



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

Monthly Report, December 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 December 2023 by hospital

Hospital Name	Rotavirus		
	AGE*	Sampled	Positive (%)
RMCH	60	14	13(92.86)
JIMCH	116	29	26(89.66)
JRRMCH	40	10	8(80.00)
JGH	80	20	17(85.00)
SBMCH	116	29	23(79.31)
RpMCH	101	25	18(72.00)
CMCH	120	30	22(73.33)
Cumulative Total	633	157	127(80.89)

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

Hospital Name	Intussusception confirmed***
RMCH	2
JIMCH	0
JRRMCH	0
JGH	2
SBMCH	2
RpMCH	0
CMCH	2
Cumulative Total	8

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

Age group (in months)	Rotavirus		
	AGE (N=633)	Sampled (N=157)	Positive (%) (N=127)
0-5	41	10	6(60.00)
6-11	222	58	46(79.31)
12-17	219	60	50(83.33)
18-23	60	19	16(84.21)
24-59	91	10	9(90.00)
Cumulative Total	633	157	127(80.89)

*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 December 2023

Age group (in months)	Intussusception confirmed
0-5	3
6-11	2
12-17	2
18-23	1
24-59	0
Cumulative Total	8

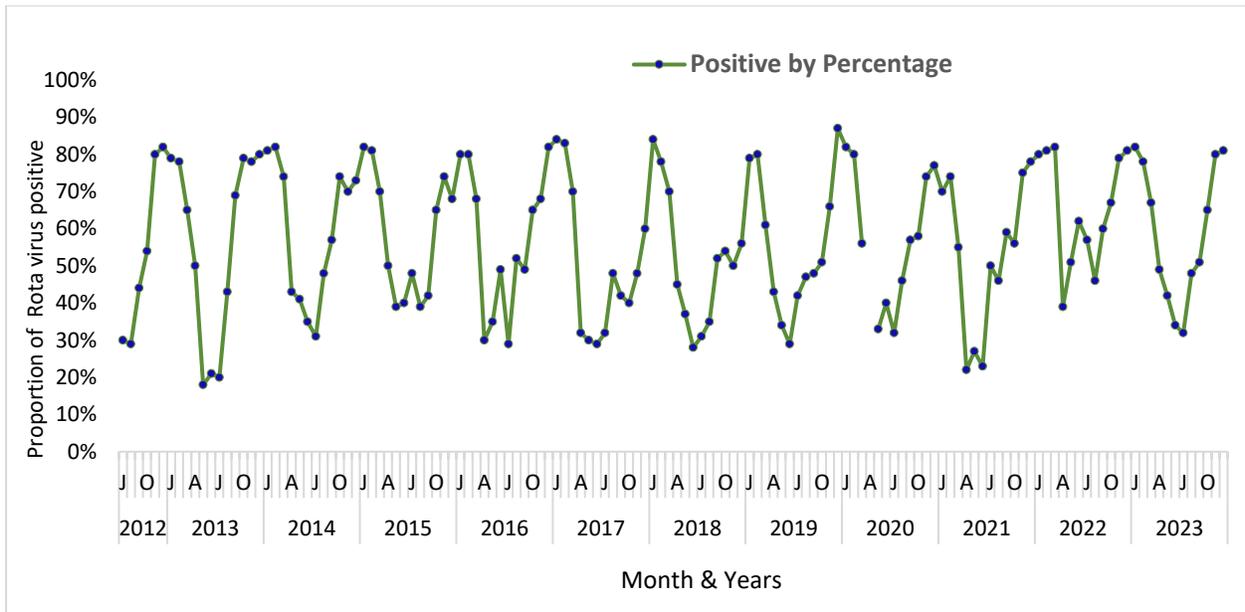
◆ Distribution of acute gastroenteritis (AGE) and rotavirus cases by sex during December 2023

Sex	AGE	Sampled	Positive (%)
Male	386	95	76(80.00)
Female	247	62	51(82.26)

◆ Distribution of intussusception cases by sex during December 2023

Sex	Intussusception confirmed
Male	7
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 December '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
Dec'23	14	13	29	26	10	8	20	17	29	23	25	18	30	22	157	127	80.89
Total	197	129	191	135	87	46	183	124	337	212	205	130	287	168	1490	944	63.35

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

Hospital Name	Rotavirus			
	AGE	Sampled	Positive (%)	Rotavirus associated deaths
RMCH	17432	4258	2592(61%)	3
JIMCH	10211	2548	1647(65%)	1
JRRMCH	8708	2159	1419(66%)	-
LAMB	178	142	95(63%)	1
BBMH	2155	532	335(63%)	-
JGH	6544	1643	973(59%)	-
SBMCH	14076	3524	2260(64%)	-
RpMCH	5505	1370	834(61%)	-
CMCH	4308	1071	644(60%)	-
Cumulative Total	66534	17241	10409 (60%)	5**

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

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

Hospital Name	Intussusception confirmed
RMCH	282
JIMCH	27
JRRMCH	68
LAMB	-
BBMH	10
JGH	10
SBMCH	56
RpMCH	92
CMCH	216
Cumulative Total	800