

2014 Research Annual Report

Mayerson Center for Safe and Healthy Children



Center Summary

RESEARCH AND TRAINING DETAILS

Number of Faculty	4
Number of Joint Appointment Faculty	4
Number of Support Personnel	7
Direct Annual Grant Support	\$298,448
Peer Reviewed Publications	8

CLINICAL ACTIVITIES AND TRAINING

Number of Clinical Staff	7
Number of Clinical Fellows	2
Number of Other Students	45
Inpatient Encounters	64
Outpatient Encounters	1,706

Center Photo



Row 1: E Messer, K Makoroff
Row 2: M Greiner, R Shapiro

Significant Accomplishments

Childhood Trauma Reduction Collaborative

The Mayerson Center has received two major gifts from the Domette and Schmidlapp Foundations to improve our community's recognition of and response to children exposed to trauma and adversity, otherwise known as toxic stress. Reducing childhood toxic stress exposure has become a public health priority and the subject of a national call to action. A child's exposure to toxic stress can cause brain and other developmental changes resulting in lifelong learning difficulties, behavior problems, social maladaptation, physical illness and mental health disorders. Through these gifts the Mayerson Center will develop a community collaboration to screen for toxic stress, including the increased risk for adverse experiences, and improve the medical and community responses to trauma.

Increased Trauma-Informed Mental Health Services

Increasing the mental health interventions for children and families who have been affected by child abuse has become a Mayerson Center priority. Expanding capabilities to provide trauma-informed treatment to more children and families through additional staff and new services has helped to accomplish this strategic initiative.

The Mayerson Center now offers a new acute, short-term mental health treatment called Child Family Traumatic Stress Intervention (CFTSI). [April Barker-Casey, LISW](#), has joined the Mayerson Center to provide

CFTSI, an intervention designed to help children and adolescents ages seven to 18 who have experienced potentially traumatic events such as sexual abuse, physical abuse, domestic violence, community violence, and accidents. The primary goals of CFTSI are to decrease post-traumatic symptoms and disorders and to identify individuals in need of more intensive treatment.

In a long standing collaboration with Behavioral Medicine and Clinical Psychology, children exposed to traumatic events and children evaluated for abuse and neglect have access to trauma-informed mental health services through the Mayerson Center. This program has expanded through the addition of a third full-time staff psychologist, **Julie Tiemeier, PsyD**, who joins **Heather Bensman, PsyD**, and **Erica Messer, PsyD**, in providing these much needed services.

National/International Training Expert

This year we celebrate the success of Messer, who was certified as a Level II Parent-Child Interaction Therapy (PCIT) trainer. PCIT is an evidence-based treatment supported by over 30 years of research and practice by PCIT providers throughout the U.S. and internationally (www.pcit.org). This therapy is useful for children ages two to seven who have disruptive behavior disorders and for parents who are at-risk for or requiring rehabilitation of physically abusive parenting. PCIT is an assessment-driven, criteria-based therapy which focuses on improving positive child behaviors through a strong parent-child relationship. Messer, one of fewer than 10 Level II trainers worldwide, conducts PCIT training workshops for clinicians around the world.

Division Publications

1. Auble BA, Bollepalli S, Makoroff K, Weis T, Khoury J, Colliers T, Rose SR. **Hypopituitarism in pediatric survivors of inflicted traumatic brain injury.** *J Neurotrauma.* 2014; 31:321-6.
2. Greiner MV, Richards TJ, Care MM, Leach JL. **Prevalence of subdural collections in children with macrocrania.** *AJNR Am J Neuroradiol.* 2013; 34:2373-8.
3. Keeshin BR, Luebbe AM, Strawn JR, Saldana SN, Wehry AM, DelBello MP. **Sexual abuse is associated with obese children and adolescents admitted for psychiatric hospitalization.** *J Pediatr.* 2013; 163:154-9 e1.
4. Keeshin BR, Strawn JR. **Psychological and pharmacologic treatment of youth with posttraumatic stress disorder: an evidence-based review.** *Child Adolesc Psychiatr Clin N Am.* 2014; 23:399-411, x.
5. Keeshin BR, Strawn JR, Luebbe AM, Saldana SN, Wehry AM, DelBello MP, Putnam FW. **Hospitalized youth and child abuse: a systematic examination of psychiatric morbidity and clinical severity.** *Child Abuse Negl.* 2014; 38:76-83.
6. Keeshin BR, Strawn JR, Out D, Granger DA, Putnam FW. **Cortisol awakening response in adolescents with acute sexual abuse related posttraumatic stress disorder.** *Depress Anxiety.* 2014; 31:107-14.
7. Scribano PV, Makoroff KL, Feldman KW, Berger RP. **Association of perpetrator relationship to abusive head trauma clinical outcomes.** *Child Abuse Negl.* 2013; 37:771-7.
8. Wilson PM, Chua M, Care M, Greiner MV, Keeshin B, Bennett B. **Utility of head computed tomography in children with a single extremity fracture.** *J Pediatr.* 2014; 164:1274-9.

Faculty, Staff, and Trainees

Faculty Members

Robert Shapiro, MD, Professor

Leadership Division Director, Mayerson Center for Safe & Healthy Children; Program Director, Pediatric

Sexual Assault Nurse Examiner (PSANE)

Research Interests Child abuse diagnosis, Community indicators of maltreatment, medical child abuse, toxic stress

Mary Greiner, MD, Assistant Professor

Leadership Director, CHECK Foster Care Clinic-within General & Community Pediatrics

Research Interests Outcomes of children in Foster Care including: standardized screening; community collaboration for improving outcomes; infectious disease; mental health interventions and optimizing medical care for transitioning out of foster care.

Brooks Keeshin, MD, Assistant Professor

Leadership Mental Health Director, Mayerson Center for Safe and Healthy Children

Research Interests Trauma focused therapy for children with history of trauma; Acute and long term impact of abuse; Child abuse prevention in high risk populations

Kathi Makoroff, MD, MEd, Associate Professor

Leadership Medical Director, Mayerson Center for Safe and Healthy Children; Fellowship Director, Child Abuse Pediatrics; Director, Child Abuse Pediatrics Resident/Medical Student Elective; Medical Director, CME; Chair of CME Committee

Research Interests Head trauma, Bruises as indicators of abuse, Education, toxic stress

Joint Appointment Faculty Members

Heather Bensman, PsyD, Assistant Professor (Behavioral Medicine and Clinical Psychology)

Research Interests Treatment outcomes for children who have experienced trauma; Long-term impact of child abuse; Impact of trauma on physical health

Elena Duma, MD, Assistant Professor (Emergency Medicine)

Research Interests Education

Erica Messer, PsyD, Assistant Professor (Behavioral Medicine and Clinical Psychology)

Research Interests PCIT therapy; Child and Family Traumatic Stress Intervention; Children in foster care; Effects of maternal depression on children

Julie Tiemier, PsyD, Adjunct (Behavioral Medicine and Clinical Psychology)

Research Interests Child Trauma Interventions, including Trauma-Focused Cognitive-Behavioral therapy, Parent-Child Interaction therapy, and Combined Parent-Child Cognitive-Behavioral Therapy

Clinical Staff Members

- **April Barker-Casey, MSW, LISW-S**,
CFTSI Therapist
- **Tracy Colliers, MSW, LSW**,
Post Injury Clinic Coordinator
- **Mina DeVine, RN-1**,
PSANE
- **Cecilia Freihofer, MSW, LISW**,
HIV follow-up specialist
- **Alex Kruthaupt, BS**
- **Heidi Malott, MSW, LISW-S**,
Clinical Program Manager

- **Andrea Powers, LISW-S, ACSW, BCD,**
Darkness to Light/Stewards of Children Facilitator
- **Andrea Richey, MSW, LSW,**
Darkness to Light/Stewards of Children Facilitator
- **Kaitlin Riffle, RN-2,**
PSANE Program and Education Coordinator

Trainees

- **Melissa Jimenez, MD,** PGY-6, Tulane University
- **Kirsten Simonton, MD,** PGY-5

Division Collaboration

Epigenetic Underlying PTSD Related to Child Abuse. (Robert Shapiro, MD and Kathi Makoroff, MD)

Biostatistics and Epidemiology » Ping-I (Daniel) Lin, MD, PhD

The Relationship of Parental ACE Scores to Child Health. (Robert Shapiro, MD and Kathi Makoroff, MD)

Biostatistics and Epidemiology » Alonzo (Ted) Folger, PhD, MS

Clinical Decision Rules to Discriminate Bruising. (Kathi Makoroff, MD)

Emergency Medicine » Berkeley Bennett, MD

I-INTERACT RCT Study. (Kathi Makoroff, MD)

Physcial Medicine and Rehabilitation » Shari Wade, PhD

Psychological Services for Safe and Healthy Families. (Robert Shapiro, MD, and Brooks Keeshin, MD)

Behavioral Medicine and Clinical Psychology » Erica Pearl Messer, PsyD, Julie Tiemeier, PsyD, and Heather Bensman, PsyD

Skeletal survey study looking at utility of head CT in children with single extremity fractures. (Kathi Makoroff, MD)

Emergency Medicine » Berkeley Bennett, MD

Benign Enlargement of Subarachnoid Spaces and Abusive Head Trauma

(Mary Greiner, MD)

Radiology » Marguerite Care, MD and James Leach, MD

Nonconvulsive Status Epilepticus and Abusive Head Trauma

(Mary Greiner, MD)

Neurology » Hans Greiner, MD and Katie Holland, MD, PhD

Grants, Contracts, and Industry Agreements

Grant and Contract Awards

Annual Direct

SHAPIRO, R

Victims of Crime Assistance

Department of Justice(Crime Victims Assistance Office)

2013VADSCE483	10/01/12-09/30/17	\$38,087
Child Abuse Prevention and Treatment		
Adminstration for Children and Families (Ohio Department of Jobs and Family Services)		
G-1415-06-0471	07/01/13-06/30/15	\$73,024
National Children's Alliance		
Department of Justice		
07-CINC-OH-SA14	01/01/14-12/31/19	\$9,000

OLAFSON, E

Center for Trauma Recovery and Juvenile Justice		
Substance Abuse and Mental Health Services Adminstration(University of Connecticut Health Center)		
U79 SM 061273	09/30/12-09/29/16	\$114,137
Trauma Focused Cognitive Behavioral Therapy Consultation		
Indiana Department of Child Services		
2014-TC-W0-1761	11/1/13-10/31/14	\$60,000
Center for Trauma Recovery and Juvenile Justice		
Ohio Department of Health(Ohio University Colloge of Osteopathic Medicine)		
H79 SM 059345	09/30/13-12/31/13	\$4,200

Current Year Direct \$298,448

Funded Collaborative Efforts

MAKOROFF, K

Clinical Decision Rules to Discriminate		
National Institutes of Health		
Bennett, B	04/01/11-3/31/16	10%

Total \$298,448