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The effect of smaller classes on infection-related school absence: evidence from the Project STAR randomized controlled trial

Paul T. von Hippel^{1*}

Abstract

Background In an effort to reduce viral transmission, many schools reduced class sizes during the recent pandemic. Yet the effect of class size on transmission is unknown.

Methods We used data from Project STAR, a randomized controlled trial in which 10,816 Tennessee elementary students were assigned at random to smaller classes (13 to 17 students) or larger classes (22 to 26 students) in 1985–89. We merged Project STAR schools with data on local deaths from pneumonia and influenza in the 122 Cities Mortality Report System. Using mixed-effects linear, Poisson, and negative binomial regression, we estimated the main effect of smaller classes on absence. We used an interaction to test whether the effect of small classes on absence was larger when and where community pneumonia and influenza prevalence was high.

Results Small classes reduced absence by 0.43 days/year (95% CI -0.06 to -0.80, $p < 0.05$), but small classes had no significant interaction with community pneumonia and influenza mortality (95% CI -0.27 to + 0.30, $p > 0.90$), indicating that the reduction in absence due to small classes was not larger when community disease prevalence was high.

Conclusion Small classes reduced absence, but the reduction was not larger when disease prevalence was high, so the reduction in absence was not necessarily achieved by reducing infection. Small classes, by themselves, may not suffice to reduce the spread of respiratory viruses.

Keywords Influenza, Infection, Class size

In response to the pandemic of COVID-19 (coronavirus disease 2019), caused by the virus SARS-CoV-2 (severe acute respiratory syndrome coronavirus 2), many schools implemented policies to reduce class size. During the 2020–21 school year, approximately one-half of US schools implemented some type of “hybrid” instruction policy that reduced in-person class size by having a sub-

stantial fraction of children stay home to receive instruction remotely [1]. European countries including France, Norway, Denmark, and Iceland restricted class size as a condition for reopening schools in person, and an OECD report described class size as a “critical parameter for the reopening of schools.” [2].

Concerns about class size resurfaced as schools contemplated reopening in late August 2021, when no COVID vaccine had yet been approved for elementary students (5- to 11-year-olds), only 40% of middle and high school students (12 to 17-year-olds) had been fully vaccinated [3] and only 61% of parents had received at least one vaccine dose [4].

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Smaller Classes Or Larger

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- Chapter 1: Introduction to Smaller Classes Or Larger
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This book is crafted in an easy-to-understand language and is complemented by engaging illustrations. This book is highly recommended for anyone seeking to gain a comprehensive understanding of Smaller Classes Or Larger.

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