

WEEKLY EPIDEMIOLOGICAL REPORT

A publication of the Epidemiology Unit Ministry of Health, Nutrition & Indigenous Medicine

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Vol. 44 No. 35

26th- 01st September 2017

Outbreak of hand foot and mouth disease in Sri Lanka

Introduction

Hand, foot and mouth disease (HFMD) is a common infectious disease among infants and children, but may also occur in adults too. HFMD is most commonly caused by coxsackievirus A16, which usually results in a mild self-limiting disease with few complications and also by Enteroviruses, including enterovirus 71 (EV71) which has been associated with serious complications. Other enteroviruses such as polioviruses, coxsackieviruses and echoviruses also can cause HFMD.

HFMD spread from person to person by direct contact with the infectious viruses that cause this disease which are found in the nose and throat secretions. The infected are most contagious during the first week of the illness but can remain in the body for weeks even after the cure. Infection results in immunity to the specific virus, but a second episode may occur following infection with a different virus belonging to another enterovirus group.

Epidemiology

The disease occurs worldwide; both sporadically and in epidemics. Even though several outbreaks of HFMD had been reported from time to time it is not a notifiable disease in Sri Lanka. An outbreak of HFMD reported in the year 2000 to the Epidemiology Unit revealed that there were 1468 cases from OPDs in 12 districts in the country within two weeks in October and out of which 70% of cases were from Colombo district. In the same year 447 cases were reported with 114 hospitalizations during the month of November. However no severe complications or deaths were reported.

Mode of transmission

HFMD is moderately contagious. An infected person is most contagious during the first week of the illness. The virus can be transmitted from person to person via direct contact with an infected person's saliva, fluid from blisters, faeces and respiratory droplets sprayed into the air after coughing or sneezing. It also can spread via direct contact with unwashed hands or a surface containing traces of the virus. The virus may continue to be excreted in the stools of infected persons up to 1 month, but will not transmitted to or from pets or other animals.

Clinical features

The disease begins with a mild fever, malaise and sometimes followed by a sore throat after 3 – 5 days of incubation period. One to two days after the onset of fever, small red spots occur in the mouth which are usually located on the buccal surfaces of the cheeks, gums and may be even sides of the tongue.

At the same time, a non- pruritic vesicular rash will develop specially on the palms, fingers and the soles of the feet. The lesions could appear on the back of the elbows, front of knees and even on the buttocks which will last for 7-10 days. The disease may only have either rash or the oral lesions.

Complications

HFMD caused by coxsackievirus A16 infection is typically mild disease and usually all patients recover within 7 to 10 days with relatively less complications. In contrast, HFMD caused by Enterovirus EV71, may be associated with neu-

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rological complications such as aseptic meningitis and encephalitis.

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Diagnosis

The diagnosis is usually clinical based by the appearance of the vesicular rash on the hands, foot and mouth in a mildly febrile child. However, the oral lesions need to be differentiated from other conditions causing oral lesions such as Herpes Simplex. On the other hand, there are standard methods available to confirm the diagnosis based on cell culture, virus isolation and identification of enteroviruses from stools, CSF and swabs of oral ulcers or vesicular lesions.

Treatment

There are no specific antiviral drugs or vaccines available against HFMD. The risk of infection can be lowered by good hygienic practices, early diagnosis and prompt medical attention for children showing symptoms. Symptomatic treatment is recommended with adequate intake of fluids to relieve fever and pain from mouth ulcers resulting in painful swallowing.

Prevention

Frequent hand washing with soap and clean water by children and care givers, avoiding close contact (kissing, hugging, sharing utensils, etc.) with children with HFMD, avoid sharing of spoons, towels, cups, etc., cleaning of contaminated surfaces and soiled items with soap and water, maintain cleanliness of house, child care center, kindergartens or schools and its surroundings may help to reduce of the risk of infection and transmission.

At the same time, keeping infants and sick children away from kindergarten, nursery, school or gatherings until they are well, covering mouth and nose when coughing or sneezing and disposing of used tissues into waste bins that closed properly are also important measures in preventing an outbreak.

On the other hand, the community should be educated in close monitoring of the sick children and to seek prompt medical attention if persistence of high fever, decrease in alertness or deterioration in general condition occurs.

Sources

https://www.omicsonline.org/.../hand-foot-and-mouth-disease-2155-95381000137.pdf
www.wpro.who.int/publications/docs/
GuidancefortheclinicalmanagementofHFMD.pdf

www.epid.gov.lk/web/

Table 1: Selected notifiable diseases reported by Medical Officers of Health 19th-25th August 2017 (34thWeek)

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00	<u>*</u>	100	100	66	98	100	100	100	100	100	88	100	100	96	66	100	100	97	100	100	66	96	97	100	66	100	66	98
WRCD	*	21	9	н	13	12	54	16	10	0	41	22	16	12	œ	22	32	19	9	6	7	4	œ	56	6	6	12	12
Leishmania- sis	æ	₩	7	₩	10	2	0	1	207	102	0	7	0	6	₩	₩	т	6	115	3	185	96	12	15	17	6	0	806
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	a	22	25	103	78	49	36	51	18	9	31	∞	0	2	2	22	34	18	54	38	52	12	148	49	133	25	17	1013
Meningitis	4	7	7	က	0	Н	н	0	П	0	0	0	0	0	0	П	т	0	m	1	С	0	13	П	П	7	Π	39
Chickenpox	<u>~</u>	267	208	404	186	39	259	304	152	178	151	က	13	22	15	135	157	111	405	116	318	174	282	70	233	206	116	4524
	⋖	6	П	11	4	П	က	2	0	9	4	0	0	П	0	7	∞	2	10	4	т	0	9	7	0	c	П	88
	В	0	П	₩	П	0	0	1	1	н	0	0	0	0	н	1	0	0	7	0	П	0	н	Н	0	0	0	13
Human Rabies	∢	0	0	Н	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Viral Hepatitis	<u>a</u>	12	13	5	10	7	18	4	7	9	m	7	0	1	Π'	4	m	17	16	1	10	7	25	17	61	11	2	290
He <	⋖	0	0	-	0	-	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	က	0	0	œ
Typhus Fever	ω	2	10	9	102	2	142	45	45	20	400	12	2	7	4	0	П	12	24	11	15	7	82	95	23	09	0	1129
TY A	⋖	0	П	0	7	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	7	1	m	က	П	1	0	19
Leptospirosi s	В	81	40	199	38	30	41	239	42	150	26	m	7	24	15	20	14	18	23	22	22	32	81	101	443	29	8	1846
Lept	∢	9	0	7	П	0	4	7	0		7	0	0	0	0	0	7	1	П	1	0	1	6	က	7	œ	0	26
Food Poisoning	В	31	8	20	10	6	20	15	17	2	25	н	П	9	2	20	0	20	17	6	12	9	7	6	8	17	280	099
Pois	⋖	2	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	3	0	5	0	0	0	0	0	0	2	17
Enteric Fever	В	25	16	15	5	П	28	16	7	7	30	11	7	30	4	13	П	2	က	2	1	6	7	н	6	4	4	251
Ent	∢	Н	0	Н	0	0	н	3	0	0	0	П	0	0	0	0	0	0	0	0	0	0	0	0	П	0	0	œ
Encephaliti s	В	က	12	3	4	4	œ	12	9	8	13	1	0	0	2	8	2	2	9	2	3	2	7	က	69	10	4	197
Encel	⋖	0	0	0	0	П	0	1	0	0	н	0	0	0	0	0	0	0	0	0	0	0	0	0	0	П	0	4
Dysentery	a	45	25	44	22	17	70	41	17	27	203	13	Ŋ	13	∞	68	19	18	22	33	30	12	74	44	115	30	63	1115
Dyse	⋖	Н	н		0	0	н	1	0	7	11	0	0	0	0	4	7	0	П	1	0	0	4	7	4	0	Η	37
Dengue Fever	В	29467	27294	8765	9931	2397	765	5094	2742	5391	3720	411	504	645	282	4496	738	4603	9016	4749	2376	1107	2875	1962	9696	8029	2073	149128
Dengu	⋖	397	382	223	344	45	22	127	29	163	64	∞	4	4	16	37	56	14	246	199	34	7	89	29	256	395	25	3227
RDHS Division		Colombo	Gampaha	Kalutara	Kandy	Matale	NuwaraEliya	Galle	Hambantota	Matara	Jaffna	Kilinochchi	Mannar	Vavuniya	Mullaitivu	Batticaloa	Ampara	Trincomalee	Kurunegala	Puttalam	Anuradhapur	Polonnaruwa	Badulla	Monaragala	Ratnapura	Kegalle	Kalmune	SRILANKA

Source: esurveillance.epid.gov.lk
•T=Timeliness refers to returns received on or before 25"August , 2017 Total number of reporting units 344 Number of reporting units data provided for the current week: 342 C**-Completeness

Table 2: Vaccine-Preventable Diseases & AFP

19th- 25th August 2017 (34thWeek)

Disease				No. of Ca	ases by	Provinc	:e	Number of cases during current	Number of cases during same	Total number of cases to date in	Total num- ber of cases to date in	Difference between the number of cases to date			
	w	С	S	N	E	NW	NC	U	Sab	week in 2017	week in 2016	2017	2016	in 2017 & 2016	
AFP*	01	00	00	00	00	00	01	00	00	02	03	47	49	- 4.0%	
Diphtheria	00	00	00	00	00	00	00	00	00	00	00	00	00	0%	
Mumps	01	00	00	00	00	00	02	00	00	03	06	219	275	- 20.3%	
Measles	00	01	00	01	02	00	01	01	00	06	00	165	312	- 47.1%	
Rubella	00	00	00	00	00	01	00	00	00	01	00	06	07	- 14.2%	
CRS**	00	00	00	00	00	00	00	00	00	00	00	01	00	0%	
Tetanus	00	00	00	00	00	00	00	00	00	00	00	11	07	57.1%	
Neonatal Teta- nus	00	00	00	00	00	00	00	00	00	00	00	00	00	0%	
Japanese En- cephalitis	00	00	00	00	00	00	00	00	00	00	01	21	13	61.5%	
Whooping Cough	00	00	00	01	00	00	00	00	00	00	00	11	46	- 76.0%	
Tuberculosis	27	16	11	02	15	14	05	09	10	109	202	5527	6263	-11.7%	

Key to Table 1 & 2

Provinces: W: Western, C: Central, S: Southern, N: North, E: East, NC: North Central, NW: North Western, U: Uva, Sab: Sabaragamuwa.

RDHS Divisions: CB: Colombo, GM: Gampaha, KL: Kalutara, KD: Kandy, ML: Matale, NE: Nuwara Eliya, GL: Galle, HB: Hambantota, MT: Matara, JF: Jaffna,

KN: Killinochchi, MN: Mannar, VA: Vavuniya, MU: Mullaitivu, BT: Batticaloa, AM: Ampara, TR: Trincomalee, KM: Kalmunai, KR: Kurunegala, PU: Puttalam,

AP: Anuradhapura, PO: Polonnaruwa, BD: Badulla, MO: Moneragala, RP: Ratnapura, KG: Kegalle.

Data Sources:

Weekly Return of Communicable Diseases: Diphtheria, Measles, Tetanus, Neonatal Tetanus, Whooping Cough, Chickenpox, Meningitis, Mumps., Rubella, CRS,

Special Surveillance: AFP* (Acute Flaccid Paralysis), Japanese Encephalitis

CRS** =Congenital Rubella Syndrome

Number of Malaria Cases Up to End of August 2017,

All are Imported!!!

PRINTING OF THIS PUBLICATION IS FUNDED BY THE WORLD HEALTH ORGANIZATION (WHO).

Comments and contributions for publication in the WER Sri Lanka are welcome. However, the editor reserves the right to accept or reject items for publication. All correspondence should be mailed to The Editor, WER Sri Lanka, Epidemiological Unit, P.O. Box 1567, Colombo or sent by E-mail to chepid@sltnet.lk. Prior approval should be obtained from the Epidemiology Unit before publishing data in this publication

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