



Hospital Based Rotavirus Surveillance in Children < 5 years of age and
Intussusception Surveillance in Children < 2 years of age (HBRIS) in Bangladesh

Monthly Report, September 2023



◆ Name, location and starting month of HBRIS hospitals

Sl. No.	Name of the Hospitals	Location	Surveillance start	Current status
01.	Rajshahi Medical College Hospital (RMCH)	Rajshahi	July'12	Ongoing
02.	Jahurul Islam Medical College Hospital (JIMCH)	Kishoregonj	July'12	Ongoing
03.	Jalalabad Ragib-Rabeya Medical College Hospital (JRRMCH)	Sylhet	July'12	Ongoing
04.	World Mission Prayer League (LAMB)	Dinajpur	February'13	Closed in June'15
05.	Bangabandhu Memorial Hospital (BBMH)	Chattogram	February'13	Closed in Septemer'19
06.	Jashore General Hospital (Jashore)	Jashore	August'13	Ongoing
07.	Sher-e- Bangla Medical College Hospital (SBMCH)	Barishal	August'13	Ongoing
08.	Rangpur Medical College Hospital (RpMCH)	Rangpur	January'16	Ongoing
09.	Chattogram Medical College Hospital (CMCH)	Chattogram	Septemer'19	Ongoing

◆ Proportion of children aged <5 years hospitalized with acute gastroenteritis (AGE) with evidence of rotavirus infection during September 2023 by hospital

Hospital Name	Rotavirus		
	AGE*	Sampled	Positive (%)
RMCH	52	12	2(16.67)
JIMCH	52	13	12(92.31)
JRRMCH	20	5	2(40.00)
JGH	20	5	0(0.00)
SBMCH	80	20	15(75.00)
RpMCH	36	9	3(33.33)
CMCH	80	20	9(45.00)
Cumulative Total	340	84	43 (51.19)

◆ Number of intussusception cases aged <2 years during September 2023 by hospital

Hospital Name	Intussusception confirmed***
RMCH	1
JIMCH	0
JRRMCH	0
JGH	0
SBMCH	0
RpMCH	2
CMCH	4
Cumulative Total	7

◆ Distribution of acute gastroenteritis (AGE) & rotavirus cases by age group during September 2023

Age group (in months)	Rotavirus		
	AGE (N=340)	Sampled (N=84)	Positive (%) (N=43)
0-5	37	7	2(28.57)
6-11	124	43	29(67.44)
12-17	70	16	10(62.50)
18-23	30	7	2(28.57)
24-59	78	11	0(0.00)
Cumulative Total	339	84	43(51.19)

*Acute Gastroenteritis (AGE)- ≥3 watery or looser than normal or ≥1 episode of forceful vomiting within a 24-hour period, with symptoms lasting ≤ 7 days. **Every 4th suspected case (in case of LAMB hospital every case). ***Child under 2 years who is admitted in selected hospitals & meet the level 1 or 2 or 3, Brighton Collaboration diagnostic criteria (either by clinical/ surgical/ and/or radiological and/or autopsy criteria).

◆ Distribution of intussusception cases by age group during September 2023

Age group (in months)	Intussusception confirmed
0-5	1
6-11	3
12-17	2
18-23	1
24-59	0
Cumulative Total	7

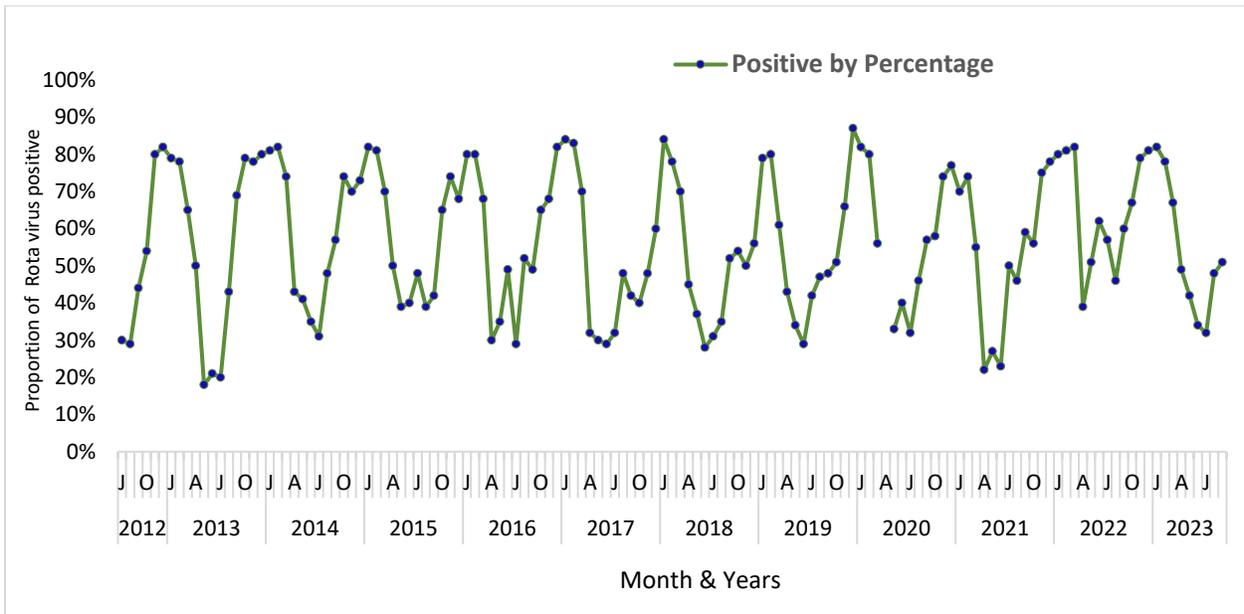
◆ Distribution of acute gastroenteritis (AGE) and rotavirus cases by sex during September 2023

Sex	AGE	Sampled	Positive (%)
Male	223	56	28(50.00)
Female	117	28	15(53.57)

◆ Distribution of intussusception cases by sex during September 2023

Sex	Intussusception confirmed
Male	6
Female	1

◆ Proportion of hospitalized acute gastroenteritis cases with evidence of rotavirus infection, by months and years



HBRIS activities has been postponed during the period of 1st April 2020 to 15th May 2020 due to Pandemic COVID-19

◆ Number of children aged < 5 years with acute gastroenteritis (AGE) with evidence of rotavirus positivity by hospital (January '23 to September '23)

Hospital	RMCH		JIMCH		JRRMCH		JGH		SBMCH		RpMCH		CMCH		Total Cases		
	Sampled	Positive	Sampled	Positive	Sampled	Positive	Sampled	Positive	Sampled	Positive	Sampled	Positive	Sampled	Positive	Sampled	Positive	%
Jan'23	29	27	23	18	13	6	35	29	30	24	31	26	36	31	197	161	81.73
Feb'23	20	17	21	16	10	8	24	18	29	21	32	26	16	13	152	119	78.29
Mar'23	18	13	13	10	9	5	31	24	32	20	25	16	22	13	150	101	67.33
Apr'23	17	11	11	4	5	2	15	6	25	15	13	6	21	8	107	52	48.60
May'23	15	6	10	4	5	1	12	6	33	22	12	3	30	7	117	49	41.88
June'23	10	2	12	5	2	0	8	2	26	13	11	1	14	5	83	28	33.73
July'23	12	7	11	7	5	1	5	1	27	3	10	3	20	7	90	29	32.22
Aug'23	15	5	10	4	5	1	5	3	31	16	9	3	26	16	101	48	47.50
Sep'23	12	2	13	12	5	2	5	0	20	15	9	3	20	9	84	43	51.19
Total	148	90	124	80	59	26	137	89	253	149	152	87	205	109	1081	630	58.27

◆ Proportion of children aged < 5 years with acute gastroenteritis (AGE) with evidence of rotavirus infection including number of deaths by hospital July'12 to September '23

Hospital Name	Rotavirus			
	AGE	Sampled	Positive (%)	Rotavirus associated deaths
RMCH	17230	4209	2553(61%)	3
JIMCH	9944	2481	1592(64%)	1
JRRMCH	8596	2131	1399(66%)	-
LAMB	178	142	95(63%)	1
BBMH	2155	532	335(63%)	-
JGH	6360	1597	938(59%)	-
SBMCH	13740	3440	2197 (64%)	-
RpMCH	5292	1317	791(60%)	-
CMCH	3980	989	585(59%)	-
Cumulative Total	64892	16832	10095(60%)	5**

** Last Rota associated death case was reported in 2015.

◆ Number of intussusception cases aged < 2 years by hospital July'12 to September '23

Hospital Name	Intussusception confirmed
RMCH	277
JIMCH	27
JRRMCH	68
LAMB	-
BBMH	10
JGH	8
SBMCH	54
RpMCH	92
CMCH	207
Cumulative Total	782