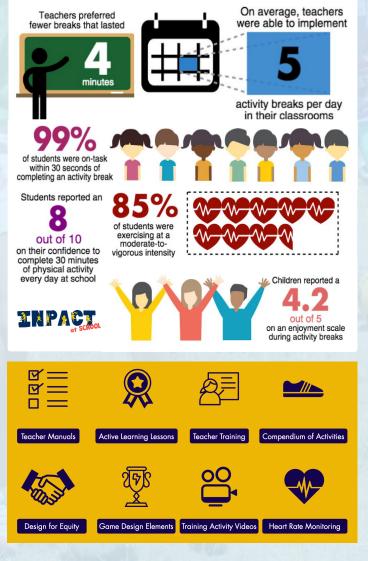


Incorporating purposeful movement into the classroom to prepare the brain for learning

The need: Today's kids are dropping out of sport and physically active play at a young age. Evidence-based physical activity interventions implemented in school classrooms hold great potential for increasing physical activity opportunities for K-12 students.

The partnership: Saginaw Intermediate School District and researchers from the University of Michigan, Wayne State University, and Eastern Michigan University came together to develop and tailor a program for teachers to implement in their classrooms.

The program: Interrupting Prolonged sitting with ACTivity (InPACT) is a tailored classroom physical activity intervention delivered with a comprehensive set of strategies designed to provide teachers with the necessary resources to lead their classes in 5 x 4-minute activity breaks throughout the school day. Strategies include classroom curriculum and management resources, instructional exercise videos, floor plans, district-wide implementation guide and a teacher training program. Visit our program website at: inpact.kines.umich.edu.



Support for this program is provided in part by the Michigan Health Endowment Fund and the University of Michigan.

Why Classroom-Based Physical Activity Works

This document summarizes the evidence of how physical activity programming in the classroom, such as InPACT at School, can improve student performance, health, and well-being. Physical activity enhances:



Academic Performance

Short-term benefits:

- Physical activity has a positive effect on attention span which increases the time for learning²,
- Test scores and comprehension skills are positively associated with classroom physical activity¹⁹

Long-term benefits:

- Vigorous physical activity is positively associated with academic performance in boys and girls⁵
- Classroom physical activity increases cognitive skills and attitudes in all



Behavior Management

Short-term benefits:

- Physical activity can stabilize student mood and limit hyperactivityimpulsivity behaviors 10,11
- Classroom physical activity is a strategy for calming challenging emotions^{7,8}

Long-term benefits:

- InPACT can be used as a tier one behavioral approach for anxiety^{3, 9}
- Movement during class time shows an improvement of social behavior in class and among peers^{6,10}



Social-Emotional Learning

Short-term benefits:

- Engagement in school activities¹⁰
- Enhances the management of emotions⁷

Long-term benefits:

- Increase of social cohesion within the school setting⁶
- Increase in student self-awareness^{6,7,9}
- Increase in student self-confidence that can spill over to areas of a student's life12



Student Health

Short-term benefits:

- Physical activity helps maintain blood sugar levels throughout the
- InPACT aids in the accumulation of 20 physically active minutes (Five, four-minute breaks)^{14,15,18}

- Physical activity can improve memory and reduce depression 14,15
- Classroom physical activity improves blood pressure and bone strength
- InPACT is aligned with Michigan Model for HealthTM

Sources

1 Centers for Disease Control and Prevention. The Association Between School Based Physical Activity, including Physical Education, and Academic Performance. Atlanta, GA: U.S. Department of Health and Human Services (2010). 2Hasson, R.E., Beemer, L.R., Ajibewa, T.A. et al. (2021). Adapting the InPACT Intervention to Enhance Implementation Fidelity and Flexibility. Prevention Science. 22, 324-333 (2021). 3Beemer, L.R., Ajibewa, T.A., O'Sullivan, M.P., Nagy, M.R et al. Feasibility of the InPACT Intervention to Enhance Movement and Learning in the Classroom. Translational Journal of ACSM, 3(18), 136-151 (2018). 4Active Living Research. Active Education: Growing Evidence on Physical Activity and Academic Performance in Korean Adolescent Students. BMC Public Health. 12, 258 (2012). 655. W.Y. Association Between Physical Activity and Academic Performance in Korean Adolescent Students. BMC Public Health. 12, 258 (2012). 655. W.Y. Association Between Physical Activity and Academic Performance in Korean Adolescent Students. BMC Public Health. 12, 258 (2012). 659. W.Y. Association Between Physical Activity and Academic Performance in Korean Adolescent Students. BMC Public Health. 12, 258 (2012). 659. W.Y. Association Between Physical Activity Policies Can Support the Social and Emotional Climate and Learning. Allanta, GA: U.S. Department of Health and Human Services (2021). TDurities. Child Development. 82, 406-432 (2021). 459-81. Allanta, GA: U.S. Department of Health and Human Services (2021). 170-170. (2010).



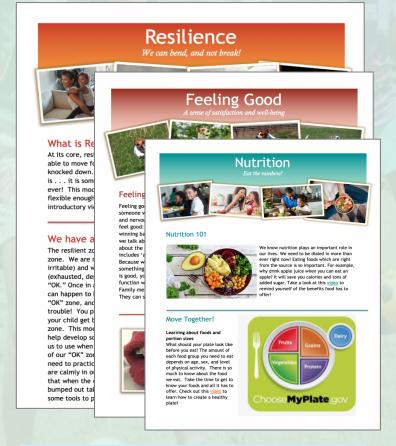


Improving the health and well-being of Michigan children and their families

The need: School closures during the COVID-19 pandemic eliminated many opportunities for youth to engage in structured exercise as many children lacked spaces to exercise or play sports in their neighborhoods.

The partnership: School district consultants, state and local legislators, regional school health coordinators, community outreach specialists, professional sports teams, behavioral interventionists, and implementation scientists across the state of Michigan came together to develop and disseminate a program to get kids moving at home.

The program: Interrupting Prolonged sitting with ACTivity (InPACT) at Home is an evidence-informed, home-based physical activity program that enables K-12 students to engage in health-enhancing physical activity during COVID-19 and beyond. The program includes a family engagement toolkit, physical activity play cards, which can be accessed in our interactive program website. Exercise videos are broadcast across the state on the Michigan Learning Channel.













Support for this program is provided in part by the Michigan Public Health Institute and the Michigan Department of Health and Human Services.

How Families Can Support Their Child's Movement Journey

This document summarizes the different types of support that families can offer their child to encourage daily physical activity participation. They include:



Emotional Support: providing your child with encouragement for physical activities.

- Encourage your child to be active.
- Offer praise when your child is being physically active.
- Talk about the types of physical activities you and your child both enjoy.
- Watch your child participate in physical activities.
- Encourage a positive attitude around physical activity.



Instrumental Support: offering logistical support for physical activity participation.

- Provide financial support for physical activity (i.e., baseball fees).
- Provide transport to physical activities.
- Provide equipment for a child to be physically active (i.e., soccer cleats).
- Keep up to date on physical activity opportunities in your community.
- Create an InPACT at Home family account to provide access to physical activity videos.



Informational Support: providing feedback on physical activities.

- Provide instruction or advice on how to be physically active.
- Discuss why physical activity is important for health and wellbeing.
- Help your child find educational resources for physical activity.
- Demonstrate the correct form when engaging in physical activity (i.e., how to throw a football, shoot a basketball, or hit a softball).
- Volunteer to help coach your child's sports team.



Co-Participation: participating in activities with your child.

- Go for a walk together.
- Complete an InPACT at Home video together.
- Play a game together using the InPACT at Home play cards.
- Volunteer and participate in your child's school field day.
- Hold a family dance night where you dance to each member of the family's current favorite song or learn a new dance together.
- Sign up for a family 5k race.
- Complete the InPACT at Home Challenge Calendars together.
- Plan and participate in a family physical activity day.

Source: Laird, Y., Fawkner, S., Kelly, P. *et al.* The role of social support on physical activity behaviour in adolescent girls: a systematic review and meta-analysis. *Int J Behav Nutr Phys Act* **13**, 79 (2016).