

P0896

Paper Poster Session IV

Viral infection and disease

**"Preliminary study of EV71 infection in children with hand, foot, mouth disease; intestinal detoxification and propagation mechanism"**

Z. Shiyong<sup>1</sup>, W. Yidong<sup>1</sup>, W. Yi<sup>1</sup>, X. Ting<sup>1</sup>

<sup>1</sup>hangzhou children hospital, hangzhou, China

**Object** To observe the situation of recessive hand foot mouth disease caused by EV71 in children with intestinal detoxification time and close contact infections and explore the intestinal virus propagation mechanism, providing reference for scientific prevention and control of hand foot and mouth disease. **Methods** Collecting swabs or stool samples with fluorescent PCR method for detection of virus nucleic acid, 65 children with hand foot and mouth disease laboratory confirmed EV71 infection were tracked and followed up, until the virus were negative stool so far. At the same time, a survey of 58 EV71 virus nucleic acid positive patients had a history of close contact with family members (each with two) a total of 116, including 36 throat swabs collected, 80 stool specimens collected; Stool specimens were collected from HFMD ward medical staff of 31 people, including 10 doctors, 21 nurses. **Results** 25 cases of common type of EV71 infection in the 1-6 weeks of fecal virus nucleic acid positive rates were 100%, 88.4%, 59.4%, 22.3%, 22.3%, 0, for the most long time 6 weeks. 40 cases of severe EV71 patients in 1-10 weeks of fecal virus nucleic acid positive rates were 100%, 97%, 79.5%, 60.6%, 35.3%, 25.2%, 16.8%, 16.8%, 8.4%, 0, for the most long time 10 weeks. 31 medical workers stool not detected EV71 virus nucleic acid; 80 people in close contact with the families of children with hand foot mouth disease in 22 stool specimens of EV71 virus nucleic acid positive, accounting for 27.5%; 36 throat swab specimens except one case of EV71 virus nucleic acid positive and others are negative, the positive have without self-conscious symptom. **Conclusion** The recovery period of EV71 infection in children with hand foot mouth disease intestinal detoxification time is long, easy to become latent infection, and it be one of the important factors that cause HFMD epidemic and spread, especially in patients with severe hand foot mouth, so the suggestions to extend the time limit management. The recessive EV71 infection in children with hand foot mouth disease infected family members, may be important to contribute to the spread of foot and mouth disease.