

Parent-Child Relationships and the COVID-19 Pandemic: An Exploratory Qualitative Study with Parents in Early, Middle, and Late Adulthood

J. Mitchell Vaterlaus 10 · Tasha Shaffer · Emily V. Patten 20 · Lori A. Spruance 30

Accepted: 7 May 2021 / Published online: 20 May 2021 © The Author(s), under exclusive licence to Springer Science+Business Media, LLC, part of Springer Nature 2021

Abstract

The impact of the COVID-19 pandemic on families is currently unknown. Parents and children have experienced a variety of changes as public health interventions have been implemented to slow the spread of the virus. The current exploratory qualitative study recruited parents (n = 365) in early (ages 20–34), middle (ages 35–64), and late (ages 65 and older) adulthood to understand how the early weeks of the pandemic influenced their parent—child relationships. Participants completed an online survey between March 21 and 31, 2020. Three themes emerged through qualitative content analysis: (1) relational steadiness, (2) navigating COVID-19 challenges in relationships, and (3) relational enhancement.

Keywords Parenting · Parent-child relationships · COVID-19 · Qualitative · Pandemic

Parent-child relationships are lifelong, generally only "partially voluntary" and "based on interconnected experiences in the past and the expectation of interconnected experiences in the future" (Trommsdorff, 2006, p. 147). Taking a contextual view on parent-child relationships across the lifespan is critical as changes occur in the larger social and physical environment. A recent contextual change was the emergence of the novel coronavirus (COVID-19), which was declared a national health emergency in the United States on March 13, 2020 (The White House, 2020). Throughout

history, families have experienced expected and unexpected crises, and families have varied in how they have weathered these crises (Vaux & Asay, 2019). The current study was designed to explore parents' perceptions of how the early weeks of the COVID-19 pandemic influenced their parent–child relationships.

Tasha Shaffer tasha.shaffer@gmail.com

Emily V. Patten Emily_patten@byu.edu

Lori A. Spruance Lori.andersen@byu.edu

- Department of Health and Human Development, College of Education, Health, and Human Development, Montana State University, PO Box 173540, Bozeman, MT 59717, US
- Nutrition, Dietetics, & Food Science Department, College of Life Science, Brigham Young University, S-231 ESC, Provo, UT 84602, US
- Public Health Department, College of Life Science, Brigham Young University, LSB 2149, Provo, UT 84602, US

Theoretical Framework

From an Ecological Systems perspective, humans develop through bidirectional interactions within concentric ecosystems (Bronfenbrenner, 1979, 1994). These systems include micro-, meso-, exo-, macro-, and chronosystems. The microsystem involves the enduring, day-to-day interactions, which includes the parent-child relationship (Bronfenbrenner, 1979). The mesosystem includes the interactions between two microsystems (e.g., parent-child microsystem and school-child microsystem), the exosystem represents an environment that influences the developing human, but they are not directly involved (e.g., a parent's employment), and the macrosystem includes the cultural and societal values in which the developing human is embedded. Finally, the chronosystem accounts for time and the sociohistorical conditions in which development occurs (Bronfenbrenner, 1994).



Adults experience typical changes in their ecological system levels across early (e.g., romantic relationships and family formation, education, and career selection), middle (e.g., career development/satisfaction, parenting, launching children, caregiving to aging parents), and late (e.g., retirement for many, grandparenting) adulthood (Bjorklund, 2015). These changes over time (chronosystem) influence the role of parents (initially meeting basic needs and then supporting individuation as children grow into adulthood) and children (initially dependent on parents, developing independence from parents, and potentially providing care for aging parents) within the parent-child microsystem (De Vries et al., 2007; Stormshak et al., 2018). The chronosystem also accounts for the atypical sociohistorical conditions that affect human development, which would include the declaration of the COVID-19 pandemic in March 2020 (The White House, 2020).

At the beginning of the COVID-19 pandemic, at exoand macrosystem levels, non-pharmaceutical public health interventions were implemented to slow the spread of the virus (Mervosh et al., 2020; Singh et al., 2021) and there was uncertainty about the virus and potential duration of the pandemic (Koffman et al., 2020). Menter et al. (2020) explained:

The COVID-19 pandemic has resulted in widespread impact on the daily lives of children and their parents. Human development occurs within interactive systems, and thus, disruptions such as those attributed to COVID-19 across multiple systems may impact children and families. (p. 12)

The current study focused on experiences within the parent–child relationship (microsystem) in the context of the onset of the COVID-19 pandemic (chronosystem). Capturing the experience of parent–child relationships in the early weeks of this pandemic could provide knowledge related to how best to support parents and children in the onset of potential future public health crises.

Parent-Child Relationships and COVID-19 Pandemic

Parents and children have likely experienced a variety of changes as a consequence of the COVID-19 pandemic (Prime et al., 2020). To slow the spread of the virus, public health interventions were implemented, and by March 23, 2020, 43 states had state-wide (or parts of states) stay-athome orders (Mervosh et al., 2020). This led to changes for parents and children as schools and childcare agencies closed, work expectations shifted, and socializing opportunities became restricted (Brown et al., 2020). This resulted in "profound changes to family routines and rituals that are often taken for granted," but there was likely "considerable

variability" in the ways families were impacted in the early weeks of the COVID-19 pandemic (Prime et al., 2020, p. 634).

Many parents of school age children found themselves balancing working from home while caring for and educating their children (Brown et al., 2020; Goldberg et al., 2021; Griffith, 2020; Hiraoka & Tomoda, 2020). However, this balancing of new roles may be different for father-child and mother-child relationships. Although father engagement in childcare responsibilities and time spent with children has been increasing, mothers continue to spend more time with children and do more of the childcare responsibilities (Parke & Crookston, 2019). In general, during the pandemic, parents have had to increase their time spent caring for their children, but mothers have continued to spend more time on childcare responsibilities than fathers and have also experienced a higher likelihood of reducing work hours, transitioning out of the workforce, and experiencing higher psychological distress (Zamarro & Prados, 2021).

It is unclear how these new roles might have influenced parent-child relationships, but it is possible with limited interaction outside the home and parents taking on more roles in their children's lives that there could be increased strain on parent-child relationships. For instance, in qualitative pandemic research, adolescents ($m_{age} = 16.28$) indicated that they felt isolated and some reported arguing more with their parents (Scott et al., 2021). Further, the quality of parent-child interactions with young children could have also potentially declined during the pandemic as mothers of young children have been reported to be at higher risk for parenting-related exhaustion (Marchetti et al., 2020). Although, parent-child relational experiences may have been more typical earlier in the pandemic because there was not a clear perspective on the potential duration of the pandemic.

Parents and children of all ages may have experienced increased social isolation, economic challenges, and limited access to supportive resources (Prime et al., 2020). Adults over the age of 65 are at higher risk of getting seriously ill or dying from COVID-19 (Centers for Disease Control and Prevention [CDC], 2020b; Shahid et al., 2020). Parents in late adulthood may have also experienced disrupted family routines in order to stay protected from contracting the virus—especially those grandparents providing care for grandchildren while their adult children work (Kirby & Hoang, 2018) and older adults receiving care from their adult children (Wilson, 2018). Parents in late adulthood may have also experienced more demonstrations of concern from their children during the pandemic as adult children "transition from the one being protected in the relationship to the one who is doing the protecting" (Mercier et al., 1997, p. 186). In emerging qualitative research with older adults during the pandemic, participants reported that they were



worried about their adult children's health and were missing their families (Whitehead & Torossian, 2021). Although, these same older adults reported that they were still connecting with family and friends via technology during the pandemic. Women in late adulthood reported higher rates than men in viewing digital communication as a source of joy during the pandemic.

At present, research with parents during the COVID-19 pandemic has primarily focused on parenting stress (Brown et al., 2020; Hiraoka & Tomoda, 2020) and burnout (Griffith, 2020) of parents of school age children. Brown and colleagues (2020) indicated that parents did experience changes in mood and increased general stress levels during the COVID-19 pandemic, which is problematic because these parents also likely had lower access to support from external sources. Potential risks of increased parental stress have been reported to be child abuse (Brown et al., 2020) or decreased parent-child relational quality due to "coercive cycles in parent–child interactions" (Prime et al., 2020 p. 634). As research on the COVID-19 pandemic and parent-child relationships continues, there would be value in expanding research beyond parent-child relationships with school-aged children and to begin to understand parent-child relationships across the lifespan.

Purpose of the Current Study

There will be individual and relational differences in how parents are influenced by the COVID-19 pandemic (Prime et al., 2020). It is also likely there will be different experiences at the beginning, middle, and end of the pandemic. For instance, the public health measures were stricter in the early weeks/months (Mervosh et al., 2020), and there was unknown information about the virus. The current exploratory study was designed to understand how parents perceived their parent–child relationships were influenced by the early weeks of the COVID-19 pandemic. Consistent with previous conceptualizations of adulthood age groups (Mackenzie et al., 2012), experiences of parents were examined by early (ages 20–34), middle (ages 35–64), and late (ages 65 and older) adulthood.

Methods

Sample

Participants included 365 adults (n = 142 men; n = 223 women; $m_{age} = 43.56$; sd = 13.41) from 44 states in the United States (Alaska, Delaware, Hawaii, Rhode Island, Vermont, and West Virginia not represented). Participants reported having between one and eight children (m = 2.52,

sd = 1.34). Parents indicated that they had between zero and seven children ages 18 and under currently living with them (m=1.65; sd=1.44). See Table 1 for sample characteristics.

Procedures

Study procedures were approved by a university Institutional Review Board. This study is part of a larger study on wellbeing during the COVID-19 pandemic (see Vaterlaus et al., 2021). Data were collected in two ways: snowball sampling through social media with a gift card raffle incentive and through *Prime Panels* (www.cloudresearch.com), which is an established way of recruiting diverse community samples (Chandler et al., 2019). All participants completed an online survey administered through Qualtrics (www.qualitrics.com) between March 21 and 31, 2020. To check for understanding and refine the survey, the survey was piloted with 20 adults prior to data collection. Various strategies were used with the online survey to ensure data quality (e.g., inclusion of open-ended items, raffle incentive vs renumeration for all, embedded directive items; Pozzar et al., 2020). Sample inclusion required the participant to have at least one child. Initially, 663 participants completed the survey, and 221 were excluded because they did not report having children, 14 additional participants did not provide enough information to be included (e.g., did not indicate if they had children in the survey), and 63 of surveys were excluded because they did not meet the established data quality requirements.

Data Collection and Analysis

The survey asked for demographic information and level of social distancing. Additionally, participants reported how many children they had and how many were 18 years or younger and living with them. Participants were asked an open-ended item: *How would you say the coronavirus* (COVID-19) pandemic has (or has not) influenced your relationship with your children? Data were organized by parent age group: early adulthood (ages 20–34), middle adulthood (age 35–64), and late adulthood (ages 65 and older).

A conventional qualitative content analytic approach was selected for this study (Hsieh & Shannon, 2005). This qualitative analytic approach is used to "describe a phenomenon" through gaining "direct information from study participants without imposing preconceived categories" and is described an inductive method (Hsieh & Shannon, 2005, pp. 1279–1280). This was an appropriate approach as the goal was to understand how parents perceived their parent–child relationships were influenced by the early weeks of the COVID-19 pandemic—allowing the codes and themes to "flow from the data" (Hsieh & Shannon, 2005, p. 1279).



254 J. M. Vaterlaus et al.

Table 1 Sample characteristics (n = 365)

		Total (ages 20–80) n=365		Young adults (ages $20-34$) $n=106$		Middle-aged adults (ages 35–64) $n=223$		Older adults (ages 65 and older) $n=36$	
	n	%	\overline{n}	%	\overline{n}	%	\overline{n}	%	
Gender			1						
Male	142	38.90	37	34.91	85	38.12	20	55.56	
Female	223	61.10	69	65.09	138	61.88	16	44.44	
Race									
White	317	86.85	93	87.73	191	85.65	33	91.67	
African American	24	6.58	8	7.55	14	6.28	2	5.56	
Asian and Pacific Islander	8	2.19	1	0.94	6	2.69	1	2.78	
Latinx	9	2.47	2	1.89	7	3.14	0	0.00	
American Indian	6	1.64	2	1.89	4	1.79	0	0.00	
Multiracial	1	0.27	0	0.00	1	0.45	0	0.00	
Relational status									
Married	316	86.58	94	88.68	193	86.55	29	80.56	
Single	35	9.59	10	9.43	21	9.42	4	11.11	
Cohabiting	14	3.84	2	1.89	9	4.03	3	8.33	
Educational attainment									
High school or less	32	8.77	5	4.72	21	9.42	6	16.67	
Some college or vocational school	67	18.36	19	17.92	37	16.59	11	30.56	
Bachelor's degree or higher	266	72.88	82	77.38	165	73.99	19	52.78	
Employment									
Full time	184	50.41	39	36.79	138	61.88	7	19.44	
Part time	69	18.90	27	25.47	39	17.49	3	8.33	
Homemaker	44	12.05	20	18.87	23	10.31	1	2.78	
Student	17	4.66	16	15.09	1	0.45	0	0.00	
Unemployed	15	4.11	4	3.77	8	3.59	3	8.33	
Retired	27	7.40	0	0.00	6	2.69	21	58.33	
Disabled	9	2.47	0	0.00	8	3.59	1	2.78	
Level of social distancing during COVID-19									
Not worried; leave residence to go variety of places	9	2.47	3	2.83	5	2.24	1	2.78	
Only leave residence for work or essential trips (e.g., groceries, medical, caregiving, and exercise)	315	86.30	96	90.57	193	86.55	26	72.22	
Full lockdown; never leave residence	41	11.23	7	6.60	25	11.21	9	25.00	
	m	sd	m	sd	m	sd	m	sd	
Total number of children	2.52	1.34	2.12	1.14	2.69	1.36	2.67	1.53	
Number of children (18 and under) living with parent	1.65	1.44	2.08	1.19	1.70	1.49	0.03	0.17	

The two researchers who conducted the qualitative analysis had previous training and experience in qualitative analysis.

Consistent with qualitative conventional content analysis (Hsieh & Shannon, 2005), two researchers independently immersed themselves in the data to identify key words and ideas. The two researchers then met together and identified and defined 14 coding categories that represented participant experiences. To evaluate the utility of the coding scheme, the researchers initially coded 20 responses independently, compared coding decisions, and then made necessary refinements to coding rules/definitions. The two researchers then

independently coded the full dataset (88.65% agreement), and coding disagreements were resolved through discussion. In line with qualitative conventional content analysis (Hsieh & Shannon, 2005), the two researchers reviewed the similarities within codes and identified three key categories or themes that represented the participants' experiences.

To further enhance the trustworthiness of the results, member checking (i.e., asking a selection of participants to review the completed results section for accuracy) was used (Creswell, 2013; Vaterlaus et al., 2014). At the conclusion of the survey, participants who were recruited through



snowball sampling (*Prime Panels* does not allow collection of personal information) were directed to a separate survey where they could document their participation for the incentive. This survey also had an item that explained member checking and invited participants to provide their email address if they were willing to review the completed results and provide feedback via email. Ten of the participants who volunteered were selected at random and emailed the complete results section to consider how the results represented their own experience, their peers' experiences, and to make any recommended changes. Participants indicated that results did represent their own/their peers' experiences.

Results

Participants' experiences in parent—child relationships during the early weeks of the COVID-19 pandemic were represented in three themes (see Table 2): (1) relational steadiness, (2) navigating COVID-19 challenges in relationships, and (3) relational enhancement. Themes are presented in order of prevalence. Participant gender, age, and employment status (i.e., full time, part time, homemaker, student, unemployed, retired, and disabled) are shared parenthetically with direct quotes to provide context. Within each theme, the results are discussed by adult age group.

Relational Steadiness

Participants reported that their parent—child relationships remained steady during the early weeks of the COVID-19 pandemic. Young and middle-aged adults explained that they were "now spending more time with my children than before due to the coronavirus pandemic" (male, 41, full time), "but how we behave and interact [in our parent—child relationships] hasn't changed" (female, 36, full time). Older adults did not report more time with their adult children during the onset of the pandemic but did report that there were "no changes" in their parent—child relationships.

Young Adults

Participants within this age group emphasized that the early weeks of the pandemic had "not influenced my relationship with my children" (male, 23, full time), "things [in my parent—child relationship] are about the same" (female, 28, part time), or "it really hasn't taken a toll on my [parent—child relationship]" (male, 33, unemployed). Young adults explained that they were spending more parent—child time together, but more women (40.58%) than men (27.03%) reported this. Most participants indicated that this increased time was not affecting their parent—child relationships because their children were young (e.g., "infant", "toddler",

"3-year-old", "my oldest is six almost seven") and already required more parental time and attention and were unaware of "what's going on in the world" (male, 32, student). More young adult parents who were full-time students (50%) or part time employed (33.00%) shared this perspective than those who were homemakers (25.00%), full time employed (23.68%), or unemployed (25.00%). For example, participants shared "My children are very young. COVID-19 hasn't had a direct effect on my relationship with my children, other than me spending more time at home with them" (male, 29, student), and "Since my son is not old enough for school yet, things are about the same" (female, 29, part time).

Middle-Aged Adults

Participants in the middle-aged adult age group explained that the pandemic had "no impact on my relationship with my children" (male, 40, full-time). The participants explained that they had established quality parent—child relationships prior to the pandemic, and this did not change at the onset of the pandemic. Commenting on the parent—child relationships prior to the pandemic, participants shared that, "I feel that we had a good [parent—child] relationship before COVID-19" (female, 38, homemaker) or "We have a close [parent—child] relationship already" (female, 40, full-time) and that the changes related to the pandemic have not influenced their relationships. For example, a mother (48) who was full-time employed explained, "My son is an 18-year-old senior in high school. Prior to the pandemic, we were really close. COVID-19 has not changed this."

Some middle-aged adult participants (10.59% men; 19.57% women) acknowledged that there was a change in the quantity of time they spent with their children during the early weeks of the pandemic— "I have more time to be with [my children]" (female, 36, part time). This was reported more by participants who were part-time employed (76.92%) or homemakers (47.83%) than those who were unemployed (37.50%) or full time employed (34.06%). However, participants did not feel that this increased time had influenced their parent–child relationships. For instance, participants explained, "We've had more time to spend together because we are under quarantine, but the nature of our relationship is still the same" (female, 36, homemaker), and "It hasn't really affected our relationship. I've gotten more time for them" (male, 39, full time).

Older Adults

Participants in late adulthood (60.00% men; 25% women) contributing to this theme reported that the early weeks of the pandemic had "no influence," "no effect," or led to "no changes" in their parent—child relationships. These participants further explained that "my children are all adult



256 J. M. Vaterlaus et al.

Table 2 Results from a qualitative content analysis: parent (n=365) perceptions of how the early weeks of the COVID-19 pandemic influenced their parent—child relationships

Code	Total (n = 365)		Young adults (n=106)		Middle-aged adults (n=223)		Older adults $(n=36)$		Representative quotes	
	\overline{n}	%	\overline{n}	%	\overline{n}	%	\overline{n}	%		
Theme 1 relational steadiness										
No change in relationship	110	30.14	31	29.25	63	28.25	16	44.44	"[The pandemic] hasn't really affected our relationship" (male, 39, full time)	
Quantity of time spent together	110	30.14	38	35.85	72	32.29	0	0.00	"My children are spending more time with me every day" (female, 41, disabled)	
Theme 2 navigating COVID-19 challenges	in rel	ationshi	ips							
Covid-19 concerns	55	15.07	16	15.09	34	15.25	5	13.89	"I come home. I wash myself. I avoid unnecessary touch with my children." (male, 41, full-time)	
Social distancing	54	14.79	14	13.21	30	13.45	10	27.78	"It's harder because we can't do a lot of our usual out of the house activities" (female, 29, part time)	
Balancing Roles/New Roles	47	12.87	17	16.04	29	13.00	1	2.78	"I am still expected to work full time virtually, and without school I either pay for 2 more children in daycare (\$50 more/day) or they stay home with me and watch a lot of tv so I can work. I am also staying up later at night to work, which makes me tired" (female, 33, full time)	
Lack of patience	23	6.30	12	11.32	11	4.93	0	0.00	"My stress has decreased my patience a few times and I responded [to my children] more sharply that I have historically." (female, 43, full time)	
Too much time together	13	3.56	9	8.49	4	1.79	0	0.00	"Not having space and others to talk to is driving [me and my children] a little crazy" (male, 31, full time)	
Screen time	8	2.19	3	2.83	5	2.24	0	0.00	"We have streamed a TON of content" (female, 51, full time)	
Employment and financial concerns	6	1.64	0	0.00	5	2.24	1	2.78	"Our child lost their job due to the virus." (female, 48, full time)	
Coping with boredom	5	1.37	3	2.83	2	0.90	0	0.00	"They are getting bored easily" (female, 29, part time)	
Theme 3 relational enhancement										
More quality time	60	16.44	24	22.64	36	16.14	0	0.00	"The pandemic has given me more time to bond with my child" (female, 24, student)	
Improvements in relationship	49	13.42	13	12.26	32	14.35	4	11.11	"The pandemic is making us more compassionate with one another" (female, 35, full time)	
More Technology-based Communication	29	7.95	0	0.00	19	8.52	10	27.78	"My daughter and I are in touch by phone or text more often than usual." (female, 69, retired)	
More creative activities	24	6.58	9	8.49	15	6.73	0	0.00	"I am getting more creative with the things we do at home" (female, 29, homemaker)	

Young adults: ages 18-34; Middle-aged adults: ages 35-64; Older adults: ages 65+; gender, age, and employment status follow quotes to provide context

children" (male, 72, retired), "my children are grown" (female, 73, retired), and "none of our children live with us" (female, 67, full time). Although parent-child relationships were reported as having "always been close" (female, 73, retired), there was already physical distance in the parent-child relationship prior to the pandemic so "our [parent-child] relationship has really not changed" (male, 65, full-time). Emphasizing this point a participant

shared, "[the pandemic] has not affected the [parent-child] relationships. One of our children lives in Spain and the other in Hawaii, while we (the parents) are in California" (male, 66, retired). As adult children were not living with their parents and there was physical distance prior to the pandemic, no older adult participants reported spending more time with their children as a result of the early weeks of the pandemic.



Navigating COVID-19 Challenges in Relationships

Participants reported that the COVID-19 pandemic increased fear, anxiety, uncertainty, and stress. Further, the affiliated non-pharmaceutical public health interventions resulted in restricted activities, stay-at-home orders, and new or revised roles. Participants explained that these pandemic generated experiences posed challenges that had to be navigated within parent—child relationships.

Young Adults

Participants indicated that there were a lot of unknowns at the onset of the pandemic, and they were prioritizing keeping their children "safe" and "doing the best I can to protect them" (male, 25, full-time). Young adults (13.51% men, 15.94% women) explained that time spent in the parent-child relationship involved teaching their children about methods to decrease "spreading germs" (e.g., hand washing, limiting physical contact) and specifically having to navigate social distancing expectations (e.g., "staying home"; 10.81% men, 14.49% women). Participants reported that their children were frustrated with them because they wanted to "go places," were "missing friends," and were "getting bored" and "stir crazy" from having parents as "their only social interaction right now" (female, 29, part time). A mother (30, part time) shared, "I had to spend a lot of time explaining to my 4-year-old why t-ball, preschool, church, and his birthday party were cancelled."

Participants stated that children and parents experienced "anxiety" and "stress" around the virus and public health interventions, and this led to "concern," "less patience," and "tension" in the parent-child relationships. Some older children experienced anxiety about the virus itself and parents were trying to navigate how to address children's fears. A participant (female, 34, full-time) explained that she was trying to figure out how best to address her son's fear because, "My oldest is struggling with the 'virus' talk. It is scary to him because he does not understand the entire context, and when he hears taglines like '15 people died today' it is scary." Participants worried about how their own fear and stress were influencing their parent-child relationships. They realized they were using "screen time" to entertain children, taking less time to "play with kids," and using "more emotional responses to children's misbehavior instead of teaching responses" (female, 27, part time). A participant disclosed (male, 31, full time):

I have become more fearful in general and more irritable. More prone to yelling. I try to apologize and make things right with my kids, but at the very least they see my tension and fear which I pray is not damaging. Adding to the stress and strain on the parent–child relationships, young adults reported (7.9% full time employed, 11.11% part time employed, 30.30% homemaker, 18.75% student, 50% [n=2] disabled) having to provide care for their children all day and assist older children with their schooling (e.g., "having to be engaged full time in their learning, as schools have been closed" [female, 31, homemaker]). This required finding a new balance for many as they were also working or completing schooling from home. More women (20.28%) than men (8.1%) reported having to find balance in these roles.

Middle-Aged Adults

Participants indicated that they were working to navigate COVID-19 concerns (12.74% men, 16.67% women) and social distancing expectations (15.29% men, 12.32% women) in their parent—child relationships, which meant they "had to answer some tough questions" (female, 38, full time) from their children as they learned to "take and stick to measures stipulated by the CDC" (male, 40, full time). Having to enforce adherence to public health guidelines and having a lot of parent—child time reportedly led to more parental and child frustration for middle-aged adults. Participants explained, "It's stressful communicating with my 3 children in their 20's about the importance of social distancing" (female, 49, full time), and "[My son] believes COVID-19 is a government conspiracy and is frustrated that I don't agree" (female, 53, full time).

Parents had to help children cope with the loss of events, social activities, the consistency of school attendance/moving home to complete college remotely, and adult children losing jobs while both parents and children experienced "fear," "uneasiness," "anxiety," and "concern." A mother of six children (38, homemaker) elaborated

The youngest are not understanding why they can't play at the neighbor's house or why we are staying home day in and day out. Our older 3 are concerned, and helpful. Our 11-year-old had spent the last six months earning money to tour Italy with some other students from his school as well as his dad. That trip was cancelled, and spring break has been spent at home. The rain is needed, but also isolating at this time. We are up and down with our patience and understanding with each other [in the parent-child relationships].

More middle-aged adult women (19.57%) than men (2.35%) reported having to figure out how to balance their different professional, family, and new roles during the early weeks of the pandemic. Participants who were homemakers (30.43%) reported this more than those with other employment statuses (11.59% full time employed; 12.82% part time



258 J. M. Vaterlaus et al.

employed; 12.50% [n=1] unemployed). A mother (40, full time) shared

Things are strained in our [parent-child] relationships due to working from home in addition to trying to supervise four kids (two infants). I think the older kids find us to be irritable at times, but when we're not working, we're making extra effort to focus on them. We're having ... more strained and tense moments.

A grandmother (61, full time), who had adult children who had to continue working without the availability of school or childcare, had to take on new roles to support her children because she could work from home. She explained that her grandchildren were brought to her house, and "I am now the childcare provider, homeschool teacher, online teacher [her professional position], chief cook, and bottle washer. This is no exaggeration. I have grandkids that are 12, 4, 2 and 11 months." Further, participants reported more parent—child relationship challenges as they took on ensuring their children completed their schoolwork at home—"teenagers have online courses and are not doing their part to keep up—requiring me to 'hound' them a bit more than I'd like" (female, 36, full time).

Older Adults

Where young and middle-aged adults reported spending more time or too much time with their children, older adults (20% men, 37.50% women) expressed that social distancing had decreased the time they physically spent with their adult children—"[My adult children] don't visit now" (male, 68, retired) and "We are not able to get together as often as we did [before the pandemic]" (female, 67, homemaker). Older adults explained that they and their adult children had concerns about COVID-19 particularly related to older adults being "considered high risk" for serious complications with the virus. Older adults especially reported that they and their adult children were "being more cautious," "cancel[ed] family gatherings," and "visit[ed] in the yard at a distance" out of concern for each other's health and safety.

Some adult children were reported to be insistent about their parents' practice of social distancing. A participant (72, retired) shared, "[My son] won't let me go anywhere because of my age and my health." Another participant (female, 67, disabled) explained that she and her husband "usually watch the grandchildren," but because of the pandemic, they had discontinued this as "they [the adult children/grandchildren] are self-quarantining away from us".

Apart from health concerns related to COVID-19, an older adult (female, 69, full-time) also expressed concerns about employment for one of her adult children. She explained that she had two adult children, "One has lost his job. It is very stressful, and he will need our support. My

other son is doing fine as he lives with his partner and both are currently employed."

Relational Enhancement

Some participants shared that they experienced enhancements in their parent—child relationships during the early weeks of the pandemic. There was an opportunity for more quality in-person time in early and middle-aged adult parent—child relationships. Older adults experienced more technology facilitated connection with their children.

Young Adults

Despite the unknowns and stress of the pandemic, some young adults expressed that their parent—child relationships had improved (16.22% men, 10.14% women) and that they were able to spend more quality parent—child time together (27.03% men, 20.29% women). More quality parent—child time during the early weeks of the pandemic was reported by those who were homemakers (40.00%) or full time employed (26.32%), but some full-time students (18.75%) and part-time employed (7.41%) individuals shared this perspective.

One mother (32, homemaker) reported feeling "more grateful for the little things, like snuggling [my son] before naps or kissing him before bed" and a father simply stated that the increased [parent–child] time together, "[during this pandemic has] helped us draw closer together"] (male, 32, full time).

Young adult women (13.04%; 0.00% men) found creative ways to engage their children through increased educational and enrichment activities. A mother (31, homemaker) stated, "I have become a lot more creative in things [during pandemic restrictions]. I find myself concentrating on teaching [my children] more academic things. (They are [ages] 2 and 4)." Other participants reported bonding through more play time. For example, a mother described, "we have a lot more time to cook nice meals and play Legos together" (female, 32, homemaker). Participants explained that in addition to more quality time spent together, they had also been more reflective in their parenting role, which led to improvements in their parent—child relationships. A mother (33, homemaker) shared

It has been tricky to know if we need more structure or less structure. ... But we're not overwhelmed. I'm taking things easy and slow for them. I feel like this is really giving me time to reflect on their needs, what makes them each a person, and how can I support their development. I find myself thinking more about this on a different and deeper level than I did before. I'm also thinking a lot about what family values and culture I can create during this time.



Middle-Aged Adults

While COVID-19 brought up some challenges in family connections, some middle-aged adults conveyed that the public health restrictions had enhanced their parent-child relationships (15.29% men, 13.77% women). Participants remarked on how appreciative they were of the time they were spending together. Participants (10.59% men, 19.57% women) indicated that the pandemic did not just increase the quantity of time together, but also the quality of time spent in parent-child relationships. More parent-child quality time was reported by middle-aged adults who were homemakers (30.43%) than those who were part time employed (17.95%), full time employed (12.32%), unemployed (12.5% [n=1]), and disabled (25% [n=2]). The closures and cancelation of events created more downtime and parents explained, "we've had fun slowing down and spending all our time together" (female, 38, part time). A father (37, full time) explained that he experienced:

much more interaction than when I am at work for most of the day and [my children] are at school (their school has also been canceled for the foreseeable weeks). Not only is our interaction more frequent, but it has definitely led me to helping [my children] with ... their chores and doing other activities with them. Each day has become a Saturday! (at least in many ways)

Some participants (0.35% men, 8.70% women) explained that they had become more creative with their parent—child time— "we are reading together, playing games & cooking together" (female, 45, full time). Quality parent—child interactions also increased with older children who were not living at home via technology. In line with this sentiment, two mothers explained that the pandemic, "has affected my relationship with [my young adult children] for the better because we've had more in-depth conversations about the virus, but also life in general" (42, full time) and "I check up on them more and am very interested in how they are feeling/coping" (42, homemaker).

Older Adults

Older adults did not report that they had the opportunity to have more quality in-person time with their children during the early weeks of the pandemic. However, they did report that they had been "check[ing] on each other more frequently" (male, 72, unemployed) and "keeping in touch more and checking in more frequently" (female, 65, full-time) within their parent—child relationships. Older adults (25.00% men, 31.25% women) explained that various technology-based communication mediums have been used to keep in contact with their adult children "frequently",

"daily," and "more often." For instance, "[My adult children and I] keep in contact via Facebook" (male, 72, retired), and "We have Face Timed so we can 'see' [our adult children] and are checking in with each other more by phone and text and the Group Me App is being used even more" (female, 67, full time). Older adult parents reported things like, "I feel closer to [my adult children]" (female, 71, retired) and "Calling more often has allowed for sharing more feelings. Although, not directly about the pandemic" (female, 71, retired) as they discussed how the "closer contact" during the initial weeks of the pandemic had enhanced their parent—child relationships.

Discussion

The current study explored parent–child relationships in the context of the early weeks of the COVID-19 pandemic through parent perceptions. Bronfenbrenner (1994) indicated that development is influenced at the chronosystem level, which accounts for the sociohistorical conditions. COVID-19 is a unique sociohistorical condition for contemporary parent–child relationships (microsystem). It is imperative to investigate parent–child relationships during significant, on-going, and dramatic changes at a societal level to understand how these relationships are affected by such changes (Trommsdorff, 2006), and the COVID-19 pandemic significantly influenced day-to-day life across the world (Prime et al., 2020).

Nearly one third of the parents in this study believed that the early weeks of the COVID-19 pandemic did not lead to significant changes within their parent-child microsystems. Young adults explained that their children were young, did not understand what was happening, and already required more time for parental care. Where middle-aged adults indicated that they had established positive parent-child relationships prior to the pandemic and the pandemic did not change this. Some young and middle-aged adults did acknowledge that because of school closures and movement to remote work that they had more time in the homes together but did not feel this drastically changed anything in their parent-child relationships. Although, consistent with emerging pandemic research, more women reported increasing time spent with their children than men (Zamarro & Prados, 2021), and considering a mesosystem level, those adults who were students, part time employed, and homemakers also reported more time with children than those who were full time employed. Older adults also stated that their parent-child relationships remained unchanged during the early weeks of the pandemic. In line with typical adult development (Bjorklund, 2015), their children were adults who lived independently, and many expressed there



was already physical distance in their relationships prior to the pandemic.

Prime and colleagues (2020) postulated that the pandemic

increased demands on the parent—child dyad to negotiate topics that, prepandemic, may not have been problematic (e.g., use of shared spaces) or that were virtually nonexistent (e.g., new restrictions on activities such as going to playgrounds to uphold physical distancing). The effects of extended isolation and home confinement that are inherent to the COVID-19 crisis are causing profound changes to family routines and rituals that are often taken for granted ... (p. 634)

In line with this postulation, there were some parents in the young and middle-aged adult age groups who expressed difficulties at the parent–child microsystem and mesosystem levels (e.g., interactions between parent–child microsystem and parent-employment microsystem, interactions between parent–child microsystem and child-school microsystem) as they discussed having to adapt to taking on new roles, spending too much time together in the house and coping with fluctuations in patience and understanding. Zamarro and Prados (2021) concluded that, "women have carried a heavier load than men in the provision of childcare during the COVID-19 crisis, even while still working" (p. 11). In the current study, more young and middle-aged adult women shared that they had to balance new and existing roles than men.

Brown and colleagues (2020) stated, "The global COVID-19 pandemic is a stressor that originated outside of the family system but given the novelty and uncertainty concerning this disease, it is likely to be perceived as a significant stressor for many parents and children" (para. 3). Parents in the sample did perceive that both parents and children experienced some anxiety related to COVID-19 or related uncertainties. Within the adults' responses, there was evidence of awareness and concern with the bidirectional influence (Paschall & Mastergeorge, 2016) within the parent-child microsystems as they described the potential influence of their own stress and anxiety on their children and vice versa. Public health interventions (exo- and macrosystem levels) required more adaption—young adults largely focused on teaching children about preventing the spread of germs, where middle-aged adults focused their attention explaining and enforcing social distancing protocols with their children. Parents (more women than men) in early and middle adulthood explained that they had to be considerate about how to talk to their children about the virus, while also helping them understand and grieve/cope with missed events (e.g., birthday parties, moving home from college early).

Older adults reported that their adult children were concerned about their age and the potential health risks of the disease. These older adults indicated larger changes in the parent—child microsystem as they described experiencing a decreased amount of in-person time spent with their adult children during the early weeks of the pandemic and that this was related to the implementations of social distancing. As children age into adulthood, parent—child relationships become more reciprocal (Kirby & Hoang, 2018). This parent—child reciprocity was evidenced by adult children's concerns for parent health/implementation of public health interventions, the few parents who were concerned about their adult children's financial well-being, and the increased communication from adult children as reported by their parents.

Prime and colleagues (2020) reasoned that the impact of the COVID-19 pandemic would vary greatly by family. In line with this reasoning, some parents in this study highlighted that the parent—child microsystem experienced relational enhancement during the early weeks of the pandemic. Participants in the early and middle years of adulthood explained that they did not just spend more time with their children but also experienced more quality time (e.g., creative activities, helping children with chores/learning, talking/listening) with children as busy schedules slowed or stopped.

Vaterlaus and colleagues (2019) postulated that interactive technology could be an adaptive tool at the microsystem level to facilitate connection in a parent–child relationship when physically apart. Consistent with this postulation, participants with adult children (middle-aged and older adults) expressed enhanced parent–child relationships as they communicated more through a variety technology platforms and devices. Whitehead and Torossian (2021) reported that more older adult women than men viewed digital communication as a source of joy during the pandemic. In the current study, more women than men specifically addressed that they had engaged in more digital communication with their children during the early weeks of the pandemic.

Limitations

This study did have limitations and the results and implications should be considered with these limitations in mind. The study was cross sectional and only represented experiences from the initial weeks of the pandemic. Stressors build in families (McCubbin & Patterson, 1983) and parent—child relational experiences could be quite different after one year into the pandemic depending on the resources available within the family. The survey design allowed for data collection from a broad group of adults in a short period of time, but the use of one open-ended question in the survey did not allow for further probing or clarifying questions. In-depth interviews should be considered in follow-up studies. The study also had lower participation of older adults and did not



represent the experience of adults living in long-term care or assisted living facilities. The use of online recruitment and online surveys may have not reached older adults who do not use or experience lower comfortability with technology.

While the sampling procedure was appropriate for an exploratory study, a non-probability sample can limit the representativeness of the experiences. There was lower participation of people of color, most of the sample was employed (69% full time/part time employed) and had earned college degrees (73%). The COVID-19 pandemic has had a disproportionate impact on underrepresented racial groups and people with lower economic resources in the United States (Thakur et al., 2020), which may have a deleterious influence on parent-child relationships with the potential for increased stressors and lack of support from external resources during the pandemic (Brown et al., 2020). Further, only parent perceptions on the parent-child relationship were included. Future longitudinal research should aim to replicate this study with parents and children from a variety of racial groups, employment statuses, and educational/ income levels.

Implications and Future Research

Despite the limitations, the present study's approach acknowledged that parent-child relationships change over time (Stormshak et al., 2018) and that parent-child relationships should be studied in context when there are significant and on-going changes in society (Trommsdorff, 2006). Prime et al. (2020) indicated that the impact of the COVID-19 "pandemic on family well-being is presently unknown" (p. 631) and this study contributes to emerging knowledge. Further, most published studies with parent samples during the pandemic have focused solely on adults with school-aged children and parenting stress or burnout (Brown et al., 2020; Griffith, 2020; Hiraoka & Tomoda, 2020). It is of great importance to continue with these research topics to ensure the safety of parents and children, and it is also important to acknowledge that there is "considerable variability in how families will be impacted by the COVID-19 pandemic" (Prime et al., 2020 p. 634). The current study showed varied perceived impacts of the pandemic on parent-child relationships from the perceptions of young, middle-aged, and older adults during the first weeks of the pandemic. Some perceived no change while others perceived challenges or even relational enhancement. The focus of this study was on parent-child relationships during the early weeks of the pandemic. There is the potential for future large-scale public health crises and results in the current study may provide helpful implications and future research directions that could support parent-child relationships in the initial onset of similar crises.

Young and middle-aged adults may benefit from brief, accessible resources (e.g., instructional videos, infographics) regarding how to discuss the health crisis, non-pharmaceutical interventions, uncertainties, and grief in developmentally appropriate ways for children and adolescents. Parents in the current study were also concerned about how their own stress and anxiety around the pandemic were influencing their parent—child relationships. Many factors influence parenting and integrating some information about parenting self-care (Sanders, 2008) into these resources for helping children would be important. Further research with children and parents on what they perceived worked well in related parent—child discussions during this pandemic could strengthen and inform these resources.

It may be helpful to consider how the parent–child relationships become more reciprocal in late adulthood (Kirby & Hoang, 2018) when determining implications for supporting older adults in a future public health crisis. Older adults in this study appreciated the increased and more frequent connection with their adult children through technology. In terms of prevention, adult children could consider discussing with parents what technology they have and their comfortability using it. Helping parents acquire new technologies (e.g., chat applications, video chat platforms) if they do not have them and ensuring they know how to use them may promote continued connection within the parent–child relationships in the wake of a large-scale public health crises.

Further, future professionals who will provide services that support parent-child relationships continue to be trained during the pandemic. Hughes and colleagues (2020) indicated that as instructors in higher education adapt courses for teaching during the pandemic, they should ask themselves, "how could you use the current situation [the COVID-19 pandemic] to make learning more effective" (p. 237)? Educational standards set by the National Association of State Administrators of Family and Consumer Sciences (NASA-FACS; 2018) and National Council on Family Relations (NCFR; 2014) highlight the importance of educating students regarding contextual factors influencing individuals, families, and interpersonal relationships. Results from this study could be used in family science and human development courses to introduce concepts such as the influence of context and environment on parent-child relationships. Instructors should be clear that professionals supporting parents and children during public health crises should acknowledge and emphasize the diversity of parent-child experiences in adapting to such crises. For example, some parents (mostly mothers) expressed how the early weeks of the pandemic required them to balance existing responsibilities with new roles and students could be challenged to consider how future interventions could support these parents while promoting gender equity.



Again, this study was conducted during the early weeks of the pandemic in the United States and the pandemic is on-going— COVID-19 cases are rising (CDC, 2020a) and families continue to experience changes in routines and traditions with necessary public health precautions (Prime et al., 2020). Continued research on parent-child and family relationships is needed. The on-going pandemic may affect parent-child relationships at different stages of the pandemic. Emerging research is indicating that parents are experiencing compounded stressors and limited access to external resources for support (Brown et al., 2020). A family's positive adaption to a crisis and compounded stressors is more likely when there are helpful financial, relational, and emotional resources available (McCubbin & Patterson, 1983). Many parents in this study indicated that their parentrelationships were unchanged or improved during the early weeks of the pandemic—indicating some families were doing well or had utilized strengths during the pandemic.

One innovative research direction may be to utilize a family strengths approach (DeFrain & Asay, 2007) in future public health crisis research to identify what is working in parent-child relationships (e.g., how are parents successfully navigating challenges [e.g., anxiety, balancing roles]? how are adult children maintaining connection with their parents?) versus challenges or problems. The family strengths approach aims to identify what is working or what strengths are in a family and then uses the shared identified strengths to assist families from similar backgrounds. This research would require identifying parents within certain age groups from specific cultural groups who are navigating the current pandemic or future public health crises well. This approach could be a way to meaningfully inform parenting interventions by identifying strengths/factors that could be malleable.

Funding There is no funding to report for this project.

Data Availability The data are not publicly available.

Declarations

Conflicts of interests The authors report no conflicts of interest.

Ethical Approval University IRB approval was received for the study.

Consent to Participate and Publication Participants all completed an informed consent form where they agreed to participate and acknowledged that the research would be disseminated through publication.

References

Bjorklund, B. R. (2015). The journey of adulthood. Pearson.



Bronfenbrenner, U. (1979). *The ecology of human development*. MA Harvard University Press.

Bronfenbrenner, U. (1994). Ecological models of human development. In T. Husen & T. N. Pstelthwaite (Eds.), *International encyclopedia of education* (2nd ed., pp. 1643–1647). Elsevier Sciences.

Brown, S. M., Doom, J. R., Lechuga-Peña, S., Watamura, S. E., & Koppels, T. (2020). Stress and parenting during the global COVID-19 pandemic. *Child Abuse & Neglect*. https://doi.org/10.1016/j.chiabu.2020.104699

Centers for Disease Control and Prevention. (2020). CDC COVID data tracker. https://covid.cdc.gov/covid-data-tracker/#cases_casesinlas t7days. Accessed 25 Mar 2021.

Centers for Disease Control and Prevention. (2020). Coronavirus disease 2019 (COVID-19): Older adults. https://www.cdc.gov/coronavirus/2019-ncov/need-extra-precautions/older-adults.html. Accessed 20 Mar 2021.

Chandler, J., Rosenzweig, C., Moss, A. J., Robinson, J., & Litman, L. (2019). Online panels in social science research: Expanding sampling methods beyond Mechanical Turk. *Behavior Research Methods*, 51, 2022–2038. https://doi.org/10.3758/s13428-019-01273-7

Creswell, J. W. (2013). *Qualitative inquiry and research design*. Sage. DeFrain, J., & Asay, S. M. (2007). Strong families around the world: An introduction to the family strengths perspective. *Marriage and Family Review*, 41, 1–10. https://doi.org/10.1300/J002v41n01_01

DeVries, H. M., Kerrick, S., & Oetinger, M. (2007). Satisfactions and regrets of midlife parents: A qualitative analysis. *Journal of Adult Development*, 14(1), 6–15. https://doi.org/10.1007/s10804-007-9024-5

Goldberg, A. E., McCormick, N., & Virginia, H. (2021). Parenting in a pandemic: Work–family arrangements, well-being, and intimate relationships among adoptive parents. *Family Relations*, 70(1), 7–25. https://doi.org/10.1111/fare.12528

Griffith, A. K. (2020). Parental burnout and child maltreatment during the COVID-19 pandemic. *Journal of Family Violence*. https://doi.org/10.1007/s10896-020-00172-2

Hiraoka, D., & Tomoda, A. (2020). The relationship between parenting stress and school closures due to the COVID-19 pandemic. Psychiatry and Clinical Neurosciences, 74(9), 497–498.

Hsieh, H. F., & Shannon, S. E. (2005). Three approaches to qualitative content analysis. *Qualitative Health Research*, 15(9), 1277–1288.

Hughes, M. C., Henry, B. W., & Kushnick, M. R. (2020). Teaching during the pandemic? An opportunity to enhance curriculum. *Pedagogy in Health Promotion*, 6(4), 235–238.

Kirby, J. N., & Hoang, N. T. (2018). Parenting of adult children: A neglected area of parenting studies. In M. R. Sanders & A. Morawska (Eds.), Handbook of parenting and child development across the lifespan (pp. 653–675). Springer.

Koffman, J., Gross, J., Etkind, S. N., & Selman, L. (2020). Uncertainty and COVID-19: How are we to respond? *Journal of the Royal Society of Medicine*, 113(6), 211–216. https://doi.org/10.1177/ 0141076820930665

Mackenzie, C. S., Reynolds, K., Cairney, J., Streiner, D. L., & Sareen, J. (2012). Disorder-specific mental health service use for mood and anxiety disorders: Associations with age, sex, and psychiatric comorbidity. *Depression and Anxiety*, 29(3), 234–242. https://doi.org/10.1002/da.20911

Marchetti, D., Fontanesi, L., Mazza, C., Di Giandomenico, S., Roma, P., & Verrocchio, M. C. (2020). Parenting-related exhaustion during the Italian COVID-19 lockdown. *Journal of Pediatric Psychology*, 45(10), 1114–1123. https://doi.org/10.1093/jpepsy/jsaa093

McCubbin, H. I., & Patterson, J. M. (1983). The family stress process: The double ABCX model of adjustment and adaptation. *Marriage & Family Review*, 6, 7–37. https://doi.org/10.1300/J002v06n01_02

- Menter, K., Ritchie, T., Ogg, J., Rogers, M., Shelleby, E. C., Santuzzi, A. M., & Wendel, M. J. (2020). Changes in parenting practices during the COVID-19 pandemic: Child behavior and mindful parenting as moderators. *School Psychology Review*. https://doi.org/10.1080/2372966X.2020.1869497
- Mercier, J. M., Shelley, M. C., & Wall, B. (1997). Quality of adult child-aging parent relationships: A structural equations approach using merged cross-generational data. Family and Consumer Sciences Research Journal, 26(2), 160–192. https://doi.org/10.1177/ 1077727X970262004
- Mervosh, S., Lu, D., & Swales, V. (2020). See which states and cities have told residents to stay at home. New York Times. https://www. nytimes.com/interactive/2020/us/coronavirus-stay-at-home-order. html. Accessed 15 Apr 2020.
- National Association of State Administrators of Family and Consumer Sciences. (2018). National standards for Family and Consumer Sciences. LEADFCS. http://www.leadfcsed.org/national-standards.html. Accessed 1 Apr 2021.
- National Council on Family Relations. (2014). Family Life Education content areas. https://www.ncfr.org/sites/default/files/fle_content_areas_2014_0.pdf. Accessed 1 Apr 2021.
- Parke, R. D., & Crookston, J. T. (2019). Fathers and families. In M. H. Bornstein (Ed.), *Handbook of parenting: Being and becoming a parent* (Vol. 3, pp. 64–136). Routledge.
- Paschall, K. W., & Mastergeorge, A. M. (2016). A review of 25 years of research in bidirectionality in parent–child relationships: An examination of methodological approaches. *International Journal of Behavioral Development*, 40(5), 442–451. https://doi.org/10.1177/0165025415607379
- Pozzar, R., Hammer, M. J., Underhill-Blazey, M., Wright, A. A., Tulsky, J. A., Hong, F., Gunderson, D. A., & Berry, D. L. (2020). Threats of bots and other bad actors to data quality following research participant recruitment through social media: Cross-sectional questionnaire. *Journal of Medical Internet Research*. https://doi.org/10.2196/23021
- Prime, H., Wade, M., & Browne, D. T. (2020). Risk and resilience in family well-being during the COVID-19 pandemic. *American Psychologist*, 75(5), 631–643. https://doi.org/10.1037/amp00
- Sanders, M. R. (2008). Triple P-positive parenting program as a public health approach to strengthening parenting. *Journal of Family Psychology*, 22(4), 506–517. https://doi.org/10.1037/0893-3200. 22, 3 506
- Scott, S. R., Rivera, K. M., Rushing, E., Manczak, E. M., Rozek, C. S., & Doom, J. R. (2021). "I hate this": A qualitative analysis of adolescents' self-reported challenges during the COVID-19 pandemic. *Journal of Adolescent Health*, 68(2), 262–269. https://doi.org/10.1016/j.jadohealth.2020.11.010
- Shahid, Z., Kalayanamitra, R., McClafferty, B., Kepko, D., Ramgobin, D., Patel, R., Aggarwal, C. S., Vunnam, R., Shu, N., Bhatt, D., Jones, K., Golamari, R., & Jain, R. (2020). COVID-19 and older adults: what we know. *Journal of the American Geriatrics Society*, 68(5), 926–929.
- Singh, S., Shaikh, M., Hauck, K., & Miraldo, M. (2021). Impacts of introducing and lifting nonpharmaceutical interventions on COVID-19 daily growth rate and compliance in the United States.

- Proceedings of the National Academy of Sciences. https://doi.org/10.1073/pnas.2021359118
- Stormshak, E. A., DeVargas, E., & Cárdenas, L. E. (2018). Parenting practices and the development of problem behavior across the lifespan. In J. E. Lochman & W. Matthys (Eds.), *The Wiley handbook of disruptive and impulse-control disorders* (pp. 307–322). Wiley Blackwell.
- Thakur, N., Lovinsky-Desir, S., Bime, C., Wisnivesky, J. P., & Celedón, J. C. (2020). The structural and social determinants of the racial/ethnic disparities in the US COVID-19 pandemic. What's Our Role? American Journal of Respiratory and Critical Care Medicine, 202(7), 943–949. https://doi.org/10.1164/rccm. 202005-1523PP
- The White House. (2020). Proclamation on declaring a national emergency concerning the Novel Coronavirus Disease (COVID-19) outbreak. https://www.whitehouse.gov/presidential-actions/proclamation-declaring-national-emergency-concerning-novel-coronavirus-disease-covid-19-outbreak/. Accessed 15 Apr 2020.
- Trommsdorff, G. (2006). Parent-child relations over the lifespan: A cross-cultural perspective. In K. H. Rubin & O. B. Chung (Eds.), *Parenting beliefs, behaviors, and parent-child relations* (pp. 143–183). Psychology Press.
- Vaterlaus, J. M., Beckert, T. E., & Schmitt-Wilson, S. (2019). Parent–child time together: The role of interactive technology with adolescent and young adult children. *Journal of Family Issues*, 40(15), 2179–2202.
- Vaterlaus, J. M., Beckert, T. E., Tulane, S., & Bird, C. V. (2014). "They always ask what I'm doing and who I'm talking to": Parental mediation of adolescent interactive technology use. *Marriage & Family Review*, 50(8), 691–713. https://doi.org/10.1080/01494 929.2014.938795
- Vaterlaus, J. M., Spruance, L. A., & Patten, E. V. (2021). COVID-19 pandemic and social distancing in the United States: A mixedmethods study on lived experiences and well-being. *The Social Science Journal*. https://doi.org/10.1080/03623319.2020.1852856
- Vaux, D. E., & Asay, S. M. (2019). Supporting families in crisis: awareness and use of third places. Family and Consumer Sciences Research Journal, 48, 22–36. https://doi.org/10.1111/fcsr.12325
- Whitehead, B. R., & Torossian, E. (2021). Older adults' experience of the COVID-19 pandemic: A mixed-methods analysis of stresses and joys. *The Gerontologist*, 61(1), 36–47. https://doi.org/10.1093/geront/gnaa126
- Wilson, C. B. (2018). Parenting and career responsibilities during the later years. In M. R. Sanders & A. Morawska (Eds.), Handbook of parenting and child development across the lifespan (pp. 653– 675). Springer.
- Zamarro, G., & Prados, M. J. (2021). Gender differences in couples' division of childcare, work and mental health during COVID-19.
 Review of Economics of the Household, 19(1), 11–40. https://doi.org/10.1007/s11150-020-09534-7

Publisher's Note Springer Nature remains neutral with regard to jurisdictional claims in published maps and institutional affiliations.

