

## Message from the Chair



Hope you enjoy this Spring issue of the Research Digest, where you can learn more about the role of artificial intelligence in ADHD research and management and read about the launch of CADDRA's new ADHD Treatment, Education and Assessment Tool (ADHD TrEAT). We invite your input and ideas as we consider possible research opportunities related to this tool.

Many of you are returning to in-person teaching, learning and research. We also look forward to meeting face-to-face again at the next CADDRA ADHD Research Day in St. John's, Newfoundland on September 30. Perhaps many of you have noticed how refreshing and engaging it is to meet in person again. We are ready for these connections at our conference this fall.

We are always looking for student contributions to the Research Digest. Students can be involved in all aspects of content development, from sharing research summaries to contributing brief articles for peer-review. Students can contribute as Digest editors and/or authors. Please contact [stacey.espinet@caddra.ca](mailto:stacey.espinet@caddra.ca) if you would like to propose a submission for an upcoming issue and/or if you would like to be part of the ADHD Research Digest student committee.

To all of our readers, we hope you find unique opportunities in this issue to support your work and to create new ideas to extend, apply and translate your work in new directions.

Maggie Toplak Ph.D., C.Psych.  
CADDRA Research Committee Chair

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

## Submit Your 2022 Abstracts Now!

**Deadline: April 30**

Our 9th Annual ADHD Research Day is returning to in-person on Friday, September 30 in St. John's NL!

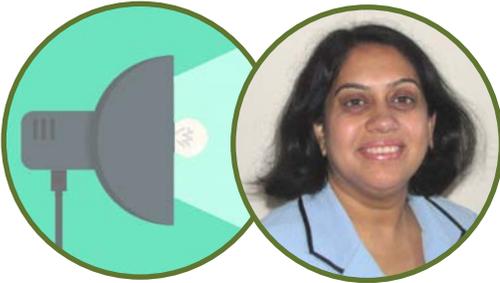
Submit your oral presentations (Canadian-based only) and poster presentations (Canadian or international). ePosters are also welcome.

Find submission guidelines at [caddra.societyconference.com](http://caddra.societyconference.com).



## Researcher Spotlight

Get to know your fellow CADDRA ADHD researchers through our Research Member Spotlight.



Sarojini Sengupta, Ph.D.  
Co-founder and CEO  
Artificial Intelligence for Mental Health ([AIMH](#))  
Montreal, Quebec, Canada

Dr. Sarojini Sengupta recently shared her research journey.

Watch the video

### *Artificial Intelligence (AI): a tool in clinical practice and ADHD research*

For this issue of the Research Digest, Dr. Sengupta has written an article on AI in ADHD. Here's an excerpt:

Artificial intelligence (AI) is a buzzword that often conjures up images of driverless cars and lost jobs. However, it can also be a powerful tool to support clinical research and practice in psychiatry, in a plethora of ways.

As discussed by Winter et al., "In both psychiatry and medicine in general, expectations to move beyond classical group-level statistics and enter the promising future of personalized medicine are high. Although AI has not yet fully hit mainstream psychiatric research, the availability and advancement of technology and methods have indeed led to a growing adoption of AI methods...".

Read the full article [here](#).

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Would you like to be in the Research Member spotlight? Contact [stacey.espinet@caddra.ca](mailto:stacey.espinet@caddra.ca).

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These recent review articles on the clinical utility of AI for ADHD conclude:

- AI for ADHD is in its infancy, but promising tools have been developed
- The clinical utility of AI tools could be enhanced by personalizing devices
- Limitations might be addressed by reducing costs and ensuring consent for personal data use and privacy

- [Article 1](#)  
Barua et al. (2022)
- [Article 2](#)  
Dwyer et al. (2022)



## 9th Annual ADHD Research Day

Friday, September 30  
St. John's, NL

The meeting brings together researchers, clinicians, educators and students from a wide variety of disciplines to share knowledge, discuss innovative research findings and develop new collaborative research projects in ADHD.

Senior and junior oral presentations are invited from researchers in Canada. Poster presenters can be located globally and there is an option to present posters virtually.

Submissions Deadline: April 30

The submission portal is available on [caddra.societyconference.com](http://caddra.societyconference.com).

- [See the Flyer](#)
- [Read the Guidelines](#)

## CADDRA Member Research Achievements

CADDRA member names are bolded.

### Publications

*Cannabis for the Treatment of Attention Deficit Hyperactivity Disorder: A Report of 3 Cases.* Mansell H, Quinn D, Kelly LE, Alcorn J. *Medical Cannabis and Cannabinoids.* 2022 Jan.

*Temperament Profiles Associated with Internalizing Symptoms and Externalizing Behavior in Adolescents with ADHD.* Deotto A, Eastwood JD, Toplak ME. *Child Psychiatry & Human Development.* 2022 Feb.

*Family functioning and mental wellbeing impairment during initial quarantining for the COVID-19 pandemic: A study of Canadian families.* Hwang P, Ipekian L, Jaiswal N, Scott G, Amirali EL, Hechtman L. *Current Psychology.* 2022 Jan.

*The Orphan Receptor GPR88 Controls Impulsivity and Is a Risk Factor for Attention-Deficit/Hyperactivity Disorder.* Kieffer B, Hamida SB, Sengupta S, Clarke E, McNicholas M, Moroncini E, Darcq E, Ter-Stepanian M, Fortier ME, Grizenko N, Joober R. *Research Square.* 2022 Jan.

*Defragmenting the path to diagnosis for underserved youth with Autism Spectrum Disorder in a community-based health system.* Robinson LA, Gaugh L, Yapo S, Al-Sumairi R, Lorenzo A, Weiss M. *InHealthcare.* 2022 Mar.

*How Do Child ADHD Symptoms and Oppositionality Impact Parent-Child Interactions When Crossing Virtual Roads?* O'Neal EE, Rahimian P, Jiang Y, Zhou S, Nikolas M, Kearney JK, Plumert JM. *Journal of Pediatric Psychology.* 2022 Apr.

*Examining daily parent involvement in caregivers of children with ADHD using electronic diaries.* Ogg J, Shelleby EC, Santuzzi AM, Wendel M, Alfonso D, Corning E, Rogers M. *Journal of School Psychology.* 2022 Apr.

*Even a mild sleep restriction can impact daytime functioning in children with ADHD and their typically developing peers.* Davidson F, Rigney G, Brine S, Speth T, Miller L, Rusak B, Chambers C, Rajda M, Begum EA, Corkum P. *Behavioral Sleep Medicine.* 2022 Jan.

*Understanding Social Determinants of First Nations Health Using a Four-Domain Model of Health and Wellness Based on the Medicine Wheel: Findings from a Community Survey in One First Nation.* Tanner B, Plain S, George T, George J, Mushquash CJ, Bernards S, Morton Ninomiya M, Wells S. *International Journal of Environmental Research and Public Health.* 2022 Feb.

*Impact of stimulant medication on behaviour and executive functions in children with attention-deficit/hyperactivity disorder.* Hai T, Duffy HA, Lemay JA, Lemay JF. *World Journal of Clinical Pediatrics.* 2022 Jan.

*Shared and Distinct Patterns of Functional Connectivity to Emotional Faces in Autism Spectrum Disorder and Attention-Deficit/Hyperactivity Disorder Children.* Safar K, Vandewouw MM, Pang EW, de Villa K, Crosbie J, Schachar R, Iaboni A, Georgiades S, Nicolson R, Kelley E, Ayub M. *Frontiers in Psychology.* 2022 Mar.

### Researcher Funding

*How is COVID-19 continuing to impact children with and without Attention-Deficit/Hyperactivity Disorder?* PI(s): Jiang Y, Rogers M, Climie EA, Corkum P. Project team members: Mah J, & Bernhardt H. Funding, award amount: \$149,888. Date range for the award: 2021-2024. Funder: Canadian Institutes of Health Research (CIHR) Operating Grant

### On Social Media

The Christina Crowe Podcast  
Christina Crowe, M.A. is a registered psychotherapist and founder, director and owner of Dig A Little Deeper, Psychotherapy & Counselling

Episode 1:  
*Finding an Antidote to ADHD-related Perfectionism* features a conversation with Ontario Registered Psychotherapist Mindy Bilotta.

[Listen Now](#)

Episode 2:  
*Important Nuances for #ADHD Families and Treatment*, with Dr. Joan Flood, a family physician specialized in ADHD in Ontario, CADDRA board member and Chair of CADDRA's Advocacy Committee.

[Listen Now](#)

*Finish each day and be done with it. You have done what you could. Some blunders and absurdities no doubt crept in; forget them as soon as you can. Tomorrow is a new day. You shall begin it serenely and with too high a spirit to be encumbered with your old nonsense.*

~ Ralph Waldo Emerson

## Student Research Achievements

### Congratulations!

Christina Gray, Ph.D successfully defended her doctoral thesis in School & Applied Child Psychology entitled [Theory of Mind and Emotional Intelligence in Children with Attention-Deficit/Hyperactivity Disorder](#) at the Werklund School of Education, University of Calgary.

## Attention Students!

### Position Available

Clinical Research Fellowship / Post Doc at Hospital for Sick Children (Sick Kids)

We are seeking a Post-Doctoral Clinical Research Fellow in Depression and Suicide Prevention to join a multidisciplinary clinical research program dedicated to improving mental health outcomes in children.

This position is full time and will involve a combination of clinical research and direct clinical service under the supervision of Dr. Daphne Korczak and Dr. Jennifer Crosbie.

This is a one-year position with the option of renewal for the second year conditional on successful completion of the first year requirements.

Start date is negotiable up until September 2022.

[Get more information.](#)

## Important Dates

### Funding

Physicians' Services Incorporated (PSI) Foundation

Application deadline: The PSI Foundation no longer has deadlines.

[Apply here any time.](#)

Brain & Behavior Research Foundation (BBRF) Young Investigator (YI) Grant

Application deadline: March 22, 2022

[Apply here](#)

National Science Foundation (NSF)

Programs that support psychological science

Application deadline: Various

[Apply here](#)

### Upcoming Conferences

Canadian Healthcare Navigation Project  
Navigation services have emerged in almost every province and territory across Canada to support individuals and families by helping them find their way through health, education, and social systems.

Virtual, April 21-22, 2022

[Registration is Open](#)



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](http://caddra.ca/membership)

## ADHD Research in the News

ADHD symptoms can be measured with a new virtual reality task.

[Article](#)

A systematic review of sleep and circadian rhythms in children with ADHD shows that sleep disturbances are common and can worsen behavioral outcomes.

[Abstract](#)

ADHD Teacher Training Programs may initially improve teacher knowledge but evidence is inconsistent about whether this lasts long-term or whether these programs lead to improvements in ADHD-type behaviors in students.

[Article](#)

Children/adolescents with ADHD perceive time less accurately and precisely and have a higher tendency to overestimate time.

[Abstract](#)

Based on a review of current evidence and comparison of current guidelines, a model is suggested in this article for managing pediatric ADHD.

[Publication](#)

A recent WHO World Mental Health Survey of college students assessed comorbidities in over 15,000 students across 9 countries and found more than half of the students with ADHD had at least 1 psychiatric disorder. ADHD and comorbid disorders independently predicted impairment.

[Abstract / Survey Results](#)

## Topics of Discussion

Impact of restrictive eating on ADHD: Can eating a highly restrictive "few-foods diet" ease the classic symptoms of ADHD in children?

[United Press International article](#)

Individuals with a diagnosis of ADHD seem to be at risk for worse COVID-19 outcomes.

[Psychiatric Advisor article](#)

A systematic review and meta-analysis of 27 studies found individuals with ADHD had higher mortality than the general population due to unnatural causes (e.g., injury, poisoning, and other) but not natural causes compared to individuals with ASD who had higher mortality due to both.

[Article](#)

Early life injuries show a low predictive value for ADHD in adolescence.

[Abstract](#)

Children with more severe problems (conduct problems and ADHD) and children from single parent families should be prioritized for behavioral treatment.

[Article](#)

MRI scans of children aged 9–10 years with ADHD showed few differences in structural brain measurements compared to their unaffected peers suggesting that continuing to search for smaller brain regions in children with ADHD relative to controls may not be fruitful.

[News Article](#)

The logo for ADHD Learn CADDRA. "ADHD Learn" is in large blue and green letters, with "CADDRA" in smaller blue letters above "Learn".

Focus on ADHD Research

CADDRA ADHD  
Researcher Snapshots

[Watch the videos here](#)

CADDRA ADHD  
Research Digest

[Review the issues here](#)

ADHD Research Day  
2021 ePosters

[See here](#)

## Study Listings

Sham-Controlled Feasibility of FokusRx for Treatment of ADHD in Youth

Investigator: Lindsay E. Ayearst, PhD

Purpose of this study is to evaluate the efficacy of FokusRx in the treatment of ADHD symptoms in youth.

[Get more information and sign up](#)

Cognitive Rehabilitation (Mega Team) and its Effects on Emotional and Behavioural Regulation in ADHD, ASD, and CHD

**SickKids Research Study:  
CAN A VIDEO GAME HELP WITH  
ATTENTION AND WORKING MEMORY?**

**MEGA TEAM**

The Department of Psychiatry is undertaking an exciting new research study where we will be looking to see if a video game can help improve behavioural control and working memory in kids.

You can help out with our study if you are/or have a child with a diagnosis of either:

- Attention Deficit Hyperactivity Disorder (ADHD)
- Autism Spectrum Disorder (ASD) and/or
- Congenital Heart Disease (CHD)

And is:

- Between 6-12 years of age
- Willing to come to SickKids for 3 study visits
- Willing to play the video game at home for 5 weeks

If you are interested in participating in this study and/or would like more information, please contact:

Name: Taha

Phone: 416-813-8210

E-mail: [mega.team@sickkids.ca](mailto:mega.team@sickkids.ca)

ADHD Research Priorities Study

Seeking participants for Stage 2 of an international research study to identify what professionals working in the field of ADHD perceive to be the most important directions for future research.

Taking part in Stage 2 involves completing a brief online survey.

[Get more information.](#)

For questions about this research, contact Dr Kate Stephens: [k.stephens@deakin.edu.au](mailto:k.stephens@deakin.edu.au).

## Journal Opportunities

Journal of the Academy of Child and Adolescent Psychiatry (JAACAP) seeks new peer reviewers on an ongoing basis.

This year, JAACAP will nominate 20+ individuals to serve on the masthead beginning in 2023. Another 8 individuals will be nominated the following year. In addition, we seek volunteers to serve on the masthead of a new forthcoming open access publication.

Interested parties should send their CV and a brief statement of interest to [support@jaacap.org](mailto:support@jaacap.org) on or before April 1, 2022.

Please indicate in your email if you are interested in JAACAP positions only or are willing to be considered for positions with the forthcoming open access journal as well.

The Journal of Clinical Psychiatry is pleased to announce a new section to encourage the academic development of early career psychiatrists.

[Get more information.](#)

## Advertise ADHD Research Jobs & Volunteer Opportunities

Send your information to:  
[stacey.espinet@caddra.ca](mailto:stacey.espinet@caddra.ca)

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

## 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.](#)



## ADHD TrEAT is Launched!

**ADHD Treatment, Education and Assessment Tool**  
Supporting the assessment and treatment process.

Available to **CADDRA members only!**

- ✓ **Online Questionnaires**  
Secure online completion by patients and automatic reminders.
- ✓ **Scoring**  
Graphic interpretation of completed forms.
- ✓ **Resources & Support**  
Just-in-time education through videos and links. Referral list, clinician and patient resources.

Help us think BIG. We are interested in your ideas on incorporating research into ADHD TrEAT. Send your pie-in-the-sky suggestions and ideas for consideration to [stacey.espinet@caddra.ca](mailto:stacey.espinet@caddra.ca)

## CADDRA Research Committee

The CADDRA Research Committee is growing.

Welcome to our New Research Committee Members!

Jennifer Crosbie Ph.D., C.Psych.  
Jacqueline B Hesson Ph.D., R.Psych.  
Heather Paul M.Ed.  
Sarah Pickett Ph.D., R.Psych.  
Nair Rajesh MRCPsych

They join the rest of the committee in overseeing the planning of Research Day and the 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.  
Maggie Toplak Ph.D., C.Psych.

CADDRA – Canadian ADHD Resource Alliance  
366 Adelaide Street East, Suite 221  
Toronto, Ontario M5A 3X9  
[info@caddra.ca](mailto:info@caddra.ca) • [caddra.ca](http://caddra.ca) • 416.637.8583