

Kids much less prone to coronavirus infection than adults: study

September 25 2020, by E.j. Mundell, Healthday Reporter



(HealthDay)—Combined data from 32 studies from around the world

suggest that children under the age of 10 are much less likely to become infected with SARS-CoV-2 compared with adults, given the same daily contacts.

Children's risk appears to rise with age: Among adolescent and older teenagers, the risk of infection begins to approach that of adults, according to British researchers led by Russell Viner, of the Institute of Child Health at University College London.

Overall, "children and adolescents younger than 20 years had 44% lower odds of secondary infection with SARS-CoV-2 compared with adults 20 years and older," the researchers reported Sept. 25 in *JAMA Pediatrics*.

Most of the reduction in infection risk was concentrated in kids under the age of 10, Viner's group stressed.

A total of nearly 42,000 children and adolescents, and almost 269,000 adults, were involved in the studies.

The results were especially striking when Viner's group looked at studies conducted within households. In these situations, everyone—kids and adults alike—"might be assumed to receive a similar exposure to infection from index cases," the researchers noted.

In household studies, children under 12 had 59% lower odds of becoming infected with the new [coronavirus](#) compared to adults, if someone in the home had already been infected.

The researchers also found little evidence of children being good transmitters of the virus in group settings.

Three studies that involved contact tracing within schools—in Australia, Ireland and Singapore—found little evidence of kids spreading SARS-

CoV-2 to adults.

"Data from a large Australian school contact-tracing study suggest that, at a [population level](#), children and adolescents might play only a limited role in the transmission of the virus," the researchers reported. "Other very small studies in Ireland and Singapore have found low numbers of secondary cases resulting from infected children attending school."

However, there's not yet enough good [data](#) on child-to-adult transmission to draw firm conclusions, Viner's team stressed. "We remain early in the COVID-19 pandemic, and data continue to evolve," the study authors said.

Drs. Saul Faust and Alasdair Munro, of Britain's National Institute of Health Research Southampton Clinical Research Facility, co-wrote an editorial commenting on the new findings.

Faust and Munro agreed the new data "suggest young children in particular [age less than 12 to 14 years] are less than half as likely to acquire infection with SARS-CoV-2 than adults, given an equivalent, or at least very similar, exposure."

Children also appear to play a minor role in transmission of the virus within schools. Again, data out of England found that "of 30 outbreaks (consisting of 2 or more cases), 22 involved only staff-to-staff or staff-to-pupil transmission," the two experts said.

Faust and Munro also pointed to data on blood antibody testing, which shows that kids have about the same prevalence of [infection](#) as do the elderly, even though children likely have had much more daily exposure to SARS-CoV-2 than their grandparents have had during the pandemic.

Of course, all of this data is crucial to decisions around the reopening of

schools, Faust and Munro said. Those decisions must always rely on science, not politics, they added.

"The current generation of children are too important to be used as a political football, and all leaders have a responsibility to focus on [children](#) and young people's well-being and long-term future," the editorialists concluded.

More information: The U.S. Centers for Disease Control and Prevention has more on the [new coronavirus](#).

Copyright © 2020 [HealthDay](#). All rights reserved.

Citation: Kids much less prone to coronavirus infection than adults: study (2020, September 25) retrieved 27 April 2024 from <https://medicalxpress.com/news/2020-09-kids-prone-coronavirus-infection-adults.html>

| |
|--|
| <p>This document is subject to copyright. Apart from any fair dealing for the purpose of private study or research, no part may be reproduced without the written permission. The content is provided for information purposes only.</p> |
|--|