The Issue

Every child should have opportunities to be physically active. Students who are physically active tend to have better grades, attendance in school, and stronger muscles and bones. Regular physical activity can improve cognition, reduce symptoms of depression, help children maintain a healthy weight, and prevent risk of future chronic disease.

Experts suggest that schools can provide students with opportunities to be physically active to help meet the national recommendation of 60 minutes per day. Incorporating five-to-10-minute movement breaks during class time can supplement other school physical activity opportunities, like physical education and recess. While some Massachusetts public schools offer classroom movement breaks at the middle school level, there are little to no data suggesting classroom movement breaks are provided for all younger students. Helping all classroom teachers integrate best practices for movement breaks will ensure more students have an opportunity to be active and help children grow up healthy and ready to learn.

About the Movement Breaks in the Classroom Strategy

To implement this evidence-based strategy, the Massachusetts Departments of Public Health and Elementary and Secondary Education would collaborate to connect school districts to the School Wellness Coaching Program. This program helps school districts integrate movement breaks into their local wellness policies and meet state and federal physical activity recommendations. Teachers in kindergarten to fifth-grade classrooms would receive training, technical assistance, and materials to support implementation. School wellness champions could also elect to be trained. This strategy aligns with the School Wellness Coaching Program and the Whole School, Whole Community, Whole Child initiative to create school environments that prioritize students’ health, well-being, and ability to learn.

Comparing Costs and Outcomes

CHOICES cost-effectiveness analysis compared the costs and outcomes over a 10-year time horizon (2020-2029) of implementing movement breaks in the classroom with the costs and outcomes associated with not implementing the program.

Integrating movement breaks in the classroom is an investment in the future. By the end of 2029:

- 31,600 CHILDREN REACHED
- 25 ADDITIONAL MINUTES OF MODERATE-TO-VIGOROUS PHYSICAL ACTIVITY per student per school week
- $5.72 COST PER CHILD per year
Conclusions and Implications

Not all students have access to safe streets, playgrounds, or spaces to be physically active. If movement breaks were incorporated into classrooms in Massachusetts, 31,600 elementary school students would benefit. These students could increase their moderate-to-vigorous physical activity levels by 25 minutes per school week, helping them reach the recommended physical activity levels.\textsuperscript{5} We project that 36 cases of obesity would be prevented in 2029 and $30,800 in health care costs related to excess weight would be saved over 10 years. This strategy would cost less than $6 per child per year to implement in Massachusetts and is likely to be cost-effective at commonly accepted thresholds\textsuperscript{7} based on net cost per population health improvement related to excess weight ($66,200 per quality-adjusted life year gained).

Classroom movement breaks provide all students with the opportunity to be physically active. This is particularly important for those students with fewer options outside of school. By training and equipping over 200 teachers and other school staff to incorporate movement breaks in the classroom, this strategy could help Massachusetts public schools cultivate a positive school climate and improve social emotional learning.\textsuperscript{8} Additionally, movement breaks allow students an opportunity for a “brain break” to refocus, reconnect and bring their attention back to their academic work. Students who participate in movement breaks spend more time on task\textsuperscript{4} and teachers report that students are more engaged, supportive of each other, and responsive to teacher instructions after participating in a movement break.\textsuperscript{9}

Regular physical activity is important for healthy growth and development. Many preventive strategies can play a critical role in helping children establish healthy habits early on in life. Movement breaks provide an opportunity to invest in students and support their healthy growth and academic success.