

## Dengue Situation Report, Issue # 10, 30 OCT 2023

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

Epi-week 43: 23-29 Oct 2023



**Weekly Case**

12 634



**Weekly Recovered**

13 430



**Weekly Death**

78



**Presently Hospitalised**

6 803



**Cumulative Case**

267 680



**Cumulative Death**

1 333

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

## Highlights

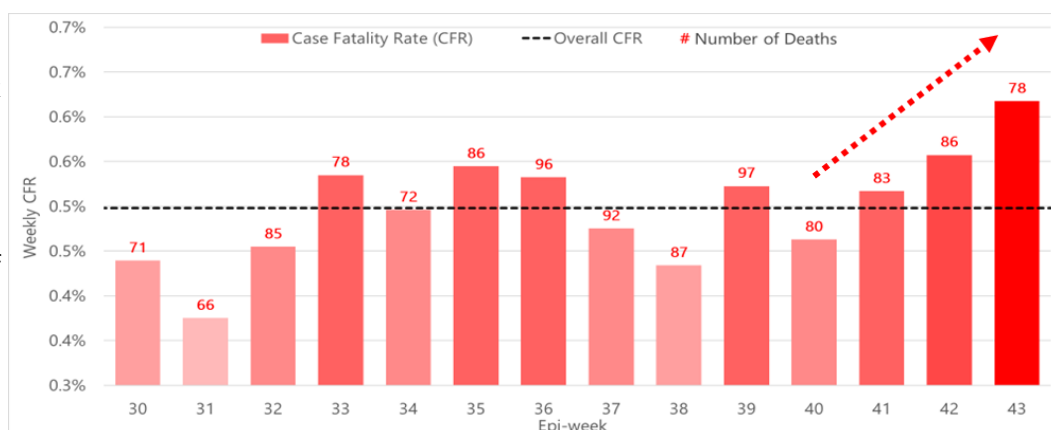
- The weekly number of reported cases continued to drop for the fifth consecutive week. A total of 12 634 cases were reported this week compared to 15 432 for the previous week, a decrease of 18%. The weekly number of reported deaths was 78 this week compared to 86 in the previous week.
- During the reporting week, the number of reported cases decreased in all the divisions except Sylhet. However, at the district level, Faridpur, Khulna, Rajshahi, and Rajbari districts showed an increasing trend of dengue cases and each reported at least 100 cases this week.
- Hospitals that reported deaths include Dhaka Medical College Hospital (13), followed by Faridpur Medical College Hospital (9), Khulna Medical College Hospital and Sher-e-Bangla Medical College Hospital, Barishal (7 each), and Rajshahi Medical College Hospital (5).
- Cumulatively 267 680 cases including 1 333 deaths have been reported since January 2023. The highest number of cases (79 598) and deaths (398) reported in a single month was in September 2023.
- An orientation session was provided by WHO for entomologists in Dhaka area on Thursday 26 October. The session provided an opportunity for international vector experts and national entomologists to share experiences and chart way forward.

## Surveillance & Laboratory

- As of 29 October 2023, a total of 267 680 cases (dengue NS1 or IgM test-positive persons hospitalized in the reporting health facilities), including 1 333 deaths, have been reported in the country, according to the DGHS (Directorate General of Health Services) Dengue press release.
- In epidemiological week 43 (23–29 October 2023), 12 634 new cases were reported, including 78 deaths. The number of new cases dropped by 18% from 15 432 in the previous week. During the reporting period, 13 430 hospitalized persons were released from the hospital after treatment. However, the number of deaths continues without any consistent pattern of decline.
- Overall CFR (Case Fatality Rate) is 0.5% (1 333/267 680), however CFR in the reporting week is 0.62%, a 0.06% increase from the week before. This increase is contributed by the decreased number of cases but no proportionate decrease in the number of deaths [Figure 1].
- As of 29 October 2023, cumulatively, the highest number of cases has been

**Figure 1: Dengue Case Fatality Rate by Week, Bangladesh, 2023**

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



reported in Dhaka division (n=145 465), followed by Chattogram division (n=38 035), Barishal division (n=32 329) and Khulna (n=24 564). The highest number of deaths was reported in Dhaka division (n=947, CFR=0.65%) followed by Barishal (n=145, CFR=0.45%), Chattogram division (n=97, CFR=0.26%) and Khulna (n=86, CFR=0.35%) [Table 1].

**Table 1: Dengue Cases and Deaths, Bangladesh, Indicators as of Week 43, 2023**

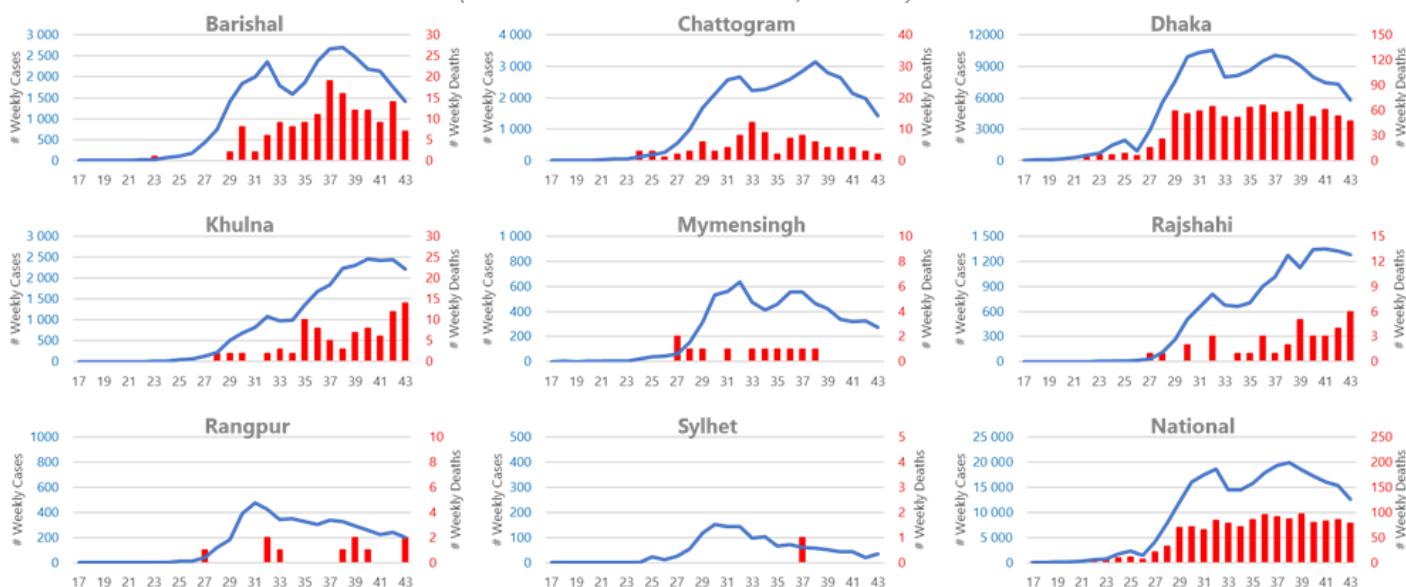
(Data source: HEOC & Control Room, MIS-DGHS)

Division	Cumulative Cases	Weekly Cases	Weekly Cases /100K	Cumulative Deaths	Weekly Deaths	Weekly Deaths/100K	Cumulative CFR
Barishal	32 329	1 417	15.2	145	7	0.08	0.45%
Chattogram	38 035	1 424	4.2	97	2	0.01	0.26%
Dhaka	145 465	5 794	12.7	947	47	0.10	0.65%
Khulna	24 564	2 210	12.4	86	14	0.08	0.35%
Mymensingh	6 997	275	2.2	11	0	0.00	0.16%
Rajshahi	14 050	1 278	6.1	36	6	0.03	0.26%
Rangpur	4 897	202	1.1	10	2	0.01	0.20%
Sylhet	1 343	34	0.3	1	0	0.00	0.07%
<b>National</b>	<b>267 680</b>	<b>12 634</b>	<b>7.4</b>	<b>1 333</b>	<b>78</b>	<b>0.05</b>	<b>0.50%</b>

- All the divisions reported fewer cases compared to the previous week, except Sylhet [Figure 2]. Dhaka division reported the highest number of cases (5 794 this week and 7 335 in the previous week, 21.0% lower), followed by Khulna (2 210 this week and 2 441 in the previous week, 9.5% lower), Chattogram (1 424 this week and 1 978 in the previous week, 28.0% lower), Barishal (1 417 this week and 1 767 in the previous week, 19.8% lower), Rajshahi (1 278 this week and 1 325 in the previous week, 3.5% lower), Mymensingh (275 this week and 323 in the previous week, 14.9% lower), Rangpur (202 this week and 241 in the previous week, 16.2% lower), and Sylhet (34 this week and 22 in the previous week, 54.5% higher).
- In the reporting week, 63 districts reported cases ranging from 1 (in Habiganj) to 2 953 (in Dhaka), Panchagarh reported zero cases at this time. Most districts showed a decreasing trend. However, 16 districts, especially Faridpur, Feni, Rajshahi, Shariatpur, Chuadanga, Khulna, and Rajbari showed an upward trend.

**Figure 2: Weekly epi-curve of Dengue Cases and Deaths, 2023**

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

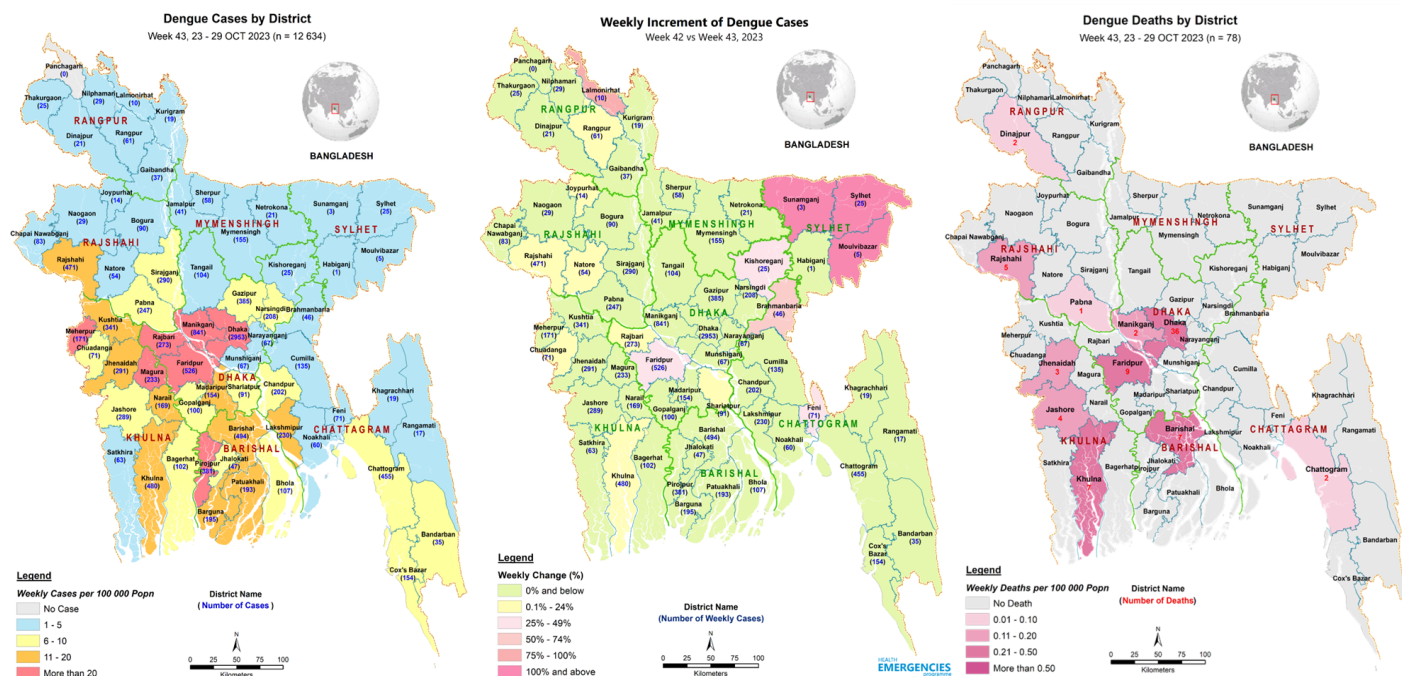


- A higher case density (>20 per 100 000 population per week) was reported in Manikganj, Pirojpur, Faridpur, Meherpur, Rajbari, Magura, and Dhaka districts. Among the rest, 10 districts were in the group of 11-20, 15 were in the group of 6-10, and 32 were in the group of ≤5 cases per 100 000 population per week.
- During week 43, a total of 78 deaths were reported, which was 9.3% lower than the previous week 42 (n=86). Weekly deaths were 36 this week and 39 in the previous week in Dhaka city. In the rest of the country, weekly deaths were 42 this week and 47 in the previous week.
- At the divisional level, the number of deaths has increased in the Khulna, Rajshahi and Rangpur divisions in the

reporting week (epi-week 43), the number of deaths either decreased or remained unchanged in other divisions compared to the previous week. Dhaka division reported the highest number of deaths (47 this week and 53 in the previous week, 11% lower), followed by Khulna (14 this week and 12 in the previous week, 17% higher), Barishal (7 this week and 14 in the previous week, 50% lower), Rajshahi (6 this week and 4 in the previous week), Chattogram (2 this week and 3 in the previous week), Rangpur (2 this week and 0 in the previous week), Mymensingh, and Sylhet reported 0 deaths both in this week and the previous week [Figure 3].

**Figure 3: Distribution of Dengue Case & Death, Week 43, 2023**

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



- During the reporting week, the highest number of deaths were reported from Dhaka Medical College Hospital (13), followed by Faridpur Medical College Hospital (9), Khulna Medical College Hospital and Sher-e-Bangla Medical College Hospital, Barishal (7 each), Rajshahi Medical College Hospital (5), Mugda Medical College Hospital (4), Popular Medical College Hospital, Dhaka and Enam Medical College Hospital, Dhaka (3 each), and the remaining 27 from different public and private hospitals in the country [Table 2].

**Table 2: Weekly dengue deaths by Institution, 2023**

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

Hospitals in Dhaka City	Cumulative (01 JAN – 29 OCT 2023)			Week 43		Hospitals in Rest of the Country	Cumulative (01 JAN – 29 OCT 2023)			Week 43	
	Cases	Deaths	CFR	Cases	Deaths		Cases	Deaths	CFR	Cases	Deaths
Dhaka MCH	7590	206	2.71%	234	13	Sher e Bangla MCH	6849	108	1.58%	286	7
Mugda MCH	12383	142	1.15%	244	4	Faridpur MCH	3121	99	3.17%	272	9
Sir Salimullah MCH	7865	61	0.78%	257	1	Chattogram MCH	3616	54	1.49%	143	1
Kurmitola General Hosp.	6625	49	0.74%	276	1	Khulna MCH	2846	32	1.12%	252	7
DNCC Dedicated Hosp.	7773	48	0.62%	327	2	Rajshahi MCH	3509	23	0.66%	456	5
Enam MC & Hosp.	1208	37	3.06%	72	3	Manikganj MCH	3978	10	0.25%	392	2
Shishu Hospital & Inst.	1811	22	1.21%	38	1	Mymensingh MCH	3112	8	0.26%	130	0
Asgar Ali Hospital	1738	18	1.04%	35	0	Satkhira MCH	564	7	1.24%	32	0
Square Hospitals Ltd.	985	17	1.73%	25	1	Shahid Ziaur Rahman MCH	755	5	0.66%	35	0
Green Life Hospital Ltd.	1184	17	1.44%	17	1	Patuakhali MCH	3392	5	0.15%	114	0

- Overall male vs female ratio of deaths by dengue is 43% vs 57% and in the reporting week, this ratio is 42% vs 58%, respectively. The majority of the deaths are among the age group of 16-55 years (63%) and most cases are reported among the age group of 21-50 years (57%). While 8% of deaths (103) were reported from 0-10 yrs. age group.

- 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 DENV-2+DENV-3 (4.1%).

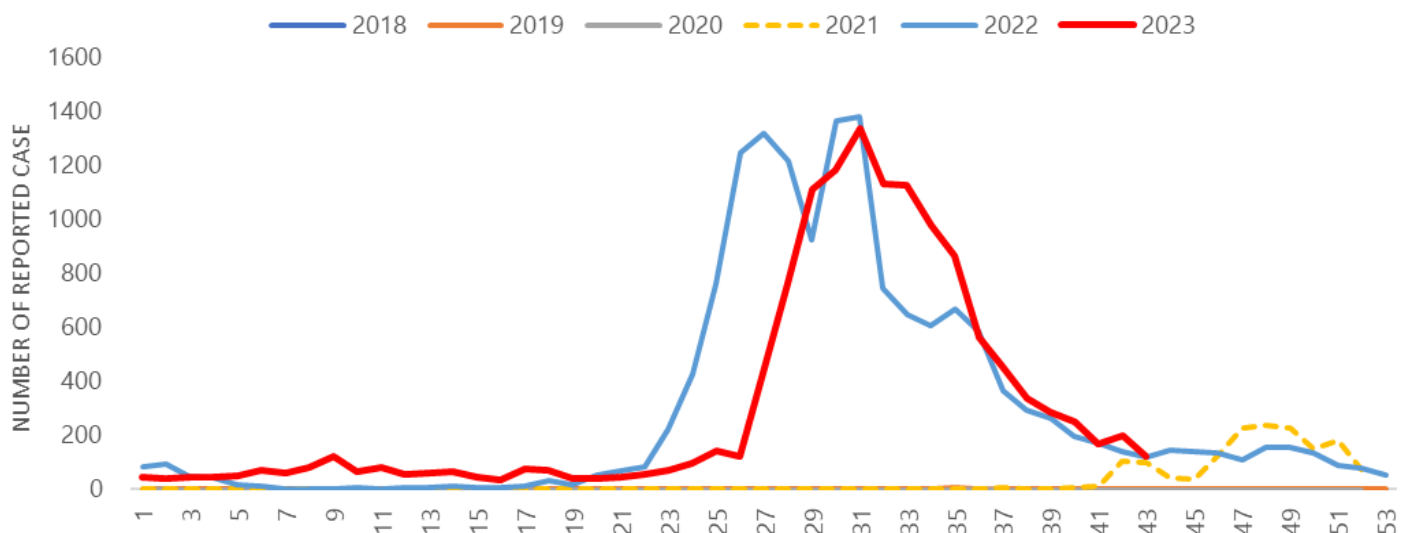
## Environmental & Vector Surveillance and Control

- WCO Bangladesh organized a meeting on 26 October 2023, for Entomologists and Entomological Technicians working in CDC-DGHS; DNCC and entomologists from WHO (SEARO & WCO) to share their knowledge, experiences and views on dengue vector survey, surveillance, and their effective management and control.
- With the support of UNICEF, the Ministry of Local Government, Rural Development and Co-operatives launched a 'Nationwide Dengue Prevention & Clean-up Week 2023' from 29 October to 4 November in 64 districts.
- WHO-South-East Asia Regional Office deployed a short-term (2–27 October, 2023) expert entomologist in Bangladesh to provide technical support in dengue outbreak response, especially vector surveillance and control, including the development of a vector control plan for the country.

## Situation update of FDMN Camp

- The weekly trends of Dengue confirmed cases (NS1 and IgM positive) cases continue to decline since the peaking in Epi week 31.
- Total Cumulative cases are 12 969 including 17 deaths (CFR: 0.1%).
- In this Epi week 43, there are 118 new dengue confirmed cases reported, a sharp decrease of (44%) from 212 (adjusted numbers due to late reporting) reported in the previous week [Figure 4].

Figure 4: Weekly (RDT) Confirmed Dengue Cases Trend, 2018-23



- No new deaths reported during the reporting week, total deaths remain at 17.
- Majority of the cases (47%) so far reported are concentrated in 5 neighbouring camps which have remained the hotspots for dengue transmission since 2021 as follows: Camp 3 (2669), Camp 1W (928), Camp 4 (886), Camp 11 (755), Camp 9 (683).
- Majority of the cases so far have been clinically mild (89%) and therefore successfully managed as outpatient while 11% have been hospitalized in various health facilities across the camps.
- The successful management of the dengue upsurge has been largely contributed by agile Early Warning and Alert Response, sensitive and robust surveillance system and multi-sectoral coordination of preparedness and response actions by local health authorities (Civil Surgeon Office, RRRC) and various sector partners led by the health sector.