



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

Monthly Report, April 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 April 2023 by hospital

Hospital Name	Rotavirus		
	AGE*	Sampled**	Positive (%)
RMCH	68	17	11(64.71)
JIMCH	44	11	4(36.36)
JRRMCH	20	5	2(40.00)
JGH	60	15	6(40.00)
SBMCH	100	25	15(60.0)
RpMCH	52	13	6(46.15)
CMCH	84	21	8(38.10)
Cumulative Total	428	107	52(48.60)

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

Hospital Name	Intussusception confirmed***
RMCH	1
JIMCH	0
JRRMCH	1
JGH	0
SBMCH	1
RpMCH	0
CMCH	0
Cumulative Total	3

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

Age group (in months)	Rotavirus		
	AGE (N=428)	Sampled (N=107)	Positive (%) (N=52)
0-5	44	11	3(27.27)
6-11	154	39	19(48.72)
12-17	99	33	20(60.61)
18-23	48	11	6(54.55)
24-59	83	13	4(30.77)
Cumulative Total	428	107	52(48.60)

*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 April 2023

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

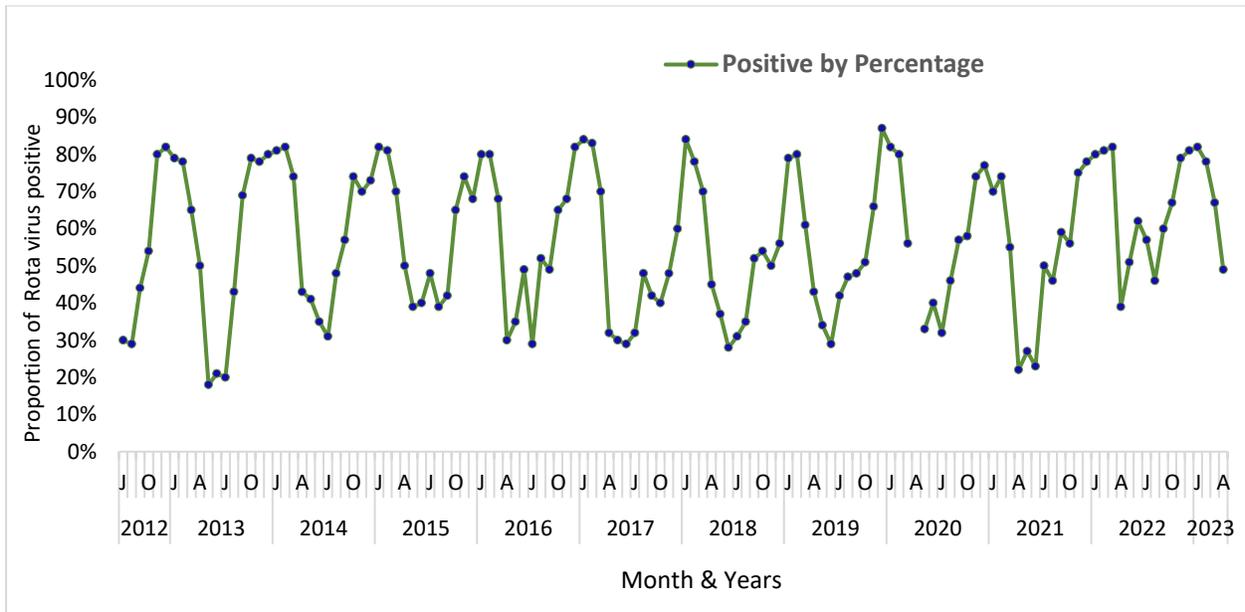
◆ Distribution of acute gastroenteritis (AGE) and rotavirus cases by sex during April 2023

Sex	AGE	Sampled	Positive (%)
Male	274	77	40(51.95)
Female	154	30	12(40.00)

◆ Distribution of intussusception cases by sex during April 2023

Sex	Intussusception confirmed
Male	2
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 April '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
Apr'23	17	11	11	4	5	2	15	6	25	15	13	6	21	8	107	52	48.60
Total	84	68	68	48	37	21	105	77	116	80	101	74	95	65	606	433	71.45

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

Hospital Name	Rotavirus			
	AGE	Sampled	Positive (%)	Rotavirus associated deaths
RMCH	16968	4145	2531(61%)	3
JIMCH	9720	2425	1560(64%)	1
JRRMCH	8508	2109	1394(66%)	-
LAMB	178	142	95(63%)	1
BBMH	2155	532	335(63%)	-
JGH	6220	1562	926(59%)	-
SBMCH	13192	3303	2128(64%)	-
RpMCH	5087	1266	778(61%)	-
CMCH	3540	889	541(61%)	-
Cumulative Total	62985	16177	9908(61%)	5**

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

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

Hospital Name	Intussusception confirmed
RMCH	267
JIMCH	27
JRRMCH	67
LAMB	-
BBMH	10
JGH	8
SBMCH	53
RpMCH	88
CMCH	195
Cumulative Total	754