HAND, FOOT, AND MOUTH DISEASE

JOHNSON COUNTY HEALTH DEPARTMENT

AMBER TERHUNE, BSN, RN, HEALTH EDUCATOR

FEBRUARY 2020

ABOUT HFMD

NOT SAME AS FOOT (HOOF) AND MOUTH DISEASE



Coxsackievirus A16

It is a common cause. Its symptoms are not severe and infected people can recover by themselves.

Enterovirus 71

The incidences of HFMD resulting from this strain are infrequent but it brings about severe symptoms.

It spreads widely in the rainy season.

It normally strikes babies and children younger than 5 years old.

Generali. Hand-Foot-and-Mouth Disease: It Must be Controlled, n.d. https://generali.co.th/en/wellness-content/hand-foot-and-mouth-disease-en/

TRANSMISSION



MOST CONTAGIOUS FIRST 7 DAYS

- Direct contact
- Indirect contact
- May still be contagious after symptoms resolve

Positive Parenting. Hand, Foot and Mouth Disease (HFMD), 28 Jul. 2016. https://mypositiveparenting.org/2016/07/28/hand-foot-and-mouth-disease-hfmd/

SYMPTOMS

INCUBATION PERIOD 3-6 DAYS









Painful sores in the mouth



Skin rash with red spots and sometimes with blisters on the palms of the hands and soles of the feet, buttocks and genital area



Poor appetite



Lack of energy



DIAGNOSIS

PHYSICAL EXAMINATION / SYMPTOMS



Istock. Stool Sample, 24 Feb. 2017.

https://www.istockphoto.com/illustrations/stool-sample?sort=mostpopular&mediatype=illustration-phase=stool%20sample



NHS Gloucestershire Hospitals. Enterovirus PCR-Viral Swab (Hand, Foot, Mouth), n.d. https://www.gloshospitals.nhs.uk/our-services/services-we-offer/pathology/tests-and-investigations/enterovirus-pcr-viral-swab/



Shutterstock. Enterovirus Images, n.d. https://www.shutterstock.com/search/enterovirus

TREATMENT



NO SPECIFIC TREATMENT

- Treat symptoms
- Drink plenty of fluids
- Rest

Eicrasoft. Ayurvedic Medicine. Symptoms of Hand, Foot and Mouth Disease, 11 Jul. 2018. https://www.pharmacy.com.bd/blog/category/ayurvedic-medicine

RISK FACTORS

CHILDREN, ESPECIALLY IN DAYCARES AND SCHOOLS



CDC. Hand, Foot, and Mouth Disease (HFMD), 6 Dec. 2019. https://www.cdc.gov/hand-foot-mouth/index.html?CDC_AA_refVal=https://3A%2F%2Fwww.cdc.gov%2Fhand-foot-mouth%2Foutbreaks.html



COMPLICATIONS

RARELY:

- Lose nails
- Viral meningitis
- Encephalitis

Datuk Dr. Zulkifli Ismail. Positive Parenting. The Dangers of Dehydration in Children, 24 Dec. 2015. https://mypositiveparenting.org/2015/12/24/thedangers-of-dehydration-in-children/



WHEN TO SEE A DOCTOR



Chopra, Pavin. The Asian Parent Singapore. Why You Should Quarantine Your Kids at Home if They Have HFMD, n.d. https://sg.theasianparent.com/heres-why-you-should-quarantine-your-kids-at-home-if-they-have-hfmd/

SYMPTOMS WORSENING OR NOT IMPROVING

- Signs of complications
- Weakened immune system
- Very young child
- Pregnant woman

PREVENTION

NO VACCINE

Positive Parenting. Hand, Foot and Mouth Disease (HFMD), 28 Jul. 2016. https://mypositiveparenting.org/2016/07/28/hand-foot-and-mouth-disease-hfmd/



Avoid close contact with sick people



Cover your coughs & sneezes



Frequent hand washing with soap and water



Clean and disinfect surfaces (toys, eating utensils, toilet floor)



Stay at home if you are sick



Avoid touching your face with unwashed hands



Eat nutritious & balanced diet

REFERENCES

- Alli, MD, Renee A. "Facts About Hand-Foot-and-Mouth Disease." WebMD.com, 8 Sep. 2018. https://www.webmd.com/children/guide/hand-foot-mouth-disease#1. Accessed 26 Feb. 2020.
- Boskey, Marissa S. and Elizabeth. "Hand, Foot, and Mouth Disease." *Healthline.com*, 11 Feb. 2016. Reviewed by Mark R. Laflamme, MD. https://www.healthline.com/health/hand-foot-mouth-disease. Accessed 26 Feb. 2020.
- Centers for Disease Control and Prevention. "Hand, Foot, and Mouth Disease (HFMD)." CDC.gov, 6 Dec. 2019.

 https://www.cdc.gov/hand-foot-mouth/index.html?CDC AA refVal=https%3A%2F%2Fwww.cdc.gov%2Fhand-foot-mouth%2Foutbreaks.html. Accessed 26 Feb. 2020.
- Indiana State Department of Health. "Hand, Foot, and Mouth Disease (HFMD)." ISDH.IN.gov, 22 Jul. 2019. https://www.in.gov/isdh/25484.htm. Accessed 26 Feb. 2020.
- Mayo Clinic. "Hand-Foot-and Mouth Disease." MayoClinic.org, 26 Jul. 2017. https://www.mayoclinic.org/diseases-conditions/hand-foot-and-mouth-disease/symptoms-causes/syc-20353035. Accessed 26 Feb. 2020.
- NHS Inform. "Hand, Foot and Mouth Disease." NHSInform.Scot, 26 Feb. 2020. https://www.nhsinform.scot/illnesses-and-conditions/infections-and-poisoning/hand-foot-and-mouth-disease#prevention. Accessed 26 Feb. 2020.