Supplementary Data Tables

 Table S1a: Reported Financial impact of COVID-19 pandemic on CF care team and care delivery (SoC1: Summer 2020)

	Total (n = 286)	Small (n = 113)	Medium (n = 105)	Large (n = 68)	Pediatric (n = 128)	Adult (n = 118)	Affiliate (n = 40)	P-value
Anticipated future support: I anticipate that institution / hospital support for the CF program will continue at the pre-pandemic level.								¹ 0.064 ² 0.583 ³ 0.024
Somewhat / strongly disagree	50 (17.5)	22 (19.5)	10 (9.5)	18 (26.5)	20 (15.6)	20 (16.9)	10 (25.0)	
Neither agree nor disagree	16 (5.6)	6 (5.3)	6 (5.7)	4 (5.9)	8 (6.3)	5 (4.2)	3 (7.5)	
Somewhat / strongly agree	220 (76.9)	85 (75.2)	89 (84.8)	46 (67.6)	100 (78.1)	93 (78.8)	27 (67.5)	
Current financial impact: Have members of your program been impacted by actions that your institution / hospital has taken such as:								
Any impact (% yes)	177 (61.9)	66 (58.4)	63 (60.0)	48 (70.6)	85 (66.4)	70 (59.3)	22 (55.0)	¹ 0.232 ² 0.326 ³ < 0.001
Re-deployed to other areas (% yes)	121 (68.4)	44 (66.7)	41 (65.1)	36 (75.0)	61 (71.8)	44 (62.9)	16 (72.7)	¹ 0.502 ² 0.443
Furloughs (% yes)	92 (52.0)	32 (48.5)	35 (55.6)	25 (52.1)	44 (51.8)	31 (44.3)	17 (77.3)	¹ 0.724 ² 0.026
Hiring freezes (% yes)	90 (50.8)	27 (40.9)	30 (47.6)	33 (68.8)	44 (51.8)	38 (54.3)	8 (36.4)	¹ 0.011 ² 0.332
Pay cuts (% yes)	61 (34.5)	14 (21.2)	23 (36.5)	24 (50.0)	29 (34.1)	27 (38.6)	5 (22.7)	¹ 0.006 ² 0.393
Layoffs (% yes)	18 (10.2)	11 (16.7)	3 (4.8)	4 (8.3)	6 (7.1)	4 (5.7)	8 (36.4)	¹ 0.073 ² <.001
Impact of COVID-response on quality: Do you believe your CF program is delivering the same level of quality care despite actions that your institution / hospital took to respond to COVID-19? (% yes)	127 (71.8)	47 (71.2)	52 (82.5)	28 (58.3)	61 (71.8)	47 (67.1)	19 (86.4)	¹ 0.019 ² 0.218 ³ 0.052

^{1 =} Analysis of dependent variable by program size; 2 = Analysis of dependent variable by program type.; 3 = Comparison between SoC1 and SoC2

Table S1b: Reported Financial impact of COVID-19 pandemic on CF care team and care delivery (SoC2: Spring 2021)

	Total (n = 280)	Small (n = 108)	Medium (n = 104)	Large (n = 68)	Pediatric (n = 127)	Adult (n = 115)	Affiliate (n = 38)	P-value
Anticipated future support: I anticipate that institution / hospital support for the CF program will continue at the pre-pandemic level. (n (%))	(: =55)	(** 100)	(** 10.)	(55)	(=.)	((33)	1 0.445 2 0.054 3 0.024
Somewhat / strongly disagree	30 (10.7)	11 (10.2)	8 (7.7)	11 (16.2)	12 (10.7)	15 (13.0)	3 (7.9)	
Neither agree nor disagree	13 (4.6)	5 (4.6)	4 (3.8)	4 (5.9)	1 (0.8)	9 (7.8)	3 (7.9)	
Somewhat / strongly agree	237 (84.6)	92 (85.2)	92 (88.5)	53 (77.9)	114 (89.8)	91 (79.1)	32 (84.2)	
Current financial impact: Have members of your program been impacted by actions that your institution / hospital has taken such as: (n (% yes))								
Any impact (% yes)	117 (41.8)	45 (41.7)	41 (39.4)	31 (45.6)	53 (41.7)	46 (40.0)	18 (47.4)	¹ 0.725 ² 0.727 ³ <0.001
Re-deployed to other areas (% yes)	83 (70.9)	32 (71.1)	26 (63.4)	25 (80.6)	35 (66.0)	33 (71.7)	15 (83.3)	¹ 0.280 ² 0.373
Furloughs (% yes)	39 (33.3)	13 (28.9)	13 (31.7)	13 (41.9)	15 (28.3)	18 (39.1)	6 (33.3)	¹ 0.477 ² 0.522
Hiring freezes (% yes)	48 (41.0)	18 (40.0)	14 (34.1)	16 (51.6)	24 (45.3)	19 (41.3)	5 (27.8)	¹ 0.323 ² 0.427
Pay cuts (% yes)	27 (23.1)	9 (20.0)	9 (22.0)	9 (29.0)	13 (24.5)	12 (26.1)	2 (11.1)	¹ 0.641 ² 0.417
Layoffs (% yes)	13 (11.1)	7 (15.6)	5 (12.2)	1 (3.2)	6 (11.3)	3 (6.5)	4 (22.2)	¹ 0.235 .199
Impact of COVID-response on quality: Do you believe your CF program is delivering the same level of quality care despite actions that your institution / hospital took to respond to COVID-19? (n, % yes)	94 (80.3)	40 (88.9)	36 (87.8)	18 (58.1)	47 (88.7)	31 (67.4)	16 (88.9)	¹ <0.001 ² 0.018 ³ 0.052

^{1 =} Analysis of dependent variable by program size; 2 = Analysis of dependent variable by program type. 3 = Comparison between SoC1 and SoC2

Table S2: Impact of COVID-19 pandemic on licensure of CF clinical care staff and care delivery

	Total	Small	Medium	Large	Pediatric	Adult	Affiliate	P-value
	(n = 286)	(n = 113)	(n = 105)	(n = 68)	(n = 128)	(n = 118)	(n = 40)	· varao
Out-of-state patients: Does your								
program have patients located in a state								1<0.001
other than where your program is								² <.001
located? (% yes)	199 (70.3)	67 (60.9)	73 (69.5)	59 (86.8)	84 (66.1)	97 (82.9)	18 (46.2)	
Approximate % of patients out-of- state; (Median; Inter-quartile range)	6 (3-15)	7 (2-14)	5 (2-15)	10 (5-20)	6.5 (3-15)	7 (3-15)	4 (1-26)	
Availability of licensing waivers: Are								10005
licensing waivers available in states								¹ 0.005 ² 0.117
where your out-of-state patients live?								-0.117
All	49 (24.6)	21 (31.3)	17 (23.3)	11 (18.6)	25 (29.8)	17 (17.5)	7 (38.9)	
Some	48 (24.1)	12 (17.9)	11 (15.1)	25 (42.4)	23 (27.4)	24 (24.7)	1 (5.6)	
None	16 (8)	6 (9)	5 (6.8)	5 (8.5)	4 (4.8)	10 (10.3)	2 (11.1)	
Don't know	86 (43.2)	28 (41.8)	40 (54.8)	18 (30.5)	32 (38.1)	46 (47.4)	8 (44.4)	
Completion of waivers: Did your								10.256
program complete any licensing waivers?	57 (58.8)	17 (51.5)	15 (53.6)	25 (69.4)	29 (60.4)	27 (65.9)	1 (12.5)	² 0.019
Have your program's clinical care team								
members obtained out-of-state licensure								10.051
to deliver telehealth services to								² 0.041
patients?								
Yes, for all states	14 (7)	6 (9)	2 (2.7)	6 (10.2)	8 (9.5)	2 (2.1)	4 (22.2)	
Yes, for some states	43 (21.6)	16 (23.9)	12 (16.4)	15 (25.4)	20 (23.8)	22 (22.7)	1 (5.6)	
No states	114 (57.3)	34 (50.7)	44 (60.3)	36 (61)	46 (54.8)	58 (59.8)	10 (55.6)	
Don't know	28 (14.1)	11 (16.4)	15 (20.5)	2 (3.4)	10 (11.9)	15 (15.5)	3 (16.7)	
Proportion of care programs with any								
out-of-state patients not able to access								1<0.00
telehealth services due to issues related								² 0.414
to licensure of your program's clinical								0.414
team members	37 (20.1)	3 (4.9)	14 (19.7)	20 (38.5)	15 (19.7)	21 (22.3)	1 (7.1)	

^{1 =} Analysis of dependent variable by program size; 2 = Analysis of dependent variable by program type

Table S3: Availability to provide telehealth services* (SoC1: Summer 2020)

,	available to		No, telehealth services not reimbursable		restrictions		to access telehealth		1 '		No, furloughed	
Physician (MD)	142	98%	1	0.7%	1	0.7%	1	0.7%				
Registered nurse (RN)	97	67%	40	28%	3	2%	4	3%			1	0.7%
Registered dietitian (RD)	105	72%	28	19%	4	3%	5	3%	3	2%		
Social work (SW)	90	62%	36	25%	10	7%	6	4%	2	1%	1	0.7%
Respiratory therapist (RT)	83	57%	40	28%	5	3%	7	5%	10	7%		

Table S4: Reported differences with telehealth reimbursement (SoC1: Summer 2020)

	Total (n = 286)	Small (n = 113)	Medium (n = 105)	Large (n = 68)	Pediatric (n = 128)	Adult (n = 118)	Affiliate (n = 40)	P-value
Reimbursement: How does reimbursement for telehealth services compare to equivalent in-person services (e.g., routine visit with physician)? (n, %)								¹ 0.366 ² 0.954
Somewhat more	1 (0.4)	0 (0)	0 (0)	1 (1.9)	1 (0.9)	0 (0)	0 (0)	
About the same	141 (61.8)	50 (58.1)	57 (64)	34 (64.2)	67 (63.2)	58 (61.1)	16 (59.3)	
Somewhat less	54 (23.7)	22 (25.6)	23 (25.8)	9 (17)	23 (21.7)	24 (25.3)	7 (25.9)	
Much less	32 (14)	14 (16.3)	9 (10.1)	9 (17)	15 (14.2)	13 (13.7)	4 (14.8)	
On average what percent less are telehealth services reimbursed than inperson services? Median; Inter-quartile range	25.0 (20-47)	27.5 (20-45)	25 (18-45)	30 (20-60)	25 (20-50)	30 (20-50)	25 (20-30)	¹ 0.722 ² 0.452
What effect has less reimbursement for telehealth services had on your program? Clinical team members are (n, %)								
Spending less time with patients	22 (25.6)	9 (25)	10 (31.3)	3 (16.7)	9 (23.7)	11 (29.7)	2 (18.2)	¹ 0.523 ² 0.697
Not able to see patients	23 (26.7)	9 (25)	8 (25)	6 (33.3)	7 (18.4)	15 (40.5)	1 (9.1)	¹ 0.777 ² 0.035
Laid off	1 (1.2)	0 (0)	0 (0)	1 (5.6)	0 (0)	1 (2.7)	0 (0)	N/A
Furloughed	14 (16.3)	7 (19.4)	5 (15.6)	2 (11.1)	8 (21.1)	3 (8.1)	3 (27.3)	¹ 0.731 ² 0.181
Re-deployed to other duties	18 (20.9)	7 (19.4)	5 (15.6)	6 (33.3)	10 (26.3)	5 (13.5)	3 (27.3)	¹ 0.322 ² 0.339

^{1 =} Analysis of dependent variable by program size; 2 = Analysis of dependent variable by program type