

HAND, FOOT AND MOUTH DISEASE



Hand, foot and mouth disease
(HFMD) is a common viral infection
presenting as painful mouth sores
and rashes on hands and/or feet.
It mostly affects children
<7 years old, but can occur in all
ages. It is usually a self-limiting
illness, but highly contagious
occurring from spring to fall in

North America.

PRESENTATION

Symptoms may be more severe in infants and young children:

- Painful oral lesions
- o on tongue and buccal mucosa
- may occasionally be absent
- Maculopapular or papulovesicular rashes (fluid-filled blisters)
- on palms (most common) or soles
- can occur on knees, elbows, buttocks and/or genital area

12-36hr prodrome

- Fever
- Malaise
- Cough
- Sore throat
- ↓ Appetite
- Abdominal pain
- Myalgia



PATHOGEN & TRANSMISSION

- HFMD is caused by Human Enteroviruses, commonly Coxsackievirus A16, A6, Enterovirus 71.
- Infection spread by exposure to virus-containing respiratory droplets, oral secretions, blister fluid or stool. Enteroviruses may survive on dry surface for several days.
- Infected persons are most contagious in the first week of illness but virus may be shed in stool for up to 4-8 weeks after symptoms have resolved.

DIAGNOSIS

- HFMD is a clinical diagnosis
- Testing for virus is not required for confirmation
- DDx of vesicular rash:

HSV gingivostomatitis (anterior oral/lip lesions), chickenpox (generalized blisters of different ages), Behçet syndrome (recurring oral/genital ulcers).





PREVENTION

- Hand hygiene, esp. after changing diapers
- Disinfect all surfaces, toys and contaminated items with chlorine bleach and water mixture (ratio: 1 tablespoon bleach to 4 cups water)
- Avoid close contact with infected persons
- Keep child from group settings; talk to daycare and school staff before returning

MANAGEMENT

Prognosis

- Most cases resolve spontaneously in 5-10 days
- Rare neurological/cardiopulmonary complications reported in EV 71 outbreaks in Asia

Treatment

- No effective antiviral therapy or vaccine is available for HFMD
- Supportive treatment of fever, pain and hydration



- Give acetaminophen or ibuprofen if child is achy or irritable
- ✓ Try smaller sips to stay hydrated
 - Offer cold food if it hurts to swallow



- Do not pop the blisters. Keep the areas clean and uncovered
- Do not routinely use topical therapies for oral ulcers
- Never give aspirin to children or teens
- Educate parents to seek medical treatment if their child has any sign of dehydration