

An update on Enterovirus 71 infection and Interferon type I response 1

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Summary 3

Enteroviruses are members of Picornaviridae family, ~~which~~ consisting of Human 4
enteroviruses group A, B, C and D ~~and as well as non-non-human~~ enteroviruses. Hand, Foot 5
and Mouth Disease (HFMD) is a serious disease which is usually seen in the Asia-pacific 6
region in children. ~~enterovirus~~ Enterovirus 71 and Coxsackievirus A16 are two important 7
viruses responsible for HFMD which are members of group A enterovirus. IFN α and β are 8
two cytokines, which have ~~main-a major~~ activity in the innate immune system against viral 9
infections. Most of the viruses have some weapons against ~~to~~ these cytokines. EV 71 has 10
two main proteases called 2A and 3C, which are important for polyprotein processing and 11
virus maturation, ~~but several~~ Several studies have indicated that they have a significant 12
effect on different cellular pathways such as ~~Interferon-interferon~~ production and signaling 13
pathway. The aim of this study ~~is was~~ to investigate the latest findings about the interaction 14
of 2A and 3C protease of EV71 and IFN production/signaling pathway and their inhibitory 15
effects on this pathway. 16

Keywords: Enterovirus 71, Interferon type I, 2A protease, 3C protease Introduction 18

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