

Surveillance report of rotavirus diarrhoea at the Lady Ridgeway Hospital conducted by the Epidemiology Unit of the Ministry of Health with International Vaccine Institute , Seoul , Korea

**Surveillance site:** Lady Ridgeway Hospital, Colombo

Study coordinators:

- Dr. P. R .Wijesinghe – Surveillance coordinator
- Dr. Shanthimala De Silva – Clinical co-ordinator
- Dr.Geethani Galagoda - Microbiological coordinator

**Objectives of surveillance:**

- To describe patterns of rota virus hospitalizations among children less than five years of age in Colombo District
- To describe patterns of G & P types in rotavirus strains available

**Results:**

- No of under five children enrolled and tested at the LRH - 1806
- Number of children tested for rota virus - 428
- Rotavirus positivity rate - 23.7%

**Table 1: Age distribution of rota virus patients enrolled at the LRH**

<b>Age group</b>	<b>Eligible</b>	<b>Enrolled &amp; tested</b>	<b>Rota virus positive (%)</b>
0-2 months	84	77	08 (10.4%)
3-5 months	292	275	40 (14.5%)
6-11 months	702	666	180(27.0%)
12-23 months	435	408	114(27.9%)
24-35 months	190	179	47 (26.3%)
36-47 months	116	112	25(22.3%)
48-59 months	97	89	14 (15.7%)
<b>Total</b>	<b>1916</b>	<b>1806</b>	<b>428 (23.7%)</b>

**Table 2 : Clinical characteristics of rotavirus patients enrolled at eth LRH**

<b>Characteristic</b>	<b>Rotavirus positive (%)</b>	<b>Rotavirus negative (%)</b>
<b><u>Temperature</u></b>		
No fever	175 (40.6%)	613 (44.5%)
37.5 C	154 (36.0%)	437(31.7%)
37.6-38.6	40 (9.3%	119 (8.6%)
≥ 38.7	59(13.8%)	209 (15.2%)
<b><u>dehydration</u></b>		
None	263 (61.4%)	1057 (76.7%)
Some	162 (37.9%)	313(22.7%)
Severe	03(0.7%)	08 (0.6%)
<b><u>Length of stay</u></b>		
≤ 2 days	300 (70.1%)	893 (64.8%)
3-6 days	32 (7.5%)	70 (5.1%)
> 6 days	05(1.2%)	13 (0.9%)
OPD	91(21.3%)	402 (29.2%)
<b><u>Diarrhoea duration</u></b>		
≤3 days	238(55.6%)	751(54.5%)
3-5 days	143(33.4%)	418 (30.3%)
> 5 days	46(11.0%)	207 (15.2%)
<b><u>Duration of vomiting</u></b>		
No vomiting	149 (34.8%)	847 (61.5%)
< 3 days	221(51.6%)	436 (31.6%)
≥3 days	58(13.6%)	95 (6.9%)
<b><u>Treatment</u></b>		
Oral Rehydration Solution (ORS)	299(69.9%)	1080(78.4%)
ORS + intravenous fluid	67(15.7%)	88 (6.4%)
ORS & antibiotics	21(4.9%)	79 (5.7%)
Others	175 (9.5%)	131 (9.5%)

**Table 3: Strain characterization of Rota virus detected at the LRH**

<b>Type</b>	<b>G1</b>	<b>G2</b>	<b>G3</b>	<b>G4</b>	<b>G9</b>	<b>Mixed</b>	<b>NT</b>	<b>Total</b>
<b>P4</b>	0	4	0	0	0	0	1	<b>5</b>
<b>P6</b>	0	0	0	0	0	0	1	<b>1</b>
<b>P8</b>	6	0	17	0	14	4	13	<b>54</b>
<b>P9</b>	0	0	0	0	0	0	0	<b>0</b>
<b>Mixed</b>	0	0	0	0	0	0	0	<b>0</b>
<b>NT</b>	3	3	13	0	14	0	0	<b>33</b>
<b>Total</b>	<b>9</b>	<b>7</b>	<b>30</b>	<b>0</b>	<b>28</b>	<b>4</b>	<b>15</b>	<b>93</b>

**Source:** Epidemiology Unit, Ministry of Health Care and Nutrition