



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 2024



◆ 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 2024 by hospital

Hospital Name	Rotavirus		
	AGE*	Sampled	Positive (%)
RMCH	99	24	10(41.67)
JIMCH	48	12	3(25.00)
JRRMCH	32	8	3(37.50)
JGH	64	16	8(50.00)
SBMCH	140	35	19(54.29)
RpMCH	96	24	7(29.71)
CMCH	100	25	7(28.00)
Cumulative Total	579	144	57(39.58)

◆ Number of intussusception cases aged <2 years during April 2024 by hospital

Hospital Name	Intussusception confirmed***
RMCH	2
JIMCH	0
JRRMCH	0
JGH	0
SBMCH	2
RpMCH	2
CMCH	6
Cumulative Total	12

◆ Distribution of acute gastroenteritis (AGE) & rotavirus cases by age group during April 2024

Age group (in months)	Rotavirus		
	AGE (N=579)	Sampled (N=144)	Positive (%) (N=57)
0-5	50	16	3(18.75)
6-11	240	71	28(39.44)
12-17	145	37	19(51.35)
18-23	61	14	6(42.86)
24-59	83	6	1(16.67)
Cumulative Total	579	144	57(39.58)

*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 2024

Age group (in months)	Intussusception confirmed
0-5	2
6-11	8
12-17	2
18-23	0
24-59	0
Cumulative Total	12

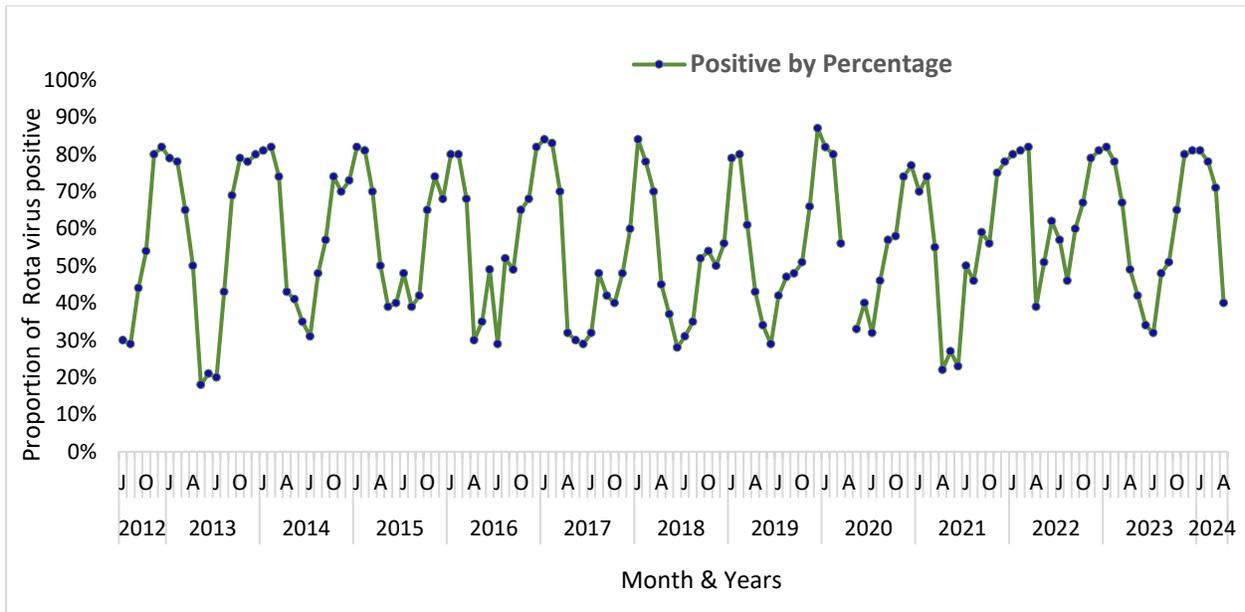
◆ Distribution of acute gastroenteritis (AGE) and rotavirus cases by sex during April 2024

Sex	AGE	Sampled	Positive (%)
Male	342	90	39(43.33)
Female	237	54	18(33.33)

◆ Distribution of intussusception cases by sex during April 2024

Sex	Intussusception confirmed
Male	8
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 '24 to April'24)

Hospital	RMCH		JIMCH		JRRMCH		JGH		SBMCH		RpMCH		CMCH		Total Cases		
	Sampled	Positive	Sampled	Positive	%												
Jan'24	26	21	21	17	12	10	23	20	34	27	36	28	35	29	187	152	81.28
Feb'24	29	23	18	16	8	4	25	19	34	23	37	33	31	24	182	142	78.02
Mar'24	32	21	20	14	9	7	27	22	31	21	32	26	26	14	177	125	70.62
Apr'24	24	10	12	3	8	3	16	8	35	19	24	7	25	7	144	57	39.58
Total	111	75	71	50	37	24	91	69	134	90	129	94	117	74	690	476	68.98

◆ 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'24

Hospital Name	Rotavirus			
	AGE	Sampled	Positive (%)	Rotavirus associated deaths
RMCH	17856	4369	2667(61%)	3
JIMCH	10485	2619	1697(65%)	1
JRRMCH	8855	2195	1443(66%)	-
LAMB	178	142	95(63%)	1
BBMH	2155	532	335(63%)	-
JGH	6900	1734	1044(60%)	-
SBMCH	14590	3658	2350(64%)	-
RpMCH	6001	1499	928(62%)	-
CMCH	4760	1188	728(61%)	-
Cumulative Total	71780	17931	10885 (61%)	5**

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

◆ Number of intussusception cases aged < 2 years by hospital July'12 to April '24

Hospital Name	Intussusception confirmed
RMCH	286
JIMCH	30
JRRMCH	68
LAMB	-
BBMH	10
JGH	10
SBMCH	62
RpMCH	95
CMCH	243
Cumulative Total	842