



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

Monthly Report, November 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 November 2023 by hospital

Hospital Name	Rotavirus		
	AGE*	Sampled	Positive (%)
RMCH	76	19	17(89.47)
JIMCH	95	24	19(79.17)
JRRMCH	48	12	8(66.67)
JGH	60	15	11(73.33)
SBMCH	124	31	24(77.42)
RpMCH	84	21	19(90.48)
CMCH	120	30	24(80.00)
Cumulative Total	607	152	122(80.26)

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

Hospital Name	Intussusception confirmed***
RMCH	2
JIMCH	0
JRRMCH	0
JGH	0
SBMCH	0
RpMCH	0
CMCH	5
Cumulative Total	7

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

Age group (in months)	Rotavirus		
	AGE (N=607)	Sampled (N=152)	Positive (%) (N=122)
0-5	53	9	8(88.89)
6-11	223	67	54(80.60)
12-17	165	48	40(83.33)
18-23	66	12	11(91.67)
24-59	100	16	9(56.25)
Cumulative Total	607	152	122(80.26)

*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 November 2023

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

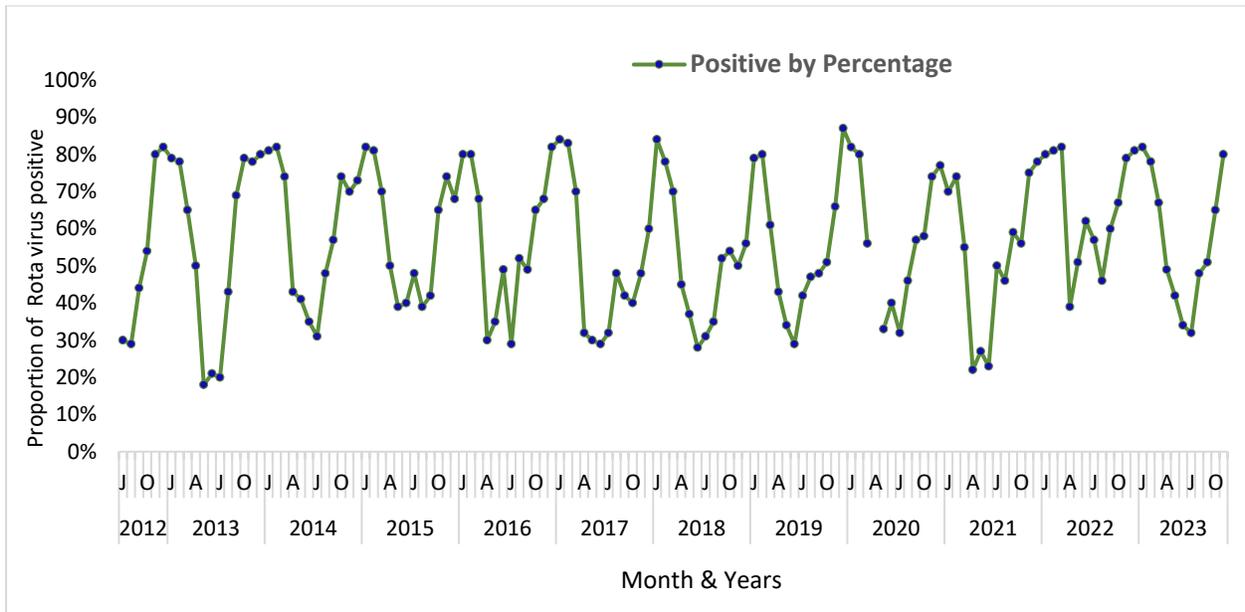
◆ Distribution of acute gastroenteritis (AGE) and rotavirus cases by sex during November 2023

Sex	AGE	Sampled	Positive (%)
Male	387	99	80(80.81)
Female	220	53	42(79.25)

◆ Distribution of intussusception cases by sex during November 2023

Sex	Intussusception confirmed
Male	5
Female	7

◆ 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 November '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
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
Oct'23	16	9	14	10	6	4	11	7	24	16	7	6	22	13	100	65	65.00
Nov'23	19	17	24	19	12	8	15	11	31	24	21	19	30	24	152	122	80.26
Total	183	116	162	109	77	38	163	107	308	189	180	112	257	146	1333	817	61.19

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

Hospital Name	Rotavirus			
	AGE	Sampled	Positive (%)	Rotavirus associated deaths
RMCH	17372	4244	2579(61%)	3
JIMCH	10095	2519	1621(64%)	1
JRRMCH	8668	2149	1411(66%)	-
LAMB	178	142	95(63%)	1
BBMH	2155	532	335(63%)	-
JGH	6464	1623	956(59%)	-
SBMCH	13960	3495	2237(64%)	-
RpMCH	5404	1345	816(61%)	-
CMCH	4188	1041	622(60%)	-
Cumulative Total	65901	17084	10282 (60%)	5**

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

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

Hospital Name	Intussusception confirmed
RMCH	280
JIMCH	27
JRRMCH	68
LAMB	-
BBMH	10
JGH	8
SBMCH	54
RpMCH	92
CMCH	214
Cumulative Total	792