Transdiagnostic Pathways to Understanding Anxiety and Depression in Autistic Adolescents and Adults

*Lauren P. Lawson^{1,2}, *Amanda L. Richdale¹, Alexa Chalmers², Mirko Uljarevic³, Eric M. J. Morris², Samuel R. C. Arnold⁴, & Julian N. Trollor⁴

¹Olga Tennison Autism Research Centre, School of Psychology, Counselling and Therapy, School of Psychology and Public Health, La Trobe University, Melbourne, Australia; ³Department of Psychiatry and Behavioral Sciences, School of Medicine, Stanford University, San Francisco, CA, USA; ⁴Department of Developmental Disability Neuropsychiatry, Discipline of Psychiatry and Mental Health, UNSW Medicine & Health, UNSW & Health University of New South Wales, Sydney, Australia; *co-first authors





BACKGROUND

- Anxiety and depression frequently co-occur among autistic individuals
- Co-occurring condition rates exceed non-autistic prevalence rates
 - Lifetime rates of anxiety and depression are 42% and 37% respectively (Hollocks et al. 2019)
 - Up to 89% autistic adults report insomnia symptoms (Joveska et al., 2020, Leader et al., 2021)
 - GI disorders and cardiovascular disease are reported for 37.4% and 37% respectively (Croen et al., 2015)
- Co-occurring conditions are linked to **unemployment** (Baker et al., 2019; Hedley et al., 2021) and reduced quality of life (Lawson et al., 2020; Leader et al., 2021)
- Transdiagnostic factors (e.g., insomnia, autistic traits, intolerance of uncertainty, sensory sensitivity, and autonomic symptoms) have been linked to anxiety and depression
- Understanding influence of transdiagnostic factors on development and maintenance of anxiety and depression is critical to developing effective support options



Use a single model to explore relationships between transdiagnostic factors, autistic traits, insomnia, anxiety, and depression in a sample of autistic adolescents and adults



For more information Dr Lauren Lawson | Email: I.lawson@latrobe.edu.au





222 autistic people aged 15-80 years



Model	χ² (df)	RMSEA	CFI	TLI	SRM
Model 1					\checkmark
Model 2					
Model 3					
Model 4					
Note: RMSEA= Roc	t Mean Square Error	of Approximation. The	Tucker-Lewis Index (1		Fit Index (

NOTE. KINISEA- KOOT MEAN SQUARE ERROR OF APPROXIMATION; THE TUCKER-LEWIS INDEX (TLI); COMPARATIVE FIT INDEX (CFI); Standardised Root Mean Square Residual (SRMR)



DEVELOPMENTAL



Funding Statement: We gratefully acknowledge the cooperation and participation of all autistic participants involved in this study. All authors acknowledge the financial support of the Cooperative Research Centre for Living with Autism (Autism CRC), established and supported under the Australian Government's Cooperative Research Centres programme. The positions held by LPL, MU & SRCA were funded by the Autism CRC at various times during data collection and/or analysis of this data.







Australian Government Department of Industry, Science Energy and Resources

Path analysis

Significant Indirect Pathways

Autism traits \rightarrow Anxiety \rightarrow Depression

- $IU \rightarrow Anxiety \rightarrow Depression$
- Sensory Sensitivity \rightarrow Insomnia \rightarrow Depression
- Sensory Sensitivity \rightarrow Insomnia \rightarrow Anxiety \rightarrow Depression
- Autonomic symptoms \rightarrow Insomnia \rightarrow Depression
- Autonomic symptoms \rightarrow Insomnia \rightarrow Anxiety \rightarrow Depression
- Insomnia \rightarrow Anxiety \rightarrow Depression



autismcrc.com.au @autismcrc

AusIndustry Cooperative Research Centres Program