

## Dengue Situation Report, Issue # 9, 23 OCT 2023

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

Epi-week 42: 16-22 Oct 2023



**Weekly Case**

15 432



**Weekly Recovered**

15 843



**Weekly Death**

86



**Presently Hospitalised**

7 677



**Cumulative Case**

255 046



**Cumulative Death**

1 255

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

## Highlights

- In epidemiological week 42, 15 432 new cases were reported which is a 3.9% drop compared to 16 050 in the previous week. This is the 3rd consecutive week with decline in the number of reported cases.
- 86 deaths were reported during the week, compared to 83 in the previous week. Number of reported deaths increased in the Khulna and Barishal divisions in the reporting week.
- The number of weekly deaths is fluctuating between 80 and 100 in the last 8 weeks without any consistent pattern of decline unlike the reported number of cases.
- A weeklong nationwide dengue prevention and clean-up campaign was inaugurated on Thursday 19 October 2023. The event was inaugurated and chaired by the Minister of Local government. The weeklong event would run from 29 October – 4 November 2023.

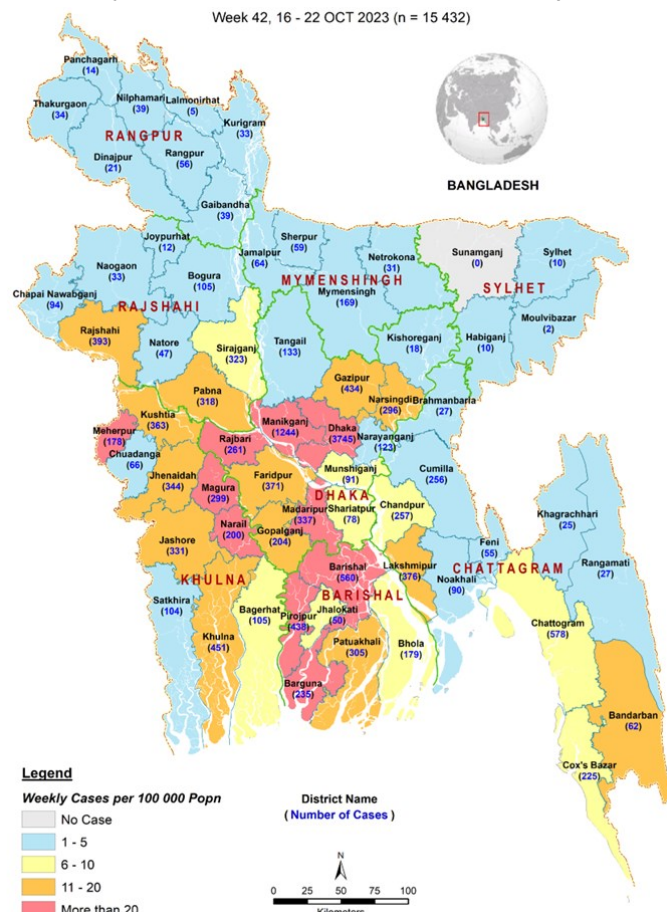
## Surveillance & Laboratory

- As of 22 October 2023, a total of 255 046 cases (dengue NS1 or IgM test-positive persons hospitalized in the reporting health facilities), including 1 255 deaths, have been reported in the country, according to the DGHS (Directorate General of Health Services) [Dengue press release](#).
- In epidemiological week 42 (16 – 22 October 2023), 15 432 new cases were reported, including 86 deaths. The number of new cases dropped by 3.9% from 16 050 the previous week. During the reporting period, 15 845 hospitalised persons were released from the hospital after treatment.
- The weekly number of reported cases has dropped for the third consecutive week. Decrease in cases is mostly observed in the northern districts where less than or equal to 5 cases are reporting weekly per 100 000 population [Figure 1].
- As of 22 October 2023, cumulatively, the highest number of cases has been reported in Dhaka division (n=139 671), followed by Chattogram division (n=36 609) and Barishal division (n=30 915). The highest number of deaths was reported in Dhaka division (n=900, CFR=0.64%) followed by Barishal division (n=138, CFR=0.45%) and Chattogram division (n=95, CFR= 0.26%).
- All the divisions reported fewer cases compared to the previous week, except Khulna, Mymensingh and Rangpur. Dhaka division reported the highest number of cases (7 335 this week and 7 416 in the previous week, 1.1% lower), followed by Khulna (2 441 this week and 2 414 in the

**Figure 1: Dengue Cases by District, Bangladesh,**

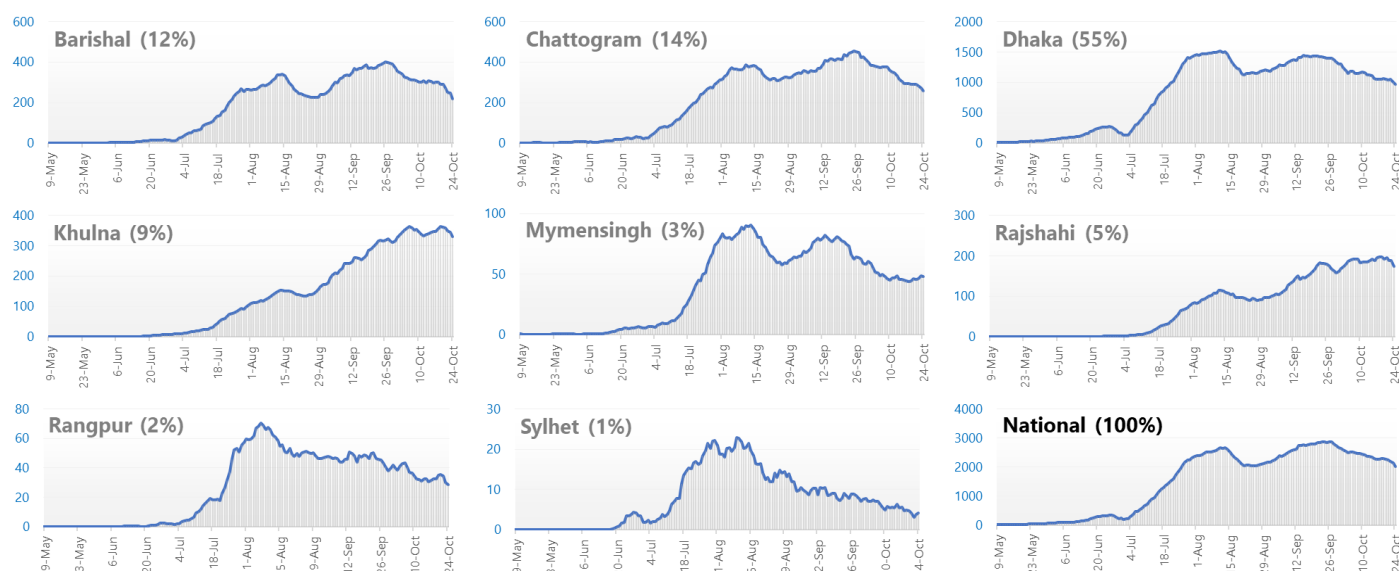
(Data source: HEOC & Control Room, MIS-DGHS)

Week 42, 16 - 22 OCT 2023 (n = 15 432)



**Figure 2: Dengue weekly epi-curve by division, Bangladesh, 2023**

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



previous week, 1.1% higher), Chattogram (1 978 this week and 2 140 in the previous week, 7.6% lower), Barishal (1 767 this week and 2 144 in the previous week, 17.6% lower), Rajshahi (1 325 this week and 1 345 in the previous week, 1.5% lower), Mymensingh (323 this week and 319 in the previous week, 1.3% higher), Rangpur (241 this week and 228 in the previous week, 5.7% higher), and Sylhet (22 this week and 44 in the previous week, 50.0% lower) [Figure 2].

- In the reporting week, 63 districts reported cases ranging from 2 (in Moulvibazar) to 3 745 (in Dhaka), Sunamganj reported zero cases at this time. Most districts showed a decreasing trend. However, 24 districts, especially Manikganj, Gazipur, Faridpur, Kushtia, Jhenaidah, Madaripur, Jashore, and Pabna showed an upward trend.
- A higher case density (>20 per 100 000 population per week) was reported in Manikganj, Pirojpur, Magura, Dhaka, Madaripur, Narail, Meherpur, Barguna, Rajbari, and Barishal districts. Among the rest, 13 districts were in the group of 11-20, 9 were in the group of 6-10, and 32 were in the group of ≤5 cases per 100 000 population per week [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	30 915	1 767	18.9	138	14	0.15	0.45%
Chattogram	36 609	1 978	5.8	95	3	0.01	0.26%
Dhaka	139 671	7 335	16.1	900	53	0.12	0.64%
Khulna	22 354	2 441	13.7	72	12	0.07	0.32%
Mymensingh	6 721	323	2.6	11	0	0.00	0.16%
Rajshahi	12 772	1 325	6.4	30	4	0.02	0.23%
Rangpur	4 695	241	1.3	8	0	0.00	0.17%
Sylhet	1 309	22	0.2	1	0	0.00	0.08%
<b>National</b>	<b>255 046</b>	<b>15 432</b>	<b>9.1</b>	<b>1 255</b>	<b>86</b>	<b>0.05</b>	<b>0.49%</b>

- During week 42, a total of 86 deaths were reported, which was 3.6% higher than the previous week 41 (n=83). Weekly deaths were 39 this week and 45 in the previous week in Dhaka city. In the rest of the country, weekly deaths were 47 this week and 38 in the previous week).
- At the divisional level, the number of deaths has increased in the Barishal, Khulna, and Rajshahi divisions in the reporting week (epi-week 42), the number of deaths either decreased or remained unchanged in other divisions. Dhaka division reported the highest number of deaths (53 this week and 61 in the previous week, 13% lower), followed by Barishal (14 this week and 9 in the previous week, 56% higher), Khulna (12 this week and 6 in the previous week, 100% higher), Rajshahi (4 this week and 3 in the previous week), Chattogram (3 this week and 4 in the previous week), Mymensingh, Rangpur and Sylhet reported 0 deaths both in this week and the previous week.

- During the reporting week, the highest number of deaths were reported from Sher-e-Bangla Medical College Hospital, Barishal (14), followed by Faridpur Medical College Hospital (12), Dhaka Medical College Hospital (10), Khulna Medical College Hospital, Mugda Medical College Hospital and Sir Salimullah Medical College Hospital, Dhaka (5 each), Rajshahi Medical College Hospital and BIHS General Hospital, Dhaka (3 each), and the remaining 29 from different public and private hospitals in the country [Table 2].

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

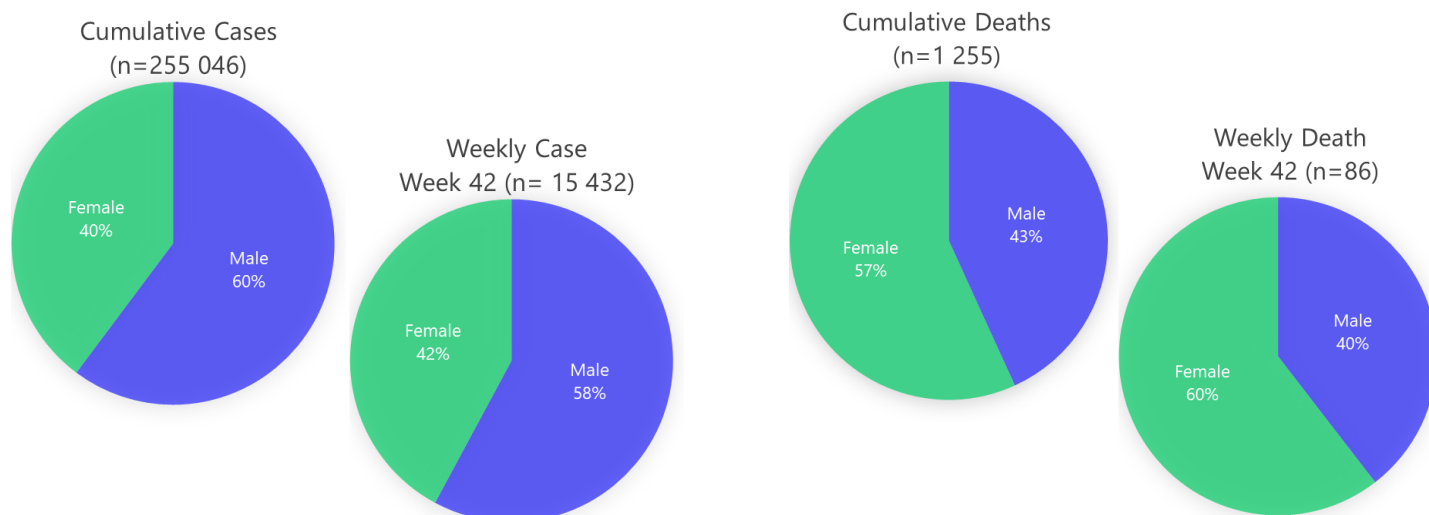
(Data source: HEOC & Control Room, MIS-DGHS)

Hospitals in Dhaka City	Cumulative (01 JAN – 22 OCT 2023)			Week 42		Hospitals in Rest of the Country	Cumulative (01 JAN – 22 OCT 2023)			Week 42	
	Cases	Deaths	CFR	Cases	Deaths		Cases	Deaths	CFR	Cases	Deaths
Dhaka MCH	7 356	193	2.62%	295	10	Sher e Bangla MCH	6 563	101	1.54%	314	14
Mugda MCH	12 139	138	1.14%	301	5	Faridpur MCH	2 849	90	3.16%	224	12
Sir Salimullah MCH	7 608	60	0.79%	287	5	Chattogram MCH	3 473	53	1.53%	172	2
Kurmitola Gen. Hosp.	6 349	48	0.76%	326	2	Khulna MCH	2 594	25	0.96%	223	5
DNCC Dedicated Hosp.	7 446	46	0.62%	357	2	Rajshahi MCH	3 053	18	0.59%	361	3
Enam MC & Hosp.	1 136	34	2.99%	130	2	Mymensingh MCH	2 982	8	0.27%	130	0
Shishu Hospital & Inst.	1 773	21	1.18%	67	1	Manikganj MCH	3 586	8	0.22%	487	0
Asgar Ali Hospital	1 703	18	1.06%	41	2	Satkhira MCH	532	7	1.32%	50	0
Square Hospitals Ltd.	960	16	1.67%	18	0	Shahid ZR MCH	720	5	0.69%	42	0
Green Life Hospital Ltd.	1 167	16	1.37%	30	0	Patuakhali MCH	3 278	5	0.15%	171	0

- Male vs female ratio of cumulative dengue cases is 60% vs 40% however, in the reporting week this ratio is 58% vs 42%, respectively. Majority of the male cases are among the age group of 16-50 years (50%) and most female cases are reported among the age group of 16-40 years. While 11% cases (26 920) were reported from 0-10 yrs. age group [Figure 3].
- Overall male vs female ratio of dengue deaths is 43% vs 57% however, in the reporting week this ratio is 40% vs 60%, respectively. Majority of the male deaths are among the age group of 16-55 years (57%) and most female deaths are reported among the age group of 21-50 years (57%). While 8% deaths (103) were reported from 0-10 yrs. age group.

**Figure 3: Weekly Dengue Case and CFR by Gender, 2023**

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



- 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%).