ABSTRACT BOOK ABSTRACTS



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INFECTIOUS DISEASES (BACTERIAL, FUNGAL, VIRAL, PARASITIC, INFESTATIONS)

HERPES SIMPLEX VIRUS IS RARELY SHEDDED IN ORAL MUCOSA OF IMMUNOCOMPETENT ORAL HERPES PATIENTS AT SYMPTOMATIC RECURRENCE.

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Introduction: Herpes simplex virus (HSV) causes a common oral herpes and almost half of Japanese population is positive with anti-HSV antibody (Ab) serologically. Various studies including ours revealed that the positive rate of anti-HSV Ab increases with age worldwide. It is known that HSV is shed asymptomatically, however, the exact opportunity of infection is not yet clearly understood in adult, especially in elder subjects.

Objective: To identify whether HSV is shed in the oral mucosa at symptomatic phase of oral herpes.

Materials and Methods: Swabs were taken from lesion of oral herpes and the oral mucosa simultaneously and HSV-DNA was identified by Loop-Mediated Isothermal Amplification (LAMP) method.

Results: LAMP method correctly identified HSV-1 or HSV-2 from DNA extracted from swab samples. Total of 162 samples from 97 patients were taken from various lesions. Median days from onset to sample taking was 3 days. No samples from subjects with suspected lesions limited in the mucosa did not show positive results. No mucosal samples were positive in subjects with recurrent oral herpes with positive results from lesions. On the other hand, HSV-DNA was found in four subjects in the oral mucosa, however, they were all immunocompromised or severe primary infection patients.

Conclusions: HSV forms blisters on skin adjacent to vermilion lip at oral herpes, but not in oral mucosa in healthy patients. HSV is rarely shed during the overt symptoms. In healthy population, symptomatic oral herpes may not be the opportunity of HSV infection, and infection may be established during asymptomatic period.





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