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## Non-tuberculous mycobacteria infection of childhood in Korea

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**Background:** The epidemiologic data of nontuberculous mycobacterial (NTM) disease in children was limited. The aim of this study was to estimate the prevalence of NTM disease in children of Korea.

**Methods:** To investigate the prevalence of NTM disease (A31), we did analyze the nationwide database (National Health Insurance Corporation) which included the health-care records of 48.1 million individuals between January 1, 2005 and December 31, 2014.

**Results:** Prevalence of NTM disease in Korea showed an increased trend between 2005 (825) and 2014 (11,917), however pulmonary tuberculosis in Korea was decreased between 2005 (139,934) and 2014 (75,509). In child age groups, showing same patterns on NTM disease: under nine years old, age group had increased in the following pattern; 72 (2005), 52 (2006), 59 (2007), 213 (2008), 35 (2009), 22 (2010), 31 (2011), 67 (2012), 91 (2013), and 138 (2014); and the 10~19 years group had also increased 26 (2005), 28 (2006), 18 (2007), 20 (2008), 27 (2009), 37 (2010), 81 (2011), 59 (2012), 57 (2013), and 52 (2014). However, pulmonary

tuberculosis also showed a decreasing pattern in child age groups: under nine years old age group had decreased 6,006 (2005), 4,940 (2006), 4,637 (2007), 3,805 (2008), 3,388 (2009), 2,227 (2010), 1,954 (2011), 1,847 (2012), 1,315 (2013), and 836 (2014); 10~19 years group had also decreased 6,913 (2005), 5,563 (2006), 5,445 (2007), 4,582 (2008), 4,657 (2009), 3,835 (2010), 3,682 (2011), 3,432 (2012), 2,649 (2013), and 2,136 (2014).

**Conclusion:** Although this data have some limitations, the prevalence of NTM disease in children showed increased tendency, however prevalence of pulmonary tuberculosis was seen to have a decreased pattern. So, further study is needed in future for better exploration in this field.

### Speaker Biography

Gwang-Cheon Jang has completed his MD from Yonsei University and also completed his PhD from Yonsei University. He then did his Post-doctoral studies from Harvard University School of Medicine. He is the Director of Computation/Information Committee, Korean Academy of Allergy and Respiratory Disease. He has published more than 64 papers in reputed journals and has been serving as an Editor-in-chief of Medical Journal of NHIS.

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