



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

Monthly Report, March 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 March 2023 by hospital

Hospital Name	Rotavirus		
	AGE*	Sampled**	Positive (%)
RMCH	73	18	13(72.22)
JIMCH	52	13	10(76.92)
JRRMCH	36	9	5(55.56)
JGH	124	31	24(77.42)
SBMCH	128	32	20(62.50)
RpMCH	100	25	16(64.00)
CMCH	88	22	13(59.09)
Cumulative Total	601	150	101(67.33)

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

Hospital Name	Intussusception confirmed***
RMCH	1
JIMCH	0
JRRMCH	0
JGH	0
SBMCH	1
RpMCH	0
CMCH	5
Cumulative Total	7

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

Age group (in months)	Rotavirus		
	AGE (N=601)	Sampled (N=150)	Positive (%) (N=101)
0-5	53	10	4(40.00)
6-11	241	73	50(68.49)
12-17	162	45	32(71.11)
18-23	49	8	5(62.50)
24-59	96	14	10(71.43)
Cumulative Total	601	150	101(67.33)

*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 March 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

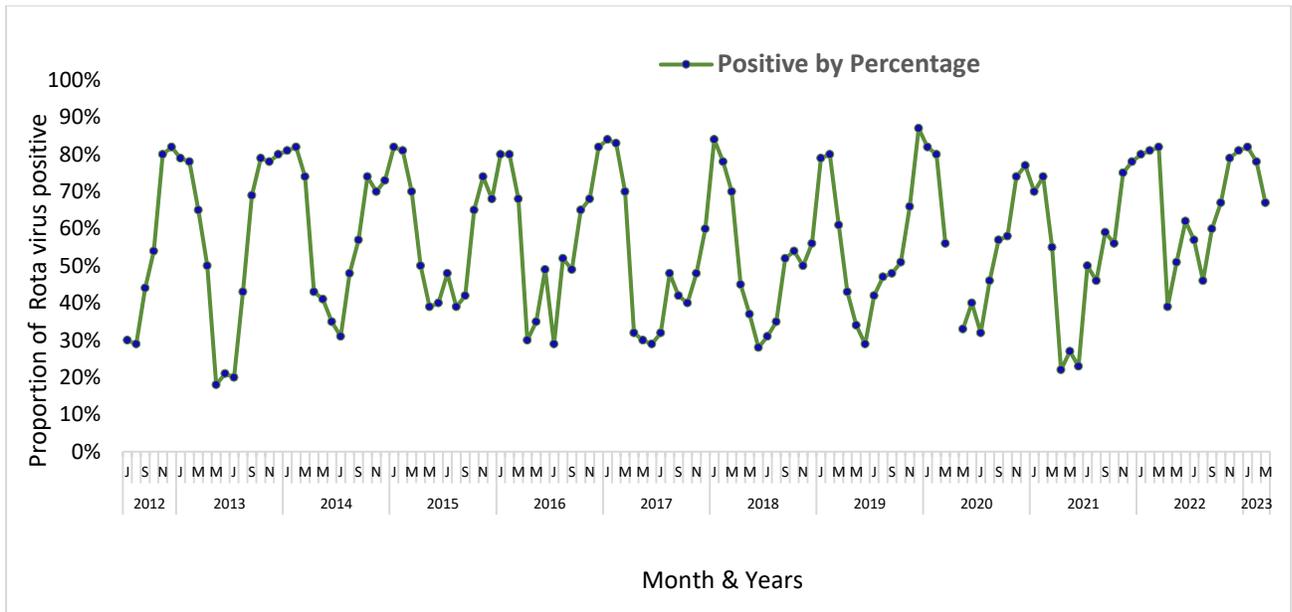
◆ Distribution of acute gastroenteritis (AGE) and rotavirus cases by sex during March 2023

Sex	AGE	Sampled	Positive (%)
Male	352	90	65(72.22)
Female	249	60	36(60.00)

◆ Distribution of intussusception cases by sex during March 2023

Sex	Intussusception confirmed
Male	3
Female	4

◆ 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 March '23)

Hospital	RMCH		JIMCH		JRRMCH		JGH		SBMCH		RpMCH		CMCH		Total Cases		
	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
Total	67	57	57	44	32	19	90	71	91	65	88	68	74	57	499	381	76.35

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

Hospital Name	Rotavirus			
	AGE	Sampled	Positive (%)	Rotavirus associated deaths
RMCH	16900	4128	2520(61%)	3
JIMCH	9676	2414	1556(64%)	1
JRRMCH	8488	2104	1392(66%)	-
LAMB	178	142	95(63%)	1
BBMH	2155	532	335(63%)	-
JGH	6160	1547	920(59%)	-
SBMCH	13092	3278	2113(64%)	-
RpMCH	5035	1253	772(62%)	-
CMCH	3456	868	533(61%)	-
Cumulative Total	62557	16070	9856(61%)	5**

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

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

Hospital Name	Intussusception confirmed
RMCH	266
JIMCH	27
JRRMCH	66
LAMB	-
BBMH	10
JGH	8
SBMCH	52
RpMCH	88
CMCH	195
Cumulative Total	751