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The Fourth Wave: Child and Family Health and Well-being during the COVID-19 pandemic

Andrea Gonzalez, PhD
McMaster University
Offord Centre for Child Studies



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DISCLOSURES

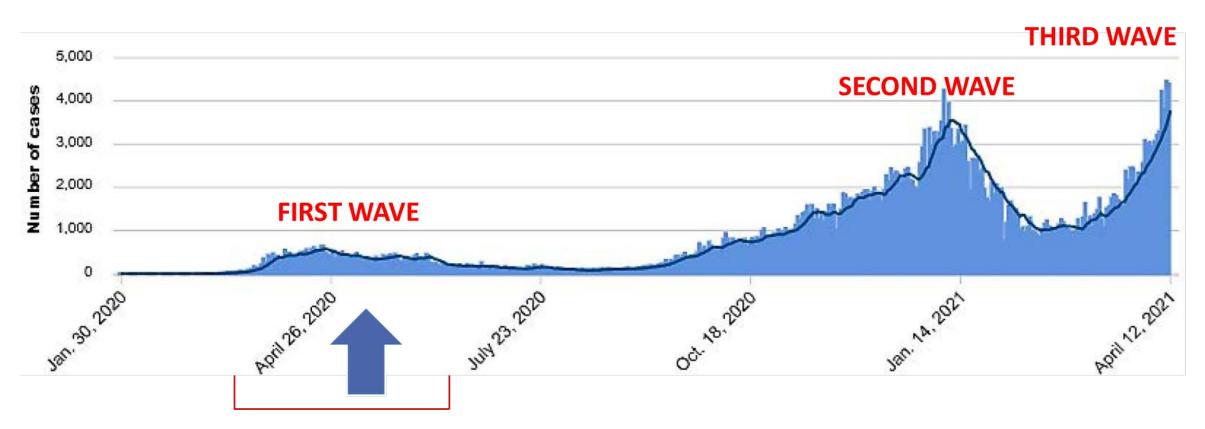
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Global Pandemic

 COVID-19 represents an unprecedented time in our history with need for data about impact and implications more broadly, but also for how the pandemic is affecting families and children



Number of COVID-19 cases: All Ontario



First wave - Public health measures instituted



WE WANT TO HEAR FROM YOU ...

DO YOU HAVE CHILDREN AGED 0-17 YEARS? HOW ARE YOUR AND YOUR FAMILY COPING DURING THE COVID-19 PANDEMIC?

ONTARIO PARENT SURVEY.CA

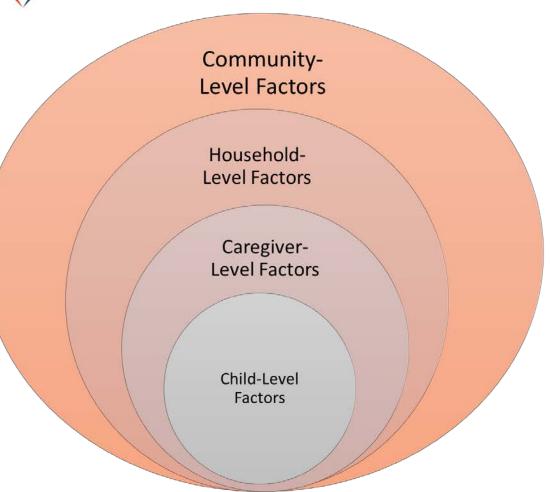








Ontario Parent Survey



- Postal code information which could be matched with material deprivation index or with geographic region
- Household composition; employment (impact of COVID-19 on employment) and education
- Mental health; parenting; family functioning; partner conflict; alcohol and cannabis use
- Child socioemotional functioning and changes in child functioning since COVID-19 stay-at-home measures

7,434
Caregivers/Parents participated.

Representing **14,000** children across

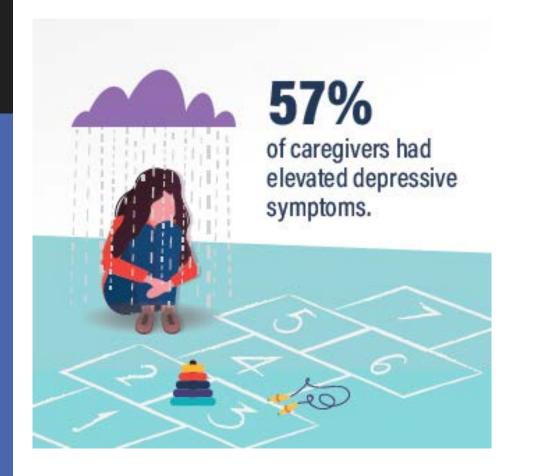
Ontario

The purpose of this report is to provide a snapshot of the experiences of Ontario families during the initial phase of the lockdown.

Sample demographics

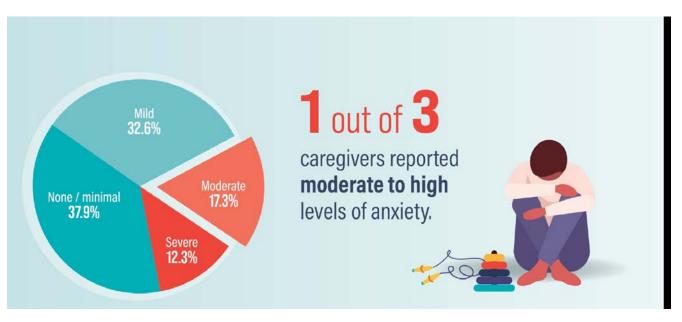
- 93.6% female
- Marital status
 - 86.4% married/common-law
 - 6.1% single parents
 - 7.6% divorced/separated/widowed
- 88.8% identified 'North American/European' ethnicity
- 52.1% university degree
- 64.9% employed full-time

COVID-19 negatively impacted caregiver's mental health





37.5% of caregivers reported an increase in alcohol intake



COVID-19 has affected family functioning.



49%

reported a high level of conflict with their partner/spouse.



One quarter reported having exploded at their partner/spouse.

Parents/caregivers reported moderate to high levels of concern for:



48%
Managing their children's remote learning.



54%Managing their children's screen time.



48%
Managing their child's anxiety and stress.



31%Managing their child's behaviour.



48%
Managing household routines,
organization and meals.

Caregivers struggled with discipline strategies and experienced challenges in caregiving

A third of parents reported higher levels of raising their voice or yelling when a child misbehaved

21% indicated getting frustrated or angry enough that their child could see they were upset

Almost 40% indicated being picky or 'one their child's back' when stressed or upset

21% indicated getting into long arguments with their child due to misbehaviour



Factors associated with harsher parenting practices



- Higher caregiving responsibilities during pandemic
- Lower education
- Greater number of children
- Greater frequency of alcohol consumption
- Partner conflict
- Higher levels of depressive symptoms
- Higher levels of anxiety symptoms
- Reports of positive experiences during the pandemic and positive reports regarding child functioning were both related to lower harsher parenting scores
- * Controlling for caregiver sex and age, employment status

COVID-19 Pregnancy Well-being Study

First Trimester: 74
Second Trimester: 137

Third Trimester: 93



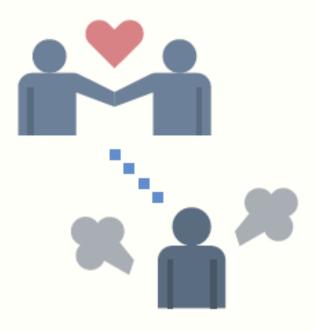
Pregnant women are experiencing a range of stressors as a result of the COVID-19 pandemic, including:



Financial difficulties

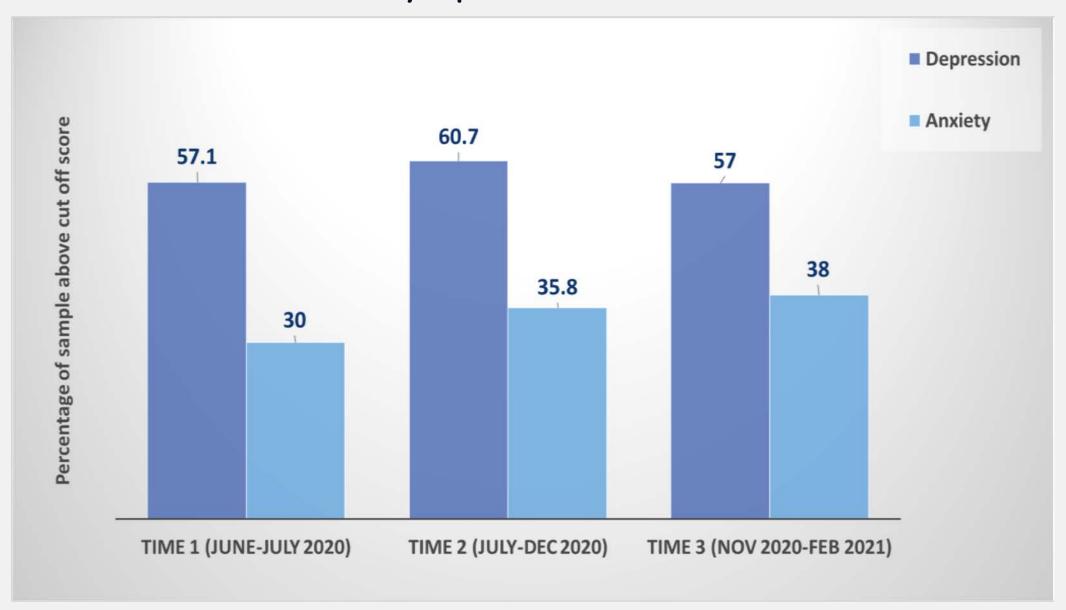


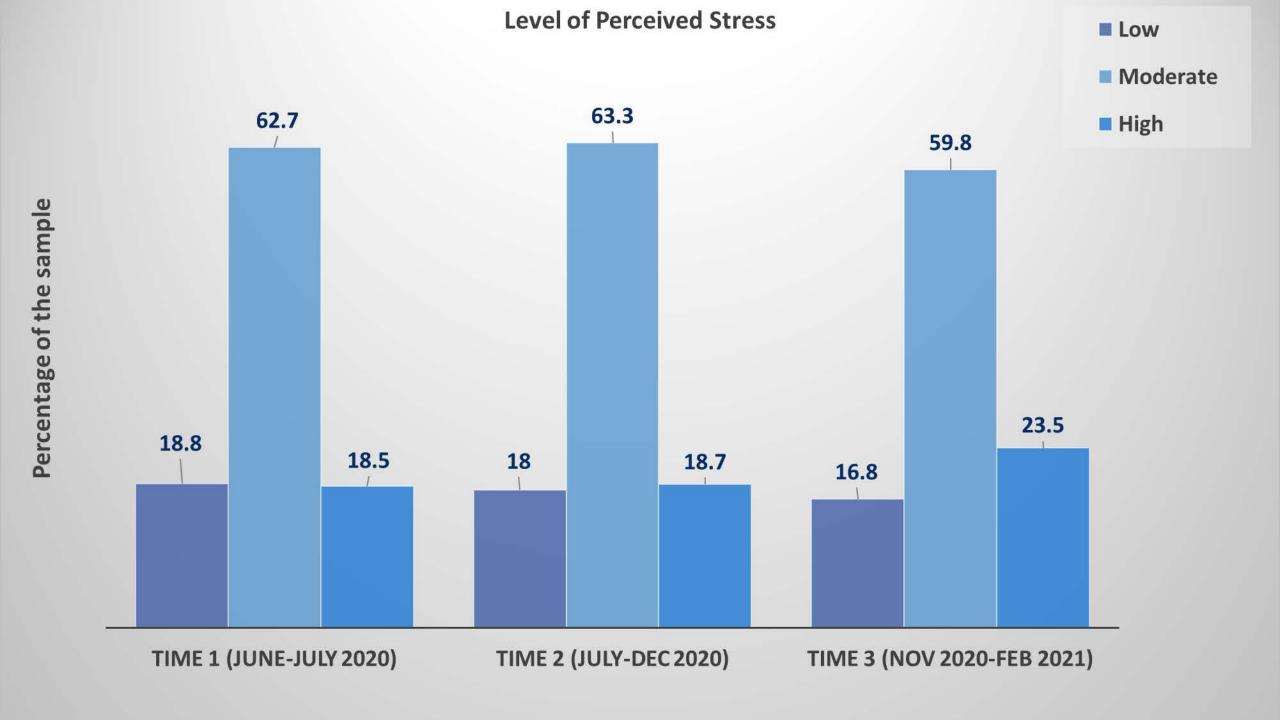
Less social contact



Relationship stress

Pregnant and postpartum women are experiencing consistently elevated mental health symptoms



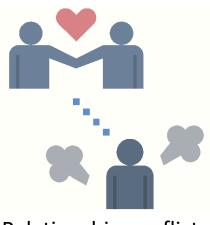




Financial difficulties



Social isolation



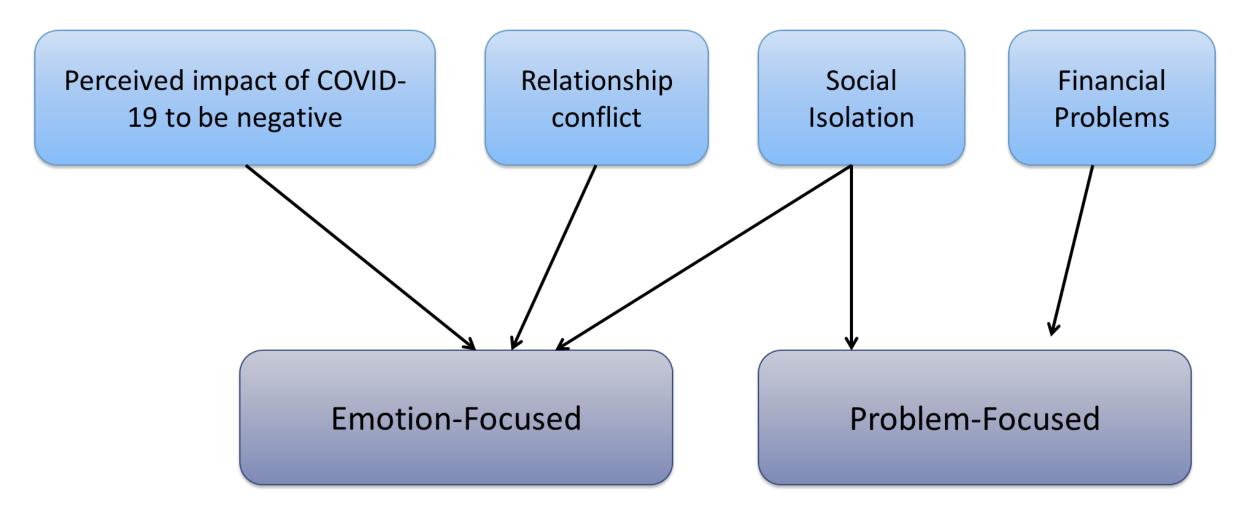
Relationship conflict



Health concerns



Perception of COVID and the specific stressors experienced determine which strategies might be most helpful



STRESSED OUT PARENTS = STRESSED OUT CHILDREN





Implications and potential ways to reduce negative secondary effects of COVID-19

Identi	ify	Identify, develop and disseminate evidence-based resources related it
Devel	ор	Develop preventive public health messaging
Monit	tor	Monitor psychosocial needs
Link		Link to resources about stress management and coping
Refe	r	Refer people to social and mental health assistance when needed

Thank you! gonzal@mcmaster.ca

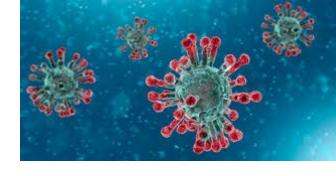


SickKids

Changing Childhoods: The impact of the COVID-19 pandemic on children's mental health

Jennifer Crosbie, Ph.D., C.Psych. Dept of Psychiatry, SickKids Research Institute and University of Toronto

Outline



- 1. Impact of the COVID pandemic on children's mental health
- 2. Factors associated with mental health outcome in children
- 3. Risk and resilience factors on the course of depression
- 4. Impact of pre-existing vulnerabilities on material deprivation, stress due to COVID-19, and parent and child mental health
- 5. Impact of service loss on children's mental health
- 6. Child screen time and mental health outcomes during COVID-19

COVID Mental Health Team



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FUNDING



HR | Canadian Institutes of Health Research



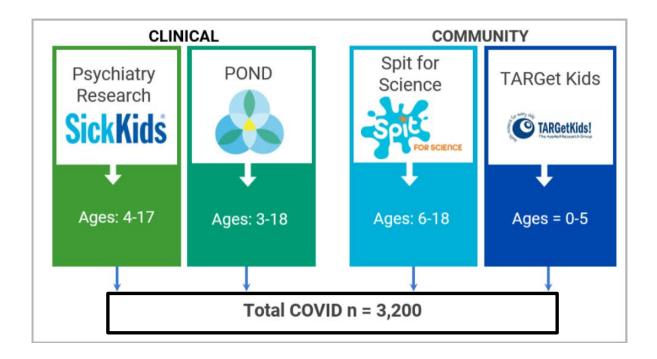






Real-Time Monitoring of Mental Health Impact of COVID-19 on Canadian Children, Youth and Families

4 Cohorts, 1 Goal!













Participant Characteristics (n=2705)



Age:

Average: 9.46 years Range: 2 - 18 years



Ethnicity/Ancestry:

61.9% European



Income:

63% ≥ \$80,000 /year



Sex at birth:

55% male



Mental Health:

33.5% previous psychiatric diagnosis



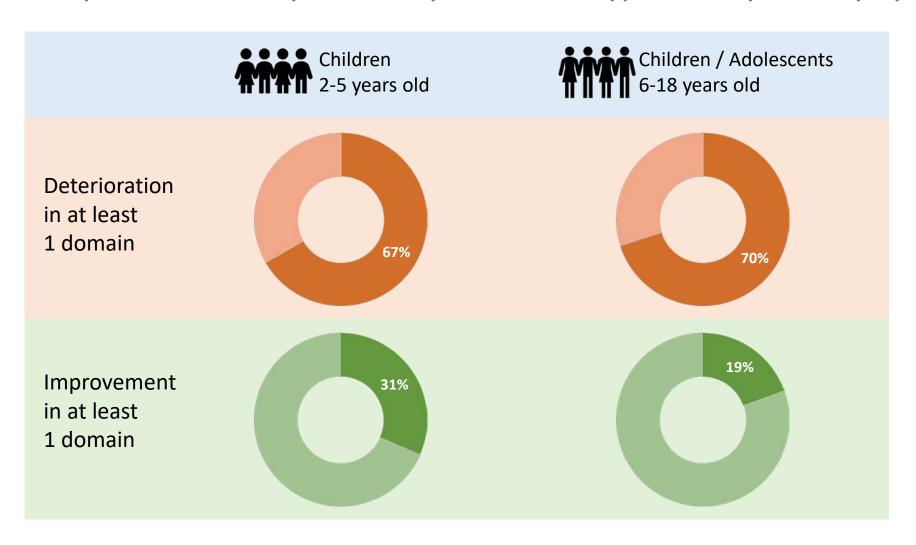
COVID-19:

3.5% exposed

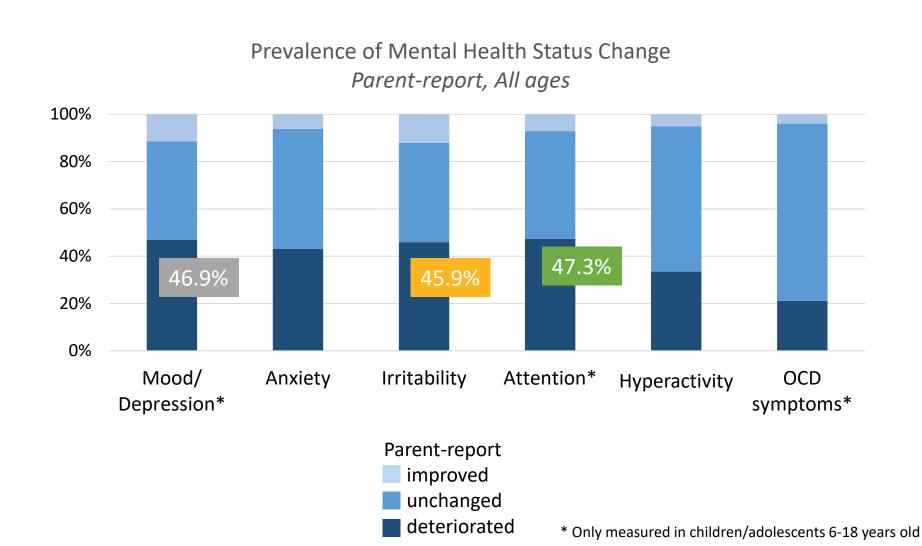
Q1: What is the impact of the COVID pandemic on children's MH?

Wave 1 (May-June 2020): Change in any MH domain vs Pre-COVID

Domains: Depression, anxiety, irritability, attention, hyperactivity, OCD-symptoms

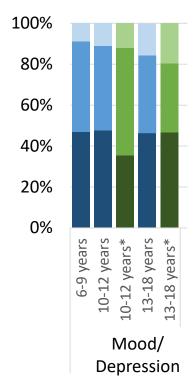


Change in all MH Domains: Wave 1 (n=1,013)



Change in MH Domains by Age: Wave 1 (n=1,013)

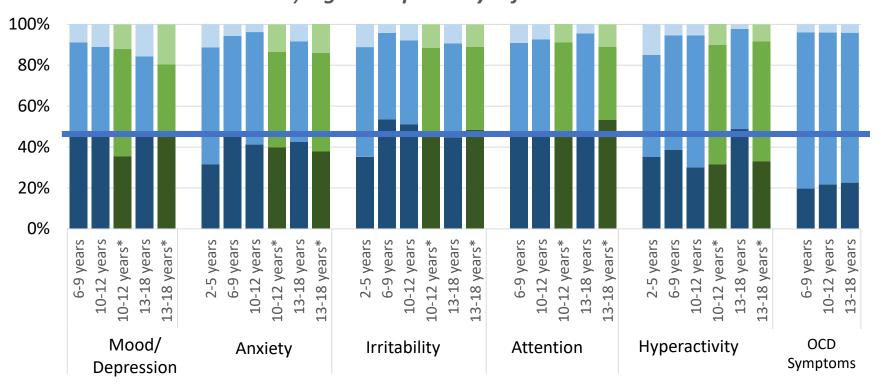
Prevalence of Mental Health Status Change by Domain by Age Group and by Informant





Change in MH Domains by Age: Wave 1 (n=1,013)

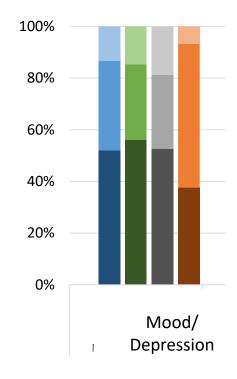
Prevalence of Mental Health Status Change by Domain by Age Group and by Informant

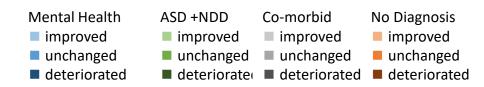




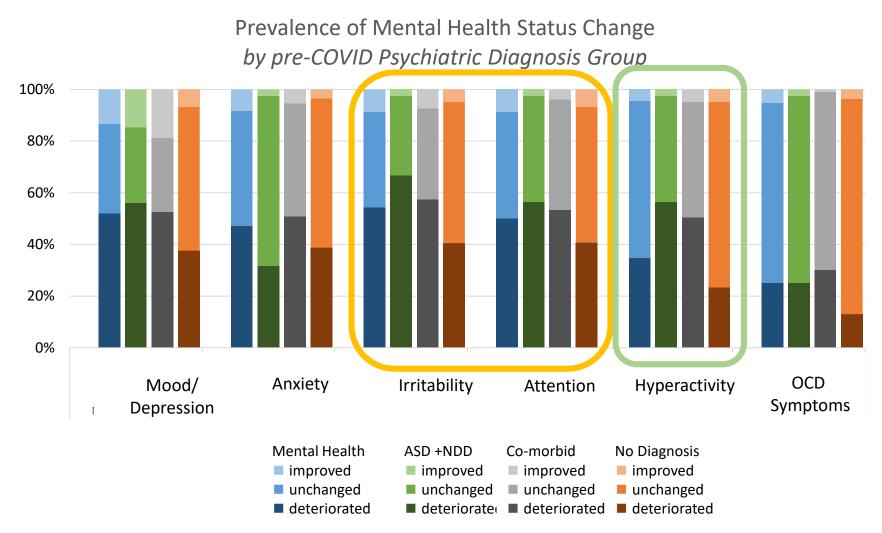
Change in Domain by Diagnosis

Prevalence of Mental Health Status Change by pre-COVID Psychiatric Diagnosis Group





Change in Domain by Diagnosis



Q2: What is impacting pandemic-related changes in children's mental health?

Wave 1 (May-June 2020): Deterioration or Improvement

Controlling for: Household income, sex, age, race/ethnicity, prior psychiatric diagnosis



Stress from social isolation

 Associated with *deterioration* in all domains (all ORs 11.1 – 55.2)



Pre-COVID psychiatric diagnosis

- Associated with both *improvement* and *deterioration* in depression, irritability (ORs 1.96-2.23)
- Associated with *deterioration* in hyperactivity, OCD symptoms (ORs 1.96, 2.23)
- Associated with *improvement* in anxiety (OR 2.42)

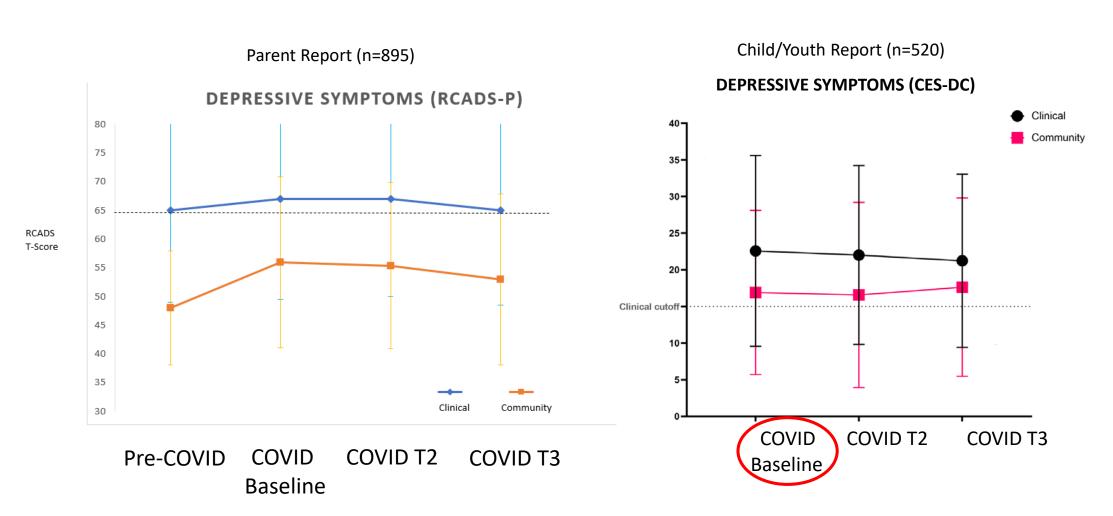


Greater COVID economic concerns

 Associated with *improvement* in anxiety, attention, OCD symptoms (ORs 3.97-5.57)

Q3: What is the impact of risk and resilience factors on the course of depression?

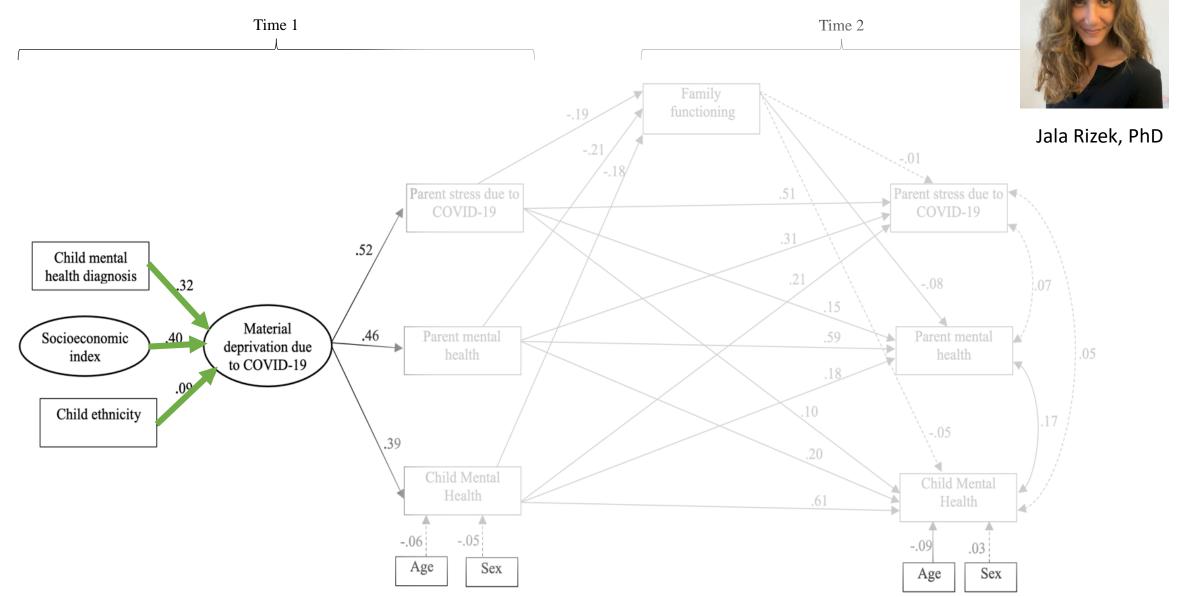
Wave 1 (May-Sept 2020): COVID-19 exposure, family economic impact, social Isolation, access to in- and out- of school services, past MH diagnosis, sex, age, race/ethnicity



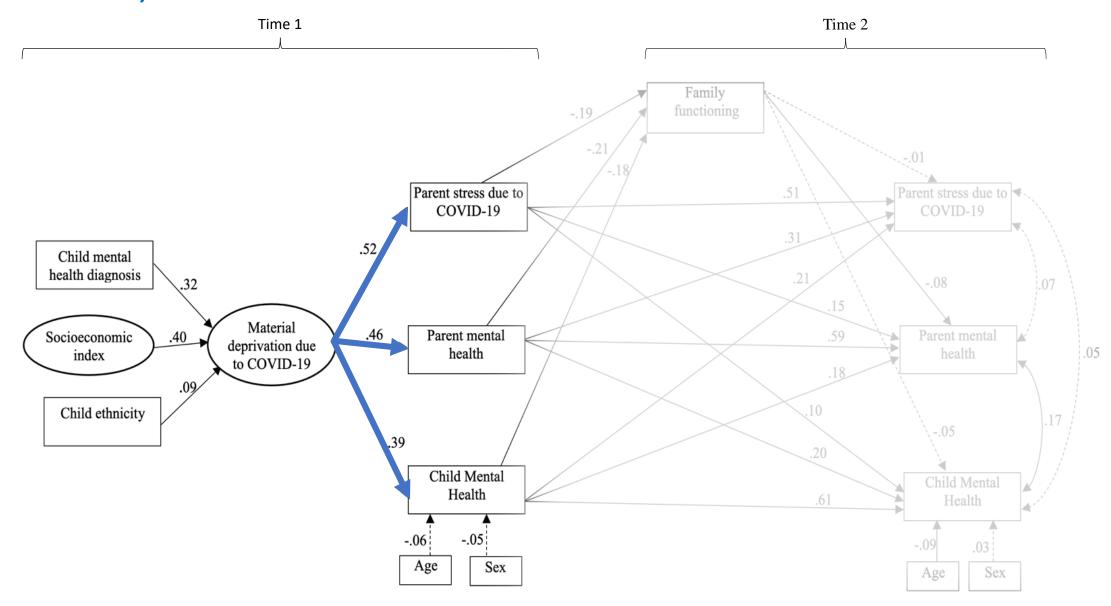


Simone Holligan, PhD

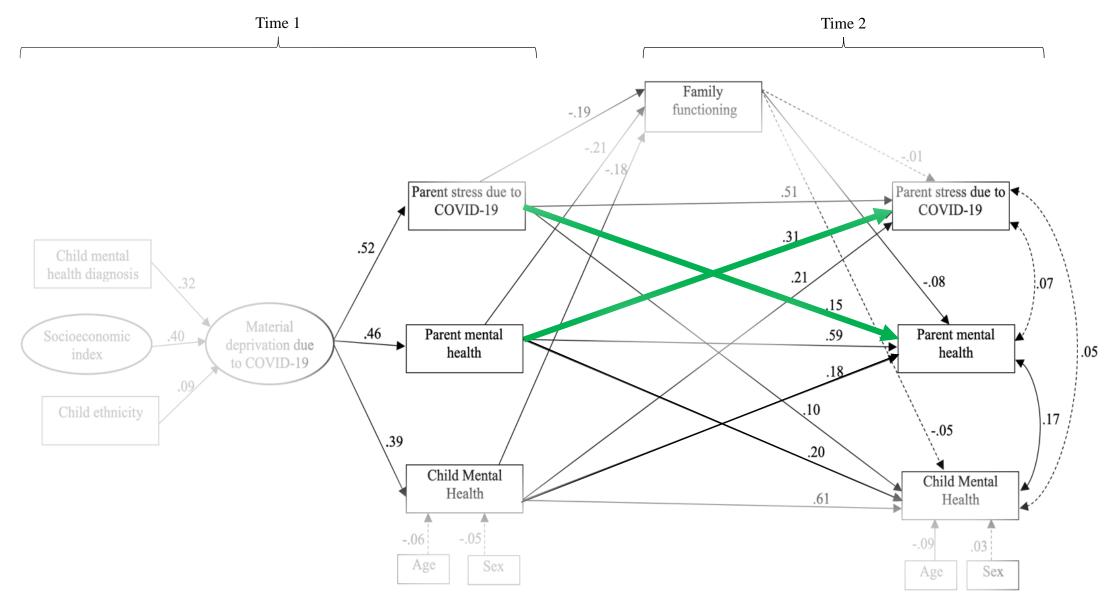
Q4: What is the impact of pre-existing vulnerabilities on material deprivation, stress due to COVID-19, and parent and child mental health?



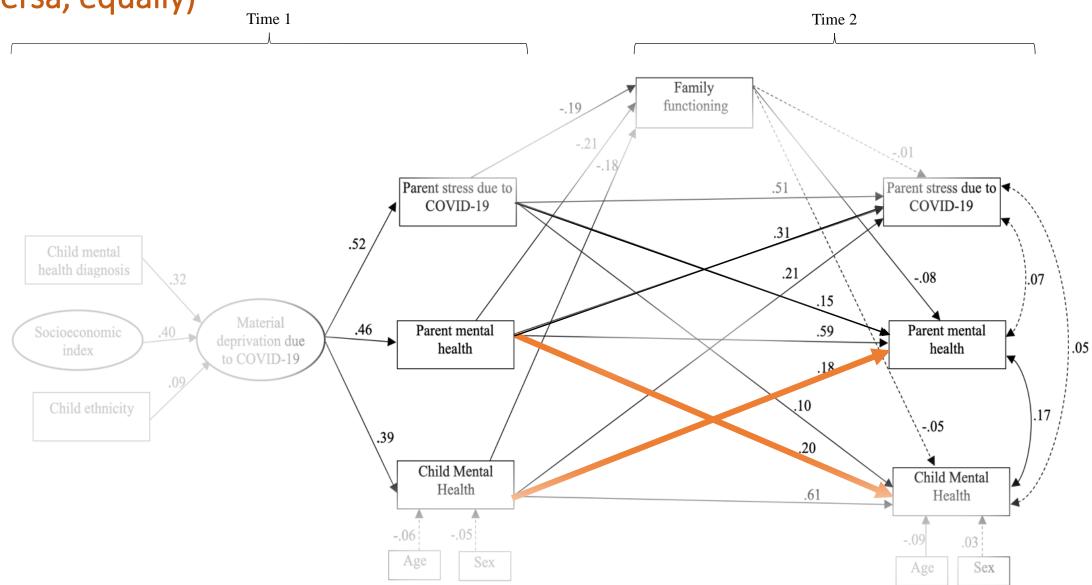
Material deprivation: Parent mental health, Parent stress due to COVID-19 restrictions, and Child mental health at Time 1



Higher Parent Mental Health Symptoms predicts Higher Parent Stress due to COVID-19 restrictions (and vice versa, but more weakly)



Higher Parent MH Symptoms predicts Higher Child MH Symptoms (and vice versa, equally)



In-school services

Diagnosis							
	Did not receive before COVID ¹	Did r	eceive before C	Total	(p)		
No MH condition	550 (86.2)	88 (13.8)	Continued	42 (47.7)	638 (100.0)	359.19 (<0.001)	
NO WIN CONDICION	550 (86.2)	00 (13.8)	Lost	46 (52.3)	038 (100.0)		
ASD+	68 (25.7)	197 (74.3)	Continued	50 (25.4)	265 (100.0)		
ASD+			Lost	<mark>147 (74.6)</mark>	265 (100.0)		
ADHD+	148 (48.5)	157 (51.5)	Continued	58 (36.9)	305 (100.0)		
AUHU+			Lost	<mark>99 (63.1)</mark>	303 (100.0)		
Othor MIL	226 (65.2)	126 (34.8)	Continued	52 (41.3)	362 (100.0)		
Other MH	236 (65.2)	120 (34.8)	Lost	74 (58.7)	362 (100.0)		
Total	1002 (63.8)	568 (36.2)	Continued	202 (35.6)	1570 (100 0)		
			Lost	366 (64.4)	1570 (100.0)		



Eunjung Choi, PhD

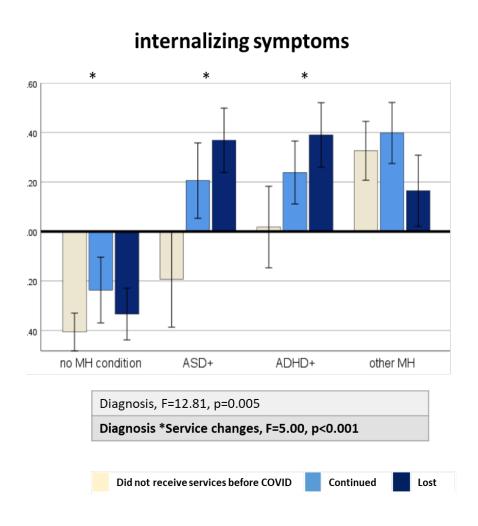
Outside-school services

Diagnosis							
	Did not receive before COVID ¹	Did r	eceive before Co	Total	(p)		
No BALL condition	515 (80.7)	123 (19.3)	Continued	56 (45.5)	638 (100.0)		
No MH condition			Lost	67 (54.5)	656 (100.0)	401.38 (<0.001)	
ASD+	63 (23.8)	202 (76.2)	Continued	40 (19.8)	265 (100.0)		
ASUT			Lost	<mark>162 (80.2)</mark>	265 (100.0)		
ADUD.	108 (35.4)	197 (64.6)	Continued	83 (42.1)	205 (100 0)		
ADHD+			Lost	<mark>114 (57.9)</mark>	305 (100.0)		
Othor MIL	155 (42.0)	207 (57.2)	Continued	99 (47.8)	262 (100.0)		
Other MH	155 (42.8)		Lost	108 (52.2)	362 (100.0)		
Total	841 (53.6)	729 (46.4)	Continued	278 (38.1)	1570 (100.0)		
Total			Lost	451 (61.9)	1570 (100.0)		

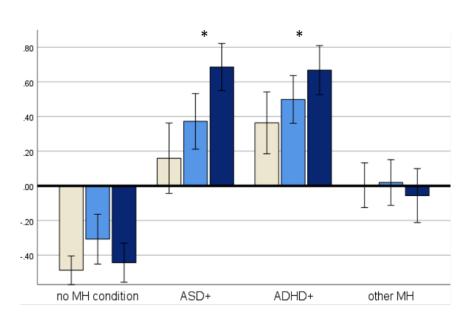
Medical Services

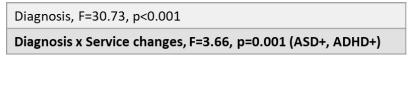
Diagnosis							
	Did not receive before COVID ¹	Did r	eceive before C	Total	(p)		
No MH condition	348 (54.4)	290 (45.6)	Continued	112 (38.6)	638 (100.0)		
NO WIN CONDICION	346 (34.4)		Lost	178 (61.4)	038 (100.0)	156.52 (<0.001)	
ASD+	55 (20.8)	210 (79.2)	Continued	88 (41.9)	265 (100.0)		
A3D+			Lost	<mark>122 (58.1)</mark>	203 (100.0)		
ADHD+	71 (23.3)	234 (76.7)	Continued	120 (51.3)	305 (100.0)		
ADHU+			Lost	<mark>114 (48.7)</mark>	303 (100.0)		
Othor MI	127 /27 0\	225 (62.2)	Continued	131 (58.2)	363 (100 0)		
Other MH	137 (37.8)	225 (62.2)	Lost	94 (41.8)	362 (100.0)		
Total	611 (38.9)	508 (61.1)	Continued	451 (47.0)	1570 (100 0)		
			Lost	508 (53.0)	1570 (100.0)		

Medical service changes



externalizing symptoms





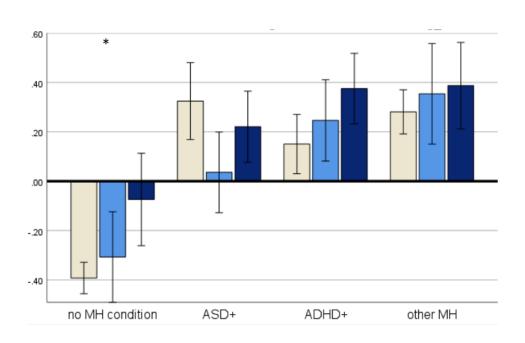
Continued

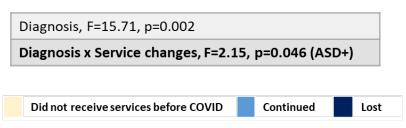
Lost

Did not receive services before COVID

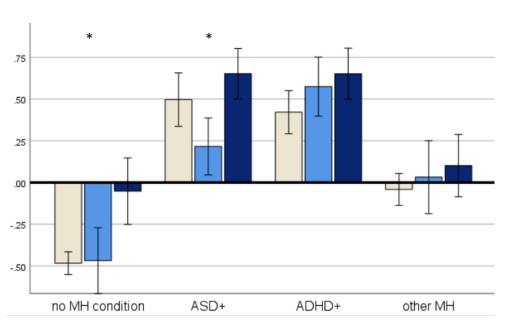
Academic/learning service changes

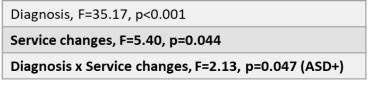
internalizing symptoms





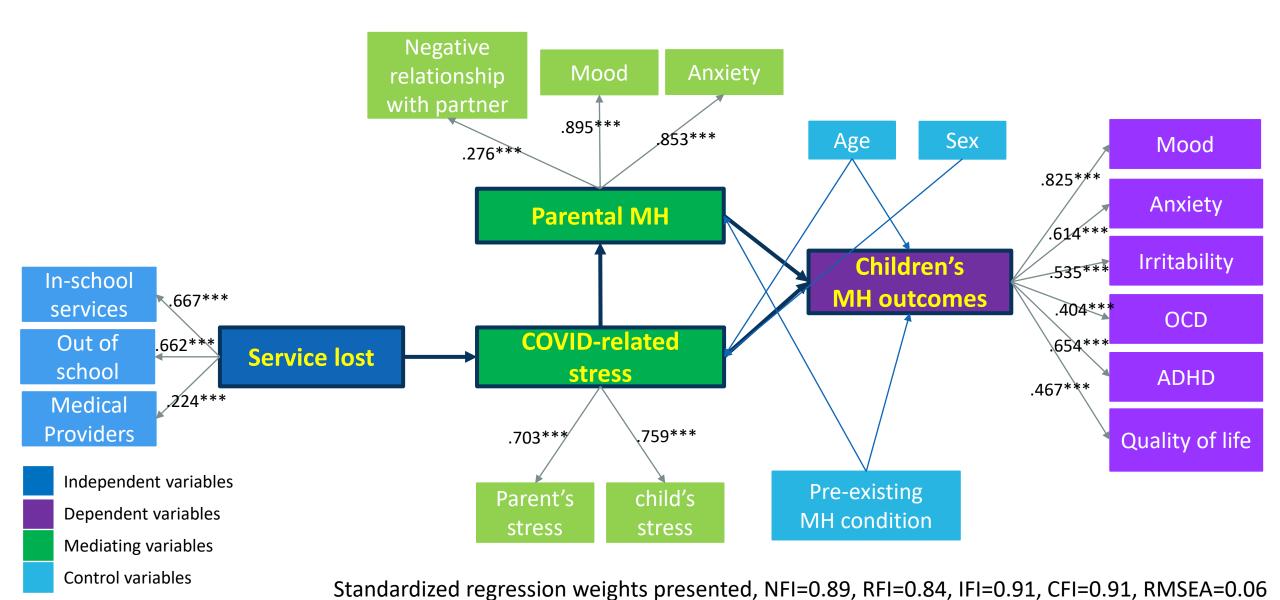
externalizing symptoms







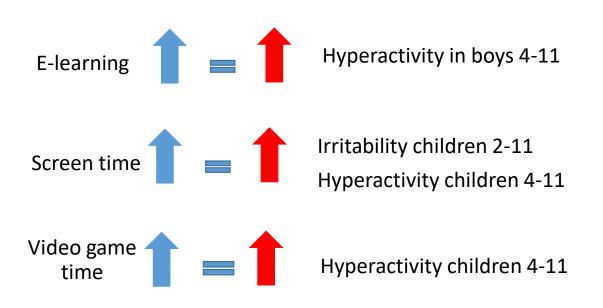
Service loss and MH outcomes



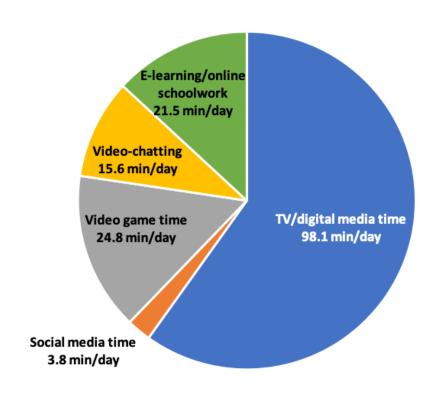
Q6: Child screen time and mental health outcomes during COVID-19?

TARGet Kids! cohort (mean age 5.8 years)

- N= 464; age range 2 to 11 years
- 2.8 hours average total screen time per day (watching TV, using social media, playing video-game, video-chatting and e-learning)

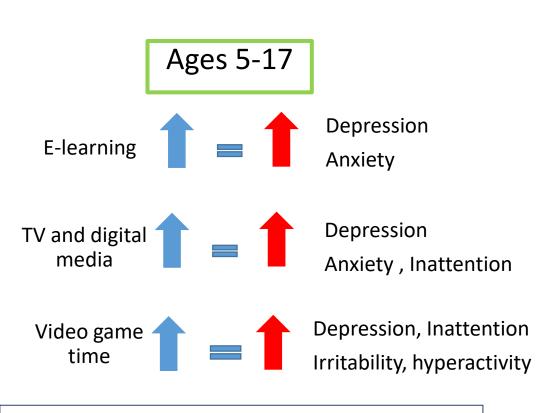


Screen time during COVID-19 among TARGet Kids! children



Q6: Child screen time and mental health outcomes during COVID-19?

SickKids Psychiatry, Spit for Science and POND (mean age 10.6 years)



Face-to-face screen time (video-chatting) was not protective of mental health outcomes in children during COVID-19

TV or digital media	Unadjusted				Adjusted ^a			
time/day	β	2.5%CI	97.5%CI	p-value	β	2.5%CI	97.5%CI	p-value
RCADS t-score (depression)								
1 hour	0.56	-0.97	2.09	0.48	0.21	-1.28	1.71	0.78
2-3 hours	2.66	1.12	4.21	<0.001	1.81	0.29	3.33	<mark>0.02</mark>
4-5 hours	4.28	2.63	5.92	<0.001	2.80	1.15	4.44	<0.001
6-8 hours	6.87	5.05	8.69	<0.001	5.16	3.32	7.01	<0.001
9 hours or more	7.46	5.36	9.57	<0.001	5.42	3.30	7.54	<0.001

Video game	Unadjusted				Adjusted ^a			
time/day	β	2.5%CI	97.5%CI	p-value	β	2.5%CI	97.5%CI	p-value
	SWAN total score (inattention and hyperactivity)							
1 hour	2.29	0.22	4.36	<mark>0.03</mark>	1.62	-0.39	3.62	0.11
2-3 hours	3.97	1.83	6.10	< <mark>0.001</mark>	2.15	0.07	4.24	<mark>0.04</mark>
4-5 hours	5.73	2.88	8.57	<0.001	3.89	1.09	6.70	<mark>0.01</mark>
6-8 hours	8.61	4.72	12.50	<0.001	5.45	1.61	9.29	0.01
9 hours or more	9.90	4.90	14.89	<0.001	6.25	1.34	11.16	0.01

⁰⁻³⁰ min/day was the reference group.

^a Adjusted for child age, child sex, child ethnicity, family income, previous ASD diagnosis, calendar date, GAD-7, PHQ-8

Summary

- 70 % majority of children have experienced worse mental health
- Stress associated with social isolation was the single largest predictor of worse mental health
- Depression increased in Wave 1 and remained elevated throughout the summer
- Pre-COVID socioeconomic and mental health vulnerability, child ethnicity predicts family material deprivation and leads to increased parental stress and decreased parent and child mental health
- Pre-existing MH /ND vulnerability increased negative impacts of service loss
- Services for children's mental health should include parent mental health and service tailored to minimize parental and child stress related to COVID to optimize child outcomes.
- Increased screen time was associated with a negative impact on the mental health of children during COVID-19

#COVIDSchoolVibes



#COVIDtestingLine #NoTestNoSchool



#COVIDchildhood



Funding and Support





Converge. Discover. Deliver. Mobiliser. Découvrir. Produire.

















Impacts of the COVID-19 Pandemic on Ontario's Public Health Home Visitation Programs for Families With Young Children

Susan Jack RN PhD
School of Nursing, McMaster University
on behalf of the PHN-PREP Leadership Team

www.phnprep.ca

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SUSAN JACK RN PHD

Public Health Home Visitation Programs for Pregnant Individuals and Families with Young Children

HEALTHY BABIES HEALTHY CHILDREN

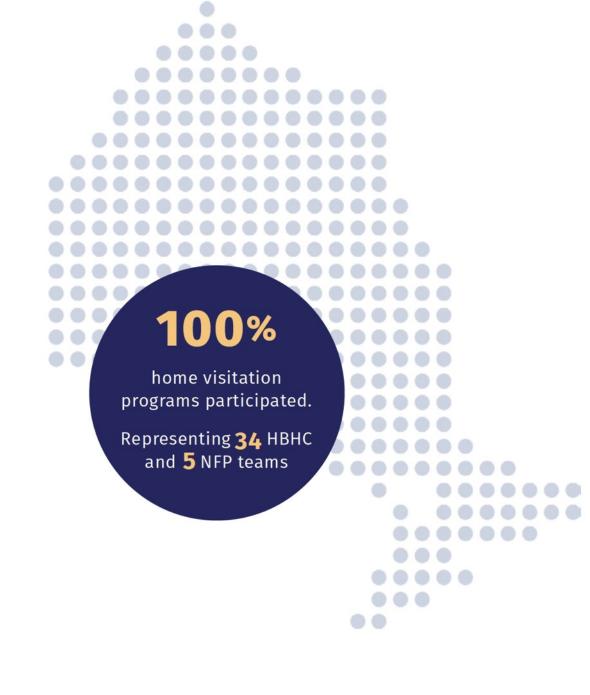




Environmental Scan

To describe the impact of the COVID-19 pandemic on:

- 1. The home visiting workforce
- 2. The "mode" of home visiting
- 3. Program implementation



High Rates of Nurse Redeployment Affected Home Visiting Services



Decreasing:

Overall services
In-person and blended visits
Capacity for in-depth assessment

Increasing:

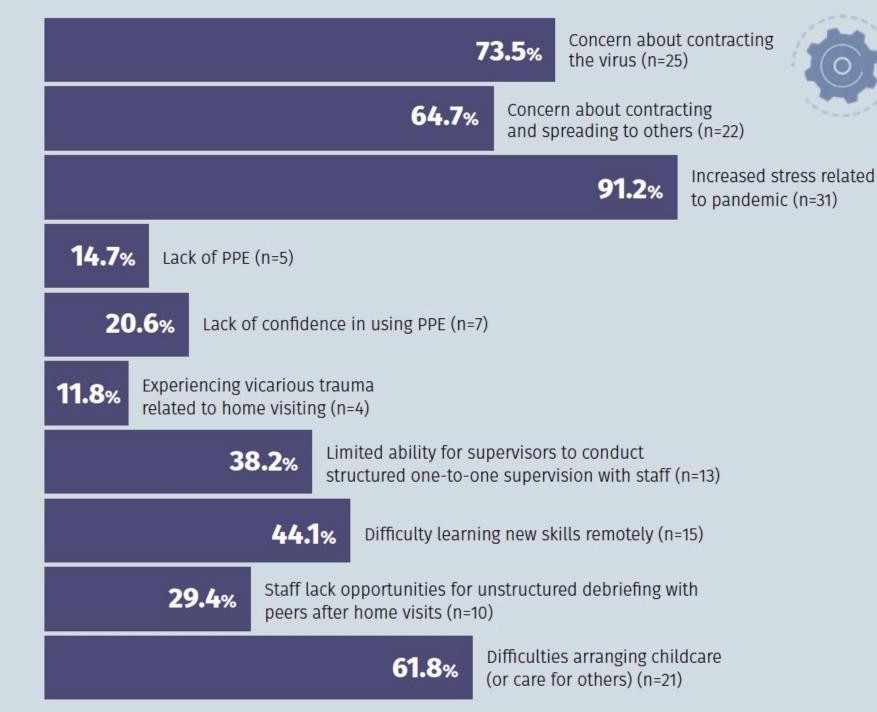
Reliance on family home visitors
Caseloads for non-deployed staff
Need to prioritize/triage services

Commitment to Delivering Some Level of Continued Programming to Families

- Meeting needs of families considered to be part of a public health response to the COVID-19 pandemic
- Increased need to address health & social issues exacerbated by the pandemic
 - Intimate partner violence
 - Mental health
- Prioritized public health nurse home visits and supports for families with greatest needs



Workforce challenges



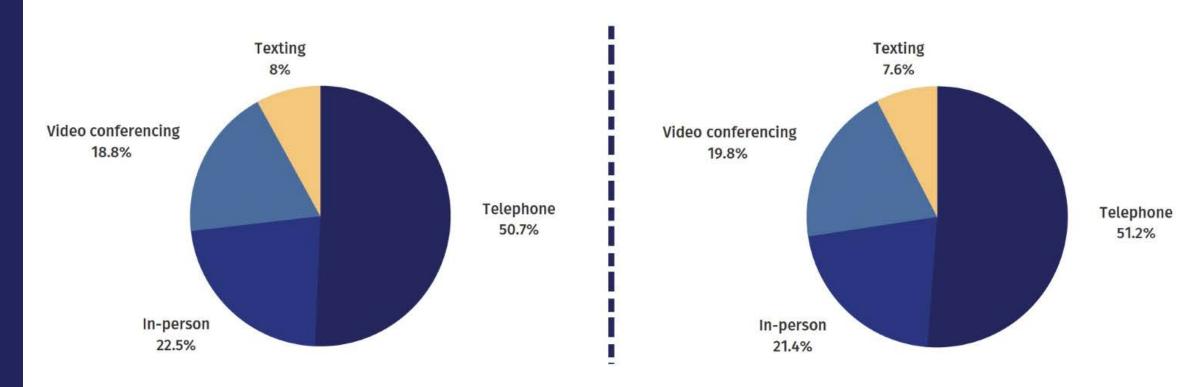


COVID-19 led to reduced in-person home visits



HBHC VISIT AND OUTREACH MODES

NFP VISIT AND OUTREACH MODES





In-Person Encounters Occurred in Multiple Settings



The Digital Divide Impacts Nurse-Client Engagement



Indicated that client accessibility to technology has impacted HBHC visits

60%

Indicated that client accessibility to technology has impacted NFP service delivery

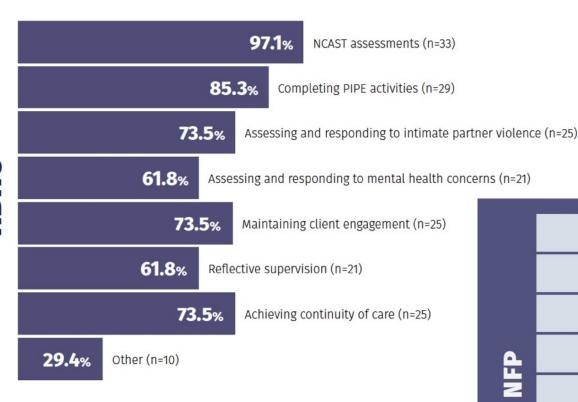


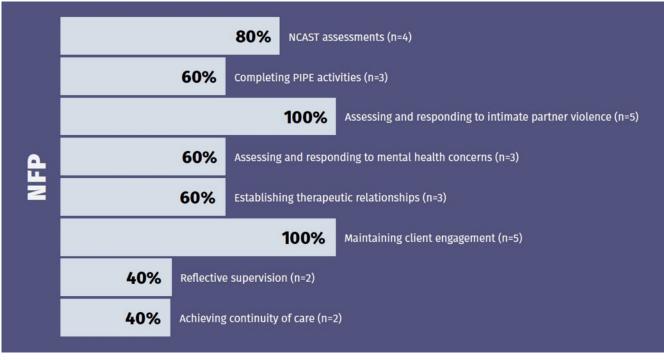
Connecting Through Technology Have Impacted Families' Comfort and Safety





Connecting Through Technology Created Challenges for Nursing Practice and Program Implementation





Challenges also create new opportunities for innovation



I know that we're using virtual. It may be the way of the future and I would hope that we can keep virtual and have access to that. Why? There are days when the clients may prefer that. There are days when you have bad weather days in the winter. Instead of not going for a home visit we could offer virtual.

- Public Health Nurse

Points for Reflection & Consideration

Position *home visitation programs* as an *essential* component of the pandemic response

• **Prioritize** maintenance of PHN workforce to ensure that professionals skilled in assessment, intervention, and system navigation are able to support families experiencing complex challenges.

- Rapid shifts to where, and how, HBHC and NFP teams provided
 services and adapting professional practice to meet the needs of families, while balancing multiple work, family, and technological challenges increased stress.
- Nurse wellness needs to be prioritized as staff return to their programs.
- In planning for post-pandemic context, *provide flexibility and choice* on how PHNs, family visitors, and families connect.









Impacts of the COVID-19 pandemic on Ontario's Public Health Home Visitation Programs for Families with Young Children: An Environmental Scan



PHN-PREP Public Health Nursing Practice, Research & Education Program

Critical Role of Public Health Nurses in Supporting Families During the COVID-19 Pandemic

Karen Campbell, RN, PhD Western University

www.phnprep.ca

Stories from the Field

- Many families have experienced multiple, unique challenges during the COVID-19 pandemic
- Nurses reflected on and shared with us their experiences of supporting families



"Numbers are lower, but severity is higher"

Increases in:

- Client acuity & severity
- Barriers to supporting clients
- Inappropriate referrals
- Clients seeking referrals





Decreases in:



- Caseloads (in some areas)
- Referrals (in some areas)
- Available community resources
- Coping mechanisms for families

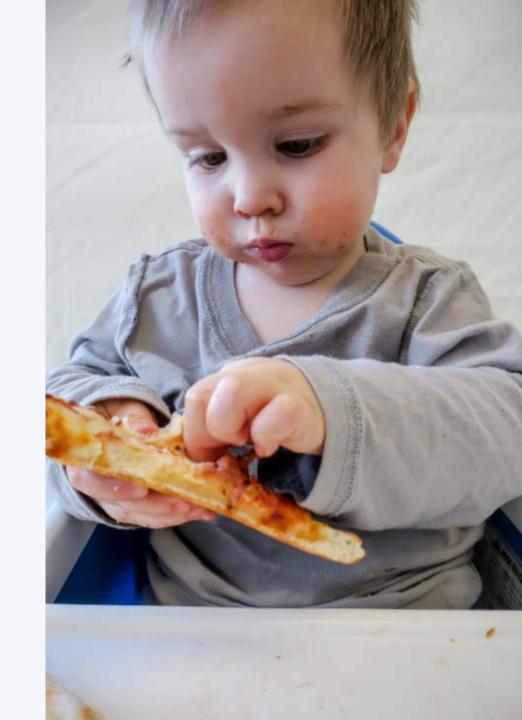


The risk and the acuity is higher than I've seen in my duration of being with Healthy Babies Healthy Children. And it's pretty common with all the nurses when you sit and talk. It's hard to maintain your own self-care and prevent vicarious trauma from really getting to you when you're feeling isolated and unable to connect with peers.

"

Food Insecurity

- Nurses' role in supporting breastfeeding/chestfeeding
- Financial difficulties causing food insecurities
- Increased reliance on food banks but decreased ability to access them
- Assessing/planning/referring for toddler food aversions





Daycare was a good way for the kids to get three solid feedings. They could have their two snacks, they have their lunch, they're good to go. So maybe mom can take a bit of a backseat when it's dinnertime. Soups - be creative. But now that they're feeding kids all day, it means they have to stretch what little they have even farther.

"

Perinatal Mood Disorders

- Assessing more often for suicide, infanticide, depression, and anxiety
- "Taking a main role" in mental health care because of lack of available or accessible mental health services
- Being resourceful and creative in addressing client needs



A lot of my clients are very service shy. The relationship that we bring to the table and the amount of time we get to be involved, in getting to know our clients, is so essential in getting them the services they need. A lot of clients don't want to open up to somebody within 15 minutes or an hour even if they've known them a while. But we're allowing the space for them to build a relationship of trust with us. So, we do get them to open up and really delve into what they need and they usually disclose things to us that are very important, sometimes very *scary*, but we're able to help them that way.

"

- Public Health Nurse

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Skilled Nurses Working To Full Scope of Practice

- Building relationships and developing rapport
- Listening actively and asking guiding questions
- Setting goals with families
- Taking a strengths-based approach
- Providing trauma and violence-informed care
- Bringing clients appropriate resources
- Making community referrals
- Connecting with community services
- Filling the service gaps
- Promoting and teaching healthy behaviours
- Reflecting on practice and adjusting as needed
- Assessing and responding to mental health, prenatal health, postnatal health, general health, infant feeding, infant and child health and development, intimate partner violence, homelessness, food security, and more



Response from Families

- Interest and receptivity to HBHC & NFP program is high
- Increasingly open to virtual modes
- Readiness to accept phone support
- High uptake from clients on waitlists
- Overwhelming gratitude from families





We're finding that they're grateful to have us there - 6 feet with our mask and our shield - to just cry and say, 'what are we going to do next together?' They're just grateful to know that there's a service that is still providing service as opposed to – 'here's your waitlist, we'll see you in 6 months maybe'.



Key Takeaway Messages

- Public health nurses play a critical role in supporting families' health and wellbeing, including may who were disproportionately affected by the COVID-19 pandemic, and efforts to protect this workforce will affect the health and social needs of families
- As public health nurses are reintegrated into home visitation programs, nurses need to be skilled and oriented to new ways of interacting with clients, and prepared for and supported to address the increased acuity and complexity of client concerns
- HBHC & NFP public health nurses across the province are committed to the delivering complex nursing care to families and require organizational support, high-quality supervision, and opportunities to debrief and connect with their colleagues, to support their own health and wellbeing



We are all in this together ...
We are in different cities but
we are living very similar
experiences.

- Public Health Nurse



THANK YOU!

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