The Relationship Between Emotional Intelligence and Depressive Symptoms in Children with ADHD

Bethany Ee, B.A., Christina Gray, M.Sc., & Emma A. Climie, Ph.D.

INTRODUCTION

- Approximately 20-30% of children with ADHD experience depression. Many functional consequences of ADHD, such as impairments in peer relationships and academic performance, contribute to the development of depressive symptoms (Barkley et al., 2008).
- Emotional Intelligence (EI) is the ability to recognize, understand, and use emotions to solve problems (Denham et al., 1990).
- Ability EI refers to the ability to perceive, integrate, understand, and regulate emotions to promote personal growth (Mayer et al., 2001) while Trait EI refers to one's interpersonal and intrapersonal skills and adaptability to the environment (Bar-On & Parker, 2000).

CURRENT STUDY

- This study examines the relationship between EI and depressive symptoms in children with ADHD and investigates EI as a mediator of any association between depressive symptoms and ADHD.
- We hypothesize that ADHD is a significant predictor of depressive symptoms, and that this relationship is mediated by EI.

METHODS

PARTICIPANTS

n = 56 families of children between the ages of 8 to 12.

Participants		ADHD	Controls				
Age	M (SD)	10.51 (1.29)	10.00 (1.32)				
Male	n (%)	13 (59.10)	20 (58.80)				
Total	(n = 56)	22	34				
		MEASURES					
ADHD	Conners-3	Conners-3 Rating Scale, Parent Short (Conners-3P[S])					
Ability FI	Maver-Sa	Mayer-Salovey-Caruso Emotional Intelligence Test -					

Ability ElMayer-salovey-Caruso Emotional Intelligence Test
Youth Research Version (MSCEIT-YRV)Trait ElBar-On Emotional Quotient Inventory: Youth
Version, Short (BarOn EQ-I:YV[S])Depressive
SymptomsChildren Depression Inventory-Second Edition,
Self-Report Short Version (CDI2:SR[S])

PROCEDURE

Standardized regression coefficients for the

relationship between ADHD and depressive

symptoms as mediated by Trait El

Trait El

c = .42, p = .001

(c' = .27, p = .041)

b = -.47

p < .001

Depression

Symptoms

Participants participated in a 3-hour session at the University of Calgary in exchange for a \$25 gift card.

a = -.43

p = .001

ADHD

DISCUSSION

• Children with ADHD reported lower Trait El but comparable Ability El to controls, suggesting that children with ADHD demonstrate age-appropriate knowledge of emotional abilities, but struggle with applying it to real-life situations.

University of Calgary

Strengths in ADHD Lab

- Behavioural and social-emotional interventions for children with ADHD may shift their focus from knowledge acquisition to skill implementation.
- Trait EI, but not Ability EI, significantly predicted depressive symptoms.
- ADHD significantly predicted level of depressive symptoms in children, and this relationship is significantly mediated by Trait EI, suggesting that EI may be considered as either a protective factor that helps children cope with adversity and negative experiences, or a global risk factor for internalizing symptoms and psychopathology.
- As ADHD and depression share many clinical correlates, EI may be conceptualized as a crucial transdiagnostic mechanism that predicts or explains the relationship between ADHD and depression.

REFERENCES

- Barkley, R. A., Murphy, K. R., & Fischer, M. (2008). ADHD in adults: What the science says. New York, NY, US.
- Bar-On, R. E., & Parker, J. D. (2000). The handbook of emotional intelligence: theory, development, assessment, and application at home, school, and in the workplace. Jossey-Bass.
- Denham, S. A., McKinley, M., Couchoud, E. A., & Holt, R. (1990). Emotional and behavioral predictors of preschool peer ratings. *Child development*, 61(4), 1145-1152.
- Mayer, J. D., Salovey, P., Caruso, D. R., & Sitarenios, G. (2001). Emotional intelligence as a standard intelligence. *Emotion*, 1(3), 232-242.

Depressive symptoms and EI in children with and without ADHD		ADHD	Controls		
	Variable	M (SD)	M (SD)	t	Cohen's d
	Depressive Symptoms	63.18 (14.55)	51.79 (10.38)	3.18**	.90
	Trait El	86.68 (8.98)	98.50 (14.21)	-3.47**	.99
	Ability El	102.41 (12.85)	101.87 (11.09)	.16	.04
		** indicate $p < .05$			
El predicting levels of depressive symptoms	Predictor Variable	F	β		р
	Trait El Total Score	15.53	47	< .001	
	Ability El Total Score	.47	10		496

RESULTS