Executive Summary

USING INTEGRATED STUDENT SUPPORTS TO KEEP KIDS IN SCHOOL

A QUASI-EXPERIMENTAL EVALUATION OF COMMUNITIES IN SCHOOLS

Marie-Andrée Somers
Zeest Haider

APRIL 2017
Executive Summary

Using Integrated Student Supports to Keep Kids in School
A Quasi-Experimental Evaluation of Communities In Schools

Marie-Andrée Somers
Zeest Haider

April 2017
Overview

The Communities In Schools (CIS) Model of Integrated Student Supports aims to reduce dropout rates by providing students with integrated and tiered support services based on their levels of need. The model includes preventive services that are available to all students (Level 1 services) as well as intensive, targeted, and sustained services provided through case management (Level 2 services) for the 5 percent to 10 percent of students who display significant risk factors for dropping out, such as poor academic performance, high absentee rates, or behavioral problems. The CIS model posits that these tiered, integrated services will give students the skills and resources they need to succeed, which will lead to improvements in their outcomes.

In elementary schools, the CIS model focuses on improving attendance rates by engaging parents. In middle schools, the model begins to emphasize helping students improve their behavior. In high schools, the model focuses on services specifically intended to prevent students from dropping out, to help them progress through school, and to make sure they graduate.

This study, which is based on a quasi-experimental research design, examines the CIS model’s effect on students’ outcomes in elementary schools, middle schools, and high schools. The sample for this study includes 53 CIS schools in Texas and North Carolina (14 high schools, 15 middle schools, and 24 elementary schools) that started implementing the CIS model between 2005 and 2008. The study compares these CIS schools with 78 matched comparison schools (18 high schools, 24 middle schools, and 36 elementary schools). It is funded by the Edna McConnell Clark Foundation’s Social Innovation Fund.

For the high schools, the main finding is that on-time graduation rates increased — and dropout rates decreased — in the study schools after the CIS model was launched. Graduation and dropout rates also improved in the comparison schools, so it is unclear whether the CIS model was more effective than the strategies used by the comparison schools. The findings do suggest that the CIS model may be at least as effective as these other approaches. In elementary schools, attendance rates (a central outcome the CIS model aims to effect in the elementary grades) improved in schools implementing the CIS model more than they did in a group of similar, comparison schools. There was no effect on attendance in middle and high schools. In middle schools, English/language arts test scores did not improve in schools implementing the CIS model, whereas they did improve in a group of similar, comparison middle schools. There was no effect on test scores in elementary and high schools. (It is important to note, however, that the CIS model does not attempt to improve state test scores or the quality of instruction provided during regular school hours.) Unfortunately, it was not possible to evaluate whether the CIS model improved middle school students’ behavioral outcomes, which is the model’s primary goal in those grades.
Although many services and other forms of support are available to students at risk of dropping out, far too many students still fail to complete high school. The problem may lie in the fact that services for at-risk students are spread across many different government agencies and nonprofit organizations, which makes it more challenging for schools to identify the services available to students and for students themselves to use them.

This report examines an integrated model of student support created by Communities In Schools (CIS), which is now working in about 2,400 schools and 360 school districts. The CIS model provides comprehensive and integrated services to students in different areas (academics, behavior, social skills and life skills, family outreach, health and wellness, etc.), delivered with varying intensity and duration based on students’ level of need. Level 1 short-term, preventive services are broadly available to all students at a school, whereas Level 2 intensive, longer-term, targeted services are for students at higher risk of dropping out.

The schools in this study, located in Texas and North Carolina, started implementing the CIS model between 2005 and 2008. Using a quasi-experimental design, the study found mixed but promising results. In elementary schools, it appears that the CIS model may have improved attendance rates, which is consistent with the findings of other studies of CIS (including a randomized experiment in K-8 schools in Chicago). In middle schools, the CIS model does not appear to have improved any of the outcomes that could be measured in this study (attendance rates and test scores). In high schools, graduation rates improved after the CIS model was implemented, but it is not clear whether CIS caused these improvements.

Thus far, two quasi-experimental studies — the present one by MDRC and an earlier one by ICF International — have found that high schools implementing the CIS model have increased their graduation rates. In both studies, however, these findings have been inconclusive because of limitations related to finding a group of credible comparison schools. Therefore, a useful next step for CIS would be an evaluation based on a school-level randomized experiment. Such an experiment would provide the most rigorous evidence of the model’s effects, and ultimately the most useful information for policymakers, districts, and schools.

Gordon L. Berlin
President, MDRC
Acknowledgments

This report is based on work supported by the Social Innovation Fund, a White House initiative and program of the Corporation for National and Community Service (CNCS). The Social Innovation Fund combines public and private resources with the goal of increasing the impact of innovative, community-based solutions that have compelling evidence of improving the lives of people in low-income communities throughout the United States.


We owe special thanks to Communities In Schools (CIS) national and affiliate staff members for their support and cooperation throughout this study. At the national level, Heather Clawson provided important information about the organization. She also coordinated with other national and affiliate staff members to obtain data about the schools in the study, and we are grateful to them for providing this information.

We wish to thank several individuals outside of MDRC who gave us useful criticisms and encouragement throughout the study, and who provided insightful comments on earlier drafts of this report: Heather Clawson and Kevin Leary at CIS National; Gabriel Rhoads, Kelly Fitzsimmons, and Partheev Shah at The Edna McConnell Clark Foundation; Hilary Rhodes and Dara Rose at The Wallace Foundation; Jason Snipes and Bob Granger, who reviewed the report as members of the Evaluation Advisory Board for the Edna McConnell Clark Foundation’s Social Innovation Fund; and the reviewers at CNCS.

At MDRC, William Corrin and Leigh Parise — the project director and manager for the study — provided extremely helpful suggestions, support, and guidance at critical times during the analysis of the data and the writing of this report. Kateryna Lashko processed and cleaned the many data files used for the analysis. Kelly Quinn and Daphne Chen contributed to report production, spending countless hours formatting tables and checking the accuracy of the information in the report, among other tasks. Kelly Granito helped our team organize its work on this report, with support from Kate Gualtieri. Kate was also a valuable link between the
project team and the broader Edna McConnell Clark Foundation Social Innovation Fund community of program organizations and evaluators.

Gordon Berlin, Fred Doolittle, Howard Bloom, Robin Jacob, Rob Ivry, and Joshua Malbin carefully reviewed earlier drafts of the report, offered helpful ideas about how to present the findings, and provided valuable advice on conducting additional analyses. We also want to extend our thanks to MDRC’s board members, who offered insightful critiques on how to interpret the findings from the study. Joshua Malbin edited the full report, and Carolyn Thomas and Ann Kottner prepared it for publication.

The Authors
Executive Summary

Every day more than 7,000 students drop out of school. One-fifth of students who enter high school do not graduate within four years, and more than two-fifths of Latino and African-American boys drop out. Many students at risk of dropping out need academic and social services and other forms of support to make it through high school. However, these services are scattered across numerous government agencies and nonprofit organizations, which limits their potential to change the path of an at-risk student. Integrating student support services and connecting them with schools is viewed as a promising approach to assist school staff members and help students stay on track to graduate.

This report presents the findings from a quasi-experimental study of the Communities In Schools (CIS) Model of Integrated Student Supports (referred to in this report as the “CIS model”), a promising whole-school approach that aims to reduce dropout rates by providing students with integrated and tiered support services based on their needs. Because some of the factors that put students on the path toward dropping out of high school are established well before ninth grade, CIS works with elementary schools, middle schools, and high schools. This study of the CIS model, which is funded by the Edna McConnell Clark Foundation’s Social Innovation Fund, provides a unique opportunity to gain a better understanding of the potential effects of a tiered and integrated approach to dropout prevention that serves students of all ages.

In high schools, the main finding from this study is that on-time graduation rates increased — and dropout rates decreased — in study schools after the CIS model was launched. However, it is not clear whether these improvements were caused by the CIS model. On the one

---

5The Social Innovation Fund is a program of the Corporation for National and Community Service. The Social Innovation Fund combines public and private resources to increase the impact of innovative, community-based solutions that have compelling evidence of improving the lives of people in low-income communities throughout the United States.

1
hand, graduation and dropout rates improved by greater amounts in the CIS high schools than in a group of comparison high schools, which suggests that the CIS model may have improved these rates more than they would have improved otherwise. On the other hand, the comparison schools and CIS schools had different graduation and dropout rates before the CIS model was implemented, so the comparison schools may not provide a credible reference point. For this reason, it is not possible to determine whether the CIS model was more effective than the strategies used by the comparison schools, although the study’s findings suggest that the CIS model may be at least as effective as these other approaches.

In elementary schools, attendance rates (a central outcome measure CIS aims to affect in the elementary grades) improved in schools implementing the CIS model more than they did in a group of similar comparison schools. In middle schools, English/language arts (ELA) test scores did not improve in schools implementing the CIS model, whereas they did improve in a group of similar, comparison middle schools. Unfortunately, it was not possible to evaluate whether the CIS model improved middle school students’ behavioral outcomes, which is the model’s primary goal in those grades.

What Is the CIS Model?

Communities In Schools, which was founded in 1977 by children’s advocate Bill Milliken, works with low-income K-12 students who are at risk of failing or dropping out of the nation’s poorest-performing schools. CIS seeks to reduce dropout rates by integrating preventive services available to the entire school with intensive, targeted, and sustained services for the 5 percent to 10 percent of students who display significant risk factors for dropping out, such as poor academic performance, high absentee rates, or behavioral problems. CIS now serves 1.5 million students and their families in 25 states and the District of Columbia. It is active in approximately 2,300 schools and 360 school districts.6

CIS provides services and support to students in 10 different areas: academics, behavior, social skills and life skills, basic needs and resources, college and career preparation, enrichment and motivation, family outreach and engagement, health and physical wellness, community service, and mental health. These 10 categories of services are provided at two levels of intensity and duration, depending on students’ needs:

- **Level 1 school-wide and preventive services:** Level 1 services are broadly available to all students at the school and are usually short-term, low-intensity activities or services (for example, making clothing or school sup-

---

plies available to students, organizing a school-wide career fair, or hosting a financial aid workshop for twelfth-graders).

- **Level 2 targeted services:** In contrast, Level 2 services are intensive, often long-term, and targeted forms of support that are delivered to students who are displaying one or more significant risk factors for dropping out, such as poor academic performance, a high absentee rate, or behavioral problems. Level 2 services include forms of support such as individual and group counseling, tutoring, and after-school programs.

The CIS model’s goals are different in high schools, middle schools, and elementary schools. In all three, the CIS model provides support in each of the 10 service categories, but the emphasis in each case is calibrated to the model’s core goals for that type of school. In elementary schools, the model focuses on improving attendance rates by reaching out to and engaging parents. In middle schools, the model begins to emphasize helping students improve their behavior. In high schools, the model focuses on services specifically intended to prevent students from dropping out, help them progress through school, and make sure they graduate.

**How Was the CIS Model Evaluated?**

This study conducted by MDRC examines whether introducing the CIS model with all of its components improves schools’ graduation rates, dropout rates, attendance rates, and state test scores.

The effect of the CIS model is evaluated using a comparative interrupted time series (CITS) design. Two groups of schools are studied: one group that implemented the CIS model (CIS schools) and another group that did not implement the CIS model but was free to adopt some other reform or initiative (comparison schools). The first step in a CITS design is to determine the trends in school outcomes for the CIS schools and the comparison schools during the years before the intervention was launched. These are called the “baseline trends.” The second step is to gauge how much the CIS and comparison schools “deviated” from their baseline trends after the intervention was launched. The outcomes of the two groups of schools are not compared directly; instead, the analysis compares the amount by which the two groups deviated from their separate baseline trends. If the CIS model is more effective than other programs or reforms available to schools (those used by the comparison schools), then the CIS

---

schools should experience improvements relative to their baseline trend that exceed the improvements found in comparison schools.

The comparison schools play an important role in this study design. Their trends over time reveal what happened to similar schools that did not implement the CIS model and thus are intended to show how much CIS schools’ outcomes would have improved had they not implemented it. For example, had they not implemented the CIS model, CIS schools’ outcomes may have improved because they chose to implement some other school reform model (instead of CIS), or they may have improved due to a district-wide or statewide policy change. The CITS design makes it possible to identify the CIS model’s effect over and above the effect of these alternative reforms and system-wide policy changes (that is, the model’s net effect).

This study examined 53 schools in Texas and North Carolina (14 high schools, 15 middle schools, and 24 elementary schools) that started implementing the CIS model from 2005 to 2008. The study sample also includes 78 comparison schools (18 high schools, 24 middle schools, and 36 elementary schools). The comparison schools were chosen from non-CIS schools in counties in Texas and North Carolina where there is a CIS presence, ensuring that they are located in the kinds of districts where CIS typically operates. Matching methods were used to select comparison schools whose baseline characteristics and trends in school outcome measures were as similar as possible to those of the CIS schools.

Overall, the CIS schools and the comparison schools have similar baseline characteristics and outcome measure values, with one exception: The comparison high schools had higher graduation rates than the CIS schools (by about 9 percentage points) and lower dropout rates (by about 1.5 percentage points). These differences are small enough to meet commonly used criteria for baseline equivalence, such as the one used by the What Works Clearinghouse. Substantively, however, these differences are large enough that the CIS schools may have had more incentive to turn themselves around. For example, had they not implemented the CIS model, the CIS schools may have chosen to implement different — but still intensive — whole-school interventions to improve their low graduation rates. In contrast, the comparison schools may have felt less need or pressure than the CIS schools to initiate a turnaround, and accordingly, they may have adopted less intensive strategies to improve their graduation rates. In that case, the comparison schools’ deviations from trend would not provide the right information about what would have happened to the CIS schools had they not implemented the model. Any improvements in the comparison schools’ graduation rates would understate the amount CIS

---

schools’ own rates would have improved without the CIS model; by extension, the findings from this study would overstate the true effect of the CIS model. Various sensitivity tests were used to explore this possibility as well as other factors that could affect the credibility of the comparison schools as a reference point.

Data for the study were obtained from existing, publicly available school-level historical databases. Using these data, this study is able to examine whether the CIS model was successful at meeting its main objectives: increasing on-time graduation rates and reducing high school dropout rates. The study can also examine whether the CIS model had a positive effect on attendance rates (the main outcome of interest in elementary schools) and performance on state tests. However, the study is not able to evaluate whether the CIS model improved students’ behavioral outcomes, which is one of the model’s main goals in middle schools. Another data-related limitation is that information is not available on what kinds of services and support are offered to students in the comparison schools, and how these services differ from those included in the CIS model. This limitation makes it more challenging to interpret the study’s findings, because it is unclear what initiatives and services the CIS model is being compared with.

In addition to evaluating the effect of CIS’ whole-school model, MDRC is also evaluating the effect of one component of the CIS model — Level 2 services — using a student-level random assignment research design. This study is being conducted in 28 secondary schools in North Carolina and Texas. Eligible at-risk students were randomly assigned to receive Level 2 case management and services or to continue with business as usual, with access to whatever other forms of support were available to them.

The first report from the random assignment study described the effect of Level 2 services on students’ behavioral and academic outcomes after one year. It found that Level 2 services had a positive and statistically significant impact on students’ reports of having caring, supportive relationships with adults outside of home and school; the quality of their peer relationships; and their belief that education has positive value for their lives. But MDRC found no evidence that Level 2 services had improved students’ attendance, course performance, or behavior. However, it is too early to make any definitive conclusions, because one year of case management may not be sufficient to improve the outcomes of these students, all of whom face serious academic and personal challenges. Accordingly, the next (and final) report will examine the effect of Level 2 case management after two years.

9These databases include the Common Core of Data and data sets maintained by the Texas Education Agency, the North Carolina Research and Data Center at Duke University, and the North Carolina State Department of Education.

Did the CIS Model Improve School Outcomes?

MDRC’s study of the CIS model examines the following two research questions:

- After launching the CIS model, did the CIS schools have better outcomes than predicted by their baseline trend? This question is answered by looking at the deviations from baseline trend for the CIS schools in the study.

- Did the CIS schools’ outcomes improve more than they would have in the absence of the CIS model? This question is answered by looking at the difference between the deviations from baseline trend for the CIS schools and the comparison schools. This difference represents the estimated net effect of the CIS model.

High School Graduation and Dropout Rates

- After three years of implementing the CIS model, on-time graduation rates and dropout rates improved by statistically significant amounts in the CIS high schools, relative to what would have been expected given their baseline trends.

- It is not possible to determine the extent to which these improvements can be attributed to the CIS model. Graduation and dropout rates improved more in the CIS schools than in the comparison high schools, but this pattern of results depends on the choice of comparison schools.

Figure ES.1 plots the trend in graduation rates for the CIS high schools (solid black line) and the comparison schools (solid gray line), during the school years before the CIS model was launched, and also shows graduation rates after the model was launched. Before the CIS model was implemented, graduation rates had been steadily declining for both groups of schools. After the model was launched, graduation rates in the CIS high schools were higher than expected relative to these schools’ baseline trend. Graduation rates were also higher than predicted in the comparison schools, perhaps because they chose to use a strategy other than the CIS model to turn themselves around. However, graduation rates improved more in the CIS schools than in the comparison schools, and therefore the estimated net effect of the CIS model is positive.

Table ES.1 summarizes the findings. As shown in the first panel, the estimated effect of the CIS model on graduation rates is consistently positive during the first three years of
Figure ES.1

Baseline Trends and Deviations from Trend in High School Graduation Rates

CIS baseline trend

Comparison baseline trend

CIS predicted trend

Comparison predicted trend

Estimated effect in Year 3 = 7.50
(p-value = 0.088)

Comparison +8.08

CIS +15.58

Graduation rate (%)

Relative year (CIS introduced at Year 1)

Sources: MDRC calculations based on school-level data on student outcomes from the Texas Education Agency.
Table ES.1
Estimated Effects on Selected Outcomes

<table>
<thead>
<tr>
<th>Outcome and Follow-Up Year</th>
<th>Deviation from Baseline Trend</th>
<th>P-Value for</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>CIS Schools</td>
<td>CIS Comparison Schools</td>
</tr>
<tr>
<td>High schools</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Graduation rate (%)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Year 1</td>
<td>2.71 †</td>
<td>-1.74</td>
</tr>
<tr>
<td>Year 2</td>
<td>6.19 †††</td>
<td>0.69</td>
</tr>
<tr>
<td>Year 3</td>
<td>15.58 †††</td>
<td>8.08 ††</td>
</tr>
<tr>
<td>Number of schools</td>
<td>8</td>
<td>11</td>
</tr>
<tr>
<td>Dropout rate (%)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Year 1</td>
<td>-0.75</td>
<td>0.30</td>
</tr>
<tr>
<td>Year 2</td>
<td>-1.85 ††</td>
<td>-0.65</td>
</tr>
<tr>
<td>Year 3</td>
<td>-3.8 †††</td>
<td>-2.3 †††</td>
</tr>
<tr>
<td>Number of schools</td>
<td>14</td>
<td>18</td>
</tr>
<tr>
<td>Middle schools</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ELA state test scores (z-scores)^a</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Year 1</td>
<td>0.01</td>
<td>0.05 †</td>
</tr>
<tr>
<td>Year 2</td>
<td>0.02</td>
<td>0.10 †††</td>
</tr>
<tr>
<td>Year 3</td>
<td>0.00</td>
<td>0.11 †††</td>
</tr>
<tr>
<td>Number of schools</td>
<td>8</td>
<td>15</td>
</tr>
<tr>
<td>Elementary schools</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Attendance rate (%)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Year 1</td>
<td>0.30 †††</td>
<td>0.14 †</td>
</tr>
<tr>
<td>Year 2</td>
<td>0.44 †††</td>
<td>0.17</td>
</tr>
<tr>
<td>Year 3</td>
<td>0.61 †††</td>
<td>0.20 †</td>
</tr>
<tr>
<td>Number of schools</td>
<td>24</td>
<td>36</td>
</tr>
</tbody>
</table>
implementation, and it becomes larger over time, as one would expect.\textsuperscript{11} By the third year, the estimated effect is 7.5 percentage points, which represents an 11 percent increase in graduation rates relative to the last baseline year. An effect of this size means that in the third year of implementation, 55 additional students in each study school graduated from high school on time. Though the CIS model's estimated effect on dropout rates is not statistically significant, those results follow a similar pattern (as shown in the second panel of Table ES.1).

As explained earlier, a central assumption of the CITS design is that the comparison schools' deviations from their baseline trend represents what would have happened to the CIS schools in the absence of the intervention. As shown in Figure ES.1 and discussed earlier, the comparison schools had substantially higher baseline graduation rates (and lower dropout rates) than the CIS schools, so they may have had less incentive to turn their graduation rates around. This difference places an additional burden on the study to demonstrate that the comparison schools can still represent what would have happened to CIS schools in the absence of the CIS model. Various sensitivity tests were conducted to examine the credibility of this assumption. Some of these sensitivity tests suggest that the comparison schools do provide a good point of reference for the CIS schools, but others suggest that they may not, and that the net effects shown in Table ES.1 may therefore be overstated.

Given these results, it is not possible to determine whether the CIS model improved graduation and dropout rates more than they might have improved otherwise, or if it did, by

\textsuperscript{11}Graduation rates are only available for 8 of the 14 CIS high schools, because data on this outcome are only available for high schools in Texas.
how much. However, the study does show that the average graduation and dropout rates for the CIS high schools improved relative what would have been expected given their prior trends. In addition, although it is not possible to determine whether the CIS model was more effective than the strategies used by the comparison schools, the study’s findings suggest that the CIS model may be at least as effective.

**Elementary School Attendance Rates**

- After three years, the average attendance rate increased by a statistically significant amount in the CIS elementary schools, relative to what would have been expected given their baseline trend.

- The improvement in attendance rates for these CIS schools was larger than the improvement in comparison schools by a statistically significant amount. The CIS model appears to have improved these schools’ attendance rates more than they would have improved otherwise.

Attendance is the main student outcome CIS aims to affect in elementary schools. After the CIS model was launched, attendance rates in the CIS elementary schools were higher than predicted by these schools’ baseline trends by a statistically significant amount (as shown in the last panel of Table ES.1). Attendance rates in the comparison schools were also higher than predicted, perhaps because these schools were using other strategies to improve their attendance rates. However, in all three follow-up years, the CIS elementary schools deviated from their baseline trend by a greater amount than in the comparison schools, and that difference becomes statistically significant in the third year of implementation. This pattern of results holds across all of the sensitivity tests that were conducted to examine the credibility of the comparison schools as a reference point. Therefore, the CIS model may have improved attendance rates in the study’s elementary schools more than the strategies being used by the comparison schools.

On its face, the CIS model’s estimated effect on attendance rates may seem small: By the third year, the estimated effect is 0.4 percentage points, which represents an extra 0.7 days of school. However, it is important to note that attendance rates were already high before the CIS model was launched (96.1 percent), so an effect of 0.4 percentage points gets schools 10 percent closer to perfect attendance. In addition, average daily attendance rates can mask high rates of chronic absenteeism: 11 percent of elementary school students are chronically absent.

---

12 This number assumes a school year of 180 days.
13 The gap between baseline attendance and perfect attendance is 3.9 percentage points (100 - 96.1). An effect of 0.4 percentage points is 10 percent of that gap (0.4 ÷ 3.9).
(that is, they are absent 15 or more days during the school year). A small effect on overall attendance rates may represent a larger effect on chronic absenteeism.

**Middle and High School Attendance Rates**

In CIS middle schools, attendance rates did not improve by a statistically significant amount. In CIS high schools, attendance rates did improve by a statistically significant amount, but not by a greater amount than they would have improved otherwise. These results are consistent across the sensitivity tests that were conducted to examine the credibility of the comparison schools.

**Middle School State Test Scores**

- After three years of implementation, state test scores did not improve in the CIS middle schools, relative to what would have been expected given their baseline trends.

- During the same period, state test scores did improve by a statistically significant amount in the comparison schools. CIS middle schools’ test scores appear to be lower than they would have been otherwise.

After the CIS model was launched, state test scores in the CIS middle schools were not better than predicted by their baseline trends. In contrast, the comparison schools performed better on state tests than predicted, perhaps because they implemented other reforms or initiatives to improve their students’ performance. As a result, the CIS model’s estimated effect on middle school students’ ELA state test scores is consistently negative and it becomes more negative over time (as shown in the third panel of table ES.1). By the third year, the estimated effect size is -0.11 standard deviations, which translates into about 14 weeks of learning. These results hold across all of the sensitivity analyses that were conducted to examine the credibility of the comparison schools as a reference point. This result suggests that the CIS model may have been less successful at improving state test scores than the strategies used by

---


15The number of CIS and comparison schools for this analysis is less than the total number of middle schools in the study, because time-series data on state test scores are not available for all schools.

16The conversion from effect size to weeks of learning is based on data in Carolyn J. Hill, Howard S. Bloom, Alison Rebeck Black, and Mark W. Lipsey, “Empirical Benchmarks for Interpreting Effect Sizes in Research,” *Child Development Perspectives* 2, 3 (2008):172-177. Middle school students make gains of about 0.008 standard deviations per week in reading. Therefore, an effect size of -0.11 standard deviations is equivalent to 14 weeks of learning (0.11 ÷ 0.008).
the comparison schools. It is important to note, however, that the CIS model does not attempt to improve state test scores or the quality of instruction provided during regular school hours.

**Elementary School and High School State Test Scores**

In CIS elementary schools, ELA state test scores improved by a statistically significant amount, but not by more than they would have improved otherwise. These results are consistent across the sensitivity tests that were conducted to examine the credibility of the comparison schools. In CIS high schools, ELA state test scores also improved by a statistically significant amount. However, it is not possible to determine the extent to which these improvements can be attributed to the CIS model due to the limitations in identifying a group of credible comparison schools described above.

**Discussion**

Because this study is based on a small number of purposefully selected schools that started implementing the CIS model a decade ago, its findings may not represent the effect of the CIS model nationally as it exists today. Therefore, the results from this study should be considered alongside the results of other evaluations of the CIS model, two of which are worth noting. The first is a national quasi-experimental study of the CIS model conducted by ICF International. The second study is an (as yet) unpublished school-level random assignment evaluation of the CIS model in Chicago K-8 schools.

All three studies of the CIS model conducted thus far have found positive effects on attendance rates for younger students. With respect to state test scores, the effect of the CIS model appears to depend on the local context: This study finds negative effects in middle schools, whereas the Chicago study finds positive effects. This difference suggests that in some settings, the CIS model can have positive effects on students’ test scores and be more effective than the other strategies available.

The findings in high schools are promising but more difficult to interpret. The ICF study finds an improvement of 1.7 percentage points in ninth-grade students’ probability of graduating from high school, but this effect is not statistically significant. In the present study, graduation rates improved for the CIS schools after they launched the model, but it is unclear to

---


18David N. Figlio, “Experimental Evidence of the Effects of the Communities In Schools of Chicago Partnership Program on Student Achievement,” Northwestern University Working Paper (Evanston, IL: Northwestern University, 2015).
what extent graduation rates would have improved had these schools not implemented the CIS model.

Therefore, it would be a useful next step for CIS to undertake a rigorous and large-scale study of its model in high schools in particular, based on a randomized experiment and supplemented by a cost study. A school-level random assignment research design would provide the best evidence of the CIS model’s effect on student outcomes relative to that of other programs and strategies. By collecting cost data on the implementation of the CIS model as well as cost data on the strategies and interventions used by the control schools, one could also determine the CIS model’s relative cost-effectiveness, which would ultimately provide the most useful information for school districts.
Earlier MDRC Publications on Communities In Schools

Case Management for Students at Risk of Dropping Out
Implementation and Interim Impact Findings from the Communities In Schools Evaluation
About MDRC

MDRC is a nonprofit, nonpartisan social and education policy research organization dedicated to learning what works to improve the well-being of low-income people. Through its research and the active communication of its findings, MDRC seeks to enhance the effectiveness of social and education policies and programs.

Founded in 1974 and located in New York City and Oakland, California, MDRC is best known for mounting rigorous, large-scale, real-world tests of new and existing policies and programs. Its projects are a mix of demonstrations (field tests of promising new program approaches) and evaluations of ongoing government and community initiatives. MDRC’s staff bring an unusual combination of research and organizational experience to their work, providing expertise on the latest in qualitative and quantitative methods and on program design, development, implementation, and management. MDRC seeks to learn not just whether a program is effective but also how and why the program’s effects occur. In addition, it tries to place each project’s findings in the broader context of related research — in order to build knowledge about what works across the social and education policy fields. MDRC’s findings, lessons, and best practices are proactively shared with a broad audience in the policy and practitioner community as well as with the general public and the media.

Over the years, MDRC has brought its unique approach to an ever-growing range of policy areas and target populations. Once known primarily for evaluations of state welfare-to-work programs, today MDRC is also studying public school reforms, employment programs for ex-offenders and people with disabilities, and programs to help low-income students succeed in college. MDRC’s projects are organized into five areas:

- Promoting Family Well-Being and Children’s Development
- Improving Public Education
- Raising Academic Achievement and Persistence in College
- Supporting Low-Wage Workers and Communities
- Overcoming Barriers to Employment

Working in almost every state, all of the nation’s largest cities, and Canada and the United Kingdom, MDRC conducts its projects in partnership with national, state, and local governments, public school systems, community organizations, and numerous private philanthropies.
New York
16 East 34th Street
New York, NY 10016
Tel: 212 532 3200

California
475 14th Street
Oakland, CA 94612
Tel: 510 663 6372

www.mdrc.org