



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

Monthly Report, August 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 August 2024 by hospital

Hospital Name	Rotavirus		
	AGE*	Sampled	Positive (%)
RMCH	67	16	3(18.75)
JIMCH	48	12	5(41.67)
JRRMCH	28	7	4(57.14)
JGH	21	6	0(0)
SBMCH	64	16	11(68.75)
RpMCH	36	9	1(11.11)
CMCH	96	24	10(41.67)
Cumulative Total	360	90	34(37.78)

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

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

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

Age group (in months)	Rotavirus		
	AGE (N=358)	Sampled (N=90)	Positive (%) (N=34)
0-5	54	13	4(30.77)
6-11	139	47	18(38.30)
12-17	67	13	8(61.54)
18-23	36	6	2(33.33)
24-59	62	11	2(18.18)
Cumulative Total	358	90	34(37.78)

*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 August 2024

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

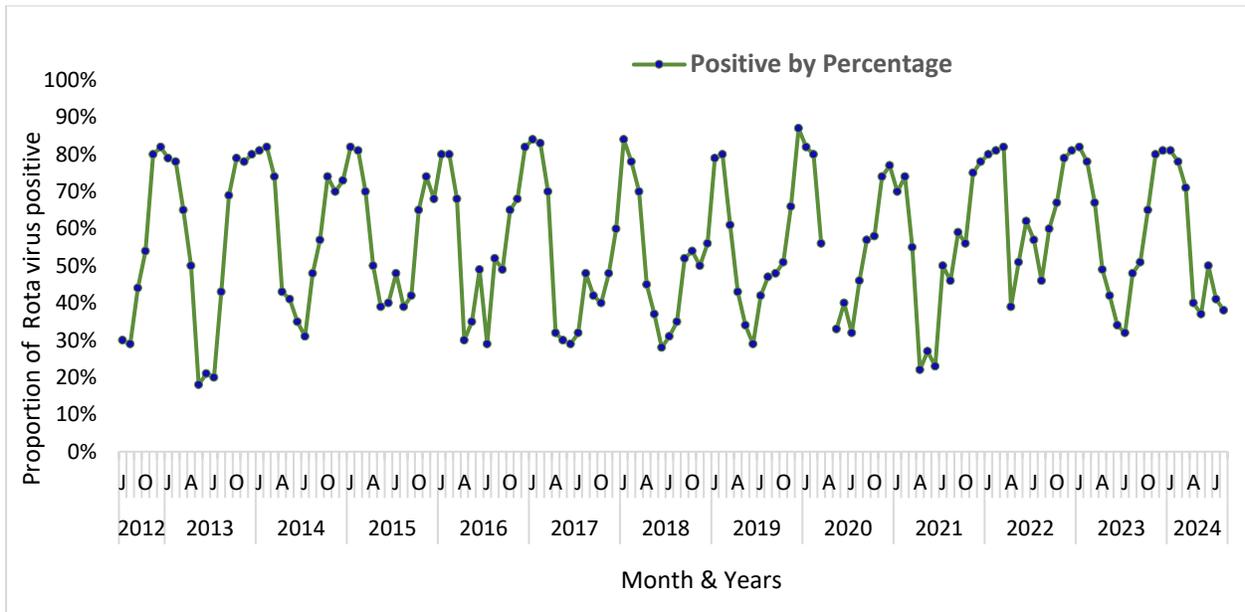
◆ Distribution of acute gastroenteritis (AGE) and rotavirus cases by sex during August 2024

Sex	AGE	Sampled	Positive (%)
Male	228	53	18(33.96)
Female	130	37	16(43.24)

◆ Distribution of intussusception cases by sex during August 2024

Sex	Intussusception confirmed
Male	5
Female	2

◆ 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 August'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
May'24	24	7	12	4	6	0	10	5	31	23	19	2	25	6	127	47	37.01
Jun'24	15	3	12	3	6	1	6	3	34	27	12	6	19	9	104	52	50.00
Jul'24	15	5	11	7	6	2	4	2	15	7	11	0	20	11	82	34	41.46
Aug'24	16	3	12	5	7	4	6	0	16	11	9	1	24	10	90	34	37.78
Total	181	93	118	69	62	31	117	79	230	158	180	103	205	110	1093	643	58.82

◆ Proportion of children aged < 5 years with acute gastroenteritis (AGE) with evidence of rotavirus infection including number of deaths by hospital July'12 to August '24

Hospital Name	Rotavirus			
	AGE	Sampled	Positive (%)	Rotavirus associated deaths
RMCH	18137	4439	2685(60%)	3
JIMCH	10669	2656	1716(65%)	1
JRRMCH	8951	2220	1450(65%)	-
LAMB	178	142	95(63%)	1
BBMH	2155	532	335(63%)	-
JGH	7000	1760	1059(60%)	-
SBMCH	14970	3754	2418(64%)	-
RpMCH	6215	1552	937(60%)	-
CMCH	5096	1276	764(60%)	-
Cumulative Total	73371	18334	11052(60%)	5**

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

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

Hospital Name	Intussusception confirmed
RMCH	291
JIMCH	34
JRRMCH	69
LAMB	-
BBMH	10
JGH	12
SBMCH	64
RpMCH	97
CMCH	259
Cumulative Total	874