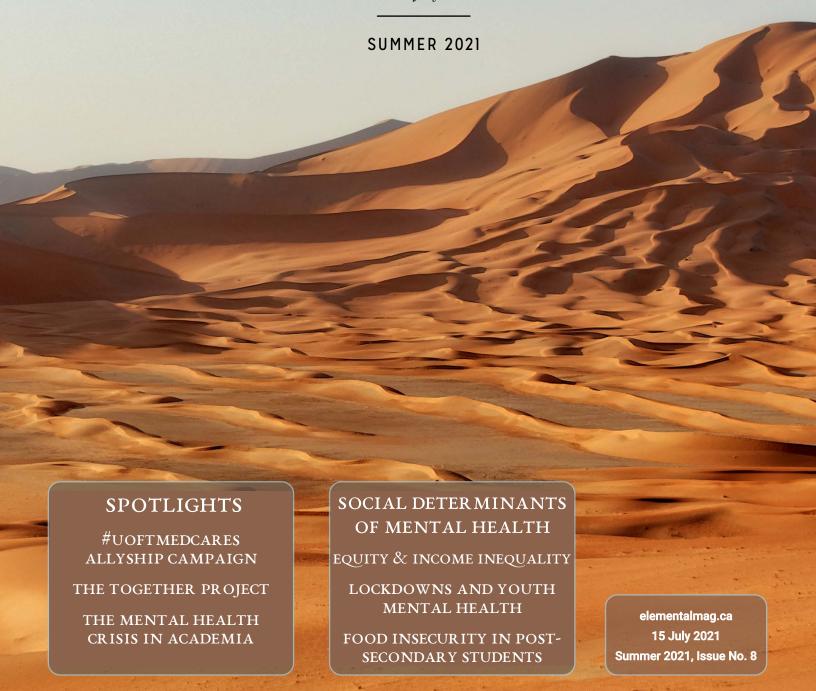


ELEMENTAL

The Official Mental Health Magazine of the University of Toronto



SUMMER 2021 ISSUE 8

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LETTER FROM THE EDITOR

Tam pleased to present the eighth Lissue of Elemental Magazine, the University of Toronto's official tricampus mental health magazine. The theme for this issue is Social Determinants of Mental Health. Mental illnesses like depression and anxiety are among the most prevalent and debilitating health conditions among Canadians. Although these conditions have a biological and genetic component, they are also influenced by environmental conditions such as housing instability, food insecurity, unemployment, poor access to and epigenetics suggests that genes do not factors affect mental health. create illness; it is the environment environment.

the social determinants of mental Campaign, These countries have policy plans to research article by ADRA Canada Europe (2014).



make sure that children have the best opportunities for emotional health from the beginning of their lives, that adults have fair employment, and that quality of health care, educational all individuals live in safe and healthy inequality, income inequality, poor communities.³ Since policy changes, neighborhoods, social exclusion however, can take several years, at this and discrimination, and disability time, it is important to educate people status.¹ In fact, the latest research in on how environmental and societal

that signals the gene that begins to The purpose of this issue is to educate create illness.² Medical science is readers on the social determinants becoming aware of the importance of of mental health as it relates to the interplay between biology and the mental illness prevention and mental health promotion. We feature student viewpoints on how mental Addressing the social determinants health can be affected by income References of mental health requires a inequality, equity, food insecurity, different approach from typical cost of education, cultural barriers to 1. Mikkonen, J. and Raphael, D. clinical interventions. One-on-one healthcare, learning disabilities, and Social Determinants of Health: The interventions could be employed, lockdowns. Shannon Giannitsopoulou, however, they yield less overall Inclusion & Diversity Coordinator population impact and therefore, at UofT, discusses the creation of 2. Tammen, S. A., et al. Epigenetics: The they may not be sustainable with the UofT Faculty of Medicine, Link Between Nature and Nurture. increasing prevalence of mental illness Office of Inclusion and Diversity's Molecular Aspects of Medicine 34(4): across Canada. The best way to address Microaggressions and Allyship 753-764 (2013). **#UofTMedCARES.** health is through action at the policy Anna Hill and Andrew Lustzyk, 3. UCL Institute of Health Equity. level. Countries that assign high policy co-founders of The Together Review of Social Determinants and the priority to social determinants of health Project, share how they are building Health Divide in the WHO European (e.g., Norway and Switzerland) have community connections among Region: Final Report. World Health improved health outcomes over time.³ refugee newcomers. We also share a Organization Regional Office for

that highlights important findings concerning maternal mental health in Cambodia. Finally, we include two articles with coping mechanisms that we have not touched upon: "The Power of Play" and "Neuroplasticity and Mental Wellbeing: Using the Adaptive Quality of Mind to Create an Upward Spiral."

I would like to thank our journalists, editors, and others who sent in their articles for publication. I was not even sure if this issue was going to be possible back in March, but somehow, we pulled it off! It has been a difficult year for everyone, which is why I am proud of everyone on the Elemental team and am truly appreciative of their hard work. I would like to give a shoutout to the Executive Editors, Curtis D'Hollander and Emily Mastragostino, for their tremendous contributions. Most important, a huge thank you to our readers for your support! I hope you enjoy reading these articles as much as I did.

Sincerely, Jeffrey Lynham Editor-in-Chief, Elemental Magazine Co-Chair, Grad Minds

- Canadian Facts. (2010).



TOGETHER PROJECT: BUILDING COMMUNITY CONNECTIONS WITH REFUGEE NEWCOMERS

AN INTERVIEW WITH ANNA HILL & ANDREW LUSTZYK

PALAK DESAI

of navigating a new country. Part of this challenge is forming connections within the community; a task made more difficult during the pandemic. The Together Project, an initiative of Andrew: The aim is to build self- One of the top challenges we see is the charitable foundation MakeWay, aims to empower refugees during their transition. It includes programs such as the Welcome Group model, which connects government assisted refugees and refugee claimants with volunteers in hopes of forming a more welcoming and integrated community.

The Together Project was founded in 2016, and since then has expanded to 700 volunteers, which have been matched with 650 newcomers.1 Anna Hill and Andrew Lustzyk, the co-

What are the aims of Together Andrew: It varies for individual Project?

sufficiency through providing social lack of social capital and connections. connections to newcomers. One of the There are some observations we biggest gaps that exist institutionally can make more specific to broader for a lot of refugee and refugee claimant demographic groups. For example, newcomers, is that in being new to for refugee claimants, understanding Canada, they do not have the access to and accessing services can be a huge the same social connections that other challenge, given the comparatively forms of newcomers might. The aim is limited institutional support to provide social connections in a way compared to other groups of that empowers them to build their newcomers. Government assisted own self-sufficiency. The idea is not to refugees typically arrive with higher create a charity group, but a surrogate vulnerability and lower levels of group of allies and advocates that can English. You can also imagine that help newcomers navigate their arrival building social connections, finding to Canada.

Refugees resettling in Canada founders, share their thoughts and have the daunting challenge experiences in the following interview. What challenges do you see refugee newcomers facing?

families, circumstances of their arrival, and settlement to Canada. work, and even feeling safe or

comfortable in your new home can be Another challenge is social isolation. Andrew: When we talk about a affected by a language barrier.

process changed during the virtually, has meant a lot. pandemic?

or healthcare situation?" Therefore, of newcomers digitally. having a team of people who look at has been proven to be effective and helpful.

You are even more restricted by having to stay indoors. Thus, having integration being a two-way street. How has the refugee settlement a window to meet new people, even

Anna: The whole sector has been Andrew: As with a lot of other changing to new models of digital Canadians, one of the biggest settlement during the pandemic and challenges is understanding what so there is this period of adaptation. it means for services. During the Making sure that newcomers have the newcomers in a meaningful, longpandemic the Service Ontario offices technology and the digital literacy to have closed. This caused an additional access resources and programs that for people to actively participate as challenge because now newcomers are being piloted for the first time, opposed to relying on institutions may be wondering, "how do I access is important. I think that is another and governments to do the work of information that is important for me way that volunteers have been very integration or waiting for newcomers and my family about my financial helpful, in supporting the inclusion to integrate themselves.

and assist the refugees' specific needs How do you feel the community in general can better support refugee newcomers?



Illustration by Emilie Muszcak

welcoming community, we talk about While we try to cater programming and services to newcomers, we should also look at ways to actively engage members of their community. We often hear from volunteers that they have not previously had the opportunity to engage with term way. We are providing an avenue

Anna: I think providing a dedicated group of volunteers who can act as allies, guides, and eventually friends, is important in terms of mitigating social isolation. It is imperative to center newcomer voices in leadership, in program design, and in communications right now. I think newcomers are bringing incredible skills, resilience, strength, and insight. In terms of evolving this concept of digital settlement, it is critical that newcomers are at the center of these innovations. Often our best insights are coming from the newcomers we are serving.

What changes and challenges has the program faced this past year?

Andrew: Our program was designed around building social connections, largely in-person, and suddenly had to shift to an entirely digital format. We really had to work to adapt the model to still be effective online. We started with a need's assessment for our newcomer program participants and volunteers to determine how the needs have changed. Luckily, we have an iterative model in our program

delivery so that every match is play sports in a park, or have shared In what ways have you seen informed by the match that preceded meals which was the foundation for welcome groups connecting?

you are talking about building social connections, nothing is going to building social connections, in terms of overcoming language barriers and infinite patience of our volunteers and newcomer participants, we had We also recognize that there are share resources while the sector has limitations to how much you can been in flux. Engaging with previous You cannot go to the library to show the program for future matches. newcomers how to get a library card,

so many of our matches prior to the shifted to what works best online.

pandemic. There is a more limited Anna: Both our newcomers and The fundamental truth is that when range of opportunities to engage in, volunteers in our matches have but we have learned from that and shown so much creativity and ingenuity in terms of how to build replace in-person interactions. That Anna: We have essentially been social connections online. We have a is one of highest and best forms of in the midst of a remote social number of matches that connect every support pilot program over the last week. They typically will connect year. Creating good feedback loops either by phone or a video platform. benefiting from regular, in-person between our program participants. Almost all matches also provide onproximity to build trust. Due to the has been important in order to share demand support, typically through new successes and challenges. This text. I am supervising matches where open communication has been very people are cooking together, training a lot of success with the adaptation. important as it has allowed us to towards running a 5k, and starting a book club. We have volunteers who are engaged in reading stories to the rely on online communication for matches that have gone or are going children in the families, and there is a building those social connections. well allows us to continue to improve lot of innovative language practice. As well, we have a lot of matches focused on employment.

> Andrew: We are learning a lot more from volunteers and newcomers than we are imparting in this field. But one thing that is important is the consistency - the idea that there is someone who is regularly checking in on you, especially if you are isolated. It is meaningful for a lot of newcomers, knowing that "if I have an issue, there is someone who I can talk to."

Edited by Elizabeth Karvasarki & Emily Mastragostino

For more information about The Together Project, visit: www. togetherproject.ca

Reference

1. Impact [Internet]. Together Project. [cited 2021 Mar]. Available from: https://togetherproject.ca/ impact/



Image Source: @together hello

MENTAL HEALTH IN LOW-INCOME POST-SECONDARY STUDENTS

CLAIRE HALLETT

impact their mental health.

be exposed to stressful circumstances. financial burden to one's family.⁴ This, in turn, can contribute to mental education.

Tuducation is one of the biggest. First and foremost, the cost of Linvestments a person makes in attending school can, in itself, cause their lifetime. During the 2019-2020 a great deal of distress. In a study school year, the average cost of tuition conducted at York University, for a domestic Canadian student was Othman, Ahmad, El Morr, and \$6463.1 This figure does not include Ritvo found that tuition fees were the cost of housing, transportation, among the greatest sources of stress food, textbooks, or other necessities. for students.3 They also determined For students with low income, the that students with anxiety were 2.59 price of going to school represents a times more likely to have experienced significant stressor and can negatively financial hardship than students without anxiety. Furthermore, a According to social stress theory, low- experiences found that stress can be income individuals are more likely to compounded by guilt about posing a

income individuals are less likely to student wellbeing through its impacts have access to mental health resources on academic performance. For even though they have greater need for example, low-income students may them. This can manifest in numerous need to work in order to support ways in the context of postsecondary their studies. Time spent at work can take away from time spent studying or completing assignments. This can

have a negative effect on academic performance. CNBC reports that 59 percent of low-income students who work 15 hours or more per week have an overall average of C or lower.⁵ As well, low-income students are less likely to have access to supplementary resources to improve their performance. Private tutoring is one such supplementary resource that can become quite expensive. The average price of private tutoring in Toronto is \$25 per hour according to superprof. ca.6 In addition, preparatory courses to help students achieve admission to postgraduate programs can be massively expensive. The most popular Medical College Admissions Test (MCAT) preparatory course offered U.S. study of low-income student by The Princeton Review costs \$2799 CAD.7 When it comes to supplements to education, low-income students are at a relative disadvantage compared to their peers, which may lead to poorer health concerns.² Unfortunately, low- Low-income status can also affect academic performance. Research has linked low grades and rejections from postgraduate programs to decreases in self-esteem and perceived academic competence.^{8,9} Therefore, low-income students may be more vulnerable to decreases in self-worth related to poor academic performance.

> Students with low income also have less access to resources to improve and maintain their mental health. Therapy and other formal mental health care can come at a significant cost. For example, in 2013, the Ontario Psychological Association recommended that psychologists in private practice charge \$225 per hour.10 Fortunately, many Ontario universities offer therapy that is covered by student health insurance. However, it typically involves long wait lists, a limited number of sessions, and narrow options for treatment.11 Low-income students may also face barriers in creating and



at greater risk for depression, anxiety, and suicidal ideation. 12,13,14

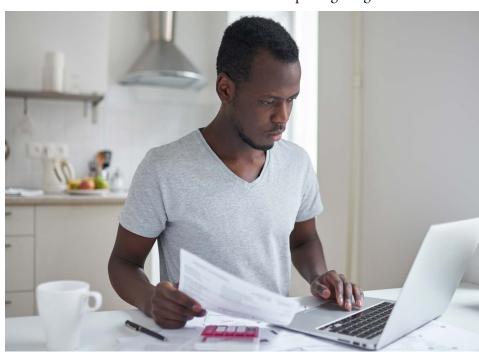
Critically, individuals with low income are more likely to belong to minority groups that place them at an even greater risk of mental health concerns. In the 2016 Canadian census, 20.8% of racialized individuals were classified as having low income as compared to 12.2% of non-racialized individuals.¹⁵ on the mental health needs of racialized, low-income individuals in Canada.¹⁶ However, in the United States, the office of the surgeon general resources to prepare for assessments 2. Schwartz, S., & Meyer, I. H. (2010). individuals were less likely to have more understanding attitude toward. The impact of within and between and, when they did receive it, the care and universities would better allow hypotheses. Social a study of the effects of race and addition, postsecondary institutions

Avenues for meeting new people and health of American youth found diversifying the mental healthcare that making friends can sometimes come that Black and Hispanic individuals is covered by student health insurance. at a cost. For example, school clubs or had higher levels of depression This might include lowering the fraternities may require membership compared to Whites. This difference cost of care, offering a wider range fees or dues. In addition, it may be was attributed to a greater likelihood of services, and providing training to difficult to socialize when this is often of Blacks and Hispanics having a school counselors about sensitivity done in places like restaurants, movie low income. Based on the existing to individuals with low income and theaters, and bars. Lower access to research, it is likely that minority other identities that expose them to both formal and informal support students with low-income face greater greater stress. 18 Lastly, postsecondary systems places low-income students stress and less care compared to their institutions should provide platforms peers. However, more research is for their low-income students, hear needed on the intersection between socioeconomic status and minority identities, particularly in a Canadian context.

There are several actions that postsecondary institutions might References take to increase equity between students of different socioeconomic 1. Stats Canada. (2019). Tuition fees statuses. For one, universities should for degree programs, 2019/2020. Unfortunately, there is little research offer greater flexibility in deadlines https://www150.statcan.gc.ca/ni/ and grading. Due to circumstances daily-quotidien/190904/dq190904bbeyond their control, students eng.htm with low income may have fewer found that racialized and low-income in the allotted time. By adopting a Mental health disparities research: access to affordable mental healthcare students' circumstances, colleges group analyses on tests of social stress was of poorer quality.¹⁷ Furthermore, students to achieve their potential. In medicine, 70(8), 1111-1118.

accessing informal social supports. socioeconomic status on the mental should consider expanding and their concerns and suggestions, and, most importantly, act on them.

> Edited by Stacey Butler & Emily Mastragostino





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THE POWER OF PLAY

JEFFREY LYNHAM

T as anyone ever told you to stop playing around and start acting like an adult? In our society, there is a widespread belief that children play and that adults work. But if fun and play disappear as we age, then to a monotonous daily routine. It this way?

not have a particular purpose. If skill-building. When you are truly said, "You can discover more about a survival.



life goes from an exciting adventure engaged in play, you would never person in an hour of play than a year even know it because you are too of conversation."2 would mean that the day we are born focused on the fun you are having. is the best life will ever be and that it The best way to understand play From an evolutionary standpoint, is all downhill from there. Must it be is to feel it. Think of a time when play is essential. Every animal you were playing with a baby or species plays in one way or another.¹ It is difficult to define play. It does emotional sense we all have when snowballs and roll them down hills, we are truly engaged in play. Play bison will repeatedly run onto the purpose of an action is more is an optimal way for us, especially frozen lakes and skate on all fours, important than the act of doing children, to learn new skills, it brings and hippos in the water do backflips it, then it is probably not play. In people together through sports over and over again. Anything that's other words, play is a pleasurable and sporting events, and it is a vital done across many species must have activity undertaken for no apparent component for loving relationships. an evolutionary benefit. Nature purpose. Some forms of play involve Just imagine being in a relationship does not waste energy or resources games or sports, while others involve with absolutely no play. Plato once on traits that are unnecessary for

playing fetch with a dog. That is the Japanese macaque monkeys make



So how has play been advantageous for the survival and evolution of humans? It turns out that play might be the antidote for stress. The six leading causes of death are linked to stress.3 Dr. Hans Selye, who first popularized the term stress in the 1950's, wrote, "An overwhelming stress (caused by prolonged starvation, worry, fatigue, or cold) can break down the body's protective mechanism. It is for this reason that so many maladies tend to become rampant during wars and famines. If a microbe is in or around us all the

or the stress? I think both are – and its life as a tadpole. It cruises around to play with. She found that the mice equally so."4

and our emotional health suffers. here is "use it or lose it!" Brian Sutton-Smith, a pioneer in play is not work – it's depression."5

we are exposed to a stress, what is disturbing overview of the lifespan the cause of our illness, the microbe of a sea squirt. The sea squirt starts placed in an open box with nothing Dr. Selye's explanation of stress grows, matures, latches onto a reef, means new brain cells were being indicates that we are more susceptible and it quits moving. Its life becomes generated. They also scored better to disease when we are stressed. purely passive; it becomes the couch Unfortunately, in our society, being potato of the sea. Since it is no longer stressed has become a metaphor actively engaged in life, it no longer Animals and children learn many for existence. Sometimes we have needs a brain. Near the end of its of their motor and social skills so many things to do that we don't life, it starts to eat its own brain! through play. Many studies show even know where to begin. We are Humans are the same. As we age, our that child development thrives on no longer human beings, but human brain slowly degenerates, but when play.⁷ In fact, play and guided play doings. When life becomes one giant we stop moving, it degenerates at an to do list, there's no time for play, accelerated rate. The basic principle and social learning. Comparisons

play research, says, "the opposite of The tale of the sea squirt also less playful more teacher-directed illustrates what happens when we are stuck in the same unchanging the child-centered approaches do Most people would agree that play, environment, not taking in any new as a form of exercise, is beneficial for information. In 1966, Dr. Marian our physical and mental health. In Diamond studied two groups of play is essential for life. Plato knew Play: How it Shapes the Brain, Opens mice.6 One group was placed in an this when he said, "Our children

time and yet causes no disease until Soul, Stuart Brown, MD, gives a toys, levels, and unique spaces to play around in. The other group was the ocean, explores, finds nutrients, in the enriched environment had and is active—perhaps plays. Then it increased glial cell activation, which on cognitive performance tests.

offers strong support for academic of preschools that use playful child-centered approaches, versus approaches, reveal that children in better in reading, language, writing, and mathematics. The science is in, the Imagination, and Invigorates the enriched environment with lots of from their earliest years, must take





with such an atmosphere, they can never grow up to be well conducted and virtuous citizens."8

laughter. Whoever said, "laughter is diminishes pain, and protects you from the damaging effects of with a friend. stress.9 In Anatomy of an Illness as Perceived by the Patient, Norman The paradox of play is that it (Encyclopedia of Early Childhood Cousins accounts how he overcame recharges us, it refreshes us, and it Development, 2013). a degenerative collagen disease using, among other things, self-prescribed work, we do it even better. What we 8. Plato. The Republic, (Penguin laughter therapy.¹⁰ Cousin's writings show that cultivating strong positive took 45 minutes. When we don't emotional states through humor and make time for play, we get stressed, 9. Robinson, L., et al. Laughter is the not taking yourself so seriously have sick, and burned out. Moreover, we best medicine. (HelpGuide, 2020). a major therapeutic benefit in the become too serious, and life seems healing process.

it seems more difficult to introduce must be lived as play."2 play, especially when we are caught up in the things we need to do, the Edited by Emma Syron & Emily places we need to go, and the people Mastragostino

part in all the more lawful forms of we need to see. So how can we change 6, 117-230 (1946). play, for if they are not surrounded that? It takes discipline. It's not going to be handed to us. Making 5. Sutton-Smith, B. The ambiguity we work on. Like any skill, the best Cambridge, 2009). way to work on play is to start off A common side effect of play is small; no need to join a competitive 6. Diamond, M.C., et al. Increases water polo league, at least not yet. It in cortical depth and glia numbers the best medicine," got it absolutely could be as simple as belting out your in rats subjected to enriched right. Laughter strengthens the favourite song in the shower as if no environment. J Comp Neurol 128, immune system, boosts mood, one were listening or digging out the 117-126 (1966). old baseball glove and playing catch

rejuvenates us. When we go back to thought would take four hours only Classics, 2014). development and health, we have an wellbeing. To conclude, I will share regeneration, (Bantam Books, ambivalence toward it. As we age, another Plato quote. He said, "Life Toronto, 1981).

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MENTAL HEALTH IMPLICATIONS OF COVID-19 FOR CHILDREN WITH SPECIAL NEEDS AND THEIR FAMILIES

AGNES WONG

even lead to regression in some cases.¹

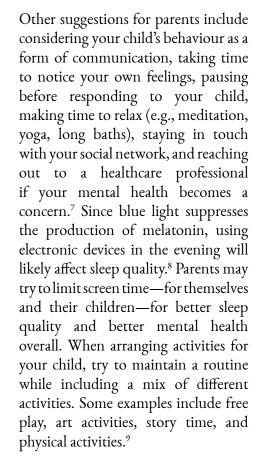
handle the situation.²

most children around the world from with children who have special been interrupted. This may negatively communication challenges, restricted influence the progress of training or and repetitive behaviours and interests, reported deterioration in mental while wearing masks due to tactile health due to COVID-19. They have hypersensitivity. In addition, sleep experienced loss, worry, and changes problems have disproportionately in mood and behaviour.² Children affected autistic children.⁴ A study have experienced loss of daily routine conducted in Turkey found that greater risk for poor mental health.⁶ while parents struggle to manage autistic children exhibited significantly. More education on the importance without their usual support networks. more sleep problems and autistic Children may not understand and symptoms when they were forced into encouraging families to attend worry about the situation, while home confinement due to COVID-19 parents worry about their child's than during the normal non-home and setting appropriate tasks for home training progress. Some children may confinement state. The mental health engage in disruptive behaviours at of families with children who have home while parents feel helpless to special needs requires our attention. For a small proportion of families—

OVID-19 has changed our lives Although COVID-19 has created particularly those with children who Considerably. It has prevented difficulties for most people, families have a hard time at school—social distancing and quarantine during accessing face-to-face education at needs are particularly vulnerable. COVID-19 may be providing a time of school. Children with special needs Autism Spectrum Disorder is respite.² The impact of COVID-19 on could be particularly affected, as most a neurodevelopmental disorder mental health for these families can be rehabilitation training programs have associated with persistent social minimal or even lead to improvement in some cases. and hypersensitivity or hyposensitivity Some therapists and teachers now to sensory input.3 During COVID-19, offer online rehabilitation training According to a recent study conducted some autistic children may experience and phone consultation. A study in the United Kingdom, both parents anxiety due to disruption of daily conducted in India found that and their children with special needs routines and high levels of discomfort caregivers of children with special needs

who did not use tele-rehabilitation or who perceived homecare therapy as difficult, held negative perceptions about tele-rehabilitation and were at of home training—including rehabilitation in a different format training—may help these families.^{2,6} However, it is undeniable that certain children may be less suitable to participate in training using online formats.

Are there any recommendations for improving mental health for families who have children with special needs? If you are a parent tending a child with special needs, one of the most important suggestions is to take good care of yourself first. It is common for parents to put all their focus on the needs of children and the family—for instance, home training for children and ensuring everything at home is sterilized during the pandemic. However, parents' own mental health may be overlooked.

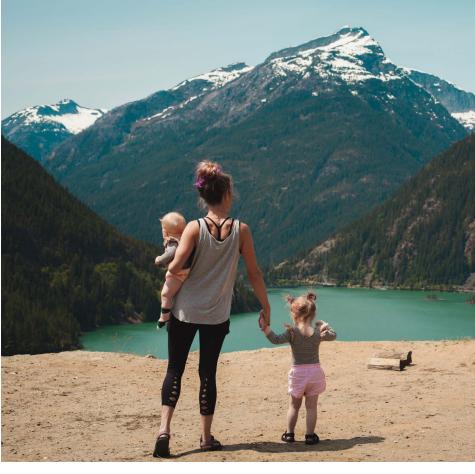


For parents of children with special needs, it is important to remember our children.⁷

Hollander

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ADDRESSING MICROAGRESSIONS AND TAKING ACTION

AN INTERVIEW WITH SHANNON GIANNITSOPOULOU

AMY CHAN

L(EDI) and mental health are against intricately linked, and various microaggressions discriminatory against members of marginalized groups-are commonly study suggests that being the victim of racial microaggressions may lead thoughts of suicide. Moreover, there this university-wide project. is a correlation between experiencing microaggressions and self-reported history of heart attack, depression, and hospitalization.²

Tquity, diversity and inclusion Raising awareness and advocating racial attacks within studies have demonstrated its bi- workspace, community, and academic directional relationship. Particularly, setting may significantly benefit our microaggressions-subtle, indirection, health and the health of others. I spoke or unintentional remarks that are with Shannon Giannitsopoulou to discuss the creation of University of Toronto's (U of T) Faculty of Medicine experienced in our environment. One Office of Inclusion and Diversity's Microaggressions and Allyship Campaign (#UofTMedCARES), and to increased signs of depression and her background and inspiration for

> Can you please give me a brief overview of your background and how you got to where you are today? (academic background, influences etc.)



Image Source: medicine.utoronto.ca/microaggressions-and-allyship

I did my BA in Philosophy, Gender Studies and English at U of T, focusing on courses that involve feminist theory and continental philosophy. I then pursued a college certificate Corporate Communications and Public Relations at Centennial College, which provided me with an internship at a feminist anti-genderbased violence legal, counselling and interpretation clinic, where I worked for another five years. I was promoted to a Program Coordinator and had the opportunity to lead antioppressive projects across Ontario, reducing barriers that women from marginalized communities face when seeking supports for surviving gender-based violence. Subsequently, I received my Project Management Professional (PMP) certification, and went on to complete my MA in Social Justice Education at OISE. My thesis focused on a critical policy analysis on equity policies of Kinesiology faculties in Canadian universities. I am the first in my family to attend higher education, so I did not always see myself as belonging in academic spaces. Supportive and compassionate faculty members such as Dr. Miglena Todorova have helped me to overcome

At U of TI have worked as an Assistant Manager at the U of T Faculty of Kinesiology and Physical Education (KPE) in the aquatics department, and as a Program Coordinator at the Faculty of Medicine's Office of Inclusion and Diversity (OID). Currently, I am back at KPE as an Equity Engagement and Student Advisor. I have also been involved in grassroots organizing, and co-founded Femifesto, a collective that works to shift rape culture to consult culture. I would say that my biggest mentors have been feminist, queer, racialized women and trans people who do

some of these barriers.



life-long anti-oppression work. They of the Solidarity with Land and microaggressions that they commonly have generously shared wise practices and knowledge with me. I also greatly learned from the ways in which they embody their politics through their everyday practices and relationships. I was really influenced by the works of Sara Ahmed, who applies a critical anti-racist lens to equity, diversity and inclusion work at universities.

What are some topics that you are passionate about, or you think need more awareness?

I am passionate about resisting and interrupting "white feminism" feminism which is not intersectional. As a non-Indigenous settler, Medicine Learners. a white woman, and a first generation Canadian, I continue to unlearn colonial, patriarchal, racist ideologies. I am committed to working in solidarity with the As a Program Coordinator at the OID, land back movement and abolition I often heard stories from learners,

Solidarity with Wet'suwet'en Land Defenders from and

What is the Microaggressions campaign about, and how did it start?

movement. I am currently a member staff and faculty members about

Water Defenders collective (formerly face. For example, Black students, known as the Social Justice Education who are medical learners shared that Wet'su'wet'en patients and even colleagues often collective), which was formed out assumed that because they are Black, of OISE. I urge all non-Indigenous they could not possibly be medical Canadians to learn about and act in learners, and instead referred to them solidarity with Indigenous land and as volunteers or caretaking staff. I also water defenders. State-sanctioned identified that microaggressions are colonial violence, displacement of pervasive when reviewing data from Indigenous People from their unceded the Voice of The... (VOT) Surveys lands, and environmental destruction which were completed by many continues to occur today. One place stakeholders across the Faculty of to start out is with the Wet'suwet'en Medicine. I created the U of T Faculty Supporter Toolkit 2020, and the of Medicine Office of Inclusion Open Statement of Solidarity with the and Diversity's Microaggressions Allyship Campaign the University of Toronto Faculty of (#UofTMedCARES) to increase the awareness of microaggressions and their impact, begin discussions around microaggressions and allyship, and to encourage individuals to use their privilege(s) to be allies to others. The campaign includes posters, post cards and social media images.

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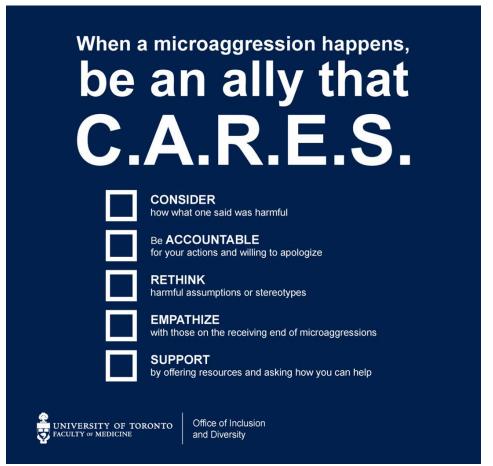


Image Source: medicine.utoronto.ca/microaggressions-and-allyship

When I did an environmental scan, C: Ask that the person who enacted I found that many images and the microaggression to Consider the campaigns about microaggressions <u>harm</u> that it caused. mainly focus on the harmful impact A: Take Accountability if you yourself marginalized communities. One and changing your behaviour. powerful message that I learned from R: Invite the person who enacted the world we want to see. In that underlying their statement or action. sense, social justice work must E: Empathize with the person who involve the practice of imagining new received the microaggression. transformative worlds and ways of S: Support the person who received campaign therefore aims to create help. imagery of and roadmaps to the kind services, research and educationresponses to microaggressions, based on the CARES acronym:

- that microaggressions have on enacta microaggression by apologizing
- Una Lee, a design justice advocate, the microaggression to Rethink is that we need to create images of the harmful ideology or stereotype
- relating to one another. The CARES the microaggression by offering Microaggressions and Allyship resources and asking how you can

of spaces we want to create in health The CARES model aims to be traumainformed by including empathizing where a supportive community and supportive responses to those who intervenes when a microaggression receive microaggressions, including occurs. It provides examples of ally in the moment, afterwards, or when disclosures happen. It also recognizes the policy and reporting structure

as a response to microaggressions by naming that support can include connecting people to equity offices and discrimination policies of the university.

I am excited to expand the campaign in collaboration with Amy, an amazing graphic designer and current student at the Faculty of Medicine.

What are some ways that you think students, staff and community members can support EDI in their environment?

- Ensure that everyone gets training onanti-oppression, including staff, faculty, students and leadership. This is so important to achieve a culture shift. Microaggressions is one topic, and there are many others. Training should include a focus on the different layers oppression-interpersonal, systemic and structural-and the various systems of oppressiontransphobia, sexism, racism, homophobia, etc. Learning must be ongoing as these are long-term, complex conversations.
- Everyone should have training on how to receive and make disclosures and reports of discrimination and harassment in a way that is trauma-informed and accountable.
- Think about what actions can be taken, and how current problems and progress can be measured. Then, report back on both the problems and the progress to all key stakeholders to ensure accountability.
- Make equity and anti-oppression central and embedded in everything. For example, how

anti-oppression throughout the entire curriculum? How is an equity lens applied to resource allocation and policy creation? How is anti-oppression as a key competency embedded directly in job descriptions and admissions?

Understand that the university and health care services and research are not neutral spaces. Leverage institutional power to movements of marginalized communities. Continue to learn, care services and research have of oppression, such as settler microaggression. colonialism in Canada.

What should students and staff do if they witness or are the recipient of a microaggression?

to respond to microaggressions who experienced the microaggression. both in the moment and afterwards You may want to access disclosure and if you want to engage in allyship. reporting pathways, such as an Equity When you witness a microaggression Office, to disclose what you witnessed occurring, there are ways to interrupt or experienced. Some offices, such and help someone think about what as OID, may allow for anonymous they said. The way you respond may reporting for individuals who do not be dependent on the situation and feel safe enough to do so. You may whether you feel safe and comfortable want to reach out to trusted friends doing so. Sometimes you may not or Faculty Members for support, and feel safe because there is an unequal to find ways to address this through power dynamic at play (e.g., a teacher training/programs that can be offered work in solidarity with grassroots and learner scenario). If this happens, to students and staff. attempt to "call in" the person rather than "call them out". "Calling in" unpack, and resist the ways in means taking an inquiring approach which the university and health in which the main focus is to seek feelings of alienation and invalidation. mutual understanding and reflection. historically been complicit "Calling someone out" is a more in and active arms of systems direct approach of interrupting the can prevent the perpetuation of

> do not feel safe in the moment. This how to practice the CARES model, does not mean there is nothing you can do. I encourage you to check in, Microaggressions and Allyship

> The CARES model provides ways empathize and support the individual

Experiencing microaggressions can be scary, hurtful, and can bring upon Interrupting stopping microaggressions from occurring racism and discrimination within our academic and work environments. To You may also not respond because you learn more about this initiative and visit the University of Toronto's Campaign page.

> Edited by Emily Vecchiarelli & Curtis D'Hollander

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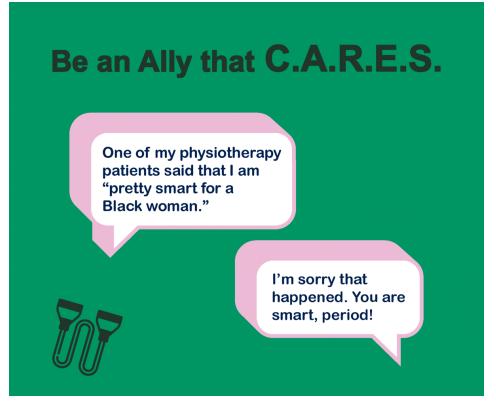


Image Source: medicine.utoronto.ca/microaggressions-and-allyship

FOOD INSECURITY, MENTAL HEALTH, AND POST-SECONDARY STUDENTS

CURTIS D'HOLLANDER

The Food and Agriculture directional, with food insecurity being socioeconomic and demographic insecurity as "lacking regular access to for food insecurity. enough safe and nutritious food for

▲ Organization (FAO) of the extremely stressful, and those already United Nations defines food struggling with mental illness at risk

normal growth and development and In Canada, household food an active and healthy life. This may be insecurity is measured via the due to unavailability of food and/or Household Food Security Survey lack of resources to obtain food". Food Model (HFSSM) on the Canadian insecurity ranges from mild, meaning Community Health Survey (CCHS) there is uncertainty about the ability by Statistics Canada. This data was to obtain food, to severe, when food last collected in 2017/2018, which is missed for a day or more. There found 1 in 8 Canadian households are important health implications of were food insecure - an increase food insecurity. A dose dependent from 2007/2008 and 2011/2012.3 response has been demonstrated The relationship between food between food insecurity severity and insecurity and mental health has also mental health status - that is, as food been observed in Canada. Jessimaninsecurity worsens, so does mental Perreault & McIntyre used CCHS health status.² This trend has been data from ~300,000 Canadian adults observed consistently over all regions to examine the relationship between around the world, including North food insecurity and 6 adverse mental America.² The relationship is likely bi-health outcomes. After adjusting for

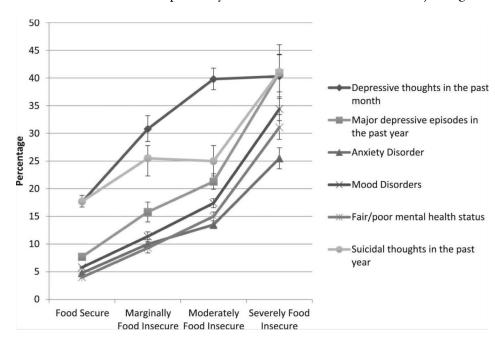


Figure 1 | Percent and 95% confidence intervals of six adverse mental health outcomes reported for each level of household food insecurity (Jessiman-Perreault et al., 2017)

factors, the results clearly supported a possible dose-dependent relationship between food insecurity and mental health outcomes (Figure 1).4 For instance, if a moderately food insecure household were to become food secure, a 14% reduction in the reporting of depressive thoughts in the past month would be expected.4 On the other hand, if a severely food insecure household were to become food secure, a 25% reduction in the reporting of depressive thoughts in the past month would be expected.4 Similarly, Davison & Marchall-Fabien used data on three provinces from the CCHS to examine the relationship between food insecurity and suicide ideation among 5,270 Canadian adults. Those with moderate and severe food insecurity were found to be more likely to have suicidal ideation.5

Food insecurity is not experienced equally across Canada. As a vulnerable group, the food insecurity experiences of post-secondary students deserves greater attention. Post-secondary students are faced with high and increasing costs of tuition, housing, and living expenses while receiving little or no income and often carrying debt. For instance, tuition fee increases historically outpace inflation. In 2014/2015, Canadian undergraduate tuition fees rose 3.3% while inflation measured by the Consumer Price Index rose 1.3% in the same period.11 This same trend is shown from 1990 through 2005 in Figure 2.12 Additionally, in the year 2000, the average debt for a Canadian Masters

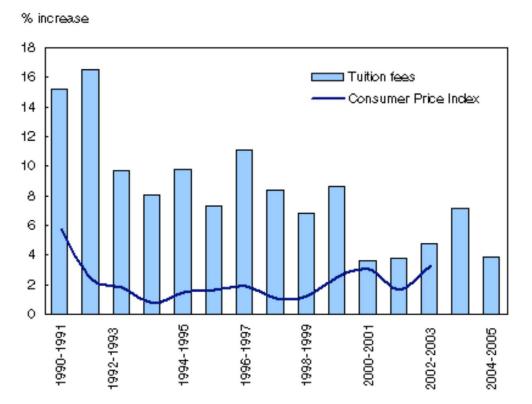


Figure 2 | Rates of increase in Canadian undergraduate tuition fees versus inflation (Statistics Canada, 2004)

student at graduation was \$20,300, References while it increased to \$28,000 in 2015.13 only 5 recent studies examining food insecurity at Canadian universities. Results are summarized in Table 1. There are two important messages from these results; 1) Food insecurity among Canadian post-secondary students is about triple the national average and, 2) There is no data on food insecurity among University of Toronto students.

The purpose of this article is to raise attention to the invisible food insecurity problem which is (very) likely occurring at the University of students' well-being and mental health. For any problem to be solved, it first needs to be well defined, which is why we should collect food insecurity data on University of Toronto students.

Edited by Emily Mastragostino & Jeffrey Lynham

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Author, year, University	How food insecurity was	Sample characteristics	Results
Wagner et al., 2020 ⁶ Wilfred Laurier University	measured Modified HFSSM	n= 844 (4.3% of student population) Undergraduate (89%) Graduate (11%)	Undergraduate: 47% food insecure to some extent Graduate: 51% food insecure to some extent
Entz, 2017 ⁷ University of Manitoba	Modified HFSSM	n= 548 Undergraduate (86%) Graduate (14%)	Undergraduate: 35% food insecure Graduate: 33% food insecure
Olauson, 2017 ⁸ University of Saskatchewan	Modified HFSSM	n=1,359	39% of students food insecure to some degree
Frank, 2018 ⁹ Acadia University	Modified HFSSM	n=1,030	38% of students food insecure
Silverthorn, 2016 ¹⁰ Brock University Dalhousie University Lakehead University University of Calgary Ryerson University	Modified HFSSM	n= 4,013 Undergraduate (87%) Graduate (12%)	Undergraduate: 39% food insecure to some degree Graduate: 35% food insecure to some degree

Table 1 | Summary of studies examining food insecurity among Canadian post-secondary students

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MATERNAL MENTAL HEALTH IN CAMBODIA

results of, a study on antenatal and Cambodia. The study was part of a larger four-year initiative sponsored by the Canadian government and Adventist Development and Relief change women's health in Southeast Asia. ADRA, already on the ground in Cambodian communities and well placed to carry out enough surveys study.

First, why do the study? The World Health Organization (WHO) describes mental health as an integral and essential part of health and that, generally speaking, there can be no health at all without it.1 It has

The following relates the reasons for 6.77% of the global-disability antenatal depression is associated ▲ for, then the running and life years (DALYs).² Moreover, an with underutilization of antenatal estimated 80% of people with severe care services, complications during postnatal women's mental health in mental disorders living in low- and middle-income countries (LMIC) do in childbirth, adverse pregnancy not receive adequate mental health outcomes (e.g., preterm birth, low services.3

> mild depressive symptoms, may be and development). 6-10 overlooked by primary health care

pregrancy, negative experiences birth weight, stillbirth, and birth asphyxia), and infant mortality and Agency (ADRA) Canada to positively Antenatal depression, particularly morbidity (i.e., poor infant growth

(PHC) providers during antenatal The World Health Organization assessments. The condition and (WHO) estimates that by the year for statistical validity, conducted the symptoms are often attributed to 2030, depressive disorder will be the emotional changes due to fluctuating leading cause of global disease burden pregnancy hormones.⁴ However, in women.¹¹ The rate of depressive untreated antenatal depression can be illness in women of reproductive associated with risks of postpartum age (15-49) is projected to be twice depression, which has significant that of men in the same age range.¹¹ consequences for the health and A systematic review of 21 studies on well-being of the infant.5 Antenatal antenatal depression reported an depression is a public health concern overall prevalence of 10.7%, though been reported that mental disorders due to its negative effect on the variability was noted in the individual and substance use are responsible general health of women. Further, studies (representing upper-middle

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The limited studies conducted in the to health research to address 90% of workers is insufficient. global health problems. 12,13 However, countries.¹¹ A systematic review of studies spanning 17 low- and middleincome countries reported a 15.6% weighted mean prevalence of nonprevalence of maternal mental health services required by the government.¹⁹ disorders varied between low- and middle-income countries.

Cambodia is a lower-middle-income country in Southeast Asia with an estimated population of 15.6 million.14 The majority of the people are Buddhists, and the primary language is Khmer. Cambodia's total landmass is 181,035 sq. km,15 and there are 24 provinces and 185 districts.¹⁶ Cambodia places 46 out of 178 countries in the Fragile States Index, an annual report published by the New Humanitarian news agency.¹⁷

Cambodia has a long history of war and violence, from the civil war in the 1960's and the Khmer Rouge period in the 1970's. This history, coupled with widespread poverty, limited resources, high rates of violence against women, a precarious human rights situation and limited resources for care are contributory causes to the poor mental health problem in Cambodia. An interview with a local Provincial Health Department Director revealed that national documents containing guidelines for mental health care exist, but the available resources and

higher-income countries).⁵ health care infrastructure are below PHC is considered to be the best way WHO's recommendations. low- and middle-income countries, Moreover, the Health Director said, exemplifies the disparity in health there is no budget allocated for mental research expenditure. The 10/90 health at the district level, no mental gap shows that less than 10% of health specialists, and the mental worldwide investments are directed health training provided to health care

available literature suggests that Approximately 85% of Cambodians there are higher rates of antenatal live in rural communities, while depression in low- and middle-income mental health facilities are in urban areas.¹⁸ Currently, Cambodia has 1,049 primary health care (PHC) centres that service 10,000-20,000 people. However, in a report from 2010, only psychotic common perinatal mental 43% of the PHC services provided disorders.¹³ The weighted mean the complete minimum package of investigations and inappropriate and

for people to receive mental health care; people can access the service closer to their homes, plus stigma and discrimination are minimized.²⁰ Current evidence suggests that mental health care can be delivered effectively in PHC settings with the help of community-based programs and taskshifting approaches. Basic training in mental health care and appropriate supervision by mental health specialists can contribute to nonspecialist health professionals' ability to detect, diagnose, and treat patients with mental health disorders,²¹ reducing the number of unnecessary non-specific treatments. It is complex



PHC, but evidence has shown that and their impact as risk factors for low community-based services are more birth weight within the cohort. effective and cost-effective than hospitals.²²

In Cambodia, antenatal care is focused more on physical health in pregnancy, paying little attention to women. Thus, women with antenatal depression may not be identified during the prenatal period to initiate at the provincial and municipal levels Based on the interviews conducted in psychosocial interventions to prevent of government, co-designed and these regions, researchers discovered or mitigate the adverse consequences associated with antenatal depression. The social and environmental context is essential to consider, as they have predominantly been associated with antenatal depression.²³ Understanding Additionally, the research aimed the magnitude and risk factors of to identify mental health services no self-reported depression. Current antenatal depression is imperative to improving maternal mental health, and fulfilling the UN's Sustainable Development Goals (SDGs) numbers 3 and 5: promoting good health and well-being of mothers and children and advancing gender equality among populations, respectively.

The statistics from the study also reflect and include the unreported and unrepresented proportion of women who suffer from anxiety and depression during their pregnancy. Within Cambodia, there has been no national measurement of maternal anxiety or depression. Consequently, their potential impact on the mother and her child in relation to health intervention success, nutrition, child or maternal health has not been explored.

In close collaboration with other organizations, a study conducted by Pugh (2009) has researched this phenomenon in three Cambodian provinces, with the aim of measuring the prevalence of anxiety and

to integrate mental health care into depression in the pregnant population interviewees outlined the availability

Through EMBRACE, researchers partenership with the local ADRA depression during pregnancy. office in Cambodia plus other locals conducted research to identify the that 21 of 302 (7%) mothers identified current prevalence rates of antenatal depression and anxiety within its targeted project sites, Chaom Khsant, were referred for counseling. Likewise, Rovieng, and Sandaan districts. currently available to community depression rates range from 11.5% members within its targeted villages. ADRA's research identified six sites for crucial informant interviews made current range of depression within up of government health facilities (one the country. However, given that hospital and five health centers), that these results were specific to pregnant provide comprehensive antenatal care women during their pregnancy, services. A total of 11 key informant our results indicated lower rates of interviews (KII) were conducted depression among pregnant women at local health facilities, including than outlined by Pugh (2009). personnel such as health centre directors, physicians, and nurses. The These contrasting results may

of mental health services currently provided within a primary care setting. Additionally, over 300 pregnant In response to all these concerns, women were interviewed using the ADRA sought to intervene during its Edinburgh Postnatal Depression four-year maternal and child health Scale (EPDS), the standard and programme, called EMBRACE. most commonly used tool by health professionals during prenatal care the psychosocial health of pregnant from the Canadian office, in for determining the risk of assocated

> as having depression (they scored 13 points or higher on the EPDS) and the remaining 281 (93% of) pregnant women scored below 13, indicating to 80% in Cambodia, meaning that our results were just outside of the



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contributing to depression. Likewise, it may be caused by stigma, cultural constraints, and taboos associated with mental health disorders in Cambodia and worldwide. One final explanation may be the implementation of Edited by Emily Mastragostino & ADRA's EMBRACE project between Jeffrey Lynham 2016 and 2020. During EMBRACE, the project's targeted communities References received ongoing and sustainable centres, training for frontline health workers to enhance to current levels of care experienced by women in 04 Dec 2018. surrounding villages, and communityled financially sustainable savings 2. Institute for Health Metrics and better access to antenatal care services that are crucial to proper and healthy fetal and newborn development.

in Cambodia, it is recommended that Scholar program designers of maternal health

be explained by various reasons, component for psychosocial support including study design, tools used, cut- that is fully integrated into the offs established and/or differences in delivery of antenatal and postnatal social and environmental risk factors care check-ups. This will allow health 1409. care professionals at the community level to determine early in the life of a project or intervention the need for additional support.

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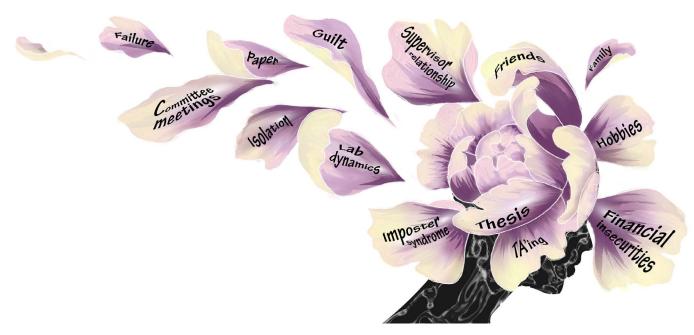
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ELUCIDATING THE MENTAL HEALTH CRISIS IN ACADEMIA NORZIN SHRESTHA

Mental Health and mental in the lab fourteen hours a day, seven illness are often wrongly used days a week and the lab was practically interchangeably. Similar to how we my home. Later, I realized that I was experience in graduate school. take care of our physical health by actually crippling my growth as a exercising and eating healthy, it is scientist. This is a very common work support system usually consists of our equally important to take care of our model in academia and probably one mental health. Yet, why is it easier to of the main contributors to the mental Now, imagine if our relationship with discuss our physical health with a health crisis we are currently facing. doctor (i.e., when we break a bone or There is this idea that long work a healthy one... wouldn't that pose develop a cold), but it is more difficult hours lead to more data and more to talk to someone when our mental publications, and this is engrained health is suffering? Poor mental health in the mindset of many academics. does not need to be permanent. Don't get me wrong, you do need to our supervisor. If our relationship Whether it is with medication, work hard in order to get results, but with our mentor isn't conducive to counseling or setting aside some "me perhaps we need to emphasize the

very prominent in academia.

time," it is possible to be mentally well. need to work smart and efficiently disrupt our mental health significantly Unfortunately, poor mental health is rather than working long hours.

There are numerous factors that also induces feelings of isolation and for academics is imposter syndrome. contribute to poor mental health guilt. Many academics feel isolated I think almost everyone has felt in academia, including imposter from their non-academic friends and syndrome, financial concerns, poor family, as we are busy working in our supervisor relationships, and toxic lab labs. Moreover, it's extremely difficult their graduate careers. Not only do dynamics. Most people completely to explain our lifestyle to those outside we have to work hard (and smart), we give up their hobbies and stop having of academia. We also tend to feel guilty a social life so that they can give their as we cannot spend as much time with careers, whether it is with committee full attention to their work. I was also them as we used to, which often leads meetings, presenting posters/talks at

good support system is crucial while going through such a demanding Excluding our friends and family, this supervisor and colleagues in the lab. our supervisor and colleagues isn't as an immense source of stress? As a student, our academic and professional future relies heavily on guidance from understanding and growth, this can and become a major source of anxiety.

The culture of working long hours Another common source of suffering inadequate and doubted their own accomplishments at some point in are also "tested" at every stage of our guilty of this myself — I used to be to strained relationships. Having a conferences, and defending our work

at the end of graduate school. So, in of Toronto. Nevertheless, if we want to such brilliant and strong individuals this competitive and sometimes hostile is a part of life and sometimes, things in scientific breakthroughs!

Graduate school is a very challenging experience, however, there are other of our communities? I think it's crucial to point out that even though the majority of work published on mental health focuses on graduate (i.e., post-doctorate fellows, faculty members and lab staff). If they were in school and didn't seek help, then their poor mental health has not been addressed their whole career!

Everything that I have touched upon so far is a part of the global mental health problem. It's not just restricted to our department or to the University

environment (depending on the lab that would be here within the Cell and realized that the department didn't you're working in), a failed experiment Systems Biology (CSB) Department. have any resources in place to help or a failed project can send us to a very Financial concerns, inside and outside those who were suffering. There dark place mentally. In reality, failure of academia, are major contributors was no conversation around mental don't work out as we had planned Compared to other departments, of the current crisis. It was then that I or envisioned. In times like these, we serving as a teaching assistant (TA) is decided it was time to take action and really ought to remind ourselves that a part of our stipend. So, in addition founded the St. George CSB Wellness some failed experiments have resulted to conducting experiments, we have Committee. The committee consists want to stay in academia and become members. I believe that the best way to professions that are equally, if not as we have a guaranteed position. This committee will hopefully be more, challenging. What are we doing For others who plan on working useful for those who don't feel that is debilitating the mental health in industry, venturing outside of comfortable disclosing their feelings to terrible time-management and multi- one (such as international members, and more of a nuisance. Then, there students, there are other members of are those of us who have families to our community who are also suffering support and the current stipend is really not enough!

> of the mental health crisis in academia. As I progressed through graduate slip from being mentally healthy to developing anxiety, depression and some who even contemplated suicide. If you are experiencing emotional Being on the caregiver side of the struggle, it was heartbreaking to watch

see change, we have to start small and suffer. In my pursuit to help them, I of stress, anxiety, and depression. health and absolutely no awareness to be a TA, while also taking some of graduate students, a post-doctoral grad courses. For those of us who fellow, a staff member and faculty professors, this is the ideal situation tackle this crisis is by working together. academia and industry or who have their social circle or for those without tasking skills, it is extremely stressful labs with only one student, and domestic but out of province members of our community). The goal of the committee is to increase awareness surrounding the mental health crisis, while advocating for the wellbeing of experiencing mental health issues When I started my PhD, I wasn't aware everyone at CSB. So, if you are reading this and you are suffering, please reach out to someone. It doesn't matter school, I began to notice many friends who. Just someone. Sometimes, just the act of talking helps.

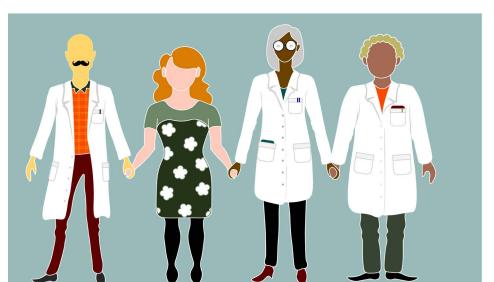
> distress and would rather speak to someone outside of our department or university, please contact one of the following crisis lines:

Good2Talk: 1-866-925-5454 Gerstein Centre Mental Health Crisis Helpline: 416-929-5200 Toronto Distress Centres: 416-408-4357 Crisis Services Canada: 1-833-456-4566

Kids Help Phone: 1-800-668-6868

Article previously featured in CSB's The Forefront

Illustrations by Cynthia Wong





INCOME INEQUALITY AND MENTAL HEALTH JEFFREY LYNHAM

illness. Countries all over the world face these issues to some degree. Yet why is Japan's homicide rate less than 5% of that in the United States?1 Also, why is the incidence of mental illness in Germany less than half of that in Canada?² The answer to these questions may be income inequality.

inequality as a problem only when it or boring ..."3 creates extreme poverty, but they fail to realize that it causes psychological In their book, The Spirit Level, Dr.

Lyou cannot help but notice many—the University of Nottingham, offers reports of violent crimes and mental a more sophisticated view of income inequality:

"Inequality brings out features of our evolved psychology to do with dominance and subordination, superiority and inferiority. It affects how we treat each other and feel about ourselves. Inequality increases status competition and status insecurity. It Broadly speaking, income inequality increases anxieties about self-worth, refers to how large the income gap is and intensifies worries about how between the poorest and richest in we are seen and judged - whether as a society. Many people view income attractive or unattractive, interesting

distress, even among the wealthy. Richard Wilkinson and Dr. Kate Dr. Richard Wilkinson, Professor Pickett suggest, through their work of this article; however, I would like

If you watch the news these days, Emeritus of Social Epidemiology at and the work of many other scholars, that health and social problems are much more prevalent in societies with larger income differences between the rich and poor (**Figure 1**).⁴ Countries that are more equal, like Norway, Sweden, and Finland, have a low index of health and social problems, whereas countries that are less equal, like the UK, Portugal, and the United States have a high index of health and social problems (**Figure 1**). These problems include poor math and literacy scores in children, higher rates of infant mortality, teenage births, imprisonment, obesity, and drug addiction, as well as lower life expectancy.4 The research literature on income inequality and health and social problems is far beyond the scope

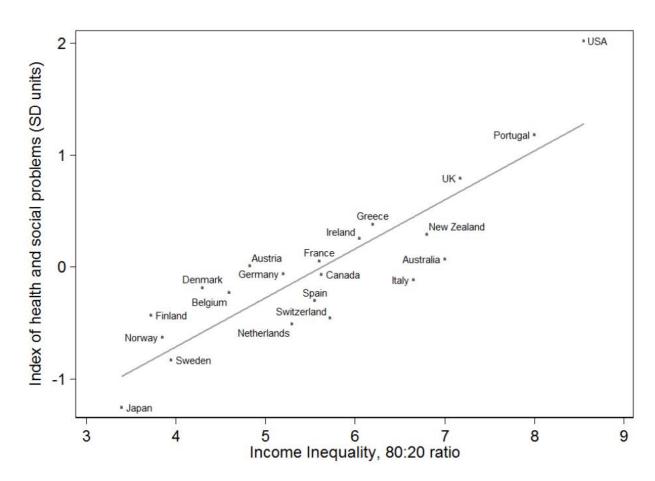


Figure 1 | Correlation between income inequality and index of health and social problems. Income inequality measured by the ratio between the average income of the top 20% to the bottom 20% (80:20 ratio). Source: Wilkinson, R.G. & Pickett, K. The spirit level: why equality is better for everyone, (Penguin Books, London, 2010).

income inequality and poor mental health outcomes, including stress, anxiety, depression, and narcissistic traits.

Mental illness is now the leading cause of disability in Canada,5-7 with 1 in 5 Canadians struggling with their mental health in any given year.8 The burden of mental health problems in Canada is overwhelming the healthcare system. Wait times and there were still large differences. for counselling and therapy can be long, especially for children. In If income inequality makes status in 31 countries that participated in Ontario, six month- to one year wait times are common.9 Are these high levels of mental illness an inevitable consequence of modern life in a highincome country? Maybe not. Rates meta-analysis of 208 studies, in which of mental illness vary substantially among high-income countries, with tasks to perform while having their

to highlight a few significant findings greater income inequality showing stress hormones monitored, found that show a correlation between a strong positive correlation with that tasks involving uncontrollable mental illness and drug misuse social evaluative threats, like public across countries. Nevertheless, the being more prevalent in unequal percentage of mental illness in each country was measured in the same way,

> differentials more noticeable, then people in a more unequal society may be susceptible to stress through volunteers had been given stressful

(Figure 2).4 Wilkinson and Pickett speaking or solving math problems suggest that this association is most in front of an audience, invoked the likely mediated by the impact of greatest stress responses.¹⁰ These inequality on status differentiation findings demonstrate that people are and social cohesion. One caveat of this most stressed when they feel like they analysis, however, is that it did not are being judged by others, which is take into account cultural differences consistent with poor mental health societies. Indeed, this was confirmed in 2014 by Dr. Richard Layte and Dr. Christopher Whelan. When analyzing data from 35,634 adults the 2007 European Quality of Life Survey, Layte and Whelan found that, across all income levels, status anxiety perceived social evaluative threats. A was higher in more unequal countries (Figure 3).11

ELEMENTALMAG.CA 31

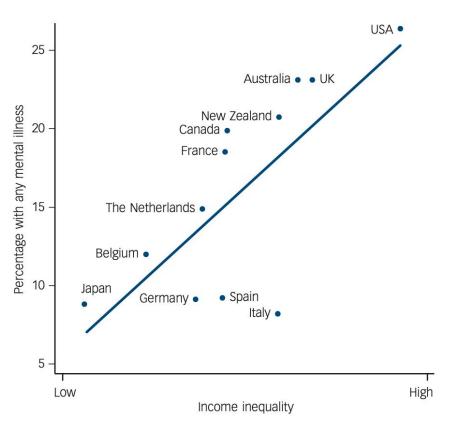


Figure 2 | Correlation between income inequality and mental illness. Source: Wilkinson, R.G. & Pickett, K. The spirit level : why equality is better for everyone, (Penguin Books, London, 2010).

to their self-esteem or social status, mania proneness, and narcissistic traits then this suggests that people living are related to heightened dominance in more unequal societies, especially motivation and behaviors. Mania those on either side of the spectrum, and narcissistic traits also appear may be more susceptible to poor related to inflated self-perceptions mental health. More specifically, those of power. Anxiety and depression can then make joint decisions. Studies with lower incomes may develop are related to subordination and feelings of inadequacy, self-doubt, low submissiveness, as well as a desire to self-esteem while those with higher avoid subordination."13 incomes may develop forms of selfenhancement and narcissistic traits.¹² When Johnson and colleagues Within the last decade, Dr. Sheri Johnson and colleagues identified that social hierarchies were similar the Dominance Behavioural System in most societies. Interestingly, the (DBS) as a "biologically-based psychopathies related to the DBS are it may have "a long-term, negative system" that guides dominant and more common in unequal societies. In impact on Canada by reducing our subordinate behavior as well as a study of 15 different countries, Dr. standard of living."¹⁷ In summary, responsivity to perceptions of power Steve Loughan and colleagues asked these findings suggest that creating and subordination.¹³ A growing body participants to answer a standard a more equal society is better for of research suggests that problems questionnaire that involved rating everyone, especially when it comes to involving issues of dominance and themselves on 20 desirable personality our mental health. subordination processed by the traits compared to what they thought DBS contribute to a broad range was the average in their country. Edited by Emma Syron & Curtis of psychopathologies. Dr. Johnson They found that self-enhancement is D'Hollander

If humans are sensitive to threats suggests that "externalizing disorders,

published their findings, they assumed

strongly related to income inequality.¹⁴ In another study of 93 countries with data from more than 80,000 people, almost 15% of participants reported feeling depressed, and there was a wide variation from one country to another.15 While average incomes were not related to feeling depressed, income inequality was. Moreover, this effect was stronger for people living in cities rather than in rural areas.15

Many of us don't see income inequality as an underlying cause of poor mental health. Similar to a doctor who only treats symptoms, we are not addressing the cause of the illness. So, what can be done about income inequality? One solution could be to raise top-level tax rates and redistribute the money to the poor, which would be effective in adjusting income levels. Addressing income inequality through taxes may sound appealing, however, these changes are often unsustainable since they can be rapidly overturned by a change in government. Another solution could be to encourage democratic ownership of companies, i.e., when companies are owned by their employees who have shown that, in such companies, pay ratios are reduced and employees have a greater tendency to treat each other as equals.16 While there may be disagreements on the best way to reduce income inequality, there is a growing consensus among Canadians that it should be reduced because

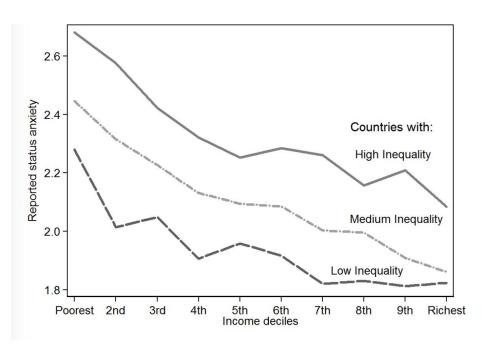


Figure 3 | Reported status anxiety vs. income deciles. Source: Layte, R. & Whelan, C.T. Who Feels Inferior? A Test of the Status Anxiety Hypothesis of Social Inequalities in Health. European Sociological Review 30, 525-535 (2014).

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THE LINK BETWEEN **EQUITY AND** MENTAL HEALTH

AMY CHAN

The social determinants of health, ▲ which are non-medical factors that impact health outcomes, are a significant topic at the intersection More recently, the novel coronavirus of equity and mental health.1 The environment where we grow, live, health in the community.

Mental Health?

intersectional identities and personal experiences with unemployment. social inequity, marginalization, and discrimination. For instance, individuals who have experienced mental disorders.² Countless research has demonstrated that experiencing the risk of depression, anxiety, substance abuse, and post-traumatic stress disorder.³ Similarly, LGBTQ+ individuals may face discrimination on the basis of sexual orientation, gender, disability and income, and thus, face greater marginalization

and risk for mental health issues.4 When trying to find the right care, it has been shown that marginalized groups face greater barriers in accessing the necessary services and supports to recover from mental illness, which further perpetuates the mental health inequity seen in the community.5 While the effect of social equity on mental health is apparent, the relationship is considerably bidirectional; poor mental health and experiencing mental health illness can also adversely impact social equity.5

disease of 2019 (COVID-19) has globally disrupted economic and and work impact both physical and healthcare operations, education, and mental wellbeing, and research has community health. It has resulted in demonstrated that individuals who a global increase of unemployment face social and economic inequities and business closures. The adjustment are at a greater risk of experiencing towards home confinement has poor mental health.1 In this article, I been associated with an increased hope to shed some light on the current prevalence of anxiety, depression, mental health equity research, how we and sleep disturbances including can improve access to mental health insomnia. Particularly, individuals services, and how to promote mental from disadvantaged backgrounds marginalized communities may experience an even greater risk How Does Social Equity Relate to of mental health concerns during COIVD-19.3 This can come from a lack of social connection, limited Mental health is strongly tied to access to resources, and stressful events including experiencing grief and

What Can We Do?

povertyareatagreaterriskofdeveloping As students and community members, we are an integral part in the advocacy, promotion, and delivery of mental or internalizing racism can increase health services. Here are some ways we can support others in the community: •

> Donate - Donate items in need or dollars to support the efforts of an organization or movement that you hope to advocate for. Your donation can be used to support

- the individuals who dedicate their time and effort to continue the cause!
- Collaborate with or volunteer for an organization - Many social justice and mental health organizations rely on folks from the community to keep their operations going. If you are a student, think about ways to bring these important causes to the student body through collaboration, or volunteer with an organization that you share important values with. If you're an entrepreneur or business owner, feature the organization in your store, or develop events to drive community involvement!
- Spread awareness Spreading awareness about the cause can be done in so many ways! From simply 'liking and sharing' educational resources and organizations on social media, to developing fundraisers, conferences, or seminars to educate the public on the cause. You are an integral part of connecting community members to these important causes and starting the movement.
- Participate in research focused on mental health equity – Contribute to the research efforts on mental health equity by participating in local or international studies. Research is important to inform policies and direct how institutions can better support those in need.
- Advocate for changes in policies, institutional goals, school curriculum - In addition to spreading awareness, advocating for these changes is the next step! This could include writing letters to student and community

councils or joining groups that actively work toward improving policies and school curriculums.

What to do if you are experiencing mental health concerns. If you are experiencing mental health concerns, there are many ways to get help.

Access Canada Suicide Prevention Service at crisisservicescanada.ca, by phone at 1-833-456-4566, or by text (45645).

For kids and youth, contact Kids Help Phone at 1-800-668-6868, by chat at https://kidshelpphone.ca, or by text (CONNECT to 686868).

For University of Toronto students, find someone to talk to right now at https://studentlife.utoronto.ca/task/ support-when-you-feel-distressed/.

If you are experiencing an immediate mental health crisis, call 911.

Edited by Anglin Dent & Curtis D'Hollander

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UNDERSTANDING THE LINKS **EQUITY ISSUES IN MENTAL HEALTH SIGNIFICANTLY IMPACT ONTARIO Equity Matters for Mental Health WOMEN ARE TWICE AS** LIKELY TO HAVE **DEPRESSION THAN MEN** LOWEST INCOME Canadians report LGBT youth face approximately 4 times the risk of suicide than their Significantly poorer MENTAL HEALTH heterosexual peers. MENTAL HEALTH MATTERS FOR EQUITY Barriers People with lived housing experience of menta health issues can experience discrimination & social exclusion Food insecurity **Employment** barriers Equity and Mental Health Intersect

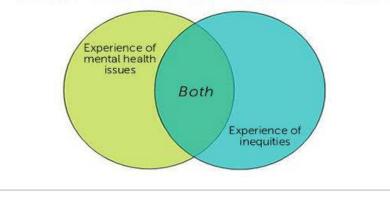


Image Source: https://ontario.cmha.ca/equity/

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THE PROTECTIVE FACTORS OF MENTAL HEALTH AMONG ETHNIC MINORITIES DURING COVID-19

AGNES WONG

to global mental health. The belonging to the group but without unaware of stereotypes and having situation could be particularly being aware of the stereotypes held by little attachment to ethnic groups concerning in ethnic minorities who others, then the person will still feel might additionally be facing racial psychologically distressed. However, distress, it can leave individuals discrimination. According to a recent those who were unaware of the unprepared for social interactions and study, Asian American adult college stereotypes and had little attachment isolated from alternative protective students are protected from the to their ethnic group were also factors. psychological distress caused by racial protected from psychological distress.¹ discrimination, if they have high levels of both ethnic identity commitment Nevertheless, discrimination is and metastereotype awareness (MSA). omnipresent globally especially due MSA refers to the awareness regarding to COVID-19. The long-term effects stereotypes others hold of their ethnic of being unaware of the stereotypes consider engaging in some cultural group.1 It should be noted that they held by others can be detrimental as are protected from the psychological college students will be unprepared distress only when both variables to deal with discrimination when they enhance your sense of belonging. (ethnic identity commitment and enter the workforce. Previous studies One suggestion is to learn the history MSA) are at a high level. For instance, similarly showed that associating with of your ethnic group and read books if the person is aware of the stereotypes an ethnic identity bolsters mental about your specific cultural heritage.^{1,2} held by others but without the health among minorities.^{2,3} Ethnic If you are an ally who wants to help protective sense of belonging to the identity is a crucial source of resilience your friend, then you must first take ethnic group, then one may suffer and can help minorities respond good care of yourself, and then try

OVID-19 poses a serious threat if one person feels a strong sense of due to discrimination.² While being can protect some from psychological

So, how can we help ourselves and our friends? If you are one of the ethnic minorities and face racial discrimination at times, then you may activities to help you feel positive about your own ethnic group and from psychological distress. Similarly, positively to the adverse situations to be aware of and understand the

friend may be experiencing due to about cultural differences, being respectful, and giving your warm support and care when needed.

In addition, appropriate coping strategies are essential for mental health of ethnic minorities during this stressful period. You may have experience in coping actively, which seeking emotional support. On the other hand, you may detach from the stressor by socially withdrawing. These are examples of engagement and disengagement coping strategies respectively.4

Surprisingly, the literature in the area of engagement and disengagement coping is characterized by mixed engagement coping strategies were associated with less psychological distress among Asian American and Latinx American college students experiencing racialethnic microaggressions, disengagement coping strategies Conversely, another study found that discrimination.

associated with reduced depression D'Hollander COVID-19. Listening actively, taking among Asian Americans who their concerns seriously, learning experienced racial discrimination.⁶ References Perhaps both engagement and disengagement coping strategies could 1. Atkin AL, Tran AG. The roles of strategies were effective in moderating the relationship between depression and life satisfaction among Chinese immigrants and Chinese Americans White universities. Cultural Diversity during COVID-19.3

can include problem-solving or There is no answer to which coping your mental health to a certain 2014 Jan;44:1-11. extent.³ Suggestions in previous studies include meditating, exercising, 3. Litam SD, Oh S. Ethnic identity relying on your support network, and coping strategies as moderators obtaining validation from those of COVID-19 racial discrimination findings. A study found that who are like-minded, and distancing experiences oneself from discrimination (e.g., Americans. Counseling Outcome focusing on study or work).^{3,5} Seeking Research and Evaluation. 2020 Sep professional support is also one of 25:1-5. the important strategies if you are struggling to find helpful coping 4. Tobin DL, Holroyd KA, Reynolds while strategies. Practicing most of these strategies should enhance your mental structure of the Coping Strategies failed to show such effect.⁵ health, in general, regardless of racial Inventory. Cognitive therapy and

stress and discrimination that your disengagement coping strategies were Edited by Reeba Khan & Curtis

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THE IMPACT OF COVID-19 ON THE MENTAL HEALTH OF INDIVIDUALS WITH ADHD

SHAMANTHA LORA

The public health burden of primary caregivers and provide Breaux and colleagues found that both to be between 5.3% and 9.0%. ADHD these symptoms can be exacerbated by this guideline is intended to educate and colleagues.

L coronavirus disease 2019 parents with appropriate behavioral (COVID-19) has been experienced strategies, it fails to provide specific emotional regulation (ER) abilities worldwide, yet it has dis-information regarding evidence-based to have significant relevance in proportionately affected individuals interventions targeted at mitigating with attention deficit hyperactivity the difficulties faced by students with disorder (ADHD). The prevalence of ADHD, such as coping with chronic ADHD in North America is estimated stress, lack of consistency, and emotion dysregulation. These difficulties can is characterized by inattention, hinder the capacity of individuals hyperactivity, and impulsivity, and with ADHD to deal with daily tasks and behaviours. Emerging studies COVID-19, spring 2020 (during staystress and anxiety induced by a global suggest ADHD children's behaviours pandemic. For example, children and have markedly worsened throughout adolescents with ADHD may have the pandemic.4 These findings have Their findings indicate a significant additional struggles with remote been conducted primarily using learning, physical distancing, and survey-based reports from primary family confinement.² In response caregivers. The aim of this article is to this, the European ADHD to provide a critical appraisal of the Guidelines Group (EAGG) published effect of COVID-19 on the mental a multimodal intervention approach health functioning of individuals with to the assessment and management of ADHD by examining a 2021 study ADHDduring COVID-19.3 Although conducted by Dr. Rosanna Breaux



ADHD status and pre-COVID-19 predicting changes in mental health.5 They conducted a longitudinal study examining changes in the mental health functioning of adolescents with and without ADHD at three time points. The time points that the authors investigated were preat-home orders), and summer 2020 (after stay-at-home orders were lifted). difference between scores taken prior to COVID-19 and scores in spring 2020 and summer 2020 across all the measured dimensions. Interestingly, the findings revealed an initial increase in symptoms of inattention, hyperactivity and impulsivity observed in spring 2020 that later decreased in summer 2020 following the lifting of lockdown measures, which suggests that this population is susceptible to pandemic stressors.6 In addition, adolescents identified pre-COVID-19 with poor emotional regulation (ER) abilities scored higher and demonstrated, on average, more depression and anxiety symptoms at all time points. Interactive risk was assessed based on ADHD status and pre-COVID-19 ER abilities using linear mixed-effects models. Their comparative models suggested that adolescents with ADHD and poor ER abilities were at an additive risk

for inattention, hyperactivity, and

impulsivity symptoms. This coincides with existing findings that suggest

that remote learning places increased



demands on executive functioning.⁷ Those with ADHD are under greater learn in a more independent learning environment amid distractions and pandemic-related disruptions.

research and guidelines on how to manage ADHD during a public behavioural dimensions.9 health crisis. Children, adolescents, disadvantage. The effects of home confinement may vary depending on the severity of ADHD combined with their environmental conditions. Unfavourable conditions at home may increase the risk of impulsive behaviour and difficulty in following instructions.⁷ Home confinement has restricted individuals' access to both personalized medical care and academic resources. Even though some studies report interruptions of social relationships, reduced physical activities, lack of structure, and an overall disruption of routine,8 others indicate decrease in anxiety and overall improvement due to less school-related strain and flexibility in schedules.2 These inconsistent findings can be better understood when ADHD is seen as a spectrum disorder. For

and behavioural variations in ER as a potential protective factor pressure since they are now required to individuals based on their degree against environmental stressors for all of severity distinguished that low individuals with ADHD. severity degree of ADHD correlated with worsening of all dimensions yet The study may also be limited by

> suggest that gender influences or been argued that families with low determinants such as socioeconomic SES are one of the most vulnerable status (SES), ethnicity, and medication to the negative effects of COVID-19.7

> status are not significant predictors of poor mental health in adolescents with ADHD. These generalizations may be best understood when considering the limiting factors of the study. Potential selection and ascertainment bias of the study cohort only allowed for teenagers aged 15-17 years old to be included in this study. Children with ADHD who are younger than 15 may be more susceptible to effects of chronic stress whereas adolescents might demonstrate greater adaptability, greater flexibility, and greater cognitive development. Since individual ER abilities can vary, the results of this study are instance, studies observing mood limited in its generalizability to using

individuals with moderate to high spectrum bias due to its exclusion These findings set the stage for future severity demonstrated improvement of ADHD participants with other in restlessness, irritability, and other comorbidities. This bias can also be explained using a predominantly white study sample and the low level and adults with ADHD are at a Dr. Breaux and colleagues, however, of variance in family income. It has



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This is especially true for individuals behavioural challenges of ADHD who are suffering both financially individuals. We need additional and mentally. The study cohort did research focused on parental not capture ADHD adolescents from underserved communities, minorities, and other ethnicities, despite efforts to and access to technology.¹⁰ It is also recruit from schools in a range of socio-important to take into consideration economic areas in the US, suggesting the need for a supportive domestic lower SES chose not to participate. environment for individuals with Edited by Jeffrey Lynham & Curtis Given this underrepresentation, it ADHD. This requires engaged can be inferred that the psychosocial effects on adolescents would likely providing both academic and parental be more severe and include a wider support during home confinement. distribution of symptoms than Insights on how to best support 1. Polanczyk, G., de Lima, M. S., present study findings. Therefore, vulnerable individuals with ADHD Horta, B. L., Biederman, J., & the true spectrum of ADHD may not have been fully captured by the holistic approach to care. Therefore, findings.

when addressing the emotional and individuals with ADHD need.

psychopathology, academic support at home, effectiveness of telepsychiatry, parents who are responsible for will guide caregivers toward a more longitudinal studies that investigate review and metaregression analysis. long term consequences of pandemic The American journal of psychiatry, Moving forward, it will be important conditions should continue to provide 164(6), to use multimodal interventions insight into the types of support org/10.1176/ajp.2007.164.6.942

This will also provide policy makers with evidence-based information to determine the potential risks of pandemic restrictions, which will help caregivers build better support systems for individuals with ADHD during COVID-19 and future pandemics.

D'Hollander

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SOUTH ASIAN CANADIAN HELP-SEEKING BEHAVIOURS AND BARRIERS TO MENTAL HEALTH SERVICES

ASHLYN JAMES

Furthermore, the ongoing mental personal wellbeing.³ These startling styles of interaction.⁵ statistics show a need for care that is not being met for the South Asian In terms of post-secondary community.

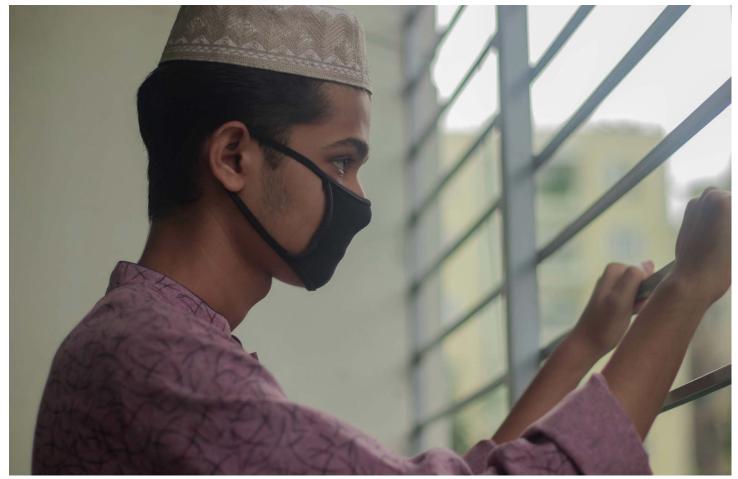
More than half of the people in the South Asian community Bhutan, Bangladesh, the Maldives, with a mental illness do not seek and Sri Lanka.⁴ I hope this article help.1 Specifically, South Asian opens the minds of its readers and South Asian college students are not immigrants have higher levels of raises awareness for members within being addressed by universities. As life stress and anxiety in relation South Asian communities who face to other Canadian populations.² service access barriers that include health resource centers in Canadian personal beliefs of services, language health stigma experienced by South incompatibility, culturally insensitive Asian communities is linked to poorer services, and culturally dissimilar

experiences, South Asian college students have less positive attitudes The South Asian community is towards counseling than Caucasian growing considerably and makes college students.⁶ This could be due up one of the largest non-European to self-stigma, anticipated beliefs, ethnic origin groups in Canada.4 and self-disclosure that is shown to According to the federal census, the influence help-seeking behaviours in South Asian community refers to college students from varied ethnic those with ancestry that originates in and racial backgrounds.⁷ Self-stigma South Asia, a region that includes but and perceived stigmatization can be is not limited to the nation-states of compounded by ethnic minorities'

relationships with the dominant society, other ethnic groups, and their own ethnic groups. These barriers for a student who has worked at mental universities, I can attest to services being tailored to the wider university demographic, in turn overlooking the specific needs of minority students in the South Asian community.

Gender should also be considered when creating specific and accessible mental health programs. South Asian women have higher levels of distress when they have low extended family support, and men have higher levels of distress when they have a low community position and conflict within the family culture.9 Moreover, personal stigma and being male are negatively associated with helpseeking behaviour.10 This exemplifies that different genders face different unmet needs for service in South Asian communities and these gender differences are not acknowledged within the mental health community. This lack of knowledge in combination with service barriers is negatively affecting the South Asian community.

Mental health services are tailored to a white heteronormative patriarchal society in terms of language, advertising, accessibility, and cultural fit. Various findings and real-life examples demonstrate the implications of this reality. A 2008 Canadian study which included over 16,000 ethnic minorities found that



likely to use mental health services for economic, physical, and emotional South Asian Health Strategy in than Caucasian populations.11 In health.13 A lack of mental health Ontario. addition, a 2013 telephone survey resources for the South Asian of a random sample of the South Asian community aged fifty-five and older found cultural incompatibility, administrative using services, problems, as well as circumstantial challenges to all create barriers to accessing services.5

Most recently, as the COVID-19 pandemic unfolded, Canadians witnessed a disproportionate number of color (BIPOC) community contracting COVID-19 due to long-standing systemic health and social inequities.¹² The South Asian have limited access to many of the Council of Agencies Serving South limited access in turn increases the Equity Conference where they created D'Hollander

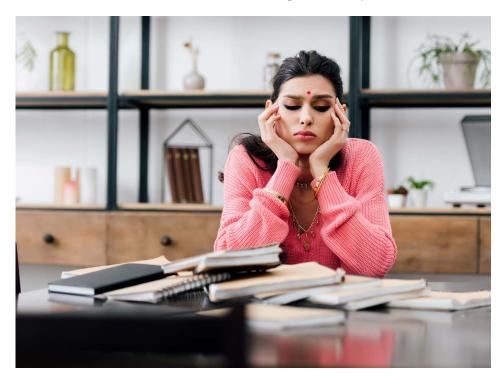
community only compounds the More broadly, policymakers should oppression experienced.

negative personal attitudes about These research trends indicate there is targets, focusing on health promotion a need to address the inequality created by an unmet need for care exhibited by programs empowering both men the alarming amount of South Asian and women in the South Asian community members with a mental illness not seeking help. A culturally appropriate plan of action should barriers.5 Unfortunately, health be developed and implemented. disparities remain unaddressed and Firstly, a plan which aids South there continues to be structural of the black, indigenous, and people Asian communities in overcoming inequalities that are detrimental barriers related to personal attitude. to the health and safety of BIPOC Secondly, a plan to give South Asian communities across Canada. This communities better access to needed article allowed me to display one services.⁵ Fortunately, the blueprints of many inequalities that must be community, particularly immigrants, for such a plan do exist. In 2013, the addressed. social determinants of health. This Asians had their third annual Health Edited by Maverick Smith and Curtis

South Asian immigrants were less risk of not having fair opportunities a plan called Building an Effective

reduce service barriers affecting South Asian communities by setting policy information, creating gender equality community, and put in place services for cultural needs and language

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NEUROPLASTICITY AND MENTAL WELLBEING

USING THE ADAPTIVE QUALITY OF THE MIND TO CREATE AN UPWARD SPIRAL

MILENA BRATICEVIC, PhD

average person starts their day, they will experience innumerable worrying thoughts: How will I take care of my family? Will I do well at my job Neuroplasticity and the Worrying today? What if something comes Mind up that I am not able handle?, etc. According to the latest Mental Health The human brain is incredibly plastic sections of the forest. Similarly, our Research Canada poll, Canadians are experiencing unprecedented mental distress due to the pandemic, with common mental disorders reaching the highest levels ever. Young adults, women, and ethnic minorities have been disproportionately affected with anxiety and depression, while suicidal ideation among young people has reached a catastrophic rate of 20%.

It seems that the constant chatter in our mind is here to stay... But is there a better way to understand the us. worrying mind? Can we gain a more

We all experience a level of worry direct access to the mind by looking To illustrate neuroplasticity, you can into the mechanisms of worry, thereby think of a path in the forest. While opening a window into a new way of some paths are difficult to walk, thinking and being?

— it has a great ability to adapt and repeating worrying thoughts become change. Neuroplasticity is the brain's ability to constantly create new neural brain goes to them by default, hence connections through learning and the moment we wake up we start life experiences. While some neural experiencing the repetitive chatter connections become stronger, other of the mind. In his book "The Brain connections become weaker. What That Changes Itself," Norman Doidge does this mean for our tendency explained both the positive and to worry? It means that if we start the negative aspects of the adaptive worrying, and if we worry more each quality of the brain: day, we will be essentially wiring our system for worry, and the state of Neuroplasticity renders our brain worry will become more accessible to not only more resourceful but also

think of a path in the forest. While those that have been walked many times have turned into trails. It is much easier to walk on a well-paved trail, and for this reason we typically don't bother going into the unpaved so engrained and established that the

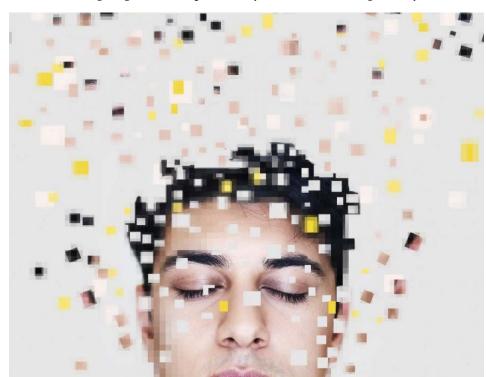
more vulnerable to outside influences. Neuroplasticity has the power to produce more flexible but also more resolving challenges. Since thoughts supposed to do! If you are 40 years rigid behaviours... Ironically, some of are simply representations of reality our most stubborn habits and disorders (similar to a picture from a particular for worry for the past 20 years, those are the products of our plasticity. Once angle), in order to attain a more neural connections will be so strong a particular change occurs in the brain realistic view we need to create a more and becomes well established, it can comprehensive, 360-degree view of prevent other changes from occurring. reality. It is by understanding both the positive human possibilities.

examine them from various angles. mind. Is the thought true? Is it helpful in feel when we think this thought? Ever Do How do we act? These questions are way we think to our behaviour.

and negative effects of plasticity that Once we are more aware of our become impatient with how quickly we can truly understand the extent of thoughts, we can use the adaptive quality of the mind to introduce have taken a more active role as an alternative thoughts and create new Becoming increasingly aware of the opportunities to feel and act in ways quality of our thoughts, and emotions that are going to be beneficial for our wiring the brain really takes time. In produced by thoughts, is therefore wellbeing. Of course, this is easier extremely important. Once we are said than done, and can feel almost aware of thoughts, we can create a bit impossible when we find ourselves on of a distance and start to observe and the well-paved trail of the worrying

resolving the situation? How do we The Most Difficult Thing You'll On the positive side, once the brain

at the core of Cognitive Behavioural When we understand neuroplasticity, Therapy, which helps us connect the we realize that the worrying mind actually follows a perfectly natural process. It's not that there is something thoughts is to deliberately choose the the loop of worrying thoughts ones that are going to be helpful in your brain is doing exactly what it is



old and have been wiring your brain and well-established that it will feel excruciating, and nearly impossible to stop. When people become aware of their worrying thoughts, they often they revert back, even though they observer of thoughts. The key here is patience and understanding that refact, this process will likely be the most difficult thing you will ever do, but also the most rewarding and freeing, as there is no greater freedom than becoming the master of your mind.

becomes more familiar with new, more positive, constructive, and helpful thoughts, these will become more accessible as new neural connections become strengthened and old, worrying connections Ultimately, the goal of examining our wrong with you if you are caught in become weaker. In my workshop on building mental resilience, I often see incredible shifts in people's patterns of thinking even after a couple of weeks, as they start using the adaptive ability of the mind to experience new thoughts, emotions, and behaviours. One workshop participant reflected:

> I had never thought of myself as an anxious person, but I believe that 2020 has brought that out in me. I have been doing some reflection on this and realized that I have been wiring my system for worry for quite a while. I now understand that I have to mentally stop overthinking things, that I cannot control everything, and accept the situation to propel myself towards a positive outcome.



Creating Positive Outcomes

While understanding neuroplasticity and observing our thoughts can be highly beneficial to reducing the more positive outcomes. This step involves finding a new focus of the worry and fear that we were used to experiencing for such a long time in the past.

Creating better outcomes involves more than 'just thinking positive.' It includes becoming more present and aware of the here and now. Shifting our our sensations and breath, can provide the gateway into new experiences and opportunities, thereby creating new neural connections in the brain.

Once we are present in the now, we can become more creative and identify our needs, desires, passions, strengths, goals, and dreams. None of these are available to the worrying mind because it is preoccupied with and most important step is deciding <u>nondualperspectives.com</u>

the past or the future. In the present to be better. As another workshop moment we can have access to our participant stated: true self, and the things that make chatter in the mind, there is another passionate about, or what do you go from my job and being in a really step in the process towards creating remember being passionate about depressed state) and the benefits were attention, something that can replace strengths are? Ideally, how do you see of Youtube videos, commenting and yourself 5 years, 10 years from now? What would you regret not doing if age on a variety of topics like growing you were at the end of your life?

One of the best tools for creating to be better. positive outcomes is our imagination. Imagining ourselves as resilient, While it can seem impossible to resourceful, joyful, and excited about overcome our tendency to worry, and attention to the present moment, to life can help rewire the brain and the process of re-wiring thoughts can set us up for a growth-oriented way feel excruciating, once we start, the of thinking and being. Visualizing mind is on our side. positive outcomes can create the blueprint in the mind for making our dreams into reality. Believing that we can learn from setbacks and This article was previously featured develop our abilities can create an on Medium. upward spiral that we need in order to overcome the grip of worry and fear. In the process of healing, the first Milena Braticevic's work, visit:

us come alive. Ask yourself: What do I attended your workshop last year at you genuinely need? What are you the request of a friend (after being let when you were a child? What are you great. Since, I've been reading a lot of good at, what do people tell you your stories on reddit and watching a lot relating with many young people my up, self-help, self-reflection, spirituality and meditation... Basically I decided

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