DEPARTMENT OF **P**R The Impact of COVID-19 on Families of Children with **Developmental Disabilities**

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VE MEDICINE

Presentation Overview

OUTLINE OF TOPICS





- Introduction/Purpose Materials & Methods
- Results
- Implications & Conclusions
- Acknowledgments



Background









Difficulty accessing well-child care

Delays in routine childhood vaccinations

Lost opportunities for socialization and play COVID-19

Inability to access assessments

Family losses

Inability to access services Loss of school-based services

O LIFE Course Avtervention Research Network School shutdowns





meeting basic needs during the pandemic.



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Services Accessed to Support Children with Special Health Care Needs (CSHCN) Before Pandemic: Wave 1: Nov 2020

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Data Source: As grant on Editors on Family Experiences Ourop Its (2010) 15 Panience (Des 2020) Guestionness Analose Assery of Padatos, Canten to Disease Consti and Prevention Prevention Distribute Americe & Turb Mathematican Cantena Systempte: Lucie Pasters Foundation to Children's Health & California Distribute Stalifornia Dept. of Fublic Health. Inter) and Volence Prevention Branch & California Dept. of Social Benetics. Office of Children's House Prevention.

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Services Accessed to Support Children with Special Health Care Needs (CSHCN) During Pandemic: Wave 2: March 2021

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lare Countryton	10.4%
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Analise Minister Exceptions	8.7%
Kinte Health Harse at Able	12.8%
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Definition Estimated paramiage of adults with sampling responsibilities for thildren with special health uses mainly (CD+CH) ages \$-17 who assesses services to help support their CD+CH in the period after the COVID: 19 suffered in March 2020, by type of service (e.g., in Wese 2, 18, 4% of California sampleses if COHCN had assessed sate torontination services buying the partnership

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Our Purpose

Introduction

Investigate

Understand the impacts of a global pandemic on children with special needs

PROTECT

Children with special needs are in a vulnerable group, further challenged by COVID related changes







Study Activities

FAMILIES

Longitudinal survey for families Nov 2020- Feb 2021 & October 2021

EXPERTS/SERVICE PROVIDERS

Modified Delphi method Survey & Discussion

INTERVENTION

Interactive Forum (remote & in-person) Resources, services, emergency preparedness







Main Aims

• Understand main challenges faced by families of children with developmental disabilities

- I. Economic
- 2. Educational
- 3. Health
- Use family unit characteristics as predictors of challenges
- Identify areas for potential interventions







Methods

Recruitment Strategies

Outreach to:

- I. Virtual Clinics: UCLA LEND Clinic, UC-Riverside Clinic
- 2. UCLA Medicine-Pediatric clinics
- 3. Online Blogs "Mommy Blogs" for children with special needs

Timeframe

November 2020- February 2021 Follow up survey October-November 2021

Incentives

25 dollar gift cards per survey







Survey Structure



DEMOGRAPHICS

Family & Child Level data

Questions about household economic factors, education and employment derived from US-



SERVICE ACCESS

Family & Child Level data

Questions about services accessed, frequency & intensity assessed.

Changes as a result of COVID-19 related policies investigated

FAMILY SCALES

Family Environment Scale (FES) Parental Sense of Competence (PSC) Perceived Social Support



COVID-19 BEHAVIORS & IMPACTS

COVID-19 Behaviors COVID-19 Perceptions Physical Health Mental Health



Questionnaire Details

Questionnaire Development

Surveys questions were obtained from: US-Census NSCHCN (National Survey for Children with Special Healthcare Needs) Autism Services Survey LAUSD

Timeframe

November 2020- February 2021 Follow up survey October-November 2021

Incentives

25 dollar gift cards per survey





Vohra R, Madhavan S, Sambamoorthi U, St Peter C. Access to services, quality of care, and family impact for children with autism, other developmental disabilities, and other mental health conditions. *Autism*. 2014;18(7):815-826. doi:10.1177/1362361313512902



Questionnaire Details

Sample Questions: Service Access

(Do)es your child(ren) with special healthcare needs currently need any of the following therapy services? Select all that apply

Have you had any difficulty accessing the therapies listed?

Is [name_child1] receiving speech and language services?

- How long has your child received this service in months?
- How many times per week?
- How many days per month?
- How long are sessions in minutes?

Sample Questions: COVID-19 Questionnaire

I have greater difficulty in managing my child's behaviors since COVID-19 related changes.

During the pandemic, how has the physical health of your child(ren) with special needs been affected (e.g., diet, physical activity, sleep pattern/quality, stress levels, substance use, emotional well-being)?







Questionnaire Details

Example Questions: Family Environment Survey

Family members really help and support one another.

We fight a lot in our family.

	Com
Example Questions: Perceived Social Support	
You can't get away with much in our family.	Somet
We are not really encouraged to speak up for ourselves in our family.	A diffi





Example Questions: Parental Sense of Competence

netimes I feel like I'm not getting anything done.

A difficult problem in being a parent is not knowing whether you're doing a good job or a bad one



Results





Sample Characteristics

- •38.9% (21/54) were from UCLA Primary care clinics (Pediatrics and Medicine-Pediatrics)
- •25.9% (14/54) were from UCLA LEND clinic/Neurology clinic
- •35.2% (19/54) were recruited from outside the UCLA Health System
- -I from the UC Riverside LEND clinic
- -Clinics in the Southern California AAP Chapter 2 listserv
- -Facebook groups





Demographics

Variable	N (%) (n=54)
Relationship to child/ren with developmental disability	
Parent	52 (96.3%)
Children with special needs in household [median (min, max)]	1 (1,7)
Household size [median (min, max)]	4 (1,10)
Hispanic	18 (34%)
Race	
White	32 (60.4%)
Asian American, Native Hawaiian or Pacific Islander	8 (15.1%)
Black or African American	4 (7.5%)
Native American or Alaska native	1 (1.9%)
Highest degree	
High school diploma or GED	2 (3.8%)
Associates/Bachelor's degree	28 (52.8%)
Master's degree or higher	22 (41.5%)
Marital status	
Married	41 (77.4%)
Single	6 (11.3%)
Divorced	5 (9.4%)
Separated	1 (1.9%)





Demographics (Economic)

Variable		N (%) (n=54)
Health Insurance (Family)		
Private	41 (75.9)	
Medicaid (MediCal)	19 (35.2)	
Medicare	3 (5.6)	
Employment status	Current (n=52)	Pre-pandemic (n=51)
Full-time	21 (40.4)	21 (41.2)
Part-time/Self-employed	11 (21.2)	16 (31.4)
Unemployed	16 (30.8)	7 (13.8)
Remote work option (n=45)	25 (55.6)	
Unemployment Insurance		
Applied/Received	12 (23.5)/11 (21.	6)
Social Security Benefits		
Not receiving	44 (86.3%)	
Household income		
<\$35,000	8 (15.7)	
\$35,000-\$99,999	14 (27.5)	
\$100,00-\$149,999	11 (21.6)	
\$150,000 and higher	18 (35.3)	





Educational Need (Child-level information)

Variable	N (n
Age of child [median (min, max)]	9 (6, 13)
Male sex	38 (70.4)
Diagnosis	
ASD	23 (42.6)
ADD/ADHD	20 (37.0)
Learning disability	9 (16.7)
Intellectual disability	11 (20.4)
Behavioral problems	14 (25.9)
Individualized Education Plan	37 (68.5)
Class delivery	
Remote	38 (76.0)
In-person	3 (6.0)
Hybrid	5 (10.0)
School-based services	
Speech and language	39 (81.3)
Counseling services	15 (41.7)
Special classes	12 (36.4)
Behavioral interventions	12 (31.6)







Educational Need (Child-level information)

Variable	N (%) (n=54)
Satisfaction with current educational environment	
Satisfied	20 (37.7)
Neutral	9 (17.0)
Unsatisfied	20 (37.7)
Change in satisfaction related to COVID-19	
Increased	3 (5.7)
Unchanged	10 (18.9)
Decreased	36 (67.9)





Service Need

Variable	Enrolled (n=54)	Experienced Difficulties (n=27)
Social Services ¹	18 (33.3)	16 (59.3)
Respite Care	18 (33.3)	10 (37.0)
Day Programs	8 (14.8)	5 (18.5)
Medical Services ²	34 (63.0)	12 (44.4)
Psychiatry	10 (18.5)	5 (18.5)
Psychotherapy	16 (29.6)	5 (18.5)
Therapy Services ³	40 (74.1)	24 (88.9)
Speech/Language	32 (59.3)	10 (37.0)
Occupational	23 (42.6)	12 (44.4)
Applied Behavioral Analysis	16 (29.6)	8 (29.6)
Social Skills	16 (29.6)	10 (37.0)





Impacts of COVID -19

Variable	N (%) (n=35)
Person in household diagnosed with COVID-19	8 (22.8%)
Knowledge of death from COVID-19	12 (35.2%)
Impact due to COVID-19	
Mental issues	22 (64.7%)
Physical issues	20 (58.8%)
Finances issues	14 (41.2%)
Childcare issues	18 (52.9%)
Child Behavior difficulties	24 (70.6%)
Relationship difficulties	12 (38.7%)
Actions	
Advocacy/Involvement	13 (37.1%)
Would you consider vaccinating your child	
Yes	27 (77.1%)
No	2 (5.7%)
Unsure	6 (17.1%)
Emergency Preparedness Plan	19 (54.3%)
Accounts for child with special needs	17 (48.6%)
Updated due to pandemic	14 (40.1%)





Qualitative Data- Impacts of COVID-19

Variable	Q
Recommendations for service improvement	"train the teachers"
	"resume evaluations"
	"My kids are having a very difficult time them have adhd. They can't sit still, can the platforms. I'm not tech savvy eithe schools haven't put forth effort for the is excuse after excuse."
Success with obtaining services	"private services"
	"advocacy"
	"virtual methods"
	"great teachers"
	"I have become a bulldog to advocate for demoralized by how the districts don't of child under enough control or managed been my experience. They don't care. The doing next week so we are low on the p some advocating. Overall, it's been the of parenting."
Physical health solutions	Exercise "yoga", "trampoline", "zoom pla
Coping tools	"zooming with family"
	"meditation"
	"talking about things together"
	"antidepressants"
	"Laughter, Gratitude , Mindfulness, Per love to read and have a great home libr when we are stuck in place."



uotes

e with the online learning and several of n't juggle the assignments and the access to or and have 8 kids. I can't help them. The most part to help their special needs and it

for my kids. I'm infuriated. I am care and do what's necessary to get the d enough so the parents go away. That's They can't even figure out what they're priority. Lend at UCLA has helped us with e worst academic experience of my 22 years

ay with friend"

rspective. Going to the beach And we all rary and use that to help our minds travel



Potential Family Unit Predictors

Variable	Experience difficulties (n=27)	Did not experience difficulties (n=18)	P Value
No. of children with developmental disabilities in household [mean (SD)]	1.4 (1.28)	1.1 (0.24)	0.51
Household size [mean (SD)]	4.5 (2.17)	3.7 (1.33)	0.28
Marital status			
Married	22 (81.5%)	14 (77.8%)	0.12
Single	1 (3.7%)	4 (22.2%)	
Divorced	3 (11.1%)	0 (0.0%)	
Separated	1 (3.7%)	0 (0.0%)	
Work from home option			
Yes	11 (45.8%)	6 (40.0%)	0.66
Yes, but choose not to	2 (8.3%)	1 (6.7%)	
No	6 (25.0%)	2 (13.3%)	
Health insurance type			
Private	23 (85.2%)	14 (77.8%)	0.69
Medicare	2 (7.4%)	2 (11.1%)	1.00
MediCal/Medicaid	12 (44.4%)	6 (33.3%)	0.46
Self-pay	1 (3.7%)	2 (11.1%)	0.55





Potential Family Unit Predictors

Variable	Experience difficulties (n=27)	Did not experience difficulties (n=18)	P Value
Household income			
Less than \$25,000	4 (14.8%)	0 (0.0%)	0.06
\$25,000-\$34,999	0 (0.0%)	2 (11.8%)	
\$35,000-\$49,999	0 (0.0%)	1 (5.9%)	
\$50,000-\$74,999	3 (11.1%)	4 (23.5%)	
\$75,000-\$99,999	4 (14.8%)	0 (0.0%)	
\$100,000-\$149,999	7 (25.9%)	3 (17.6%)	
\$150,000-\$199,999	2 (7.4%)	0 (0.0%)	
\$200,000 and above	7 (25.9%)	7 (41.2%)	
Parental Perceived Social Support [mean (SD)]	5.157 (1.7308)	5.099 (1.5942)	0.92
Parental Sense of Competence [mean (SD)]	66.6 (12.48)	73.0 (14.81)	0.17
Family Environment Scale [mean (SD)]			
Cohesion	40.3 (12.63)	45.9 (6.41)	0.12
Expressiveness	47.2 (8.69)	50.9 (5.98)	0.15
Moral-Religious Emphasis	44.5 (6.51)	51.7 (8.21)	<0.01
Organization	45.5 (6.84)	50.9 (5.50)	0.01





Limitations







 Recruitment method -Online only survey •Recruitment timeframe -Longer than expected Length of the survey



Implications & Conclusions



learning

services

constraints must be prioritized

better in crises

improve physical health



- •Household income may play a larger role than we acknowledge
- •Educational services may need to develop best practices for remote
- •Medical services delivery were less affected compared social/therapy
- •Investment in family mental and physical health during extreme
- •Family unit characteristics may predict which families may perform
- Community-based lifestyle interventions pose an oppor



Next Steps



- •Multi-variate analysis for current study
- •Putting results into context with provider survey results
- •Follow-up survey later this year

•Identifying feasible interventions to improve Node of AIR-P



educational, physical and mental health experiences through the Community-based Lifestyle Intervention





Acknowledgements

Alice Kuo MD, MEd, PhD Hannah Kwak MD LCIRN Research Team Lupe Ibarra & JOY Foundation Life Course Intervention Research Network