

# Evaluating the Effectiveness of an Organizational Skills Training Intervention for Children with Executive Function Difficulties

## Statement of Problem

Throughout early schooling, children are expected to increase their organization skills, and by 3rd grade experience a relatively high demand for these skills. Organization, time management and planning (OTMP) skills are behavioral manifestations of executive function, a cognitive ability associated with persistent goal-directed behavior. OTMP skills are strongly connected to a child's academic progress and lay the foundation for future success. Despite support from teachers to help foster these skills in late elementary school years, some students still struggle to develop OTMP skills, which can put them at increased risk for academic failure. These difficulties are particularly common among children with attention deficit/hyperactivity disorder (ADHD), and also co-occur with other conditions, including learning disorders and early experiences of care deprivation and stress.

In order to help build these critical skills for children with ADHD, our colleagues at New York University developed a clinic-based skills training intervention, known as [Organizational Skills Training](#) (OST), for students in 3rd through 5th grades who have ADHD and OTMP deficits. They initially adapted it for use in schools in small groups for a broader population of children. Our team further adapted the OST program in collaboration with the original developers as a Tier 2 intervention to be implemented in the context of a multi-tier system of support (OST-T2), and we evaluated the effectiveness of this program.

## Description

We conducted a cluster randomized controlled trial of OST-T2 in 22 schools serving a diverse population in the Greater Philadelphia region. As part of this project, general education teachers referred 3rd to 5th grade students whose OTMP deficits particularly impacted their academic performance to OST-T2, regardless of diagnosis.

This intervention used small group child skills training and interventions to promote both within session and between session practice of new skills, in addition to consultation to caregivers and teachers to support a child's acquisition and use of skills. The intervention was administered by school staff with training and consultation from study team members. The consultation included strategies to effectively implement OST-T2, as well as guidelines to adapt strategies to meet the needs of each school's uniquely diverse student body. Student sessions addressed four key organization challenges:

- tracking assignments
- managing materials
- managing time
- planning for long-term assignments

Each session includes cognitive framing to promote a growth mindset; teaches a specific skill that addresses one of the four organizational challenges; provides opportunities for practice of skills; and prepares students to practice skills between sessions. Caregivers and teachers receive consultation to help students practice skills between sessions.

Our primary study findings indicated that:

- Participation in OST-T2 results in immediate and short-term improvement in OTMP skills and homework performance among students in grades 3-5.
- OST-T2 is effective when delivered in a school setting by well-trained and supported school professionals as a small-group, Tier 2 intervention.
- Participation in OST-T2 appears to improve academic performance for a limited number of students; students with OTMP deficits and academic skills difficulties likely need targeted academic skills training in addition to OST-T2.
- The effects of OST-T2 were lower, although still perhaps meaningful, nine months after intervention when students advanced to the next grade level. Ongoing sessions to continue the practice likely would be useful to maintain the benefits of the program.

We also conducted additional analyses to understand whether subgroups of students respond differently to OST-T2. Findings of these analyses indicated that:

- Students with higher levels of anxiety according to caregivers demonstrated greater gains in OTMP skills and reductions in homework problems relative to students with lower anxiety.
- Students with and without ADHD generally experienced similar benefits during the program, based on OTMP skills ratings immediately after completing OST-T2. However, those with ADHD had more difficulty sustaining the benefits of intervention. Students with ADHD might benefit from booster sessions to maintain gains.
- Students from a range of socioeconomic backgrounds seem to benefit from OST-T2, as long as their schools have the resources to deliver the intervention and are supported by a consultant.
- Improvements in students' OTMP skills in response to participation in OST-T2 have downstream effects on students' homework and academic performance.

Additional research is needed to investigate whether OST-T2 can be effective under routine school conditions that can be supported by schools over time.

## **Next Steps**

Our team is examining whether the quality of intervention implementation by school professionals and the degree of engagement by participating students has an effect on outcomes.

Improving the OTMP skills of students likely has important downstream effects, including improved study skills and academic performance in middle and high school, which will increase the likelihood students stay in school and achieve social and occupational success in adulthood. In addition, training school professionals to provide the intervention on their own will substantially increase the capacity of schools to offer this intervention.

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## **Suggested Citation**

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## **Project Leads**

Thomas Power, PhD, ABPP

## **Jennifer Mautone PhD, ABPP**

### **Faculty Member**

Jennifer Mautone (she/her) is a faculty member at PolicyLab at Children's Hospital of Philadelphia (CHOP) and associate director of the Pediatric Research Consortium (PeRC) at CHOP. Dr. Mautone also supports primary care-based research for the Department of Child & Adolescent Psychiatry & Behavioral Sciences.

Dr. Mautone is a school psychologist with particular expertise in psychosocial interventions for treating ADHD and disruptive behavior disorders. She focuses on family-school-health system collaboration and integration of behavioral health services into pediatric primary care practices and schools. She also has a special interest in increasing access to high-quality, culturally responsive care for underserved children and families.

Dr. Mautone has served as co-principal investigator for a clinical trial funded by the Institute of Education Sciences to evaluate the effectiveness of an organizational skills treatment program in schools. She is also dual principal investigator for a comparative effectiveness trial funded by the Patient-Centered Outcomes Research Institute to further evaluate the Partnering to Achieve School Success program, an enhanced behavioral intervention for children with ADHD offered in primary care practices serving publicly insured children in Philadelphia. Additionally, Dr. Mautone serves as the program director for a Health Resources and Services Administration (HRSA) funded Behavioral Health Workforce Education and Training program

grant designed to provide interprofessional training in integrated primary care to build the work force of behavioral health clinicians prepared to address the behavioral health needs of children in high need/high demand areas. She is also part of the team working on implementation and evaluation of HealthySteps in primary care at CHOP.

She joined CHOP in 2007 and the faculty at the Perelman School of Medicine in 2014 and has been involved in research, teaching and clinical practice throughout her time at CHOP. Dr. Mautone received her PhD in pediatric school psychology from Lehigh University and completed a post-doctoral fellowship in clinical child psychology at the CHOP Center for Management of ADHD.



Jennifer Mautone

PhD, ABPP

Email: [MAUTONE@chop.edu](mailto:MAUTONE@chop.edu)

Jenelle Nissley-Tsiopinis, PhD

## Team

Jaclyn Cacia, MS, CCRC

Phylicia Fleming, PhD

Abbas Jawad, PhD, MSc

Russell Localio, PhD

Katie Tremont, MPH

Ami Patel, MA

Howard Abikoff, PhD

Richard Gallagher, PhD

## Funders of Project

Institute of Education Sciences

## Project Contact

Jennifer Mautone

[MAUTONE@chop.edu](mailto:MAUTONE@chop.edu)

## Related Tools & Publications

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[Multi-informant Assessment of Organizational Skills: Psychometric Characteristics of the Children's Organizational Skills Scale \(COSS\)](#)

[Article](#)

Apr 2024

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[School-based Organizational Skills Training for Students in Grades 3-5: A Cluster Randomized Trial](#)

[Article](#)

Oct 2024

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[School-based Organizational Skills Training for Upper Elementary Students: Subgroup and Mediating Effects](#)

[Article](#)

May 2026

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[Data-based Decision Making to Improve Organization, Time Management, and Planning: Screening and Progress Monitoring Tools](#)

[Article](#)

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