Healthy School Lunches Improve Kids’ Habits
Research shows that strong nutrition standards work

Overview
Schools can serve healthy lunches, but whether kids will eat them is a question that has been asked often since the 2012-13 school year, when districts across the United States raised the nutritional quality of meals to meet updated national standards.

Multiple studies comparing students’ eating habits before and after these changes show that the answer is clearly yes. Among the four studies that tracked the largest numbers of children, three measured the amount of food students selected and calculated the percentage eaten and discarded, and the fourth evaluated changes in the nutritional quality of the lunches kids chose.

Middle schoolers ate more, wasted less
Researchers from the Rudd Center for Food Policy and Obesity weighed and photographed lunches served to children at 12 Connecticut schools in spring 2012, 2013, and 2014. Compared with 2012, the amount of their entrees that children ate increased by nearly 13 percentage points, and of their vegetables, 18 percentage points by the last year of the study. (See Figure 1.) Food waste declined as a result.

The researchers also found that greater variety led to healthier choices. Each additional fruit option offered was associated with a 9.3 percent increase in fruit servings selected by students.1

Figure 1
Kids Ate More When School Lunches Got Healthier
Average percentage consumed, by meal component, 2012 and 2014

Notes: Percentages shown are among students who selected the meal component.
* Indicates statistically significant differences at the 5 percent level.


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Texas students ate more fruit, made more varied vegetable choices

Researchers with the Baylor College of Medicine and Texas Children’s Hospital observed and recorded meals at eight elementary schools in southeast Texas before and after the 2012 updates.

In 2013, more students took whole fruit with their lunches—76 percent, compared with 58 percent in 2011—and they ate about 2 tablespoons more fruit (including 100 percent juice). Kids who chose red-orange vegetables with their meals nearly doubled their consumption of these foods in 2013, eating almost a quarter cup, compared with about an eighth of a cup in 2011.

Overall, the percentage of fruits and vegetables that students ate did not change. (See Figure 2.)

Figure 2
Fruits and Vegetables Eaten Held Steady Under Updated Standards
Average percentage consumed, by meal component, 2011 and 2013

Note: Percentages shown are among students who selected the meal component.


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Kids ate more of their entrees and vegetables

The Harvard School of Public Health investigated the transition to healthier school lunches among students in grades 1 through 8 in four schools in Massachusetts. Researchers recorded and weighed students’ meal selections and the food discarded from each tray in the fall of 2011 and again one year later.

In 2012, more children took a serving of fruit, and they ate larger shares of entree and vegetable servings compared with the previous year. (See Figure 3.)

Figure 3
Younger Students Adapted Quickly to Healthier Lunches
Average percentage consumed, by meal component, 2011 and 2012

Notes: Percentages shown are among students who selected the meal component.

* Indicates statistically significant differences at the 5 percent level.


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Among older students, meal nutrition improved with no decline in participation rates

University of Washington researchers analyzed more than 1.7 million school lunches selected by students in three middle schools and three high schools near Seattle over a 31-month period.

In 2014, students chose lunches containing 29 percent more of key nutrients and 13 percent fewer calories per gram than meals selected in 2011. The researchers concluded that the inclusion of more and varied fruit and vegetable choices on school menus was the main reason that the nutritional quality of children’s lunches improved.

The schools saw no significant change in lunch participation rates as students encountered healthier options in cafeterias.4

Conclusion

Teaching children the importance of a balanced diet requires consistent, long-term efforts, but considerable evidence shows that schools have—and are seizing—the opportunity to help young Americans develop healthy eating habits. Although areas such as menu variety and food waste still have room to improve, these studies demonstrate that kids are accepting and benefiting from school lunches that meet today’s strong national standards.

Endnotes


