

Dengue Situation Report, Issue # 2, 4 SEP 2023

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

Epi-week 35: 28 Aug - 03 Sep 2023



Weekly Case

15 791



Weekly Recovered

15 159



Weekly Death

86



Presently Hospitalised

8 299



Cumulative Case

130 302



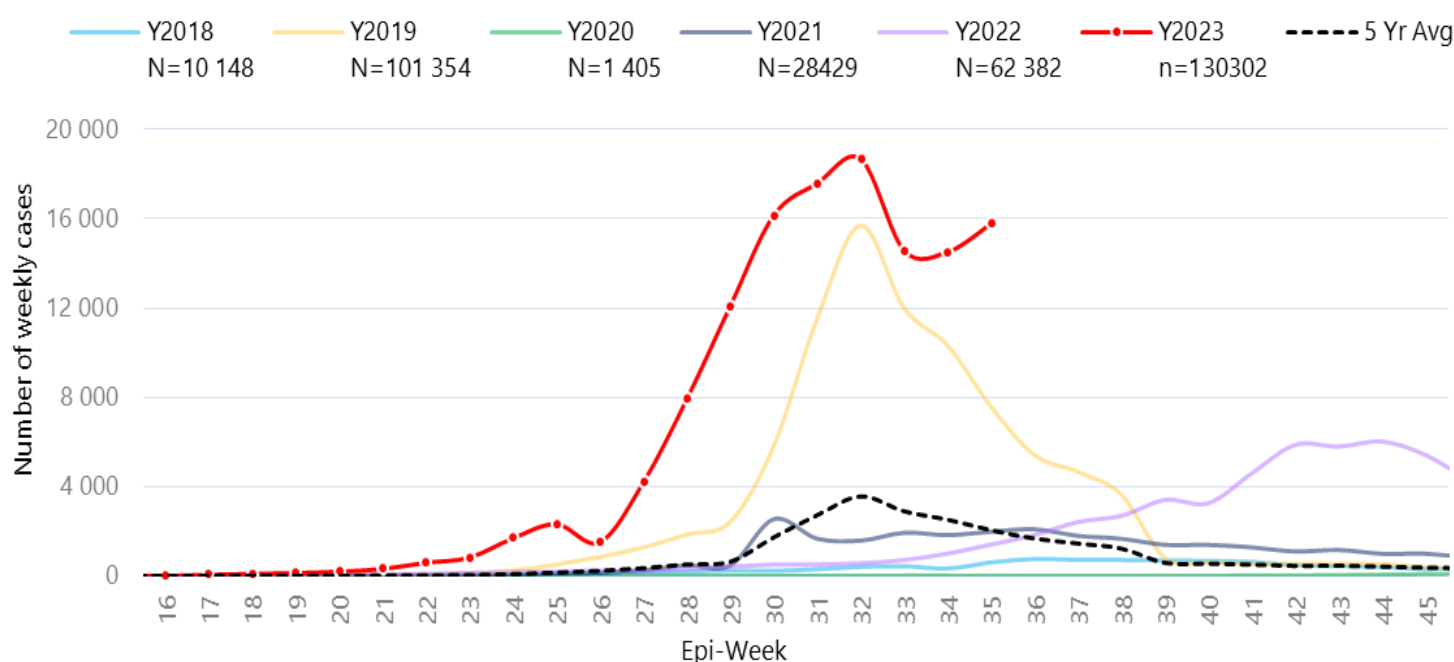
Cumulative Death

634

Highlights

- During week 35, 12 791 new cases including 86 deaths were reported. This is a further increase in reported cases and deaths compared to the previous week. Reported cases are still more among the males while more deaths are reported among the females.
- DGHS completed 12 orientation sessions on dengue case management in Dhaka, Chattogram and Barishal city to covering 300 medical professionals of secondary and tertiary hospitals.
- The Risk Communication and Community Engagement (RCCE) platform of CDC-DGHS with the support of multi-sectoral partners have reached 79 million people nationwide with awareness messages through different community engagement activities.

Weekly Dengue Cases, Bangladesh, 2018-2023



Surveillance & Laboratory

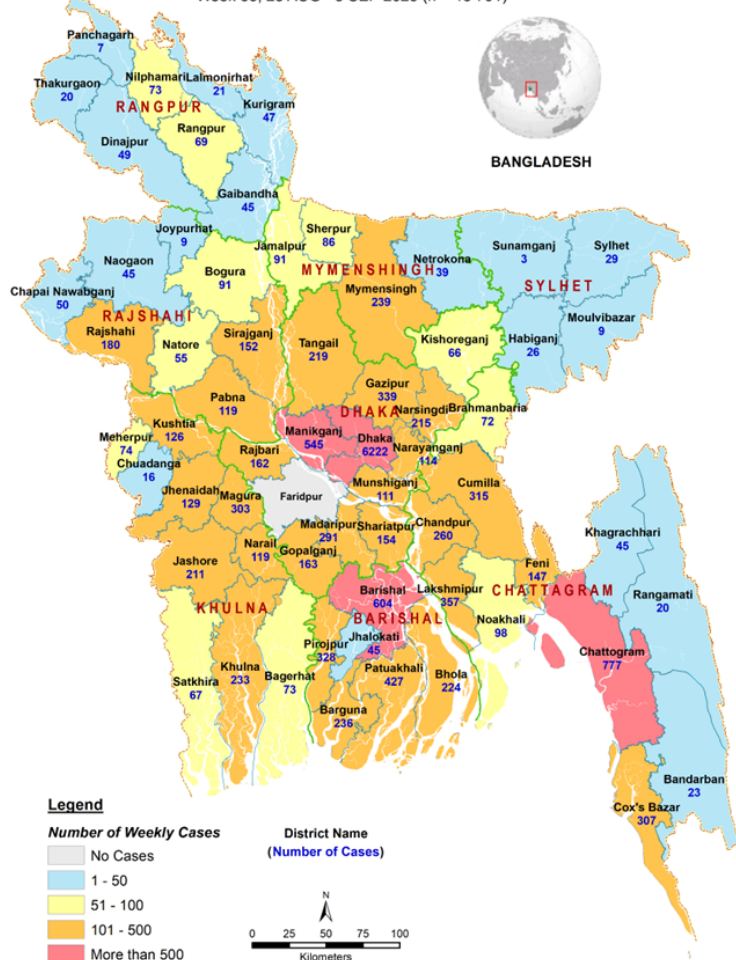
As of 3 September 2023, the total number of reported cases (dengue NS1 or IgM test positive person hospitalized in the reporting health facilities) was 130 302 with 634 reported deaths, according to the DGHS Dengue press release as of 3 September 2023. The overall case fatality rate (CFR) is now 0.49% which was 0.48% in the week before.

The highest number of weekly cases (18 679) was reported in the epi-week 32 (7 - 13 AUG), 2023, and the highest daily cases, 2 959, were recorded on 10 August 2023. The highest weekly death (86) was recorded in week 35 (28 AUG - 3 SEP), 2023, with the highest daily death of 21 on 2 September 2023.

Surveillance & Laboratory ... continued

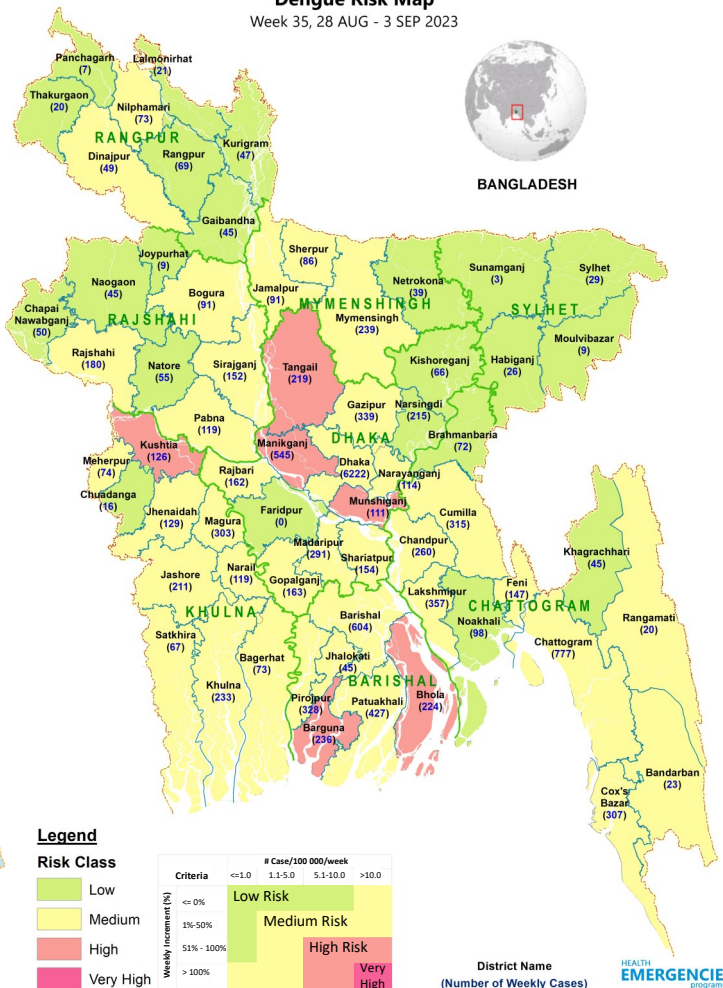
Dengue Cases reported in last 7 days

Week 35, 28 AUG - 3 SEP 2023 (n = 15 791)



Dengue Risk Map

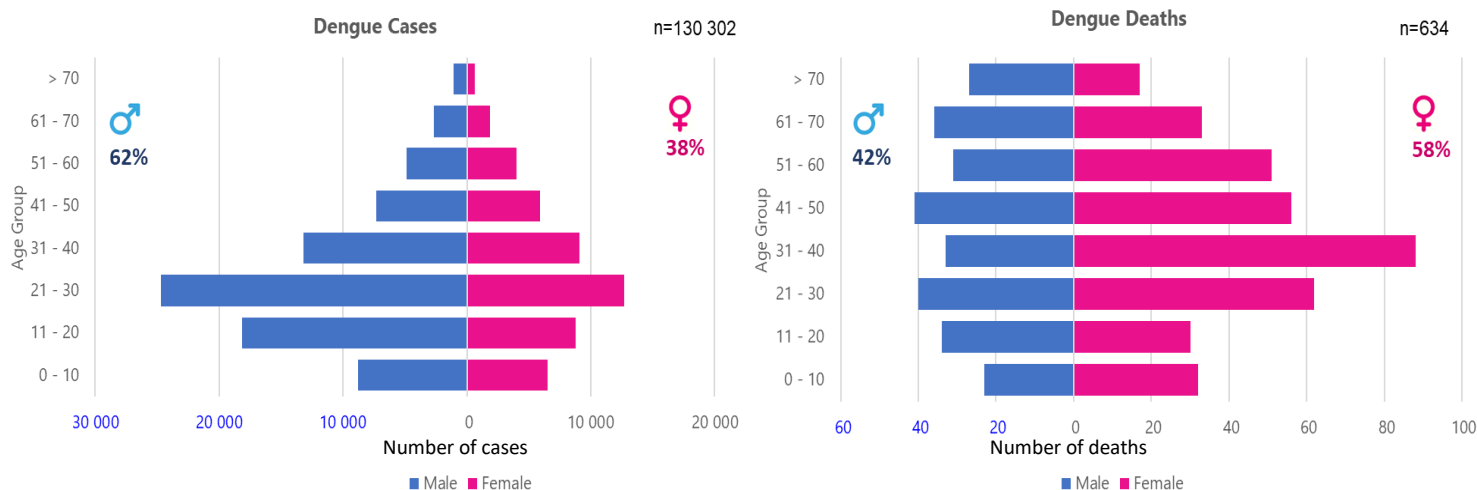
Week 35, 28 AUG - 3 SEP 2023



During the current reporting week (35), 15 791 new cases were reported, with 86 deaths, resulting in a weekly CFR of 0.54%; these numbers were 14 517 cases, 72 deaths and CFR 0.50 in the week before (34). The number of presently hospitalized cases increased by 6.6%, from 8 299 on 27 August to 8 845 on 3 September 2023.

Among the reported cases (n= 130 302), 62% is male (85% is <=40 years and 15% is >40 years) and 38% is female (82% is <= 40 years and 18% is >40 years). Among the reported deaths (n=634), 58% is female (67% is <=40 years and 33% is >40 years) and 42% is male (56% is <= 40 years and 44% is >40 years). Overall CFR among the males is 0.33% and 0.75% among the females.

Age-Sex distribution among dengue cases and deaths



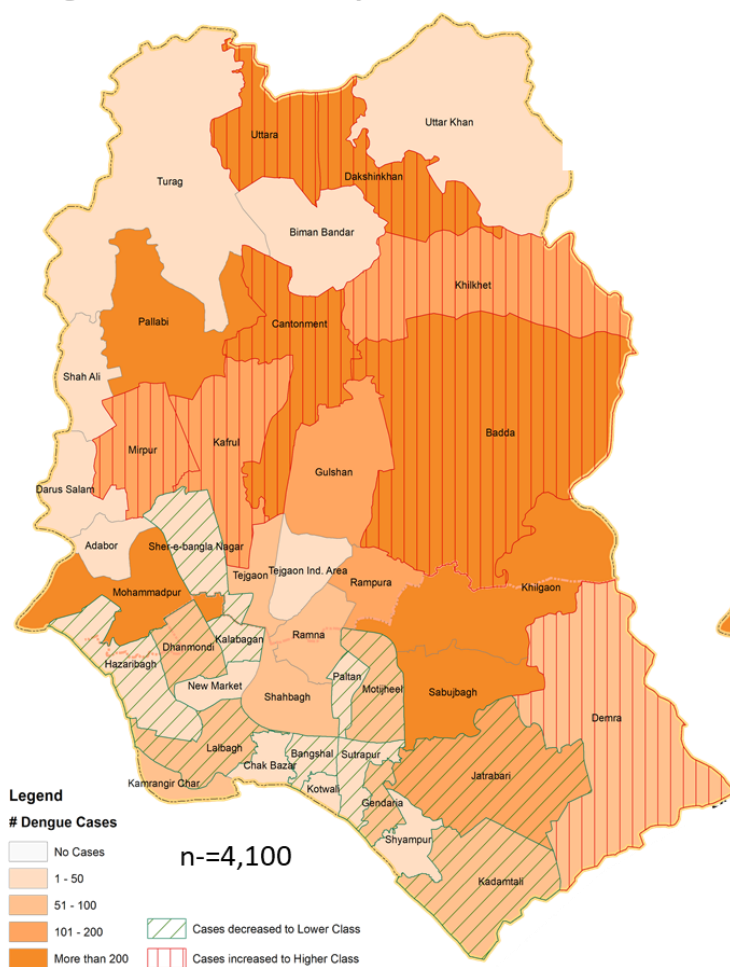
Surveillance & Laboratory ... continued

In the reporting week (epi-week 35), Dhaka division reported the highest number of cases (8 601 this week and 8 133 in the week before, a 5.8% increase) followed by Chattogram (2 421 this week and 2 281 in the week before, a 6.1% increase), Barishal (1 864 this week and 1 579 in the week before, an 18% increase), Khulna (1 351 this week and 995 in the week before, a 6.1% increase), Rajshahi (701 this week and 657 in the week before, a 6.7% increase), Mymensingh (455 this week and 414 in the week before, a 9.9% increase), Rangpur (331 this week and 354 in the week before, a 6.5% decrease), and Sylhet (67 this week and 104 in the week before, a 35.6% decrease).

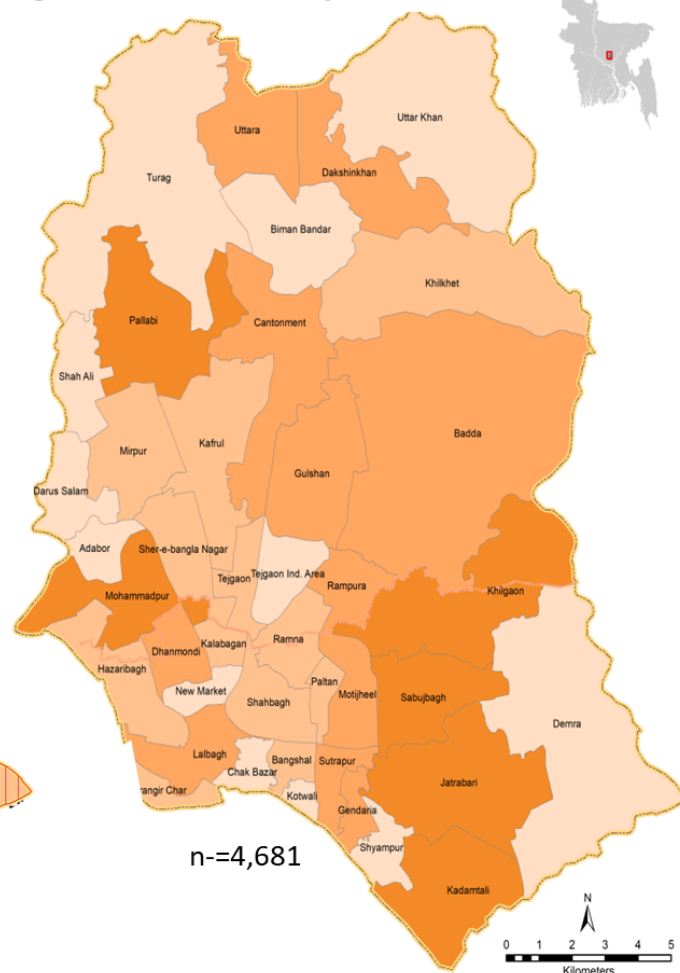
An in-house dengue risk categorisation has been made based on two criteria – weekly increment (%) and case per 100k population per week – see map legend above. No district was identified as a very high-risk area. 6/64 districts (Tangail, Munshiganj, Manikganj, Barguna, Bhola, and Kushtia) fall in the high-risk class. Besides that, 22 districts were identified as Medium-risk classes, and the remaining 36 were identified as low-risk classes. This is for internal monitoring as Current WHO rapid risk assessment puts the overall risk in the country as high.

In the Dhaka city, cases in week 34 increased in the northern part of the city including Mirpur, Kafrul, Khilkhet, Dakshinkhan, Pallabi, Uttara, Badda, and Cantonment areas. While the number of weekly cases dropped in the southern region including Sutrapur, Jatrabari, Kadamtali, Dhanmondi, Kalabagan, Paltan, Gendaria, Hazaribagh, Sher-e-Bangla Nagar, Bangshal, Motijheel, and Lalbagh areas. The only place in the south where cases have risen relative to the reference point (week 29) is Demra.

Dengue Cases in Dhaka City, Week 34, 2023



Dengue Cases in Dhaka City, Week 29, 2023



Case Management

- A month long 12 orientation sessions covering 300 doctors on updated case management of Dengue (Pocket Book Guideline) was conducted in Dhaka, Chattogram & Barisal, which is expected to enhance the capacity of Dengue management. It was conducted by DGHS supported by BDRCS.
- Assessment of Dengue Case Management was conducted at major Public Hospitals at Dhaka. It was done to assess the quality of clinical care and to make recommendations. The team consisted of Dengue experts from USCDC, WHO and Ministry of Health, Bangladesh.

Environmental & Vector Surveillance and Control

- The National Malaria Elimination and Aedes Transmitted Disease Control Programme conducted and completed the monsoon Entomology survey in the two city corporations of Dhaka on September 3, 2023. A total of 3149 households (HH) were surveyed in 98 wards (58 in Dhaka South and 40 in Dhaka North City Corporation); results of the survey including laboratory analysis is pending.
- A meeting took place between WHO WASH and vector control technical professionals and UNICEF WASH section's Technical Professionals. UNICEF and WHO agreed to develop key educational messages targeted at eliminating the breeding sources of Aedes mosquitoes and environmental cleaning.

Health Operations and Logistics support

- An additional procurement of 10,950 Dengue Test kits has been done by USAID through UNICEF to DGHS.
- A dengue laboratory expert from USCDC arrived on 30 August 2023 to provide technical support on dengue PCR testing, serotyping, and sequencing.
- USCDC also provided two CDC DENV-1-4 Realtime rRT-PCR assay kits for Dengue serotyping to the Institute for Epidemiology, Disease Control and Research on 31 August 2023. The two kits can be used for 400 tests. Two additional kits are preparing to ship.
- BDRCS has distributed a total of 2,000 long-lasting insecticidal nets (LLINs) mosquito nets in Chattogram and Dhaka.
- The World Bank Board approved an urban health project for Bangladesh on August 30, 2023. This will support the health ministry in strengthening the delivery of primary healthcare and the local government in delivering environmental health and preventive services. As part of the project, WB will support the local government in establishing integrated vector management unit, strengthen their mosquito control laboratory (for vector surveillance), put in place a dengue early warning system including weather data, awareness raising, behaviour change communication and community led interventions, among other things. The project is expected to start from October 2023.

Risk Communication & Community Engagement

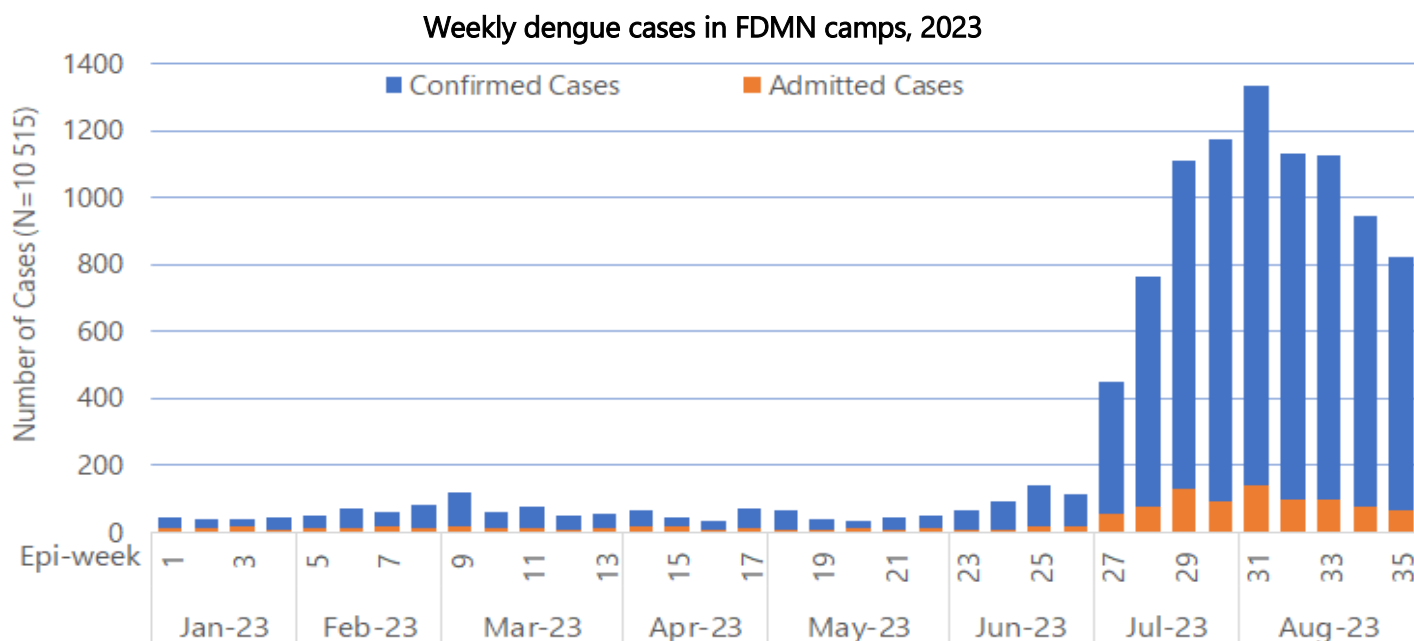
- The Risk Communication and Community Engagement (RCCE) platform for dengue response was established by the CDC-DGHS on July 24, 2023. This has brought together more than 20 government, non-government, and private organizations to provide technical support to develop the message on dengue prevention, care, and treatment before approval by CDC-DGHS. RCCE platform members then disseminate the approved message through their communications channels.
- Till date, RCCE activities have reached 79 million people nationwide with awareness messages and engaged 134,923 people through different community engagement activities.

Risk Communication & Community Engagement ... continued

- The RCCE platform has been utilized to disseminate the standardized messages of the RCCE platform to generate public awareness in Dhaka city and nationwide through evidence-based campaigns including two Public Service Announcements (PSA) to prevent and manage dengue.
- Social media posts on dengue prevention and care developed by UNICEF, WHO and other RCCE members reached millions of social media users.
- WHO Bangladesh conducted a WALK THE TALK, a joint event with the Bangladesh Medical Student Society and Dhaka North City Corporation. The event focused on Dengue awareness and prevention in the community. 500 hundred medical students from all over the country attended the rally. Bangladesh Red Crescent Society (BDRCS) engaged 267,745 people in Dhaka, Chattogram, and Barisal City Corporations through direct community engagement activities. BRAC has reached out to 1.8 million households and engaged 7.7 million people through household-level community engagement activities.

Situation update of FDMN Camp

- From week 1 to week 35, 2023 total cumulative Dengue cases (test positive through RDT) among FDMN population were 10 515 including 14 deaths (CFR: 0.13% among the confirmed cases and 1.2% among the hospitalized cases). Overall, 11% of the reported cases were hospitalized in the health facilities. A majority (42%) of the Dengue cases so far reported are among the youngest age category (0-10) Years), Males bear the greatest burden of the disease (55%)
- In the reporting week, 821 case reported and 69 were hospitalized. Weekly case trend is downward since the week 32.



- This year MSF reported 1 687 dengue cases from two designated hospitals (Kutapalong hospital and Hospital on the Hill for FDMN population); among the cases male vs female are 53% vs 47%. The most affected age groups are children and young adults. There were 15 (0.89%) cases of Haemorrhagic fever.