

Social distancing decreased pediatric respiratory tract infections in Finland

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Finland declared a lockdown in response to the coronavirus pandemic in

March 2020, and the ensuing social distancing measures decreased the number of pediatric emergency room visits to nearly one-third of what they used to be, according to a recent register-based study conducted in collaboration between the University of Eastern Finland, Kuopio University Hospital and the National Institute for Health and Welfare.

The researchers looked at the number of pediatric emergency room visits in two Finnish hospitals (Kuopio University Hospital, Mikkeli Central Hospital) four weeks before and four weeks after the country went into lockdown. In addition, nationwide weekly numbers of influenza (A + B) and [respiratory syncytial virus](#) (RSV) in children were collected from the national infectious disease register for the influenza season 2019–2020, and compared against numbers from 2015.

Besides a decrease in pediatric emergency room visits, the number of [hospital](#) referrals was also decreased by half since the start of the lockdown. A similar decrease was observed in both hospitals and in children of all ages.

Most pediatric emergency room visits are caused by viral respiratory tract infections, and especially cases of upper respiratory tract infections and middle ear infections decreased significantly. The change was most visible in cases of lower respiratory tract infections, i.e. bronchitis and pneumonia, whose incidence decreased to around one-fifth. A similar decrease was not seen in the numbers from spring 2019.

The influenza season and RS virus epidemic ended soon after the lockdown was declared. In comparison to earlier years, the [influenza season](#) lasted only for roughly half of its normal duration (8 weeks vs. 13–20 weeks in earlier years). No pediatric cases of COVID-19 were found in participating hospitals during the study period.

"We are used to the idea that children have respiratory tract infections

almost all the time; most commonly they suffer from bronchitis and middle ear infections. Children under the age of one are also frequently hospitalized due to RSV or influenza. However, our findings now show that [social distancing](#) plays a major role in reducing pediatric infections, [emergency room visits](#) and hospitalization," Professor of Pediatrics Marjo Renko from the University of Eastern Finland says.

The study was published in the *Pediatric Infectious Diseases Journal* in late July.

More information: Ilari Kuitunen et al. Effect of Social Distancing Due to the COVID-19 Pandemic on the Incidence of Viral Respiratory Tract Infections in Children in Finland During Early 2020, *Pediatric Infectious Disease Journal* (2020). [DOI: 10.1097/INF.0000000000002845](#)

Provided by University of Eastern Finland

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