a total of 239 614 cases (dengue NS1 or IgM test-positive persons hospitalized in the reporting health facilities), including 1 169 deaths, have been reported in the country, according to the DGHS (Directorate General of Health Services) [Dengue press release](#).
- In epidemiological week 41 (9 – 15 October 2023), 16 050 new cases were reported, including 83 deaths. The number of new cases dropped by 7.1% from the number (17 276) of the previous week. During the reporting period, 16 593 hospitalised persons were released from the hospital after treatment.
- The weekly number of cases continued to drop for the third week, though the drop is not drastic. The number of weekly cases in the last four weeks (weeks 38 – 40) are 20 041, 18 563, 17 276 and 16 050 respectively. Number of

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

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



deaths is fluctuating between 80 and 90 per week, number of deaths in the last four weeks are 87, 97, 80, 83 respectively [Figure 1].

- As of 15 October 2023, cumulatively, the highest number of cases has been reported in Dhaka division (n=132 336), followed by Chattogram division (n=34 631) and Barishal division (n=29 148). The highest number of deaths was reported in Dhaka division (n=847, CFR=0.64%) followed by Barishal division (n=124, CFR=0.43%) and Chattogram division (n=92, CFR= 0.27%) [Table 1].

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

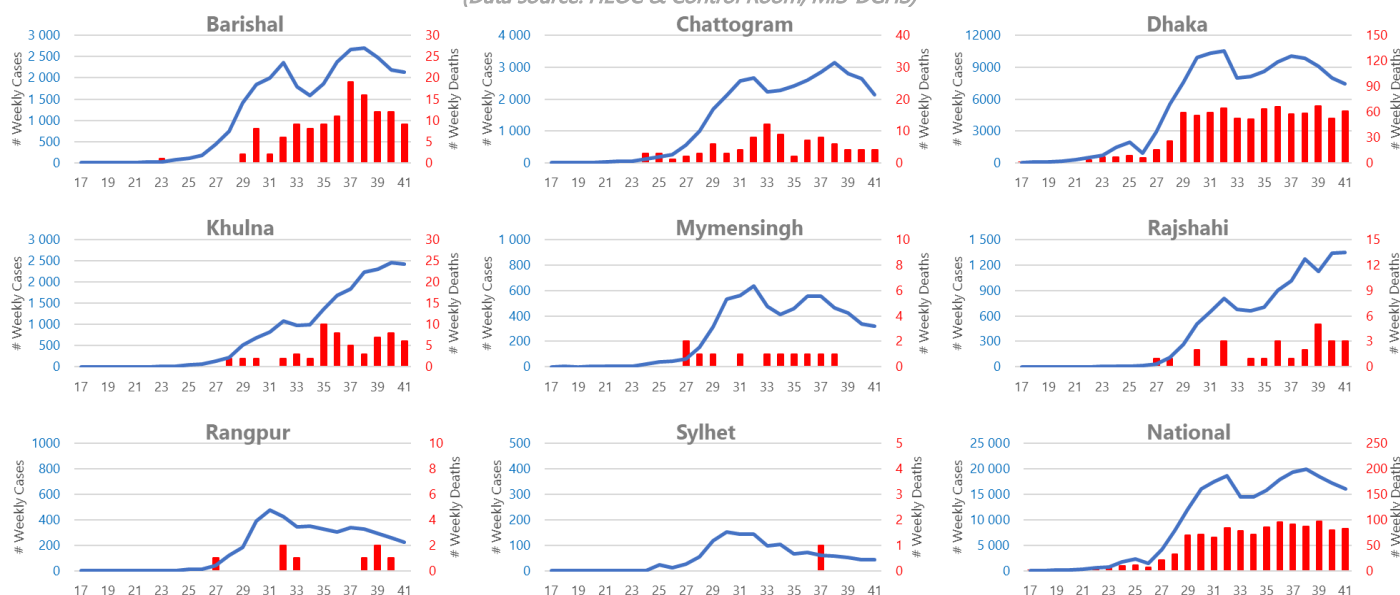
(Data source: HEOC & Control Room, MIS-DGHS)

Division	Cumulative Cases	Weekly Cases	Weekly Cases /100K	Cumulative Deaths	Weekly Deaths	Weekly Deaths/100K	Cumulative CFR
Barishal	29 148	2 144	23.0	124	9	0.10	0.43%
Chattogram	34 631	2 140	6.3	92	4	0.01	0.27%
Dhaka	132 336	7 416	16.2	847	61	0.13	0.64%
Khulna	19 913	2 414	13.6	60	6	0.03	0.30%
Mymensingh	6 398	319	2.5	11	0	0.00	0.17%
Rajshahi	11 447	1 345	6.5	26	3	0.01	0.23%
Rangpur	4 454	228	1.3	8	0	0.00	0.18%
Sylhet	1 287	44	0.4	1	0	0.00	0.08%
National	239 614	16 050	9.5	1 169	83	0.05	0.49%

- All the divisions reported fewer cases compared to the previous week, except Rajshahi. Dhaka division reported the highest number of cases (7 416 this week and 7 998 in the previous week, 7.3% lower), followed by Khulna (2 414 this week and 2 459 in the previous week, 1.8% lower), Barishal (2 144 this week and 2 196 in the previous week, 2.4% lower), Chattogram (2 140 this week and 2 645 in the previous week, 19.1% lower), Rajshahi (1 345 this week and 1 340 in the previous week, 0.4% higher), Mymensingh (319 this week and 366 in the previous week, 5.1% lower), Rangpur (228 this week and 258 in the previous week, 11.6% lower), and Sylhet (44 in both this week and the previous week) [Figure 2].

Figure 2: Weekly Dengue Cases and Deaths by Division, 2023

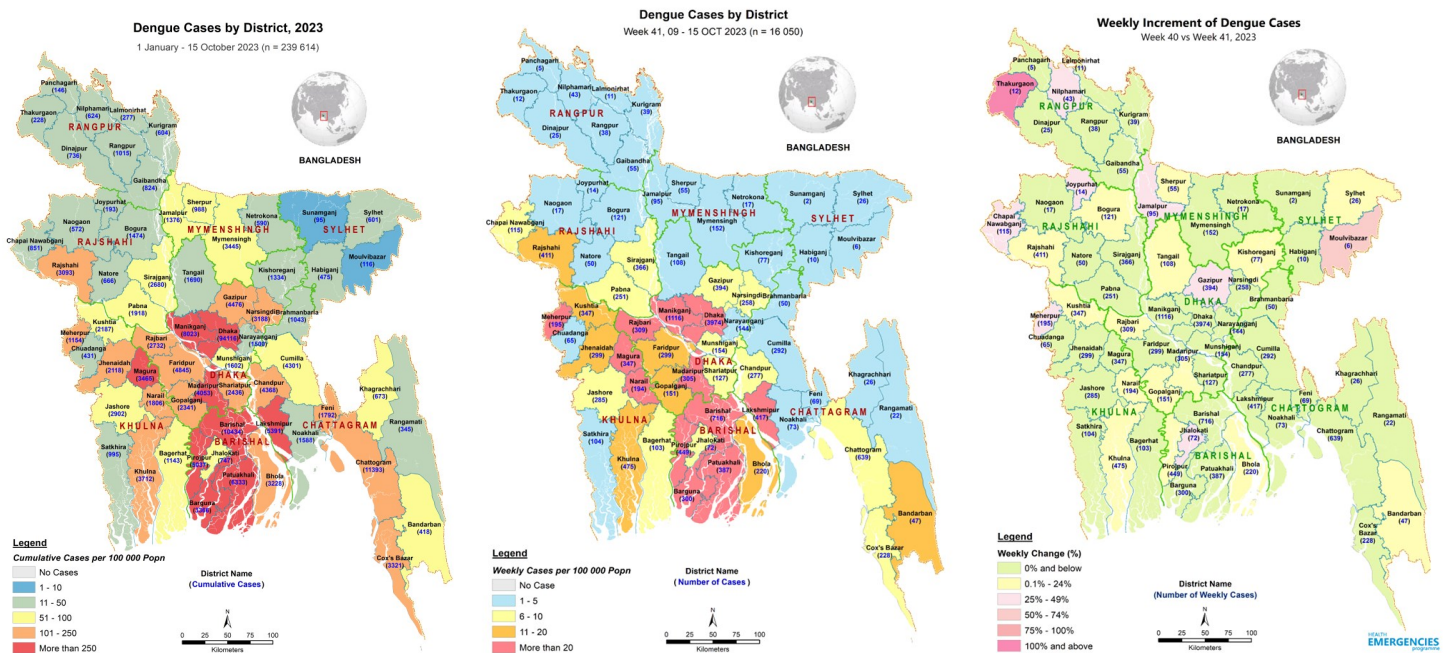
(Data source: HEOC & Control Room, MIS-DGHS)



- In the reporting week, all 64 districts have reported cases ranging from 2 (in Sunamganj) to 3 974 (in Dhaka) [Figure 3]. Most districts showed a decreasing trend. However, 24 districts, especially Khulna, Pirojpur, Rajshahi, Gazipur, Kushtia, Rajbari, and Madaripur showed an upward trend.
- A higher case density (>20 per 100 000 population per week) was reported in Manikganj, Pirojpur, Magura, Barguna, Dhaka, Barishal, Meherpur, Rajbari, Narail, Madaripur, Patuakhali, and Lakshmipur districts [Figure 3]. Among rest of the districts, 8 were in the group of 11-20, 13 were in the group of 6-10, and 31 were in the group of ≤5 cases per 100 000 population per week [Figure 3].

Figure 3: Dengue Cases by District, 2023

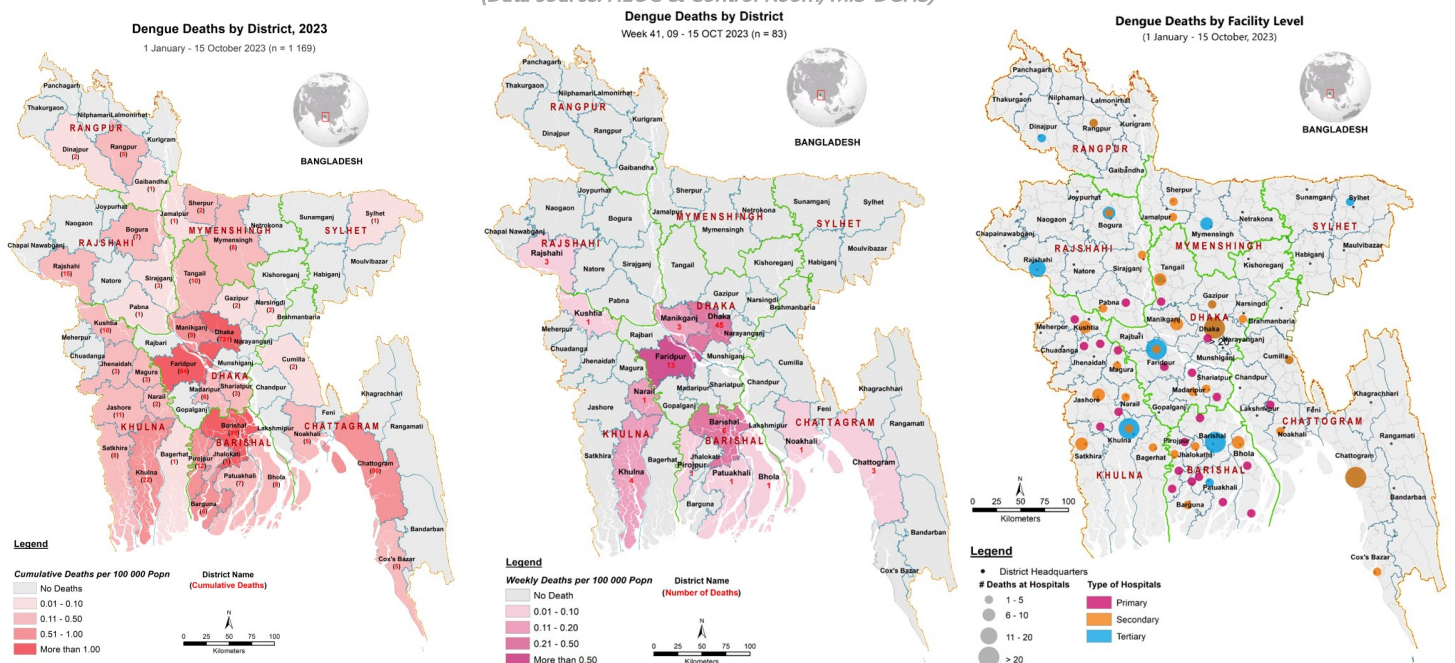
(Data source: HEOC & Control Room, MIS-DGHS)



- During week 41, a total of 83 deaths were reported, compared to 80 deaths in the previous week. Weekly deaths were 45 this week and 37 in the previous week in Dhaka city. In rest of the country, weekly deaths were 38 this week and 43 in the previous week.
- At the divisional level, the number of deaths has increased only in the Dhaka division in the reporting week (epi-week 41), the number of deaths either decreased or remained unchanged in other divisions. Dhaka division reported the highest number of deaths (61 this week and 52 in the previous week, 17% higher), followed by Barishal (9 this week and 12 in the previous week, 25% lower), Khulna (6 this week and 8 in the previous week, 25% lower), Chattogram (4 in both this week the previous week), Rajshahi (3 in both this week and the previous week), Rangpur (0 this week and 1 in the previous week), Mymensingh and Sylhet reported 0 deaths this week and the previous week [Figure 4].

Figure 3: Dengue Deaths by District, 2023

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



- During the reporting week, the highest number of deaths were reported from Dhaka Medical College Hospital (15), followed by Faridpur Medical College Hospital (13), Sher-e-Bangla Medical College Hospital and Kurmitola General Hospital (6 each), DNCC (Dhaka North City Corporation) Dedicated Hospital (5), Sir Salimullah medical College Hospital, Mugda Medical College, Khulna Medical College Hospital and Enam Medical College and Hospital (4 each), and the

remaining 22 from different public and private hospitals in the country [Table 2].

Table 2: Weekly dengue deaths, 2023
(Data source: HEOC & Control Room, MIS-DGHS)

Hospitals in Dhaka City	Cumulative (01 JAN – 15 OCT 2023)			Week 41		Hospitals in Rest of the Country	Cumulative (01 JAN – 15 OCT 2023)			Week 41	
	Cases	Deaths	CFR	Cases	Deaths		Cases	Deaths	CFR	Cases	Deaths
Dhaka MCH	7 061	183	2.59%	328	15	Sher e Bangla MCH	6 249	87	1.39%	374	6
Mugda MCH	11 838	133	1.12%	308	4	Faridpur MCH	2 625	78	2.97%	196	13
Sir Salimullah MCH	7 321	55	0.75%	302	4	Chattogram MCH	3 301	51	1.54%	186	3
Kurmitola Gen. Hosp.	6 023	46	0.76%	359	6	Khulna MCH	2 371	20	0.84%	273	4
DNCC Dedic. Hosp.	7 089	44	0.62%	392	5	Rajshahi MCH	2 692	15	0.56%	390	3
Enam MC & Hosp.	1 006	32	3.18%	153	4	Mymensingh MCH	2 852	8	0.28%	120	0
Shishu Hosp. & Inst.	1 706	20	1.17%	69	0	Manikganj MCH	3 099	8	0.26%	404	3
Asgar Ali Hospital	1 662	16	0.96%	27	0	Satkhira MCH	482	7	1.45%	50	0
Square Hospitals Ltd.	942	16	1.70%	29	1	Shahid ZR MCH	678	5	0.74%	61	0
Green Life Hosp. Ltd.	1 137	16	1.41%	28	0	Patuakhali MCH	3 107	5	0.16%	206	1

- No new serotyping was reported during the week and the number of known serotyped samples remained at 511 (311 samples by the Institute of Epidemiology, Disease Control and Research and 200 by the National Institute of Laboratory Medicine and Referral Centre). The overall proportion of circulating dengue types are DENV-1 (2.2%), DENV-2 (68.1%), DENV-3 (25.4%), DENV-4 (0.2%), and coinfection with DENV2+DENV3 (4.1%).

Case Management

- Last week a team of WHO case management experts conducted case management workshops in Barishal division. The workshops were attended by 150 doctors and 120 nurses from division, district and upazila levels. The participating Physicians responded through an online survey that 82% of the patients got admitted during the febrile phase, 50% reported fever earlier but were afebrile at the time of admission, 61% presented with bleeding, 50% with evidence of leaking and 39% bleeding at the time of admission.
- Delay in FBC (full blood count) report, inability to recognize critical phase and poor monitoring and documentation of fluid intake and output are the key reasons behind delay in identifying leaking and shock patients.
- The experts engaged in knowledge sharing sessions with the society of Medicine, Gynae & Obstetrics and Paediatrics at the DGHS, Dhaka. Experts, consultants & clinicians of the societies were urged to create a platform, where they can discuss the challenges and issues on dengue case management that they face in their practice and give priority to development of guideline for doctors for primary health care.

Situation update of FDMN Camp

- During week 41, 155 new cases (NS1 or IgM positive) and no deaths were reported in the FDMN camps which made the cumulative number of 12 634 cases and 16 deaths (CFR (Case Fatality Rate): 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 38% drop compared with the previous week (from 246 to 155).
- All the 33 FDMN camps have reported cases. However, the hotspots are Camp 3 and 4 of the surrounding camps in Ukhia upazila.