

ADHD Research Digest

September 2021, Issue 3

Message from the Chair



As students and faculty return to inperson and to hybrid learning this fall, we wish all students and faculty a successful academic year! In this Digest issue, we reflect on the impacts of the pandemic and what the 'new normal' may look like for Canadian ADHD researchers.

In CADDRA's June 2021 survey, we asked about the negative and positive impacts of the pandemic,

on both work and personal lives of ADHD researchers. We also inquired about changes that may occur as a result, and any possible benefits of these changes. The results are published in this Digest.

As academic hallways fill and researchers in ADHD labs begin face-to-face collaboration again, we invite you to submit any comments or reflections on post-pandemic research life for publication in our next issue.

We hope to "see" you all at our 8th Annual ADHD Research Day on Friday, October 1. Registration is open. The annual CADDRA ADHD Conference will follow on October 2-3.

Submit information on post-pandemic life to Stacey. Espinet@caddra.ca.

Maggie Toplak Ph.D., C.Psych.

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CADDRA Research Committee Chair

In This Issue

- Message from the Chair, Page 1
- CADDRA Research Committee, Page 1
- CADDRA Survey for ADHD Researchers, Pages 2 - 3
- CADDRA Member Research Achievements, Page 4
- Student Research Achievements, Page 5
- Application Deadline, Page 5
- Study Recruitment, Page 5
- Online Event, Page 5
- ADHD Research in the News, Page 6
- 2021 ADHD Research Day, Pages 7 10

Editors:

Anne-Claude Bedard Ph.D. Brandy Callahan Ph.D., R.Psych.

CADDRA 2021 Research Committee

Committee members will oversee planning of Research Day and implementation of CADDRA's mission and research agenda identified as part of CADDRA's overall strategic plan.

Anne-Claude Bedard Ph.D. Debra Butt M.Sc., M.D., C.C.F.P. Brandy Callahan Ph.D., R.Psych. Emma A Climie Ph.D., R.Psych. Penny Corkum Ph.D. R.Psych. Natalie Grizenko M.D., F.R.C.P.C. Lily Hechtman M.D., F.R.C.P. Yuanyuan Jiang Ph.D., C.Psych. Martin Katzman M.D., F.R.C.P.C. Carlin J Miller Ph.D., C.Psych. Maria Rogers Ph.D., C.Psych. Sarojini Sengupta Ph.D. Maggie Toplak Ph.D., C.Psych.

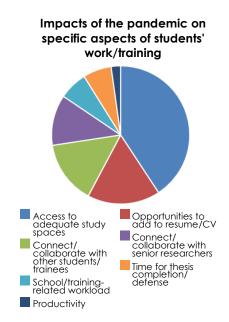
September 2021, Issue 3

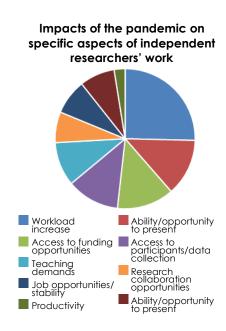
CADDRA Survey for ADHD Researchers

The results are in.

In June 2021, CADDRA sent out a survey to the ADHD research community to ask about the impact of the pandemic on the work, training and personal lives of independent researchers and trainees. We received answers from across Canada (N = 68). Three-quarters of respondents identified as female. Just over half were based in university settings, with the rest in hospital and community-based organizations, and over half were students (at or below the post doctorate level) with the rest being professors/lecturers and/or independent researchers.

Participants were asked to rate aspects of their work/training and personal life functioning from -10 (fully decreased) to 10 (fully increased) with a slider scale starting at 0 (indicating no impact). All respondents were asked the same questions regarding their personal lives but could skip questions if not applicable. In order to understand impacts of the pandemic specific to students or independent researchers, each group was asked separate questions relevant to their level of training and research work. Although the average impact in some areas neared 0, all impacts were in a negative direction.







"

The impact of COVID on ADHD symptoms is going to make diagnosis more difficult on a clinical level. On a research level, I think we need to consider the overlapping symptoms between ADHD, anxiety and trauma more clearly to ensure we are actually studying ADHD and not a side effect of COVID.

"

September 2021, Issue 3

CADDRA Survey for ADHD Researchers

What was the overall impact of the pandemic on your training?

- Positive: online conferences, discussions, engaging with colleagues and thinkers around the world.
- Redesigned my research which resulted in a better study but was stressful and repeatedly delayed because of school shutdowns.
- Was able to pivot to online research and keep timelines, but was difficult for scheduling, follow-through of participants for research. Also made it very difficult to keep up clinical hours.
- As a clinical trainee, the stay-at-home order resulted in less-than-ideal training on assessment measures that are required for coursework, clinic training, and pre-practica exposure.

What has been the overall impact of the pandemic on your personal life?

- There is a sense of collective trauma experienced during the pandemic, however, I have also spent more time with myself and my family than I otherwise would have been able to which is a positive aspect.
- Positive regarding family and being able to spend time with them, negative as I feel even more behind on work than before.
- Missed socializing but spent more time with family including my children which was good. Explored the local area and spent more time walking and having work breaks.

What were the experiences of ADHD researchers balancing work and parenting responsibilities?

Of the respondents with children at home, 80% felt they couldn't give 100% at work and 73% had to reduce their work hours. Many reported having to postpone publishing or presenting their research (47%), or applying for a grant (20%)

Did ADHD researchers gain any new research or collaborative opportunities during the pandemic?

Despite the overall negative impacts of the pandemic on ADHD researchers' work and personal lives, 51% said they gained new opportunities and collaborations. These were often COVID-related research opportunities.

Has the pandemic changed the way your research is conducted? If so, how?

For 57% of respondents, the pandemic changed the way they conduct research, with their research moving to either fully or partly online.

Will the pandemic change your ADHD research focus/questions? If so, how?

56% said the pandemic will change their future research focus and questions, mainly to a focus on assessing impacts of the pandemic.

Do you expect the pandemic to change patient participation in ADHD research? If so, how?

73% felt that patient participation in ADHD research will change. Comments indicated an expectation that the move to online research will improve accessibility to research participation and collaboration for people with ADHD. Respondents felt that the need for creativity during the pandemic increased flexibility around research methodology and patient research retention methods. Some felt that that the pandemic highlighted patient needs that will inform future research and others felt that the pandemic increased patient willingness to engage in research to improve treatment options.

Concerns around patient participation in research were also expressed. Some perceived an increase in individuals/parents seeking ADHD diagnosis and neuropsychological assessments which they felt may not be reflective of true ADHD. Concern was expressed that research conducted during COVID will not be generalizable.

Some felt that families may be more resistant to research participation due to the extra complexity required to comply with COVID measures and because individuals and families are stretched and have added stress after coping with the pandemic.

How will the pandemic impact your future research questions/focus?

I think it will be important to understand how things have changed from before, need to better understand this new normal.

September 2021, Issue 3

CADDRA Member Research Achievements

CADDRA member names are bolded.

Publications

Sex-dependent complex association of TPH2 with multiple dimensions of ADHD. Fageera W, Sengupta SM, Fortier MÈ, Grizenko N, Babienco S, Labbe A, Joober R. Progress in Neuro-Psychopharmacology and Biological Psychiatry, 2021.

The Association between ADHD and the Severity of COVID-19 Infection. Merzon E, Weiss MD, Cortese S, Rotem A, Schneider T, Craig SG, Vinker S, Golan Cohen A, Green I, Ashkenazi S, Weizman A. Journal of Attention Disorders, 2021.

Effect of a Multi-Layer, Extended-Release Methylphenidate Formulation (PRC-063) on Sleep in Adults with ADHD: A Randomized, Double-Blind, Forced-Dose, Placebo-Controlled Trial Followed by a 6-month Open-Label Extension. **Weiss MD**, Surman C, Khullar A, He E, Cataldo M, Donnelly G. CNS Drugs, 2021.

Study of functional impairment in students of elementary and secondary public schools in Iran. Hadianfard H, Kiani B, **Weiss MD**. Journal of the Canadian Academy of Child and Adolescent Psychiatry, 2021.

Review: Adult Outcome as Seen Through Controlled Prospective Follow-up Studies of Children With Attention-Deficit/Hyperactivity Disorder Followed Into Adulthood. Cherkasova MV, Roy A, Molina BS, Scott G, Weiss G, Barkley RA, **Biederman J**, Uchida M, Hinshaw SP, Owens EB, **Hechtman L**. Journal of the American Academy of Child & Adolescent Psychiatry, 2021.

Pharmacokinetics and perceptions of children and young adults using Cannabis for ADHD and ODD: A Mixed-Methods Proof-of-Concept Study. Mansell H, Quinn D, Kelly L, Szafron M, Alcorn J. PREPRINT, 2021.

Description of neurodevelopmental phenotypes associated with 10 genetic neurodevelopmental disorders: A scoping review. Hanly C, Shah H, Au PY, **Murias K**. Clinical Genetics, 2021.

Externalising Behaviour in Children: An Integrative Model Between Health and Education. Rungan S, Montgomery A, Smith-Merry J, Liu HM, **Eastwood J**. PREPRINT (Version 1), 2021.

Contributions of Friends' Problem Behaviors to Friendship Quality in a Sample of Children with ADHD. **Normand S**, Miller NV, Mikami AY. Journal of Clinical Child & Adolescent Psychology, 2021.

Parenting Children with ADHD: Associations with Parental Depression, Parental ADHD, and Child Behavior Problems. Smit S, Mikami AY, **Normand S**. Journal of Child and Family Studies, 2021.

Effects of the Parental Friendship Coaching Intervention on Parental Emotion Socialization of Children with ADHD. Smit S, Mikami AY, **Normand S**. Research on Child and Adolescent Psychopathology, 2021.

Exploring the Relationship Between ADHD Symptoms and Daily Cannabis Consequences in Emerging Adulthood: The Role of Cannabis Motives. **Goldstein AL**, Shifrin A, Katz JL, Iu LK, Kofler D. Journal of Studies on Alcohol and Drugs, 2021.

ADHD and healthy lifestyle behaviour. Jiang Y., & Cho M. (2021). Children and Adults with Attention Deficit Hyperactivity Disorder (CHADD): Attention Magazine, 2021.

Is ADHD related to creativity? **Jiang Y.**, & Cho M. (2021). Children and Adults with Attention Deficit Hyperactivity Disorder (CHADD): Attention Magazine, 2021.

Funding Recipients

Emma Climie and **Brandy Callahan** (co-Pls) have received a SSHRC Explore: Enhancement Grant to fund a project entitled Factors supporting resilience in adults with mild, moderate and severe features of ADHD.

Brandy Callahan received a Rapid Program in Dementia (RAPID) Funding Grant from the Alzheimer's Association to fund a project entitled Cognition in mild cognitive impairment and adult attention-deficit disorder.

We Want to Hear from You!

This digest will highlight achievements by CADDRA members and students.

Please submit contributions by the first of each publication month (March, June, September, December).

Email: stacey.espinet@caddra.ca.

September 2021, Issue 3

Student Achievements

This section highlights achievements by CADDRA student members or students of CADDRA members (names bolded below).

Thesis Defense

Lara Ipekian, Department of Psychiatry, McGill University, successfully defended her MSc thesis entitled Comorbidity in adults with attention deficit hyperactivity disorder with math and reading specific learning disorders. Supervisor, Dr. Lily Hechtman

Himanthri Weerawardhena, University of Calgary, successfully defended her MSc thesis entitled "Do Age and Personality Traits Moderate the Association Between ADHD and Executive Functioning?"

Supervisor, Dr. Brandy Callahan

Pooneh Montazeralsedgh, Saint Paul University, successfully defended her MA thesis (April 2021), current Ph.D. student. **Supervisor**, **Dr. Yuanyuan Jiang**

Application Deadline

Funding Calls

OBI-GEEK - Funding Opportunity: The GEEK (Growing Expertise in Evaluation and Knowledge Translation)
Deadline: October 1, 2021
Apply here

Study Recruitment

University of Calgary, Strengths in ADHD Study: looking for children 8 to 17 years of age to participate.

Download the flyer.

Saint Paul University, Parent-Teacher Study at the ABC Lab.
Read more

Online event



During this evening class with clinical psychologist, Dr. Maria Rogers, participants learned how children and youth have been impacted by Covid-19, and how parents are uniquely situated to help develop their children's resilience this Fall.



MEMBERSHIP

What do our members appreciate about being part of CADDRA?

"As a graduate student, I enjoy connecting with Canadian researchers through the annual ADHD conference and research day."

"Opportunities to expand and develop research with collegial members."

"Networking with professionals with similar clinical and research interests."

Join Our Network! caddra.ca/membership

Need to Recruit Study Participants?

Advertise at no cost on the CADDRA website.

Complete this form to submit your information.

View CADDRA's current list of research studies.

Advertise ADHD Research Jobs & Volunteer Opportunities

Send your information to: stacey.espinet@caddra.ca

Information **must** be submitted by **the first of each publication month** (March, June, September, December).

September 2021, Issue 3

ADHD Research in the News

Congratulations to CADDRA member **Sarojini Sengupta** on the launch of AIMH Inc. (Artificial Intelligence for Mental Health). AIMH uses artificial intelligence to map together elements that can impact the treatment of medical and psychiatric conditions. Website

Emerging evidence suggests increased risk of several physical health conditions in people with ADHD. Publication

Transcranial direct current stimulation (tDCS) could be a side-effect free alternative to psychostimulants in Attention-Deficit/ Hyperactivity Disorder (ADHD). Publication

Meta-analysis: Which Components of Parent Training Work for Children With Attention-Deficit/Hyperactivity Disorder? Publication

Study finds that children with ADHD and executive function deficits are more likely to show positive response to Trigeminal Nerve Stimulation. Publication

Growing clinical awareness of ADHD in ASD and ASD in ADHD populations is now moving into adult psychiatry. Abstract

This study looks at patient and treatment-level factors that predict intervention engagement and outcome for adolescents with ADHD, guiding efforts to enhance care. Abstract

This study investigates whether children who struggle with weight or obesity normalised in weight when receiving stimulant treatment for ADHD. Abstract

Variable Patterns of Remission From ADHD in the Multimodal Treatment Study of ADHD Publication

Dopamine adjusts the circadian gene expression of Per2 and Per3 in human dermal fibroblasts from ADHD patients. Publication

A Biased Perspective on Brain Imaging of ADHD. News Article

The Multidimensional ADHD Rating Scale: A measure of symptoms, impairment, and symptom validity. News Article

Half of young adults (aged 20 to 39 years) with ADHD in Canada have struggled with a substance use disorder. Young adults with ADHD have over 2x the odds of developing a SUD compared to their peers without ADHD. News Article / Abstract



Log in here and join or start a discussion. This forum is for members only.



CADDRA - Canadian ADHD Resource Alliance

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September 2021, Issue 3



Register Now!

caddra.societyconference.com

Recorded content will be available for 60 days after the meeting.

Here is a listing of some highlights. View the full schedule and browse speakers here.

Keynote Presentations



Stephen V. Faraone, Ph.D.Lessons from Three Decades
Investigating the Genetics of
Attention Deficit Hyperactivity
Disorder



Joseph Biederman M.D.
Operationalizing Deficient Emotional
Self-Regulation in Adults

Senior Oral Presentations



Penny Corkum, Ph.D., R.Psych.
Addressing Sleep Problems in Children with ADHD through the Better Nights,
Better Days program: Development through to Sustainability



Maria Rogers, Ph.D., C.Psych.
Parenting Children and Youth with ADHD during the Covid-19 pandemic: A Pan-Canadian Survey

Unravelling the Puzzles in ADHD: Research Challenges and Opportunities across Canada

Anne-Claude Bedard, **Ph.D.** chairs this symposium which will provide an overview of research across Canada, featuring ADHD researchers from coast to coast.



Anne-Claude Bedard Ph.D.



Debra Butt M.Sc., M.D., C.C.F.P.



Brandy Callahan Ph.D., R.Psych.



Emma A. Climie Ph.D., R.Psych.



Penny Corkum Ph.D., R.Psych.



Lily Hechtman M.D., F.R.C.P.



Yuanyuan Jiang Ph.D., C.Psvch.



Carlin Miller Ph.D., C.Psych.



Sarojini Sengupta



Maggie Toplak Ph.D., C.Psvch.

September 2021, Issue 3

CADDRA 2021 ADHD Research Day, October 1

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Here are some more highlights.

View the full schedule and browse speakers here.

Junior Oral Presentations

Jaidon MacLean, B.A.

The Student-Teacher Relationship for Children with ADHD: A Meta-Analysis

Harmoni M. Watson, B.A.

The Association between Anti-Racism Events, ADHD Symptoms, and Affect Dysregulation during the COVID-19 Pandemic

Anneesa Singh, M.A.

Inhibitory Control Mediates the Association between Emotion Dysregulation and Symptoms of ADHD and ODD in Children with Disruptive Behavior

Rose Swansburg, M.B.T.

Impacts of the COVID-19 Pandemic on Lifestyle Habits and Mental Health Symptoms in Children with Attention-Deficit/Hyperactivity Disorder (ADHD) across Canada

Tasmia Hai, M.Sc.

Cerebellar Volume and Executive Function in Pediatric Attention-Deficit/Hyperactivity Disorder (ADHD)

Alexandre Prud'Homme-Maisonneuve, B.A.

Engaging Parents in Evidence-Based Treatment of ADHD: A Mixed-Method Open Trial of Bootcamp for ADHD

Anastasija Jemcov, B.A.

Using the Theoretical Domains Framework to Help Understand Changes Needed to Modify Sleep Interventions to Be Appropriate for Children with ADHD and Other Neurodevelopmental Disorders

Marie-Elyse Lafaille-Magnan, Ph.D.

Prenatal Maternal Mood and Adversity, Postnatal Depression and Sex Explain Variance in ADHD Symptomatology in Canadian and UK Children

The 8th Annual CADDRA ADHD Research Day is supported by the Kids Brain Health Network (KBHN).

KBHN / CADDRA Junior Researcher Awards

\$300 each for the 4 top-ranked Oral Presentations

- Jaidon MacLean
- Alexandre Prud'Homme-Maisonneuve
- Rose Swansburg
- Harmoni M. Watson

\$200 each for the 9 top-ranked Poster Presentations

- Alexis Dawson
- Anais DuBow
- Gemma Graziosi
- Natalie Holtby
- Christine Kwong
- Matt Orr
- Sanya Sagar
- Micah Saviet
- Young Ji Tuen

KBHN / CADDRA ADHD Research Day Registration Awards

Student oral and poster presentation applicants will be provided with complimentary registration to the 2021 virtual ADHD Research Day.

September 2021, Issue 3

CADDRA 2021 ADHD Research Day, October 1

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Recorded content will be available for 60 days after the meeting.

Poster presenters listed below will be available for questions and comments through a virtual meeting during these time slots. At other times, comments and questions can be left for these and other poster presenters through the poster gallery.

View the full schedule and browse speakers here.

Poster Tour A

Friday, October 1, 10:00 AM - 10:30 AM ET

Zoey Burr ADHD and Anxiety Comorbidity Through a Cognitive Lens

Anais DuBow Systematic Review of Psychosocial Interventions in ADHD

Blandine French Understanding ADHD in Primary Care

Gemma Graziosi Non-Pharmacological Interventions for Attention-Deficit/Hyperactivity Disorder: Frequency of Intervention Types across Developmental Periods in Research Studies from the Last 10 Years

Indira Maharaj Dose and Adverse Events of PRC-063 (Multi-Layer, Controlled-Release Methylphenidate Hydrochloride) in Children 6-8 Years of Age with ADHD: A Post-Hoc Analysis of a Phase III Laboratory Classroom Study

Ibukunoluwa Okusanya Examining the Effects of Social Difficulties on Depression in Children with ADHD According to Subtype

Mahsa Sadeghi "I'm Motivated and I Know It": Exploring Awareness of and Influences on Goal-Striving in Adolescents with ADHD

Micah Saviet Interprofessional Communication in ADHD Coaching: A Qualitative Exploration

Poster Tour B

Friday, October 1, 12:00 PM - 12:30 PM ET

Darby Attoe Miss. Diagnosis: A Systematic Review of ADHD in Adult Women

Samantha Ayers-Glassey ADHD Symptoms and Inattention in the Follicular and Luteal Phases of Naturally Cycling Women and in Women Using Oral Contraceptives

Emma Charabin You're Making Me Nervous: How Anxiety Relates to Empathy in Children with and without ADHD

Michelle D. Po Symptomatic and Functional Response and Remission Achieved with Delayed-Release and Extended-Release Methylphenidate in Children with Attention-Deficit/Hyperactivity Disorder

Rocio Rosello Anxiety Symptoms in High Functioning Children with Autism Spectrum Disorder (ASD). Relationships with Attention Deficit Hyperactivity Disorder (ADHD) Symptoms

Naythrah Thevathasan Exploring the Health Care Experiences of Caregivers of Children with Behavior-Related Disorders

Young Ji Tuen Gender Differences in the Peer Relationship Domains of Children with ADHD

Jessica Wilkins A Systematic Review on Attention-Deficit/Hyperactivity Disorder and Insecure Attachment Patterns in Middle Childhood

Poster Tour listings continue on the next page ▶

September 2021, Issue 3

CADDRA 2021 ADHD Research Day, October 1

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Poster Tour C

Friday, October 1, 3:15 PM - 3:45 PM ET

Kaitlyn Butterfield Mental Effort in an Unstructured Performance Task

Alexis Dawson Maltreatment and Youth ADHD Symptoms during the COVID-19 Pandemic: The Role of Affect Dysregulation

Laurie Faith How to Teach Self-Regulated Learning: How a Socially Shared Approach Solves Implementation Problems

Chris Folkins Education and Health Outcomes in Children Prescribed Long-Acting Stimulants for the Treatment and Management of ADHD

Sylvie Gaudet The Acceptability and Preferences of Psychological Interventions Targeting the Attentional and Executive Functioning of Young University Students

Rachael Lyon The Paradox of "Smart" People Making "Foolish" Decisions: A Review of the Associations between Cognitive Abilities and Risky Decision-Making Paradigms in ADHD

Sanya Sagar Mediating Factors in the Relation Between Attentional Abilities and Social Functioning in Emerging Adults

Jacqueline Yu A Review of Teachers' Attitudes towards ADHD: Insights for School Leaders



Poster Tour D

Friday, October 1, 5:00 PM - 5:30 PM ET

Yan Deng Efficacy of computer game based executive functions/attention training in children and adolescents with Attention Deficit and Hyperactivity Disorder: A Systematic Review

Christina Gray Theory of Mind and Emotional Intelligence in Children with ADHD

Natalie Holtby Understanding Reading Difficulties in the Context of Sluggish Cognitive Tempo: An Examination of Academic Engagement as a Contributing Fact

Christine Kwong Strength, Sweat, and COVID-19: The Experiences of University Students with Attention Deficit Hyperactivity Disorder (ADHD) and the Role of Physical Activity (PA) and Coping During the COVID-19 Pandemic

Emily Mayers The State of Play in ADHD Coaching Today: A Narrative Review

Hannah O'Reilly An Examination of the Impact of Children's ADHD, Anxious, and Depressive Symptoms on Mindful Parenting during the COVID-19 Pandemic

Matt Orr A Multitrait-Multimethod Exploration of Pediatric Sleep Variables in Typically Developing Children and Children with Attention-Deficit/ Hyperactivity Disorder

Victor Otcheretko Real-World Safety Profile of DR/ER-MPH for ADHD in Children, Adolescents, and Adults in the US

Maricla Pirozzi The College Experience for Students with ADHD

Elizabeth Wanstall Temporal Discounting and Associations to Cognitive Abilities in ADHD: A Review

Himanthri Weerawardhena Association between Attention-Deficit/Hyperactivity Disorder Symptoms and Personality Traits in Outcomes to Self-Reported Executive Function in Adults