

WEEKLY EPIDEMIOLOGICAL REPORT

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, SRI LANKA 2022

Hand-foot-and-mouth disease (HFMD)

Hand-foot-and-mouth disease (HFMD) is mainly an illness in infants and children. It is caused by a group of enteroviruses. It is different to hoof-and-mouth disease in cattle, sheep and swine mainly due to the causative agent.

among children under 10 years of age. However, adult cases are not unusual and young adults also are affected.

04th- 10th June 2022

Mode of Transmission

Infectious Agent

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Several different viruses act as a causative agents for Hand-foot-and-mouth disease. The main aetiological agent is Coxsackie Group A type 16. Coxsackievirus is a subgroup of the enteroviruses and is a member of the family Picornaviridae. Coxsackievirus A types 4, 5, 9 and 10 are also known to cause Hand-foot-and-mouth disease occasionally. Enterovirus 71 and Coxsackie virus types 2 and 5 have also been implicated in cases as well as outbreaks of Hand-foot-and-mouth disease.

Reservoir

Humans are the only known reservoir for the Coxsackie virus.

Occurrence

The disease occurs worldwide both sporadically and in epidemics. It is seen mainly Hand-foot-and-mouth disease is moderately contagious. The disease spreads through direct contact with aerosol droplets, nasal discharge, throat secretions, faeces and vesicular fluids of infected per-

sons. It can also spread through indirect contact with articles contaminated by the secretions of infected patients. Reliable evidence of spread via pets, insects, water and food is not available.

Incubation Period

The incubation period of Hand-foot-andmouth disease usually ranges from 3-5 days.

Period of Communicability

An infected person is most contagious during the first week or the acute phase of the illness. However, this period of communicability may be longer, since the virus persists in stools for several weeks.

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Immunity

Infection results in immunity to the specific virus that caused the infection, but a second infection is possible from a different strain of the virus of the same enterovirus family.

Clinical Features

Hand-foot-and-mouth disease is an acute self-limiting disease characterized by fever, diffuse oral lesions and a vesicular skin rash. The disease begins with a mild fever, loss of appetite, malaise and frequently a sore throat. One or two days after the onset of fever, small red spots occur in the mouth, which develops into blisters and then often becomes ulcers. These lesions are usually found on the buccal surface of the cheeks, gums and sides of the tongue. Simultaneously, a non-pruritic vesicular rash develops over a day or two. This rash occurs mainly on the palms, fingers and soles of the feet. Occasionally, lesions may appear on the back of the elbows, front of the knees and the buttocks. This may be the reason for the nomenclature 'Hand-foot-mouth-butt disease'. The papulovesicular lesions may persist from 7 to 10 days. A person with Hand-foot-and-mouth disease may have only a rash or only mouth ulcers. The illness is typically mild and it usually resolves in 7-10 days.

Complications

Complications are rare. They include aseptic meningitis, encephalitis, paralytic disease and viral myocarditis. The dangerous symptoms and signs are neck pain, drowsiness, vomiting, persistently high fever and difficulty in breathing and signs of dehydration. Deaths from Handfoot-and-mouth disease have been reported. The victims were mainly young children.

Diagnosis

The diagnosis is mainly clinically based on the appearance of the vesicular rash on the hands, feet and mouth in a child with a mild febrile illness. However oral lesions should be differentiated from stomatitis caused by the herpes simplex virus, which is deeper, larger and more painful ulcerative lesions and commonly located in the anterior part of the mouth.

Laboratory Diagnosis

Specific laboratory tests are available to confirm the diagnosis. Stools are the most important specimen for virus isolation, as the virus content in stools is high and the period of viral excretion is long. Other specimens such as CSF and swabs from oral ulcers or vesicular skin lesions sent in an appropriate transport medium (Hank's virus transport medium) can also be used for virus isolation.

Treatment

There is no specific treatment for Hand-foot-and-mouth disease. Symptomatic treatment is given to provide relief from fever and pain from mouth ulcers. Salt water mouth rinses (half-teaspoon of salt to one glass of warm water) may be soothing if the child can rinse without swallowing. Although swallowing may be painful, the child should be encouraged to take adequate quantities of fluids to avoid dehydration.

Methods of Control

(1) General Preventive Measures Person-to-person contact should be restricted if possible and ventilation should be improved. Hand washing and other general personal hygienic measures should be promoted.

(2) Control of Infected Persons and Contacts Infected children should be kept away from childcare centres, schools and other crowded public places during the first few days of the illness. Nose and throat discharges of infected persons should be disinfected. Careful attention should be paid to prompt hand washing, especially after diaper changes and when handling discharges, faeces and soiled articles. Quarantine is not recommended. Specific immunization against the disease is not available

Compiled by Dr Alinda Perera Registrar in Community Medicine Epidemiology Unit, Ministry of Health

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Table 2: Vaccine-Preventable Diseases & AFP

04th– 10th Jun 2022

28th - 03rd Jun 2022 (22nd Week)

Disease		N	lo. of	Case	es by	y Pro	ovino	Number of cases during current	Number of cases during same	Total number of cases to	Total num- ber of cases to date in	Difference between the number of			
	w	С	S	N	Е	NW	NC	U	Sab	week in 2022	week in 2021	2022	2021	in 2022 & 2021	
AFP*	00	00	00	00	00	00	01	00	00	01	02	36	23	56.5 %	
Diphtheria	00	00	00	00	00	00	00	00	00	00	00	00	00	0 %	
Mumps	01	00	01	00	01	00	00	00	00	03	01	27	43	- 37.2 %	
Measles	00	00	00	00	00	00	00	00	00	00	00	12	09	33.3 %	
Rubella	00	00	00	00	00	00	00	00	00	00	00	00	00	0 %	
CRS**	00	00	00	00	00	00	00	00	00	00	00	00	00	0 %	
Tetanus	00	00	00	00	00	00	00	00	00	00	00	05	02	150 %	
Neonatal Tetanus	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	00	01	00	0 %	
Whooping Cough	00	00	00	00	00	00	00	00	00	00	00	01	00	0 %	
Tuberculosis	00	14	01	09	04	11	00	00	08	47	N / A	2807	2580	8.7 %	

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

NA = Not Available

Covid-19 Prevention & Control

For everyone's health & safety, maintain physical distance, often wash hands, wear a face mask and stay home.

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

ON STATE SERVICE

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