Mental Health Challenges and Emotion Dysregulation: In-Person vs. Online Cognitive Behaviour Therapy for Autistic Youth



Nicole Eddy, Caitlyn Gallant & Jonathan A. Weiss | Department of Psychology, York University

Introduction

- Mental health challenges are common among autistic youth¹
 - Often accompanied by emotion regulation difficulties: A child's ability to effectively monitor and modulate their emotional reactions²
- Cognitive behavioural therapy (CBT) may be an effective way to address emotion regulation difficulties
- With COVID-19 pandemic, rapid shift from in-person to online CBT; yet limited research examining the effectiveness of this adapted format

Objective: To evaluate the benefits of a manualized CBT program delivered online or in-person— to address emotion dysregulation in autistic children

Methods

Secret Agent Society: Operation Regulation (SASOR) Program: Autistic children and their parents attended 10 weekly in-person individual therapy sessions at York University

Virtual Secret Agent Society (VSAS) Program: delivered remotely via Zoom

SAS:OR includes planned systematic exposures, mindfulness and acceptance activities, teaching of regulation strategies and used the same activities and content across modalities³

Participants

Table 1. Participant demographic information

	In-Person (SASOR)	Virtual (VSAS)
n	42	20
Mean Age (SD)	9.50 (1.45)	10.15 (1.27)
% Male	78.6%	85%
% White/Caucasian	66.7%	65%

Parent-reported Outcome Measures

- Emotion Regulation and Social Skills Questionnaire (ERSSQ)⁴: Child competency in the skills/behaviours that are taught in the program (e.g., identifying emotions, use of coping strategies)
- **KIDSCREEN-27** (KP-27)⁵: Child's health-related quality of life across multiple domains (e.g., physical activities and health, psychological wellbeing, parent relations and autonomy, peers, school and learning)
- Behaviour Assessment System for Children— Third Edition (BASC-3)6: Four composite scores: externalizing, internalizing, adaptive skills, and behavioural symptoms index

Results

- 2 (Group: SASOR, VSAS) x 2 (Time: Pre-scores, post-scores) Mixed ANOVAs were conducted to compare pre- to post-program changes
 - For BASC Ext, Int, and BSI, lower post scores indicate improvements
 - For BASC AS, ERSSQ, and KP-27, higher post scores indicate improvements

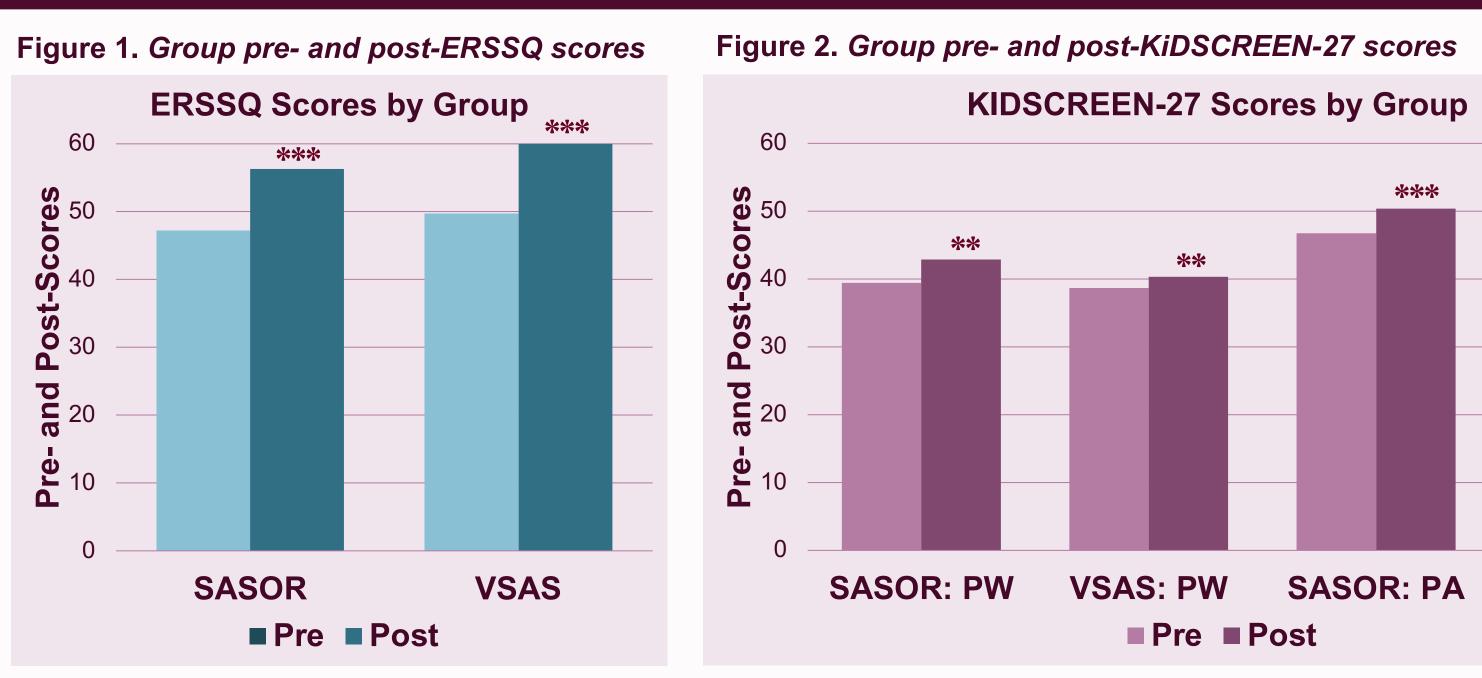
Pre- to post-program changes in emotion regulation and mental health symptoms did not vary with treatment modality^a

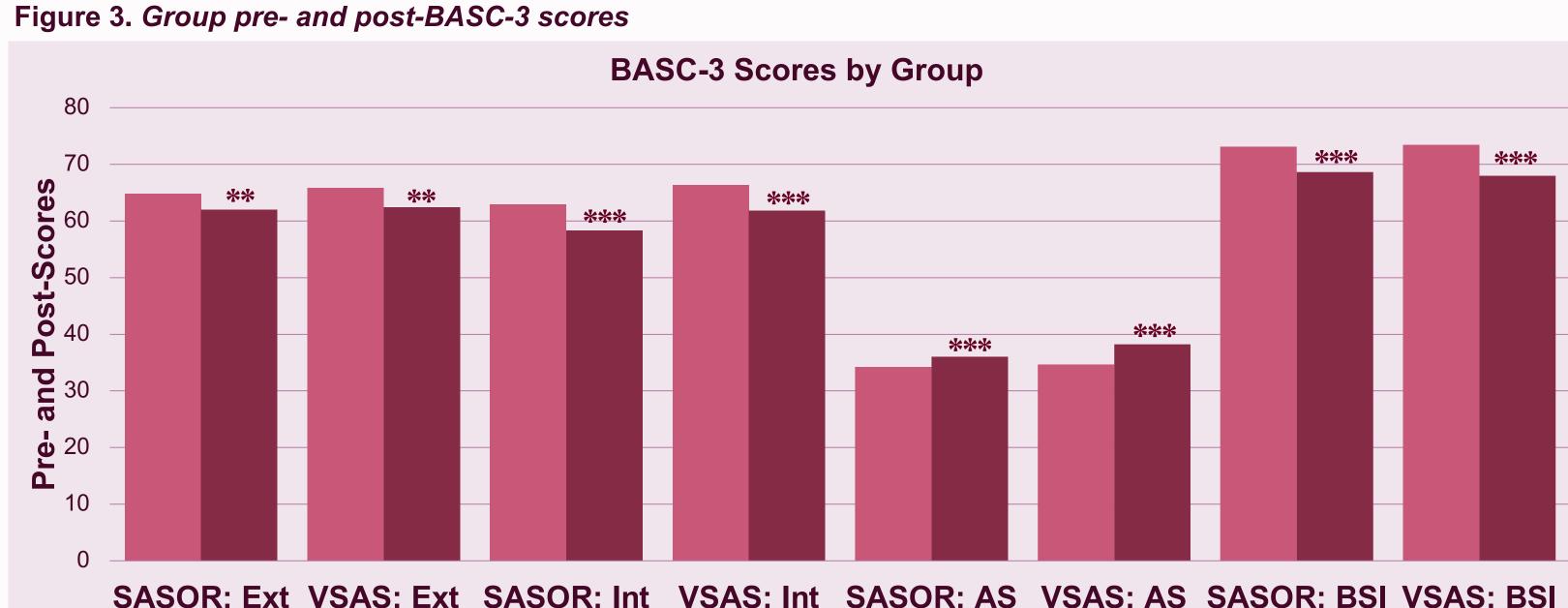
More severe pre-intervention challenges were associated with greater improvements postprogramb

This research provides support for the use of an adapted, online CBT, to address emotion regulation difficulties of autistic youth

^aOne exception: Only the SASOR group seen improvement in participants' relationships with their parent and autonomy. bSpecific association varied between the two groups

Results (cont.)



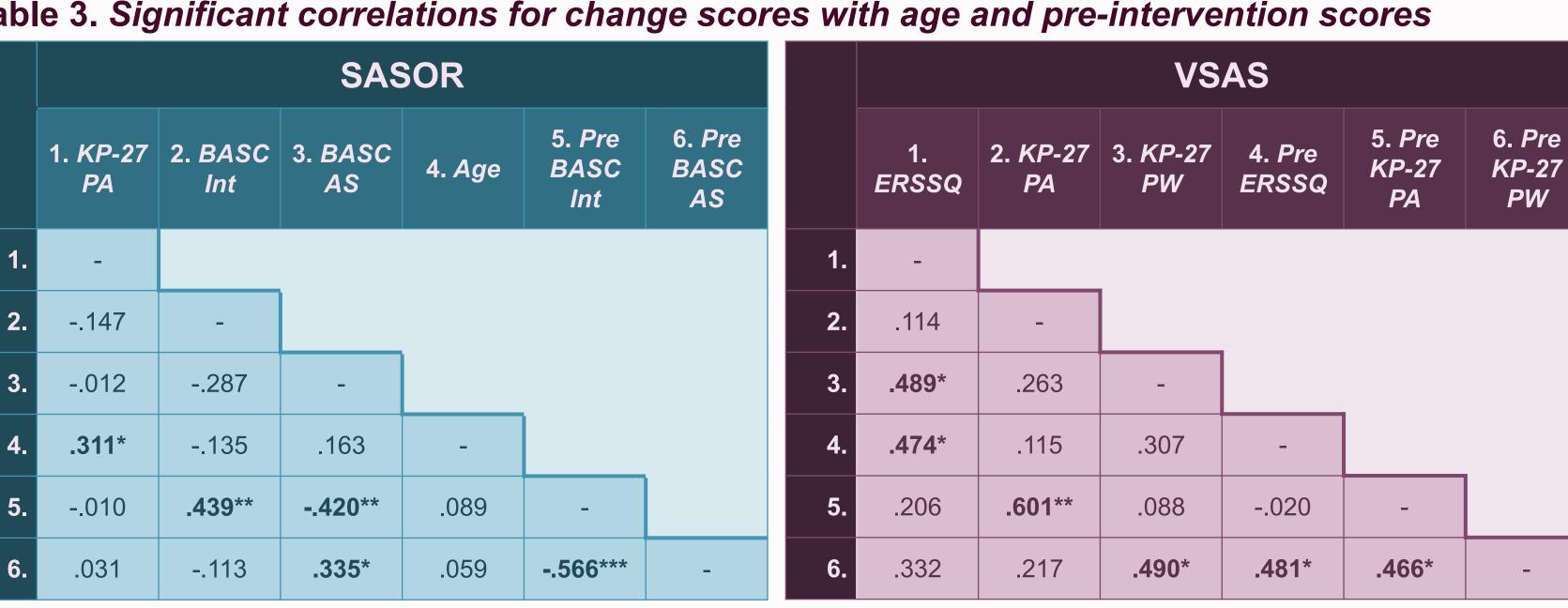


*p < .05, **p < .01, *** p < .001.

Pearson's correlations were used to examine associations among demographic variables, pre-program scores, and change scores.

■ Pre ■ Post

Table 3. Significant correlations for change scores with age and pre-intervention scores



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⁶ Revnolds, C. R. & Kamphaus, R. W. (2015), BASC-3: Behavior assessment system for children, third edition, NCS Pearson, Inc.