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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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Table of Contents **Smaller Classes Or Larger**

1. Understanding the eBook **Smaller Classes Or Larger**
 - The Rise of Digital Reading **Smaller Classes Or Larger**
 - Advantages of eBooks Over Traditional Books
2. Identifying **Smaller Classes Or Larger**
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an **Smaller Classes Or Larger**
 - User-Friendly Interface
4. Exploring eBook Recommendations from **Smaller Classes Or Larger**
 - Personalized Recommendations
 - **Smaller Classes Or Larger** User Reviews and Ratings
 - **Smaller Classes Or Larger** and Bestseller Lists

5. Accessing Smaller Classes Or Larger Free and Paid eBooks
 - Smaller Classes Or Larger Public Domain eBooks
 - Smaller Classes Or Larger eBook Subscription Services
 - Smaller Classes Or Larger Budget-Friendly Options
6. Navigating Smaller Classes Or Larger eBook Formats
 - ePub, PDF, MOBI, and More
 - Smaller Classes Or Larger Compatibility with Devices
 - Smaller Classes Or Larger Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Smaller Classes Or Larger
 - Highlighting and Note-Taking Smaller Classes Or Larger
 - Interactive Elements Smaller Classes Or Larger
8. Staying Engaged with Smaller Classes Or Larger
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Smaller Classes Or Larger
9. Balancing eBooks and Physical Books Smaller Classes Or Larger
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Smaller Classes Or Larger
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Smaller Classes Or Larger
 - Setting Reading Goals Smaller Classes Or Larger
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Smaller Classes Or Larger
 - Fact-Checking eBook Content of Smaller Classes Or Larger
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
- Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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