Experiences of Individuals Self-Directing Medicaid Home and Community-Based Services During COVID-19

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# Experiences of Individuals Self-Directing Medicaid Home and Community-Based Services During COVID-19

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Keywords: Medicaid, HCBS, self-direction, COVID-19

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1 2	Abstract
3	Background: In response to COVID-19, many state Medicaid Home and Community-Based
4	Services (HCBS) programs increased flexibilities and options for self-direction.
5	Objective: Our study sought to investigate the experiences of individuals self-directing during
6	COVID-19. In particular we explored the following areas: 1) How have individuals maintained
7	access to HCBS and workers?; 2) How have individuals maintained safety against COVID-19?;
8	and 3) How have individuals maintained their health and well-being?
9	Methods: We partnered with community-based and national disability organizations for
10	recruitment. We used a semi-structed interview guide to conduct remote interviews with 36
11	individuals from eleven states. The sample was diverse with regard to age, race/ethnicity, gender
12	and disability type.
13	Results: Three main themes emerged related to maintaining access to HCBS and direct care
14	workers: 1) Benefits of authority to hire and fire; 2) Benefits of ability to hire family members;
15	and 3) Fluctuations in needs and availability of workers. Two themes emerged related to
16	maintaining safety against COVID-19: 1) Strategies for staying safe with workers; and 2)
17 18	Barriers in public health and service system response. Three themes emerged related to maintaining health and well-being: 1) Barriers to basic needs; 2) Delaying needed care; and 3)
19	Use of telehealth and technology.
20	Conclusions: This study was among the first to examine the experiences of individuals self-
21	directing their HCBS during COVID-19. The flexibility of the model provided many benefits,
22	which have implications for future policy and practice. Findings also highlight barriers in
23	maintaining health and well-being during COVID-19, illustrating the importance of planning for
24	future public health emergencies.
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26	Keywords: Medicaid, HCBS, self-direction, COVID-19
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36	Introduction

37	Approximately 12 million Americans need long-term services and supports. <sup>1</sup> LTSS
38	include a wide range of services and supports that assist older adults and individuals with
39	disabilities with self-care and tasks of everyday living. Medicaid is the primary payer of formal
40	LTSS, financing approximately 62% of LTSS costs. <sup>2</sup> Most individuals needing LTSS desire to
41	receive supports at home. <sup>3</sup> The US Supreme Court's <i>Olmstead</i> decision <sup>4</sup> and federal programs
42	over the past decade have contributed to significant progress in shifting from services in nursing
43	homes and other institutional settings to home and community-based services (HCBS).
44	Nationally, over 56% of total Medicaid LTSS spending is now devoted to HCBS. <sup>5</sup>
45	Approximately 3.5 million individuals receive Medicaid HCBS. <sup>6</sup>
46	We know very little about the impact of COVID-19 on individuals receiving Medicaid
47	HCBS. While Congress mandated data collection and reporting on nursing homes, the Centers
48	for Medicare and Medicaid Services (CMS) has not reported COVID-related data for HCBS
49	beneficiaries. An emerging body of work has shown, however, that HCBS recipients have
50	struggled to maintain access to workers during the pandemic and obtain access to personal
51	protective equipment (PPE) for themselves and workers. <sup>7</sup>
52	HCBS beneficiaries are low-income individuals with disabilities and older adults who
53	have high rates of secondary chronic health conditions that place them at risks for COVID-19.8,9
54	HCBS recipients typically rely on in-home supports delivered by personal care attendants and
55	direct care workers, and thus have substantial rates of exposure. Some HCBS beneficiaries also
56	receive supports within congregate settings, such as group homes for individuals with intellectual
57	and developmental disabilities (IDD), and congregate adult day and habilitation settings.
58	Findings from states have indicated individuals with IDD receiving HCBS have experienced

higher rates of contracting COVID-19 and mortality than the general population. <sup>10,11</sup> While states
vary considerably in the design of their Medicaid HCBS programs, one model of service delivery
that has grown over the last several decades is self-direction. Self-direction provides individuals
receiving HCBS greater flexibility and control of services. Generally, there are two forms of self-
direction: 1) Individuals have control over hiring and supervising their personal care attendants
and direct care workers (employer authority); and 2) Individuals have control over an
individualized budget and decide what services and supports are purchased (budget authority).
An extensive body of literature, including evaluations of the Cash and Counseling
demonstrations, has highlighted the benefits of this model for individuals with disabilities and
family caregivers. 12,13 The last inventory of self-directed programs identified 265 programs
nationally (66% funded by Medicaid) with over 1.2 million participants enrolled. 14
In response to COVID-19, many state Medicaid programs have increased options for
self-direction and flexibilities within existing programs, such as greater ability to hire relatives. 15
Greater flexibility, choice and control, appear to be particular advantages of this model during
the COVID-19 pandemic. However, we currently know very little about the experiences of
individuals in such programs during the COVID-19 pandemic. Our study sought to explore the
following questions: 1) How have individuals maintained access to HCBS and workers?; 2) How
have individuals maintained safety against COVID-19?; and 3) How have individuals maintained
health and wellbeing?

82 Methods

we initially partnered with community-based disability organizations in five states
(Massachusetts, Texas, Illinois, Kansas, and California) to conduct recruitment of participants.
State selection was based on the following factors: extent of self-direction within the state,
racial/ethnic minority representation, rates of COVID-19 hospitalizations and deaths in the state
during the study period, and our access to community-based organizations to assist with
recruitment. While we initially focused on specific states that were heavily impacted by COVID-
19, we engaged in national outreach as the pandemic spread to virtually every community across
the country. Recruitment was subsequently conducted via distribution of information about the
study through newsletters and listservs of organizations with a national reach, including the
Administration for Community Living, Association of University Centers on Disabilities,
Applied Self-Direction, and the American Association on Health and Disability. Eligibility
criteria included: being at least eighteen years of age, receiving Medicaid-funded home and
community-based services, and self-directing those services.
The final sample consisted of 36 individuals receiving Medicaid HCBS in self-directed
programs. These individuals live in the following states: Texas (n=3), Kansas (n=4),
Massachusetts (n=11), California (n=5), New Jersey (n=1), Alaska (n=1), Ohio (n=2), North
Carolina (n=1), New York (n=2), Illinois (n=5), and Florida (n=1). We purposefully recruited to
obtain a diverse sample based on age, race/ethnicity, gender, and disability type. 16 More
specifically, we screened individuals who expressed interest in the study for demographic
information and selected individuals to achieve desired diversity. Participants reported that they
had several different types of disabilities, including cerebral palsy, physical disabilities,

traumatic brain injury, heart disease, obesity, cancer, depression, anxiety, autism, multiple sclerosis, and others. See Table 1 (below) for additional information about study participants.

107 Table 1108 Participant demographic information

	N (%)
Race	
White	20 (55.6%)
Black	9 (25%)
Hispanic / Latino	5 (13.9%)
Asian / Pacific Islander	3 (8.3%)
Gender	
Male	16 (44.4%)
Female	18 (50%)
Transgender / Non-Binary	2 (5.6%)
<b>Employment Status</b>	
Employed (full or part time)	13 (36.1%)
Unemployed or retired	23 (63.9%)
Residence	
Lives alone or with roommates	18 (50%)
Lives with family	12 (33.3%)
Lives with personal care assistant	3 (8.3%)
Missing	3 (8.3%)
Age	
18-39	14 (38.9%)
40-59	9 (25%)
60+	13 (36.1%)

We developed a preliminary, semi-structured interview guide with input from HCBS policy experts and individuals with disabilities that serve as advisors to the Community Living Policy Center at Brandeis University. The interview guide contained 9 open-ended questions concerning maintaining access to HCBS and direct care workers, access to personal protective equipment, impacts on health and well-being, and use of remote technology and strategies to stay

115	socially connected. Interview guide and informed consent processes were approved by the
116	university Institutional Review Board.
117	Interviews were conducted via telephone and video conferencing during a six-month
118	period of the COVID-19 pandemic from October 2020 to April 2021. Interviews were conducted
119	by three research staff, including one staff who is a researcher with disabilities who uses
120	Medicaid HCBS and self-directs. Accommodations were provided upon request, including
121	options for interviews in Spanish and American Sign Language. Interviews lasted approximately
122	one hour and individuals received a stipend (\$50 gift card) for their participation.
123	Interviews were professionally transcribed. Notes were also taken during interviews and
124	used in data analysis. We used qualitative software, ATLAS.ti, to assist with coding data.
125	Constant comparative analysis was used to develop a coding system and identify major themes,
126	guided by grounded theory. <sup>17</sup> These processes were driven by our specific research questions.
127	Coding was conducted by two research staff who also conducted interviews with participants.
128	Initial coding was conducted separately on a subset of interviews. Following this initial coding,
129	the research team convened to discuss discrepancies and further refine the coding scheme. The
130	research team continued to meet regularly and discuss emerging themes and subthemes. As a
131	member check, we shared preliminary findings with study participants to determine if our
132	analyses aligned with their experiences. <sup>18</sup>
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138	Results
139	Maintaining Access to HCBS and Workers
140	Three main themes emerged related to maintaining access to HCBS and direct care
141	workers: 1) Benefits of authority to hire and fire; 2) Benefits of ability to hire family members;
142	and 3) Fluctuations in needs and availability of workers.
143	Benefits of Authority to Hire and Fire
144	Several participants noted that their decision-making authority with regards to hiring and
145	firing enabled them to (a) select workers according to workers' exposure levels, and (b) enforce
146	guidelines for acceptable exposure. As one participant illustrated:
147 148 149 150 151	Oh, I had to get rid of somebody because they wouldn't go along with the mask and the hand washing and all that. They didn't think it was real, they thought it was just blown out of proportion. So, I had to dismiss that person which was a bummer.
152	Thus, this person was able to independently determine acceptable levels of risk, and fire
153	(or hire) accordingly, thus avoiding being forced to hire someone who put him in danger.
154	Similarly, another person shared the following:
155 156 157 158 159 160	We had to be able to say, 'If you don't do what we want you to do, we're going to have to fire you. We can't have you socializing in parties and stuff.' And because they're Filipino, and having parties with family and friends is part of their culture, so we knew it was really hard on them. But yeah, it's important that we could say that to them.
161	Fortunately, this person did not need to fire his workers, because they adhered to his
162	rules. However, because this person had the authority to fire them if he needed to, he was able to
163	enforce his own safety standards.
164	Benefits of Ability to Hire Family Members
165	Several participants also expressed benefits associated with hiring family members,
166	States have flexibility to dictate which family members may be hired within self-directed

programs. Most Medicaid HCBS authorities (except for state plan personal care services) allow	
for services to be provided by family members, including "legally responsible individuals," such	
as spouses or parents of minor children under specific circumstances <sup>19</sup> . Some states have waived	
those restrictions also allowing them to be hired under some circumstances. In our study, benefits	
associated with hiring family members included (a) the prevention of service gaps, (b) increased	
trust that the worker was invested in the participants' safety, and (c) enhanced social	
connectedness for the participant. Being able to hire family members prevented services gaps for	
many individuals during the COVID-19 pandemic, as one individual stated:	
Well, I have been able to keep the one that I have, and the only reason I've been able to keep her is because she's related to me. Had she not been related to me, she would have been out the door and on about her business, I'm pretty sure.	
Another individual expressed the level of intimacy and trust they had with family members:	
And you know, I've known her for years. Really, she's related to me. And she takes very, very good care of me. Very good care. Even with the pandemic she has her gloves on, she has her mask on. When she takes me to the store, she makes sure that I'm masked up and my gloves on and she's masked up. I mean she's good. I don't want nobody to come in my house and take her place. Nobody can come in and take her place.	
This person clearly expressed a high level of trust for her worker and the care that she provides.	
She alludes that this trust is at least partially due to their longstanding relationship (they are	
family members), and thus her ability to hire family members contributed to the sense of safety	
that she feels with her workers.	
Fluctuations in Needs and Availability of Workers	
COVID-19 contributed to a lot of fluctuation on needs and availability of workers. Some	
individuals did experience service gaps due to lack of available workers. It was challenging to	
find new workers during COVID-19, as one participant stated:	

195 196 197 198	Well, the biggest challenge is finding attendants. I think, well, if there's a lot of people unemployed, but I don't think they want to work in a situation like this or I don't know. It's been probably twice the difficulty of finding a good PCA.
199	Participants also experienced gaps in services when their workers became sick or there
200	was concern about potential exposure. Most often, there was no emergency back-up plan. So
201	most often individuals went without assistance. Others consciously chose not to bring in new
202	workers, even in instances where they were allotted more hours, due to potential exposure risks.
203	Another subtheme was the increased responsibilities of staff during this time due to new
204	COVID-related needs. As one participant illustrated:
205 206 207 208 209 210 211	The CDC started saying, "You know, you got to clean up these places, you got to keep the countertops clean, you got to wipe down the doorknobs, you got to wipe the lights." So, we started zooming in on, "Before you leave, make sure you wipe down that countertop with these disinfectant wipes and make sure the doorknobs are cleaned off and the telephones are wiped down, and all that," which took time away from what I normally had them working on.
212	Maintaining Safety Against COVID-19
213	Two main themes emerged from discussions with participants about maintaining safety
214	against COVID-19: 1) Strategies for staying safe with workers; and 2) Barriers in public health
215	and service system response.
216	Strategies for Staying Safe with Workers
217	Participants described several strategies and considerations related to maintaining safety
218	in the context of the COVID-19 pandemic. Participants described protocols that they developed
219	with their workers to reduce the likelihood of passing COVID-19 between the consumer and
220	their workers. These strategies included absences (i.e., "and even if she wakes up with a sniffle,

she doesn't come in to work") and workday routines. One participant described his routine with

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his workers as follows:

223 224 225 226 227 228 229	Every time they come in, that's part of the routine they have to do is to make sure those wipes come out and everything gets wiped down, and they have their gloves on, and they wash their hands all the time, and they have their masks on and all that stuff's in place. And it took a little while to implement that because it wasn't a habit, it wasn't a habit for some of these people — and it wasn't a habit for me always. So, yeah, it took some readjusting, but now we do it, we do it because we have to.
230 231	In some cases, participants reported that service agencies they were connected to provided
232	guidelines for how to maintain safety with workers. However, in most cases, consumers and their
233	workers developed their own routines.
234	Barriers in Public Health and Service System Response
235	Participants viewed access to PPE, testing, and vaccination for themselves and their
236	workers as critical, and they had diverse experiences with regard to ease of access. As one
237	participant stated:
238 239 240	Because at the beginning of the pandemic, there wasn't really easy way to access masks, and that's why we had to improvise in my mom making masks for us.
241	Another person shared that while she was easily able to access testing, it was more complicated
242	for her workers to get routinely tested.
243	Data collection occurred during the early roll out of the vaccine, and many participants
244	expressed frustration, ambiguities, and barriers in access for them and their workers. One person
245	said:
246 247 248 249	And I'm now worried about am I going to get the shot? I called my doctor's office. They keep saying they don't have the shot. I don't have a computer, so I can't go on and find out stuff.
250	Another person said,
251 252 253 254 255	Everything was just sort of set in stone for older people — which is fine — but I just feel young people with disabilities get forgotten; and for some people that aren't born with a disability, they don't realize that young people with disabilities exist, so then we just sort of have to—we get swept under the rug.

256	While some participants reported that agencies were helpful in providing access to
257	information and resources, many expressed that agencies could have been more helpful in this
258	regard. One person said,
259 260 261 262 263 264	It was more recently, like in the middle, kind of towards the beginning / middle. It just came. They didn't say it was coming. It just came, and then I got on the website and I saw everybody else was thanking them for the packages and stuff like that. So, I thought that was really neat because it was a lot of necessities that we really needed.
265	Maintaining Health and Well-being
266	Three main themes emerged from discussion about maintaining health and well-being: 1)
267	Barriers to basic needs; 2) Delaying needed care; and 3) Use of telehealth and technology.
268	Barriers to Basic Needs
269	COVID-19 changed the ways basic needs could be met including food and other items
270	that were made essential during the pandemic. Most individuals had to pay out-of-pocket for
271	personal protective equipment, hand sanitizer, and other items. These expenses comprised a
272	significant financial burden and jeopardized other basic needs. As one participant shared:
273 274 275	So, even out of what little income I have—which, for me, is just social security—I was buying better quality medical gloves on Amazon.
276	Another participant shared:
277 278 279 280	Ever since the pandemic, my income has gone down because I recently lost jobsI've dealt with, well still dealing with food insecurity right now, and then a lot of it is just trying to make ends meet when it comes to paying for just certain things
281 282	The COVID-19 pandemic also contributed to individuals experiencing rationing due to
283	scare resources. One participant shared experiencing scarcity in accessing essential medical
284	equipment that was also being used to treat people with COVID-19 in hospitals,
285 286	I've run into other issues, vent supplies. They've been rationing our vent supplies since the beginning. I knew this was going to happen the first week of March

287 288 289	I'm getting one vent circuit a month when I used to get one a week. So I've been getting constant, major airway infections ending up on IV antibiotics on a monthly basis.
290 291	Delaying Needed Care
292	Several participants spoke about the challenges and decisions that needed to be weighed
293	when considering routine health care. One participant stated:
294 295 296 297	I was supposed to go for a repeat scan on my breast back in March and because of the pandemic I put off the appointment, and I kept putting it off, but I should not have done that. I was just diagnosed this week with breast cancer.
298	Another participant mentioned similar decisions of avoiding routine check-ups for both
299	the direct care worker and themselves:
300 301 302 303 304	We both need dental work and we didn't do it at all because we were so afraid we'd get COVID if we went —because we have to have our dental work done in the hospital settingso we haven't done that and we haven't seen a doctor for an actual physical where they're right there with you now for over a year.
305	Many expressed fears of being hospitalized due to COVID and treatment of individuals
306	with disabilities in such settings. Some participants expressed considerable fears about ending up
307	in nursing facilities. As one individual shared:
308 309 310 311 312 313	Well, I had COVID in April. I was pretty sick, but because of some incredible support from a few of my aides at risk for themselves, I was able to stay at home. I'm pretty sureand others agree with methat although for my health, I mean I would have been better in some ways in the hospital, but I really don't think I would come out alive had I been in a hospital or any facility.
314	Many participants also shared stories of the impact of COVID on their mental well-being
315	One participant shared:
316 317 318 319 320	It's been very stressful – very stressful – and very isolating. I feel very isolated because I've just basically had to stay inside, stay away from the population. And I'm at very high risk for COVID—and I just didn't know what else to do but to stay at home and stay away from most of my family.

321	For some participants, the direct care worker they hired helped to strategize ways to
322	support mental health and well-being,
323 324 325 326 327 328 329 330	So, the pandemic kind of made us housebound for a while and very, very boring and just depressing at times. But my worker, we found ways around it, just the two of usBut we had to be very selective on where we went, and that really bothered me because we used to be able to jump in the vehicleBut the pandemic slowed that down for a while, my depression set in really bad, not being able to do a lot. But like I said, my worker found ways to help deal with that part and keep me going, and we found new ways to venture out without venturing out.
331 332	Use of Technology and Telehealth
333	Notably, telehealth access and the increased access to virtual ways of connection was a
334	welcomed change for many participants. As one individual stated:
335 336 337 338 339 340	I've been really grateful for telehealth mental health services. You know, I see my therapist once a week over Zoom and that's really kept me together. I think I would've fallen apart a while ago if I didn't have her and if I didn't have the ability to have that face-to-face contact.  Some individuals noted the benefits of telehealth for individuals with disabilities and
341	hoped it would continue to be available following the pandemic.
342 343 344 345 346 347	I have telehealth appointments with the doctors and I do therapy that way; and in all honesty, that is the best way for my, period. Because, for me, traveling is very difficult; I have a lot of health issues that make it really hard to get in and out of the van and wait out in the cold and whatever the elements are.  Many participants raised the ways technology added to their social connectedness while
348	still being able to conduct daily-living activities such as running errands,
349 350 351 352	I'm a very social person. And staying home has been really hard, you know. I can order what I need and what I want off of Amazon but it's not the same as like going to Target, you know, and being able to peruse the aisles."
353	Beyond the ease of accessing medical care, the increased use of online communication to
354	foster social networks was an additional experience that participants commented on:
355 356	I'm a member of a church and so everything went online. Everybody's Zooming and things. So now I can tune into the coffee hour and different things like that

357 358 359 360	which I didn't really do before because it was too early in the morning, I had to get it all together and get down. So that's been a real positive thing.
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382 Discussion

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This study was among the first to examine the experiences of individuals self-directing their HCBS during COVID-19. The inherent flexibility of the model provided many benefits. While some individuals experienced gaps in services and difficulty finding workers during COVID-19, for most, the ability to hire, particularly close friends and family members, seemed to assist individuals in maintaining supports during COVID-19. The use of family members seemed to be particularly prevalent among individuals from racial and ethnic minority backgrounds in our sample. Previous research has suggested greater interest in self-direction among some racial and ethnic minority groups;<sup>20</sup> there may be opportunities for self-direction to support health equity through the provision of culturally competent supports<sup>21</sup>. Control over hiring and managing workers also allowed individuals to adopt person-centered strategies to manage safety for themselves and workers and individualized decisions to limit potential exposure to COVID-19. Findings also highlight barriers which could help inform planning for future public health emergencies. Most individuals faced significant challenges in accessing to PPE, COVID-19 testing and vaccination, and other resources. Many felt they did not receive adequate resources and supports from the public health and formal service system. Individuals self-directing their services and supports may have fewer ties to formal agencies. Some individuals are in agency with choice models, where an agency is the primary employer and the individual is the managing employer. One strategy some states took during the COVID pandemic was distributing information and resources such as PPE through fiscal management services (FMS) agencies. While these entities primarily provide payroll assistance and accounting, they could serve as a key point of contact in reaching individuals and workers during emergencies. Some states expanded budget authorities and flexibilities to allow individuals to purchase PPE, additional

supplies and equipment, such as computers and other technology, to meet changing needs. <sup>22</sup>
While some individuals did not feel safe allowing new staff into their homes, emergency back up
plans and systems are also critical for planning for unexpected gaps in staff and workers. <sup>23</sup>
This study also has limitations which are important to note. Our recruitment approach,
initially through local disability organization and later through national outreach, resulted in
overrepresentation of participants from some states, particularly Massachusetts. Approximately
one third of the participants in the sample were age 60 or older, while the majority of self-
direction programs serve adults age 65 and older. Thus, while this research explores the
experience of a diverse group of adults who self-direct their Medicaid-funded HCBS, it is not
representative of the population of adults in self-directed Medicaid-funded HCBS programs. <sup>24</sup>
A second limitation pertains to our ability to assess whether participants were recruited from
budget or employer authority self-direction programs. While the interview guide included related
probes (i.e., "Do you recruit, hire, train and supervise your workers? Do you have a budget and
decide how to spend the money on services and supports?"), participants' responses did not
explicitly indicate specific program types. Responses to the question about budget authority were
unclear, perhaps due to unfamiliarity with this model or the way the question was asked. Based
on the information we obtained and additional follow up with participants we were able to
determine that at least 23 of the participants (64%) were in employer authority models.
Individuals within budget authority models have authority to set wages of individuals. In some
states, they may also have the ability to purchase items, equipment, and supports to meet their
needs. However, participants in our study primarily focused on their experiences hiring and
manage staff and did not share experiences using budget authority for purchasing additional
items and supports. Additional research is needed to understand how states and individuals in

self-directed programs with budget authority may have used this model during the pandemic to
maintain workers or purchase items such as PPE.

Additionally, data were collected prior to the vaccine rollout, and also during the initial phases of the rollout. Thus future research is needed in order to investigate how experiences were impacted by worker and consumer eligibility for vaccines. Finally, while we did ask about if and how services and supports changed during the pandemic, most participants discussed workers and related safety issues. We do not know if participants enrolled in self-directed programs prior to or during the pandemic. It will be important for future research to investigate how changes in program enrollments and policies persist in the post-COVID context. Despite these limitations, this study provides critical information about the experiences of adults with disabilities during the COVID-19 pandemic.

440 Conclusion

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Most expansions of self-direction and additional flexibilities to hire family members made during COVID-19 are temporary and tied to the end of the public health emergency. As states plan beyond COVID-19, policymakers should consider long-term changes in HCBS programs. Moreover, Congress provided \$12.7 billion in enhanced federal funding for HCBS through the American Rescue Plan enacted in January 2021 and the Biden Administration has proposed providing significant federal investment in HCBS.<sup>25</sup> These investments provide significant opportunities for states to improve access to self-directed HCBS and infrastructure to support self-direction. While not directly tied to self-direction, findings from this study highlight many barriers in maintaining health and well-being during COVID-19. For example, individuals indicated barriers to meeting basic needs such as food security, delaying needed care, stresses and impacts on mental health. In some cases, access to telehealth and technology facilitated access for participants. However, an important limitation of our study was that our methods limited participation to individuals who had access to technology and were also more likely connected to advocacy organizations. Data collection also occurred prior to the full roll out of the vaccine.

Continued research is needed to more fully understand the broad-based and ongoing impacts of

457 COVID-19 on the health and well-being of individuals with disabilities.

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