

Detection of Viruses from Acute Respiratory Infections in Hospitals (A Preliminary Study Using Fast-Track (R) Diagnostic Test)

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Abstract	<p>Acute respiratory infections (ARI) is the leading cause of morbidity and mortality in the world and Indonesia. Information on the virus that causes ARI is still limited. The aim of this study was to detect the virus that causes ARI hospitalized cases in three sentinel surveillance hospitals of severe ARI. Laboratory testing of 30 nasal and throat swab specimens from ARI hospitalized cases at Deli Serdang Hospital, Wonosari Hospital and Kanudjoso Djati Hospital during August - September 2016. Laboratory testing were carried out at the Virology Laboratory of the Center for Biomedical Research and Development and Basic Health Technology. This research is a preliminary study using Fast-Track Diagnostics multiplex Real-time RT-PCR to detect 21 viruses. The viruses that have been detected are Human Metapneumovirus (21.2%), Human Parainfluenza Virus 1 (12.1%), Influenza B (6.1%), Human Coronavirus-OC43 (6.1%), Human CoronavirusNL63 (6.1%), Human Parainfluenza Virus 2 (3.0%), Human Rhinovirus (3.0%), and Human Adenovirus (3.0%). Of the 17 samples that tested positive for viruses, 14 of them were single cases of infection while the other three were cases of co-infection between Human Coronavirus-NL63 and Human Parainfluenza Virus 1, Human Metapneumovirus with Human Coronavirus-OC43, and Human Adenovirus with Human Rhinovirus. The most detected virus from ARI hospitalized cases are the Human Metapneumovirus.</p>
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