

# Parenting Under Pressure

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# Chapter 1

## Introduction

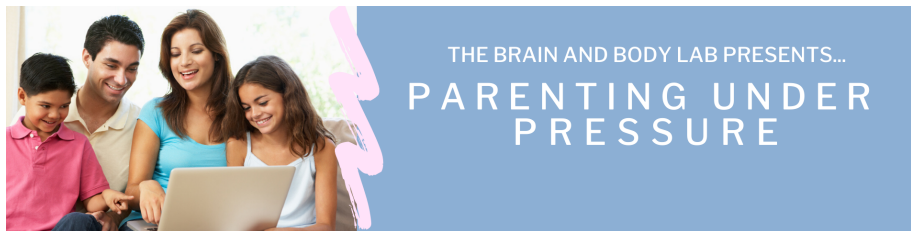


Figure 1.1:

The recent COVID-19 pandemic has caused tremendous pressure on caregivers, children, and families on a global scale. Previous research investigating the impacts of traumatic events on caregiver child relationships has shown the importance of maintaining positive caregiver child relationships in order to buffer the distress of the child. Despite the fact that traumatic events may present several challenges that potentially strain caregiver child relationships, parental buffering may alleviate anxiety and stress. While there is a breadth of existing research that encapsulates the benefits of strong caregiver child relationships during troubled times, little research exists on the transfer of parent threat information to children and its implications in the child's heightened fear and anxiety. Furthermore, few studies have surfaced regarding the larger emotional and behavioral impacts of COVID-19 on caregivers and children alike. As a traumatic experience, COVID-19 poses unique threats to families due its impacts in social distancing and self-isolation. Research in this topic will be integral to informing interventions that may diminish the negative effects of this traumatic experience for the future.

This study seeks to explore the ways in which the COVID-19 outbreak has specifically influenced caregivers, children, and families. In determining children's

largest sources of information about COVID-19, we will assess the impacts of parent threat information on the child's fear about illness and contamination, and the larger implications for the child's anxiety. Moreover, we will evaluate the impacts of the COVID-19 outbreak on parent-child relationships and parental stress, focusing on the potential ways in which caregivers are buffering their child's stress during this period.

**Keywords**

Parenting, COVID-19, pandemic, stress, children

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## 1.1 Summary

This study will be available in both English and Spanish. The study will gather both qualitative and quantitative data from parents and their children through an anonymous online questionnaire. The target population for this study will be parents with children aged 6-17 years old. The online survey is a mixed methods design and will include a multitude of questionnaires related to fear, anxiety, sleep, and parent child relationships prior to (retrospectively reported) and during the context of the COVID-19 outbreak.

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## 1.2 Background

The effect of mass traumatic events has been shown to be extremely impactful to psychological health. Mass trauma experiences can result in a number of acute and chronic stress reactions, which may lead to a number of longer-term poor mental health outcomes (Chriman & Dougherty, 2014). More specifically, previous outbreaks have been shown to cause tremendous impacts on fear, anxiety, depression, posttraumatic stress, and subjective well being (Cheng & Cheuong, 2005; Perrin et al., 2009; Wu et al., 2005). While a large majority of the population may experience negative impacts on their mental health, caregivers and children may carry a specific set of challenges following such traumatic events.

Mass traumatic events disrupt a system of care and security, which may largely impact family relationships (Gerwitz et al., 2008). Not only are children particularly vulnerable to the threats posed by fearful events and subsequent pervasive media coverage (Pfefferbaum et al., 2005), but previous research in the context of terror attacks has shown that children are also largely affected by negative parental reactions to such events (Phillips et al., 2003). Negative parental reactions, which may root from a caregiver's own concerns about health, job security, their child's safety, was found to be associated with higher distress in children (Phillips et al., 2003).

Although each traumatic event may pose its own unique challenges and impacts, the impact of parent action to child outcome has been displayed in previous research regarding pandemics. Literature on the 2009 Swine Flu pandemic has assessed the role of parent threat information and its impacts on child fear of the pandemic, highlighting the significant relationship between parental fear of the disease and its transmission to child fear through parental sources of information (Remmerswaal & Muris, 2011).

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## 1.3 Specific Aims

The proposed study will assess the impacts of COVID-19 on caregiver-child relationships and mental health outcomes for children. This study has 4 specific aims:

- (1) Determine the impacts of COVID-19 on caregiver-child relationships and parental stress.
- (2) Identify whether the transfer of parent threat information about COVID-19 is associated with higher fear and anxiety in children.
- (3) Determine whether parental buffering actions during COVID-19 can moderate the association between parent threat information and poorer mental health outcomes in children.
- (4) Establish underlying emotional themes within qualitative responses detailing COVID-19 experiences within the family unit.

We hypothesize that parents who engage with more threat-related media and less buffering activities will have higher levels of parenting stress and children with higher levels of distress.





## Chapter 2

# Methods

### 2.1 Rationale

Researchers separated PUP 1 (4/27/2020-5/28/2020; participant 159) and PUP 2 (5/29-7/30/2020, participant 324). PUP 2 incorporated a Spanish collection (7/8/2020-7/30/2020).

### 2.2 PUP 1 Measures

#### 2.2.1 Information

Title	Name	Description	Reference
information	COVID-19 Information	This questionnaire identifies information regarding how many children participants have and demographic information regarding the household.	Made by BABLab

Title	Name	Description	Reference
covid_objective	COVID-19 Objective	This questionnaire identifies health changes from the impacts of the COVID-19 outbreak.	Made by BABLab; adapted from the CASPE- parent (Lacouceur, 2020), the Combined COVID Health Emotional Lifestyle Changes (Pfiefer, 2020), and the COVID Lifestyle Changes (Pfiefer, 2020)
demographics	Demographics	This questionnaire consists of 23 items to identify the child’s age, caregiver information, parental socioeconomic status, underlying health conditions, and geographic location. This questionnaire also contains the MacArthur Scale of Subjective Social Status, which assesses the sense of social status across factors of socioeconomic status by asking individuals to place an “X” on the area of the “social ladder” they feel they most identify.	(Adler et al., 2000)

### 2.2.2 Affect

Title	Name	Description	Reference
PANAS	Positive and Negative Affect Schedule-Parent Self-Report	This self-report questionnaire consists of 20 items measuring both positive and negative affect. The questionnaire asks participants to rate each item on a 5-point scale of 1 (not at all) to 5 (very much) indicating the way they have felt over the past week.	(Watson et al., 1988)
Written Reponse	COVID-19 Written Response-Parent	This self-report measure consists of one long-form qualitative response, prompting a parent to write continuously for five minutes about the impacts of COVID-19 on their life and family.	Made by BABLab; adapted from (Pennebaker, 1997)

### 2.2.3 Anxiety

Title	Name	Description	Reference
RCADS-P	Revised Children's Anxiety and Depression Scale-Parent Proxy	This 47 item questionnaire contains subscales of separation anxiety disorder, social phobia, panic disorder, low mood, obsessive compulsive disorder, and generalized anxiety disorder. The scale asks participants to rate how often their child experiences each item.	(Chorpita et al., 2000)

Title	Name	Description	Reference
STAI	State-Trait Anxiety Inventory-Parent Self-Report	This Inventory contains two blocks, 20 items detailing state anxiety and 20 items detailing trait anxiety. The inventory asks participants to rate how often they feel each item, in either the context of general feelings or how the participant feels currently, to assess both state and trait anxiety.	(Spielberger et al., 1983)

### 2.2.4 Early Life Stress

Title	Name	Description	Reference
TESI-PRR	Traumatic Events Screening Inventory - Parent Report Revised	The TESI-PRR assesses a child's/adolescent's experience of a variety of potential traumatic events including previous injuries, hospitalizations, domestic violence, community violence, disasters, accidents, abuse.	(Ghosh-Ippen et al., 2002)

### 2.2.5 Fear

Title	Name	Description	Reference
FIVE-Parent Report	Fear of Illness and Virus Evaluation-Parent Proxy Report	This is a 35-item parent report questionnaire constructed to measure child fear of illness and virus. This questionnaire lists items related to fears about contamination, illness, and social distancing, and behaviors and impacts related to these illness and virus fears and asks participants to rate on a scale of 1-4 how often they are afraid of each item within the last week.	(Ehrenreich-May, 2020)
FIVE-Adult Report	Fear of Illness and Virus Evaluation-Parent Self-Report	This is a 35-item parent report questionnaire constructed to measure adult fear of illness and virus. This questionnaire lists items related to fears about contamination, illness, and social distancing, and behaviors and impacts related to these illness and virus fears and asks participants to rate on a scale of 1-4 how often they are afraid of each item within the last week.	(Ehrenreich-May, 2020)
GMF-PR	General Medical Fears Questionnaire-Parent Proxy Report	This 7-item questionnaire is designed to evaluate child general medical fear. The measure asks participants to rate each item on a scale of 1-3 how much they fear each item.	Made by BABLab; adapted from the Revised Fear Survey Schedule for Children (FSSC-R) (Ollendick, 1983)

Title	Name	Description	Reference
GMF-SR	General Medical Fears Questionnaire-Parent Self-Report	This 7-item questionnaire is designed to evaluate parent general medical fear. The measure asks participants to rate each item on a scale of 1-3 how much they fear each item.	Made by BABLab; adapted from the FSSC-R (Ollendick, 1983)

### 2.2.6 Parent-Child Relationship

Title	Name	Description	Reference
PCRQ	Parent Child Relationship Questionnaire-Parent Report Form	This is a 27-item questionnaire designed to measure the quality and security of the parent and child relationship. The questionnaire asks participants to rate on a scale of 1-5 how much each statement applies to him/her.	Made by BABLab; adapted from the Emotional Availability Self Report (Biringen et al., 1998), Network of Relationships Inventory (Furman & Buhrmester, 2009), Parental Reflective Functioning Questionnaire (Luyten, et al., 2017), Parent Emotion Regulation Scale (Pereira et al., 2017), Child Parent Relationship Scale (Pianta, 1992), and the Attachment Q-Sort Observational Measure (Waters & Deane, 1985)

### 2.2.7 Parental Buffering

Title	Name	Description	Reference
PBQ	Parental Buffering Questionnaire-Parent Report Form	This questionnaire contains three blocks to assess parental buffering in child stress. The first block contains 6 items to assess parental belief in being effective buffers, prompting participants to rate on a scale of 1-7 to which they agree or disagree. The second block contains 15 items of buffering actions, with a scale of 1-7 measuring how often these actions occur and a scale of 1- 6 measuring effectiveness of each action. The third block contains a qualitative response about parent buffering of child stress.	Made by BABLab; adapted from the Early Intervention Parenting Self-Efficacy Scale (Guimond et al., 2008), CASPE-Parent (Lacouceur, 2020), PERS (Pereira et al., 2017), and the Modified KIDCOPE (Pfiefer & Lewis, 2020)
BIQ	Buffering Information Questionnaire-Parent Proxy Form	This 2 item questionnaire assesses whether parents feel they have access to adequate information to support their child's psychological health during COVID-19 and the sources of this information.	Made by BABLab

### 2.2.8 Parenting Stress

Title	Name	Description	Reference
PSCQ	Parenting Stress Covid-19 Questionnaire - Parent Report Form	his questionnaire consists of two blocks, separating the evaluation of parental stress prior to COVID-19 with 4 items, and during COVID-19 with 6 items. The questionnaire asks participants to rate on a scale of 1-5 how much they agree with each item related to parental stress.	Made by BABLab; adapted from the Parental Stress Scale (Berry & Jones, 1995), COVID-19 Adolescent Symptom & Psychological Experience Questionnaire-Parent (Ladouceur, 2020), and the Adolescent Social Connection & Coping During COVID-19 Questionnaire (Pfiefer, 2020)
RDAS	Revised Dyadic Adjustment Scale	Used to assess the quality of the parents' relationship (if applicable). 14-item self report questionnaire that assesses seven dimensions of couple relationships within three overarching categories including "Consensus" in decision making, values and affection, "Satisfaction" in the relationship with respect to stability and conflict regulation, and "Cohesion" as seen through activities and discussion. Respondents rate certain aspects of their relationship on a 5 or 6 point scale.	(Busby et al., 1995)

### 2.2.9 Threat Information



Title	Name	Description	Reference
SOI	Sources of Information about COVID-19 Scale- Parent Proxy Report	his 9-item questionnaire is designed to evaluate the sources of information in which children are receiving about COVID-19. The scale lists items related to parent threat information, media, school, friends and asks participants to rate on a scale of 1-5 how true each item about the source of information their child receives.	Made by BABLab; adapted from the Sources of Information about Swine Flu Scale (Remmerswaal & Muris, 2011)

## 2.3 PUP 2 Measures

### 2.3.1 Information

Title	Name	Description	Reference
information	COVID-19 Information	This questionnaire identifies information regarding how many children participants have and demographic information regarding the household.	Made by BABLab

Title	Name	Description	Reference
covid_objective	COVID-19 Objective	This questionnaire identifies health changes from the impacts of the COVID-19 outbreak.	Made by BABLab; adapted from the CASPE- parent (Lacoureur, 2020), the Combined COVID Health Emotional Lifestyle Changes (Pfiefer, 2020), and the COVID Lifestyle Changes (Pfiefer, 2020)
demographics	Demographics	This questionnaire consists of 23 items to identify the child's age, caregiver information, parental socioeconomic status, underlying health conditions, and geographic location. This questionnaire also contains the MacArthur Scale of Subjective Social Status, which assesses the sense of social status across factors of socioeconomic status by asking individuals to place an "X" on the area of the "social ladder" they feel they most identify.	(Adler et al., 2000)

### 2.3.2 Fear

Title	Name	Description	Reference
FIVE-Parent Report	Fear of Illness and Virus Evaluation-Parent Proxy Report	This is a 35-item parent report questionnaire constructed to measure child fear of illness and virus. This questionnaire lists items related to fears about contamination, illness, and social distancing, and behaviors and impacts related to these illness and virus fears and asks participants to rate on a scale of 1-4 how often they are afraid of each item within the last week.	(Ehrenreich-May, 2020)
FIVE-Adult Report	Fear of Illness and Virus Evaluation-Parent Self-Report	This is a 35-item parent report questionnaire constructed to measure adult fear of illness and virus. This questionnaire lists items related to fears about contamination, illness, and social distancing, and behaviors and impacts related to these illness and virus fears and asks participants to rate on a scale of 1-4 how often they are afraid of each item within the last week.	(Ehrenreich-May, 2020)

### 2.3.3 Parent-Child Relationship

Title	Name	Description	Reference
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BIQ	Buffering Information Questionnaire-Parent Proxy Form	This 2 item questionnaire assesses whether parents feel they have access to adequate information to support their child's psychological health during COVID-19 and the sources of this information.	Made by BABLab

### 2.3.5 Threat Information

Title	Name	Description	Reference
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*Note: In order to reach a wider audience, all questionnaires in PUP 2 were translated into Spanish by members of our research team. These translations were then approved by native speakers of the language.*

## 2.4 Procedure

### 2.4.1 Recruitment

Participants were recruited online via postings on Craigslist and NextDoor and digital marketing efforts on the LA Virtual Camp Fair Website. Postings were made on social media, via Facebook paid advertisement, in Facebook parent forums, Instagram, LinkedIn, and Twitter. Recruitment efforts also included emailing listservs and community stakeholders/research collaborators for distribution, contacting local school boards, and creating press releases for local (community postings on Patch) news distribution.

Participants who enroll in the study will be placed in a raffle to win one of twenty \$100 Visa or Amazon gift cards by providing an email address following completion of the study. Participants do not have to complete or enroll in the study to go in the draw to receive the gift card.

The following materials were used:

### 2.4.2 Timing

PUP 1 took approximately 60 minutes to complete, including 5 minutes of child self-report following the Written Response COVID-19 prompt. PUP 2

# PARENTING UNDER PRESSURE



## CLICK TO JOIN THE STUDY NOW

Do you have a **child** or **teen** aged **6-17**? Join our research and help us explore the impact of COVID-19 on your family!

### What you will do:

- Parents complete a 40 minute anonymous online survey on topics of family relationships, family violence, parent personality, coping skills, Information about COVID-19, and demographic Information
- Children complete a single question (<5 minutes)

### What you will get:

- Enter to win 1 of 20 \$100 Visa Gift Cards!\*

### Why participate?

- Help build new and needed knowledge on the impacts of COVID-19 on caregivers, children, and families.

**Principal Investigator:**  
Dr. Bridget Callaghan, Ph.D.

**call us:**  
(310) 909 - 7083

**email us:**  
bablab.ucla@gmail.com

**visit our website:**  
[brainandbodylab.psych.ucla.edu/studies/parenting-under-pressure/](https://brainandbodylab.psych.ucla.edu/studies/parenting-under-pressure/)

\*participation in the study is not required to enter the draw; participants will have a less than a 1 in 40 chance of winning a gift card.

Figure 2.1:

# PARENTING UNDER PRESSURE



**CLICK TO JOIN  
THE STUDY NOW**

**Do you have a child or teen aged 6-17? Join our research and help us explore the impact of COVID-19 on your family!**

## What you will do:

- Parents complete a 35 minute anonymous online survey on topics of family relationships, parent personality, coping skills, Information about COVID-19, and demographic Information

## What you will get:

- Enter to win 1 of 20 \$100 Visa or Amazon Gift Cards!\*

## Why participate?

- Help build new and needed knowledge on the impacts of COVID-19 on caregivers, children, and families.

**Principal Investigator:**  
Dr. Bridget Callaghan, Ph.D.

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Protocol ID: IRB#20-000735    UCLA IRB Approved    Approval Date: 4/22/2020    Committee: North General IRB

Figure 2.2:



## EL ESTUDIO PARENTING UNDER PRESSURE



**HAZ CLIC PARA UNIRSE AL ESTUDIO AHORA**

**¿Tiene un niñ@ o adolescente entre 6 a 17 años? ¡Uniese a nuestra investigación y ayúdanos explorar el impacto de COVID-19 en su familia!**

### Qué haré:

- Padres completarán una encuesta anónima en internet de 35 minutos en temas de información en relaciones familiares, personalidad de los padres, capacidad para enfrentar situaciones difíciles, información sobre el COVID-19, y información demográfica.

### ¿Por que participar?

Nos ayudaras entender conocimientos nuevos y necesarios sobre los impactos de COVID-19 en cuidadores, niñ@s, y familias.

**Investigadora principal:**  
**Dra. Bridget Callaghan, Ph.D.**

**Llámanos:**  
**(310) 909 - 7083**

**Envíenos un correo electrónico:**  
**bablab.ucla@gmail.com**

**Visita nuestro sitio web:**  
[brainandbodylab.psych.ucla.edu/studies/parenting-under-pressure/](https://brainandbodylab.psych.ucla.edu/studies/parenting-under-pressure/)

### Qué recibiré:

¡Entrada para ganar una tarjeta de regalo Visa o Amazon de \$100 (20 en total)! \*

\*participación en este estudio no es necesario para entrara la rifa; participantes tendrá menos de un 1 en 40 posibilidades para ganar una tarjeta de regalo

Protocol ID: IRB#20-000735    UCLA IRB Approved    Approval Date: 4/22/2020    Committee: North General IRB

Figure 2.3:

was shortened to approximately 35 minutes and did not include a qualitative written section.

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### 2.4.3 PUP 1 Questionnaire Order

1. Participant
  2. COVID-19 Information
  3. FIVE
  4. SOI
  5. GMF
  6. PCRQ
  7. PSCQ
  8. BIQ
  9. PBQ
  10. TESI
  11. Demographics
  12. STAI
  13. RCADS
  14. PANAS (Pre- assessment)
  15. Parental Written Response
  16. PANAS (Post- assessment)
  17. Child Written Response (if applicable, #18-20)
  18. Child #2 Written Response
  19. Child #3 Written Response
  20. Child #4 Written Response
  21. Resources
- 

### 2.4.4 PUP 2 Questionnaire Order

1. Participant
  2. Information
  3. FIVE
  4. SOI
  5. PCRQ
  6. BIQ
  7. PBQ
  8. Demographics
  9. Resources
- 

### 2.4.5 PUP 1 Attention Checks

1. FIVE

2. PCRQ
  3. PBQ
  4. TESI
  5. RCADS
- 

#### **2.4.6 PUP 2 Attention Checks**

1. FIVE
  2. PCRQ
  3. PBQ
-



## Chapter 3

# Analysis

### 3.1 Mixed Methods

#### 3.1.1 Preregistration

#### 3.1.2 Preprint

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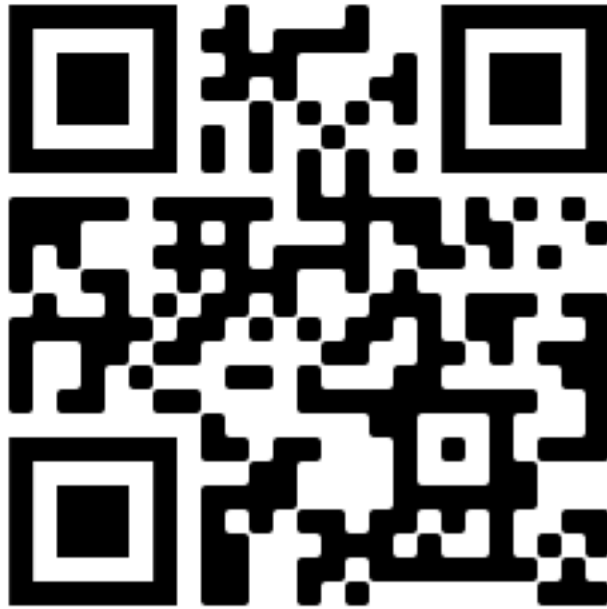


Figure 3.1:

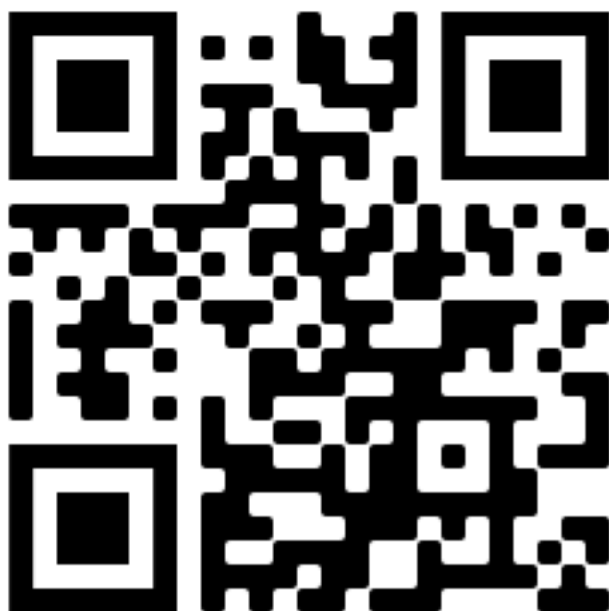


Figure 3.2:





## Chapter 4

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## Chapter 5

# Contributions

### 5.1 General

Name	Role
Bridget Callaghan	Study conception, design, planning, supervision
Kristen Chu	Study conception, design, planning, implementation, data cleaning, data analysis, documentation creation
Chloe Schwartz	Study conception, Design, planning, implementation, data cleaning, data analysis, documentation creation
Emily Towner	Study conception, design, planning, implementation, data cleaning, data analysis
Grant Grech	Study translation, piloting, REDCap questionnaire entry, recruitment
Daisy Ramirez	Study translation, piloting, REDCap questionnaire entry, recruitment
Nicole Fonacier	Study translation, piloting, REDCap questionnaire entry, recruitment
Aileen Gozali	Implementation, piloting
Danielle Ladensack	Implementation, piloting
Ananya Eervani	Study translation
Alyssa Wieand	REDCap questionnaire entry
Reese Wix	REDCap questionnaire entry
Alyssa Ortega	REDCap questionnaire entry
Michael To	REDCap questionnaire entry

## 5.2 Projects/Papers

### 5.2.1 PUP Mixed Methods

Name	Role
Bridget Callaghan	Supervision, data analysis, writing, editing
Kristen Chu	Data analysis, writing, editing, preregistration, ISDP 2020 Poster
Chloe Schwartz	Data analysis, editing
Emily Towner	Data analysis

### 5.2.2 PUP Quantitative

Name	Role
Bridget Callaghan	Supervision, writing, editing
Chloe Schwartz	Data analysis, writing, editing preregistration, ISDP 2020 Poster
Kristen Chu	Data analysis, editing
Emily Towner	Data analysis