Dengue Situation Report, Issue # 11, 06 NOV 2023
https://www.who.int/bangladesh/emergencies/dengue-update-2023

Epi-week 44: 30 Oct - 05 Nov 2023

Weekly Case	Weekly Recovered	Weekly Death	Presently Hospitalised	Cumulative Case	Cumulative Death
12 634	13 430	78	6 803	267 680	1 333

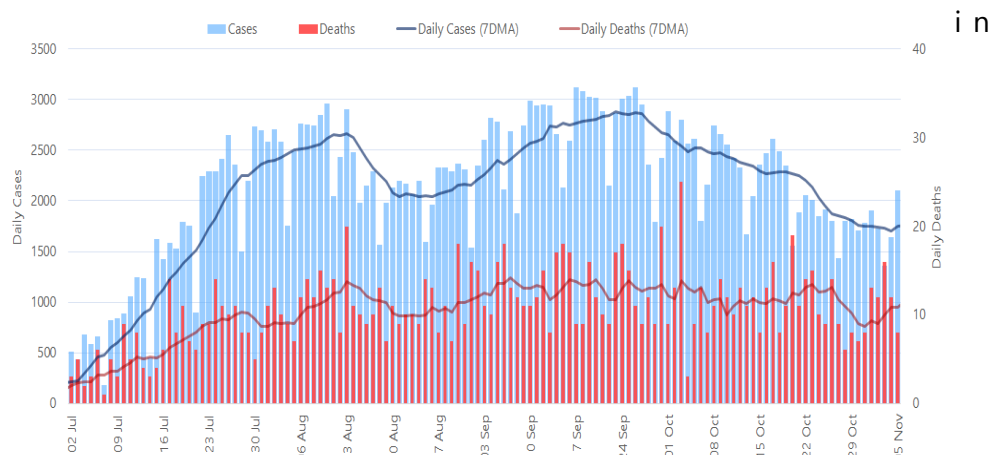*(Data source: HEOC & Control Room, MIS-DGHS)*

Highlights

- The weekly number of reported cases continued to decline for the sixth consecutive week. A total of 12 224 cases were reported this week compared to 12 634 for the previous week, a decrease of 3.2%. The weekly number of reported deaths was 75 this week compared to 78 in the previous week.

- Daulatpur, Shalikha, Kaliganj, Batiaghata and Satkhira Sadar upazilas of Khulna division; Lalmohon, Raipur, and Nazirpur upazilas of Barishal division and Patnitala and Puthia upazillas of Rajshahi division showed the highest number of new cases per 100 000 population and the highest rate of increase of new cases in the reporting week.

- Cumulatively since the beginning of the year, 279 case including 1 408 deaths have been reported nationwide with September 2023 recording the most cases and deaths.

Surveillance & Laboratory

- As of 05 November 2023, a total of 279 904 cases (dengue NS1 or IgM test-positive persons hospitalized in the reporting health facilities), including 1 408 deaths, according to the DGHS (Directorate General of Health Services) Dengue press release.

- In epidemiological week 44 (30 October – 5 November 2023), 12 224 new cases were reported, including 75 deaths. The number of new cases dropped by 3.2% from 12 634 in the previous week. During the reporting period, 12 248 hospitalized persons were released from the hospital after treatment. Though the total number of new deaths reported this week dropped by 3.8% compared to the prior. However, the daily number of reported cases does not follow a consistent decline but fluctuating.

- This year, the highest daily numbers of 3 123 cases were reported on 26 September. The highest number of daily reported deaths of 21 were recorded on 2 September and 20 September 2023. However, based on the actual dates of deaths the highest number of 25 deaths occurred on 3 October 2023 *[Figure 1]*.

- The overall case fatality rate (CFR) of the year is 0.5% by the end of week 44. CFR is higher in females (0.72%) than in males (0.36%).

- 60% of the cases are male. Majority of the male cases are among the age group of 16-50 years (50%) and most of the female cases are reported among the age group of 16-40 years (55%).

Figure 1: Dengue Case and Death, Bangladesh, 02 JUL-05 NOV 2023
(Data source: HEOC & Control Room, MIS-DGHS)

- 57% of the deaths are female. Majority of the male deaths are among the age group of 16-55 years (57%) and most of the female deaths are reported among the age group of 21-50 years (57%).
- As of 5 November 2023, cumulatively, the highest number of cases has been reported in Dhaka division (n=151 102), followed by Chattogram division (n=39 358), Barishal division (n=33 753) and Khulna (n=26 800). The highest number of deaths was reported in Dhaka division (n=992, CFR=0.66%) followed by Barishal (n=155, CFR=0.46%), Khulna (n=99, CFR=0.37%), Chattogram (n=98, CFR=0.25%), Rajshahi (n=41, CFR=0.27%), Mymensingh (n=12, CFR=0.17%) Rangpur (n=10, CFR=0.2%) and Sylhet (n=1, CFR=0.07%) [Table 1].

Table 1: Dengue Cases and Deaths, Bangladesh, Indicators as of Week 44, 2023
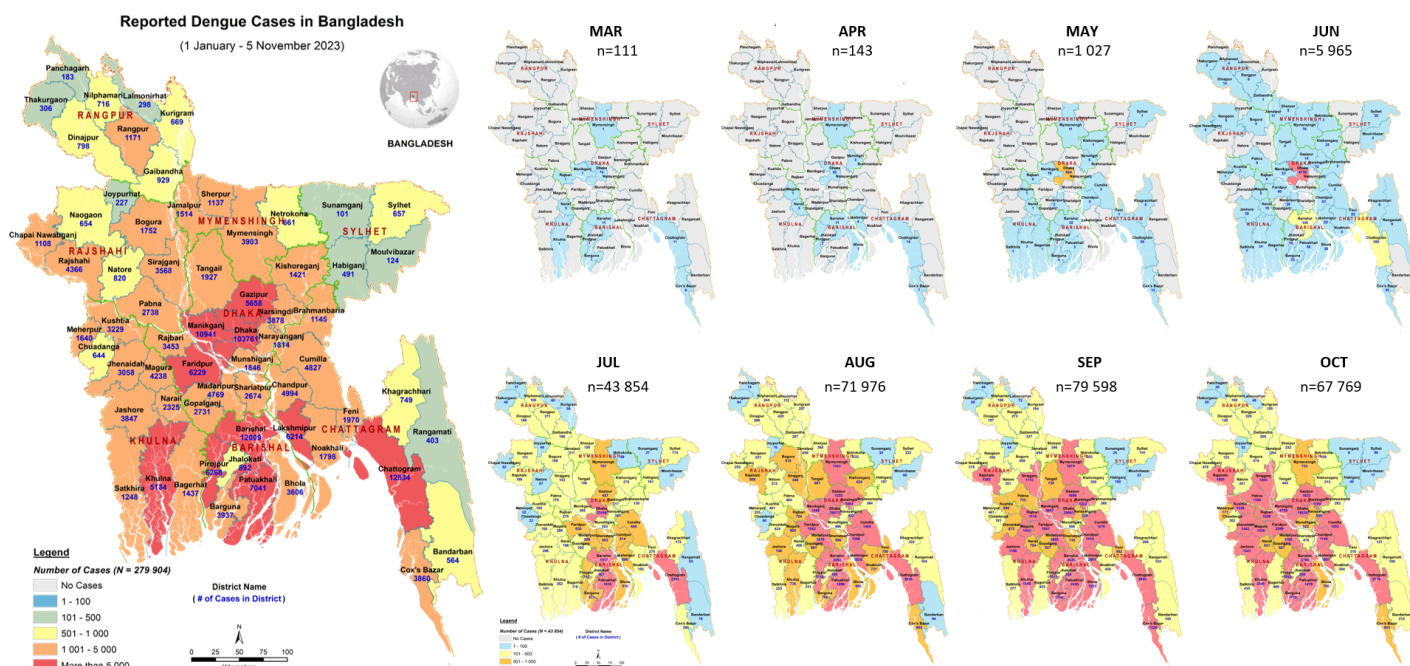(Data source: HEOC & Control Room, MIS-DGHS)

Division	Cumulative Cases	Weekly Cases	Weekly Cases /100K	Cumulative Deaths	Weekly Deaths	Weekly Deaths/100K	Cumula-tive CFR
Barishal	33 753	1 424	15.3	155	10	0.11	0.46%
Chattogram	39 358	1 323	3.9	98	1	0.00	0.25%
Dhaka	151 102	5 637	12.3	992	45	0.10	0.66%
Khulna	26 800	2 236	12.6	99	13	0.07	0.37%
Mymensingh	7 215	218	1.7	12	1	0.01	0.17%
Rajshahi	15 233	1 183	5.7	41	5	0.02	0.27%
Rangpur	5 070	173	1.0	10	0	0.00	0.20%
Sylhet	1 373	30	0.3	1	0	0.00	0.07%
National	279 904	12 224	7.2	1 408	75	0.04	0.50%

- The maps below show the monthly distribution of dengue cases by districts from March to October 2023 [Figure 2]:

Figure 2: Distribution of Dengue Monthly Cases by District, 2023
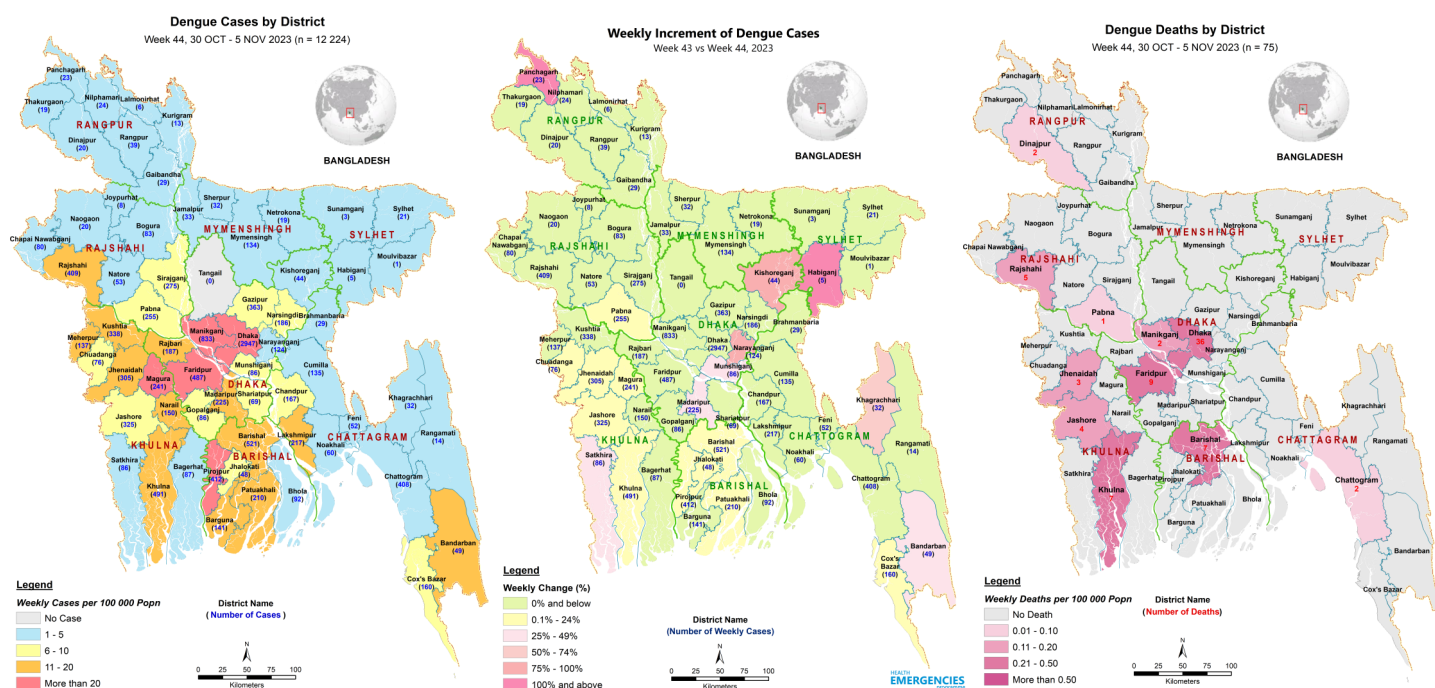(Data source: HEOC & Control Room, MIS-DGHS)

- In the reporting week, all the divisions reported fewer cases compared to the previous week, except Khulna and Barishal [Figure 3]. Dhaka division reported the highest number of cases (5 637 this week and 5 794 in the previous week, 2.7% lower), followed by Khulna (2 236 this week and 2 210 in the previous week, 1.2% higher), Barishal (1 424 this week and 1 417 in the previous week, 0.5% higher), Chattogram (1 323 this week and 1 424 in the previous week, 7.1% lower), Rajshahi (1 183 this week and 1 278 in the previous

week, 7.4% lower), Mymensingh (218 this week and 275 in the previous week, 20.7% lower), Rangpur (173 this week and 202 in the previous week, 14.4% lower), and Sylhet (30 this week and 34 in the previous week, 11.8% lower).
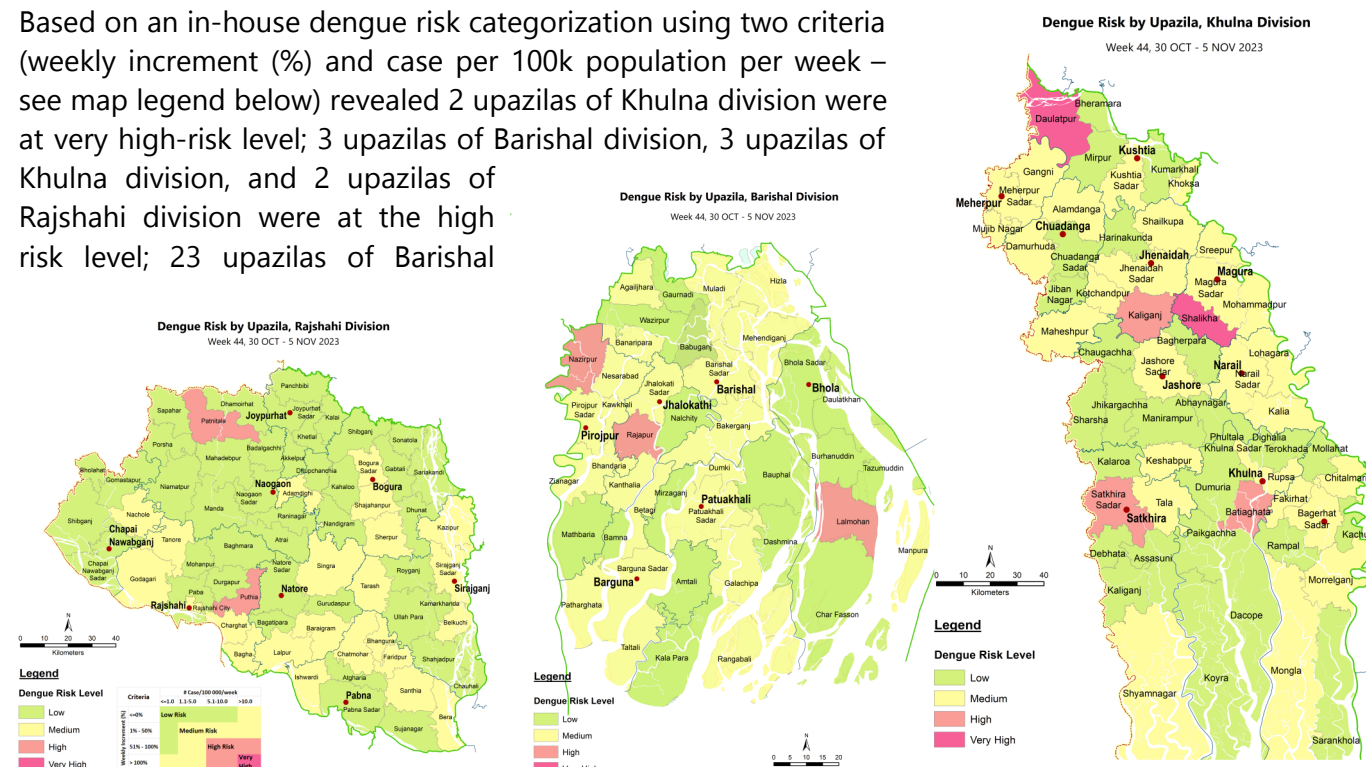
- In the reporting week, 63 districts reported cases ranging from 1 (in Moulvibazar) to 2 947 (in Dhaka), Tangail reported zero cases at this time [Figure 3]. Most districts showed a decreasing trend. However, 20 districts showed an upward trend, especially to mention, Narayanganj (85% increase, 124 new cases), Madaripur (46% increase, 225 new cases), Jashore (12% increase, 325 new cases), Patuakhali (9% increase, 210 new cases), Pirojpur (8% increase, 412 new cases), Barishal (5% increase, 521 new cases), Jhenaidah (5% increase, 305 new cases), Cox's Bazar (4% increase 160 new cases), and Magura (3% increase, 255 new cases).

Figure 3: Distribution of Dengue Case & Death, Week 43, 2023
(Data source: HEOC & Control Room, MIS-DGHS)

- Based on an in-house dengue risk categorization using two criteria (weekly increment (%) and case per 100k population per week – see map legend below) revealed 2 upazilas of Khulna division were at very high-risk level; 3 upazilas of Barishal division, 3 upazilas of Khulna division, and 2 upazilas of Rajshahi division were at the high risk level; 23 upazilas of Barishal

division, 28 upazilas of Khulna division, and 23 upazilas of Rajshahi division were at the median risk level.

- The very-high risk upazilas are Daulatpur upazila in Kushtia district and Shalikha upazila in Magura district. The high risk upazilas are Lalmohan upazila in Bhola district, Rajapur upazila in Jhalokati district, Nazirpur upazila in Pirojpur districts, Kaliganj upazila in Jhenaidah district, Batiaghata upazila in Khulna district, Satkhira Sadar upazila in Satkhira district, Patnitala upazila in Naogaon district, and Puthia upazila in Rajshahi district.

- During week 44, a total of 75 deaths were reported, which was 3.8% lower than the previous week 43 (n=78). Weekly deaths were 30 this week and 36 in the previous week in Dhaka city. In the rest of the country, weekly deaths were 45 this week and 42 in the previous week.

- At the divisional level, the number of deaths has increased in the Barishal and Mymensingh divisions in the reporting week (epi-week 44), 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 (45 this week and 47 in the previous week, 4.3% lower), followed by Khulna (13 this week and 14 in the previous week, 7.1% lower), Barishal (10 this week and 7 in the previous week, 42.8% higher), Rajshahi (5 this week and 6 in the previous week), Chattogram (1 this week and 2 in the previous week), Rangpur (0 this week and 2 in the previous week), Mymensingh (1 this week and 0 in the previous week), 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 Faridpur Medical College Hospital (14), followed by Dhaka Medical College Hospital (10), Sher-e-Bangla Medical College Hospital (7), Mugda Medical College Hospital (6), Kurmitola General Hospital and Rajshahi Medical College Hospital (4 each) and Sir Salimullah Medical College Hospital (3) and the remaining 23 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 – 05 NOV 2023)			Week 44		Hospitals in Rest of the Country	Cumulative (01 JAN – 05 NOV 2023)			Week 44	
	Cases	Deaths	CFR	Cases	Deaths		Cases	Deaths	CFR	Cases	Deaths
Dhaka MCH	7815	216	2.76%	225	10	Sher e Bangla MCH	7111	115	1.62%	262	7
Mugda MCH	12612	148	1.17%	229	6	Faridpur MCH	3387	113	3.34%	266	14
Sir Salimullah MCH	8116	64	0.79%	251	3	Chattogram MCH	3746	55	1.47%	130	1
Kurmitola Gen. Hosp.	6917	53	0.77%	292	4	Khulna MCH	3068	34	1.11%	222	2
DNCC Dedicated Hosp.	8071	48	0.59%	298	0	Rajshahi MCH	3875	27	0.70%	366	4
Enam MC & Hosp.	1324	38	2.87%	116	1	Manikganj MCH	4309	11	0.26%	331	1
Shishu Hospital & Inst.	1858	22	1.18%	47	0	Mymensingh MCH	3220	9	0.28%	108	1
Asgar Ali Hospital	1758	18	1.02%	20	0	Satkhira MCH	608	8	1.32%	44	1
Square Hospitals Ltd.	1006	17	1.69%	21	0	S Z Rahman MCH	781	6	0.77%	26	1
Green Life Hopital Ltd.	1196	17	1.42%	12	0	Patuakhali MCH	3513	6	0.17%	121	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 DENV-2+DENV-3 (4.1%).