



OZONE TECH

## OZONE – For control of HFMD in Child Care Centers

Hand Foot and Mouth Disease (HFMD) is caused by the Coxsackie and Enterovirus 71. It is spread by direct contact with the nasal discharge, saliva, faeces and fluid from the rash of an infected person. Children below the age of 5 are more susceptible to this illness with the hands, feet and diaper area affected by rash with small blisters.

There is no specific treatment for the infection other than symptomatic relief of symptoms. Although usually a mild disease, it has been associated with fatalities involving the heart and nervous system.

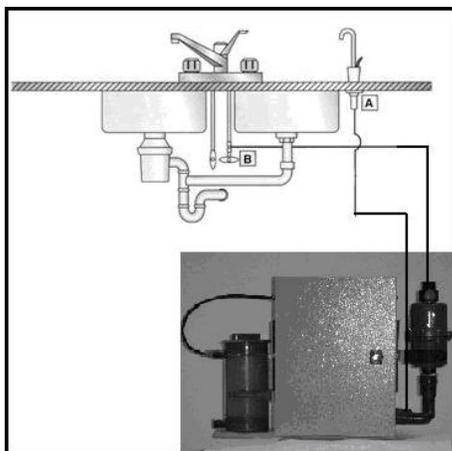
The best way to control the disease is to follow good hygiene practices, including frequent hand washing.

The use of ozone in water used to hand wash will prevent the spread of HFMD. Ozone is an excellent disinfectant for viruses and other bacteria. It is safe for use on hands and has no adverse affect on children.

Ozonating water at the hand washing area and the rest rooms will effectively disinfect the possible areas from which the disease can spread. The water can also be used to disinfect children's toys etc., used in childcare centre.



USEPA specifies ozone as the strongest oxidant with the least CT value for disinfection. It has a high ORP value and is 3000 times more powerful than chlorine in disinfecting microbes for the same log reduction. Aqueous ozone inactivates viruses by attacking capsid protein with the liberation and inactivation of the nucleic acid.



The water ozonated will have an ORP (Oxidation Reduction Potential) of 650 to 850 mV, sufficient to destroy most microbes. At 650 mV WHO certifies water as potable.

The unit can easily be retrofitted under the sink or to the water mains to the restrooms to disinfect the entire area.

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