

Children less infectious than adults with SARS-CoV-2

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Children may not be as infectious in spreading SARS-CoV-2 to others as previously thought, according to new University of Manitoba-led research in *CMAJ (Canadian Medical Association Journal)*.

"Our findings have important public health and clinical implications," writes principal investigator Dr. Jared Bullard, associate professor, pediatrics/[child health](#) and medical microbiology/[infectious diseases](#), Max Rady College of Medicine, University of Manitoba and associate medical director, Cadham Provincial Laboratory in Winnipeg, Manitoba. "If [younger children](#) are less capable of transmitting infectious virus, daycare, in-person school and cautious extracurricular activities may be safe to continue, with appropriate precautions in place, and with lower risk to child care staff, educators and support staff than initially anticipated."

Fourteen researchers from multiple disciplines at the University of Manitoba, Cadham Provincial Laboratory, Manitoba Health and Seniors Care and the Public Health Agency of Canada's National

Microbiology Laboratory analyzed samples from 175 children and 130 adults in Manitoba infected with SARS-CoV-2 to see if there was a difference in infectiousness. Using cell cultures of nasopharyngeal swabs, they investigated viral loads in both groups to determine if children were more infectious.

"As an increasing number of jurisdictions consider whether in-school learning, daycares and [extracurricular activities](#) should continue or resume, a better understanding of the relative contributions of children and adolescents to SARS-CoV-2 transmission, when compared with adults, is essential," the authors write. "This is particularly important given the increased likelihood of asymptomatic infection in this group."

More information: Jared Bullard et al. Infectivity of severe acute respiratory syndrome coronavirus 2 in children compared with adults, *Canadian Medical Association Journal* (2021). [DOI: 10.1503/cmaj.210263](#)

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