

**The Association Between Food Insecurity and Mental Health during the COVID-19
Pandemic**

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supplementary file

Table S1: Summary Statistics

	Full		SNAP		18-39		40-59		60+		Children		No Child		Black		Hisp.		White	
	m.	s.d.	m.	s.d.	m.	s.d.	m.	s.d.	m.	s.d.	m.	s.d.	m.	s.d.	m.	s.d.	m.	s.d.	m.	s.d.
	2714		1214		1102		717		895		887		1827		857		653		1130	
Depression	8.2	7.3	9.1	7.2	11.0	7.3	8.2	7.1	4.7	5.7	10.2	7.4	7.2	7.0	7.8	7.2	9.6	7.3	7.6	7.2
Anxiety	6.5	6.2	7.4	6.4	8.9	6.2	6.8	6.2	3.4	4.7	8.5	6.4	5.6	5.9	6.1	6.1	7.9	6.3	6.1	6.3
Food	0.5	0.5	0.6	0.5	0.7	0.5	0.6	0.5	0.3	0.5	0.7	0.5	0.4	0.5	0.5	0.5	0.6	0.5	0.5	0.5
Insecure																				
Lost	0.2	0.4	0.2	0.4	0.3	0.5	0.2	0.4	0.1	0.2	0.3	0.5	0.1	0.4	0.2	0.4	0.3	0.4	0.1	0.3
Job																				
Income	0.6	0.5	0.6	0.5	0.4	0.5	0.6	0.5	0.9	0.3	0.5	0.5	0.7	0.5	0.6	0.5	0.5	0.5	0.7	0.4
Stable																				
SNAP	0.4	0.5	1.0	0.0	0.5	0.5	0.5	0.5	0.4	0.5	0.6	0.5	0.4	0.5	0.5	0.5	0.4	0.5	0.4	0.5
Add.	0.2	0.4	0.5	0.5	0.3	0.4	0.3	0.4	0.2	0.4	0.3	0.5	0.2	0.4	0.3	0.5	0.2	0.4	0.2	0.4
SNAP																				
Add.	0.0	0.1	0.1	0.2	0.1	0.1	0.0	0.1	0.0	0.1	0.1	0.2	0.0	0.1	0.1	0.1	0.0	0.1	0.0	0.1
SNAP																				
Amt.																				
WIC	0.1	0.3	0.1	0.4	0.2	0.4	0.0	0.2	0.0	0.1	0.2	0.4	0.0	0.2	0.1	0.3	0.1	0.3	0.1	0.2
Alt.	0.2	0.4	0.2	0.4	0.3	0.5	0.1	0.3	0.0	0.2	0.4	0.5	0.0	0.2	0.2	0.4	0.2	0.4	0.1	0.3
Meals																				
Char.	0.3	0.5	0.4	0.5	0.4	0.5	0.3	0.5	0.2	0.4	0.4	0.5	0.3	0.4	0.4	0.5	0.3	0.5	0.2	0.4
Food																				
Unemp.	0.1	0.3	0.1	0.3	0.2	0.4	0.1	0.3	0.0	0.2	0.1	0.3	0.1	0.3	0.1	0.3	0.1	0.4	0.1	0.2
Benefit																				

Table S1: Summary Statistics

	Full	SNAP	18-39	40-59	60+	Children	No Child	Black	Hisp.	White										
Stimulus	0.7	0.4	0.8	0.4	0.9	0.3	0.7	0.5	0.7	0.5	0.8	0.4								
Female	0.7	0.4	0.7	0.4	0.7	0.4	0.8	0.4	0.7	0.4	0.7	0.5								
Age	46.8	18.6	45.2	17.4	27.3	6.3	50.0	6.2	68.3	5.7	36.2	13.4	51.9	18.6	44.1	18.5	37.9	15.9	54.4	17.3
Pop.<1k	0.2	0.4	0.2	0.4	0.1	0.3	0.2	0.4	0.2	0.4	0.1	0.4	0.2	0.4	0.1	0.3	0.1	0.3	0.2	0.4
Pop.1-100k	0.4	0.5	0.4	0.5	0.4	0.5	0.4	0.5	0.4	0.5	0.5	0.5	0.4	0.5	0.4	0.5	0.4	0.5	0.5	0.5
Pop.>100k	0.4	0.5	0.4	0.5	0.4	0.5	0.4	0.5	0.4	0.5	0.4	0.5	0.4	0.5	0.5	0.5	0.5	0.5	0.3	0.5
Married	0.2	0.4	0.2	0.4	0.2	0.4	0.3	0.4	0.2	0.4	0.3	0.5	0.2	0.4	0.2	0.4	0.3	0.4	0.3	0.4
Num. Children	0.6	1.0	0.8	1.1	1.0	1.2	0.6	1.0	0.1	0.5	1.8	1.0	0.0	0.0	0.6	1.0	0.8	1.1	0.5	0.9
Black	0.3	0.5	0.4	0.5	0.3	0.5	0.3	0.5	0.3	0.4	0.3	0.5	0.3	0.5	1.0	0.0	0.0	0.0	0.0	0.0
Hispanic	0.2	0.4	0.2	0.4	0.4	0.5	0.2	0.4	0.1	0.3	0.3	0.5	0.2	0.4	0.0	0.0	1.0	0.0	0.0	0.0
White	0.4	0.5	0.4	0.5	0.3	0.4	0.4	0.5	0.6	0.5	0.3	0.5	0.5	0.5	0.0	0.0	0.0	0.0	1.0	0.0
Less High School	0.1	0.2	0.1	0.3	0.1	0.2	0.1	0.2	0.0	0.2	0.1	0.2	0.0	0.2	0.1	0.2	0.1	0.2	0.0	0.2
High School	0.3	0.5	0.3	0.5	0.4	0.5	0.3	0.5	0.3	0.5	0.4	0.5	0.3	0.5	0.3	0.5	0.3	0.5	0.4	0.5
Some College	0.4	0.5	0.4	0.5	0.4	0.5	0.4	0.5	0.4	0.5	0.4	0.5	0.4	0.5	0.4	0.5	0.5	0.5	0.4	0.5
College Higher	0.2	0.4	0.2	0.4	0.2	0.4	0.2	0.4	0.2	0.4	0.2	0.4	0.2	0.4	0.2	0.4	0.2	0.4	0.2	0.4
<\$15,000	0.3	0.5	0.4	0.5	0.4	0.5	0.4	0.5	0.3	0.4	0.3	0.4	0.4	0.4	0.5	0.4	0.5	0.3	0.5	0.3

Table S1: Summary Statistics

	Full	SNAP	18-39	40-59	60+	Children	No Child	Black	Hisp.	White
\$15k-\$29,999	0.4	0.5	0.4	0.5	0.6	0.4	0.5	0.4	0.5	0.5
\$30k-\$44,999	0.2	0.4	0.1	0.3	0.2	0.3	0.4	0.1	0.3	0.4
>\$45,000	0.0	0.2	0.1	0.2	0.0	0.1	0.3	0.0	0.1	0.2
Food	0.1	0.3	0.1	0.3	0.1	0.2	0.4	0.1	0.3	0.3
Dessert										

Table S2: Odds Ratio for Anxiety by Subsample

	<i>Dependent variable: Anxiety</i>								
	SNAP	age18-39	age40-59	age60+	children	no-children	black	hispanic	white
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
Food Insecure	3.64***	3.62***	3.41***	4.15***	4.36***	3.35***	3.60***	3.99***	3.54***
Lost Job	1.25	1.30*	1.43	1.53	1.22	1.42*	1.21	1.23	1.56*
Income Stable	0.89	0.87	0.98	0.77	0.93	0.86	0.80	0.94	1.08
SNAP		1.24	1.30	0.73	1.06	1.19	1.35	1.10	1.14
Add.SNAP	1.01	0.81	1.24	1.22	0.99	0.98	1.17	0.90	0.86
WIC	0.94	0.98	0.99	2.81	1.11	0.56*	1.08	0.68	0.71
Alt. Meals	1.08	1.15	1.41	0.47	1.21	1.04	1.04	1.10	0.99
Chari. Foods	1.15	1.38*	1.22	1.69**	1.20	1.56***	1.39*	1.71**	1.25
Unemp. Benefit	0.92	0.89	0.84	1.21	1.09	0.76	0.90	0.92	0.71
Stimulus	1.00	1.05	0.95	0.86	0.81	1.20	0.89	1.18	1.08
Female	1.24	1.32*	1.32	1.03	1.42*	1.19	1.08	1.76**	1.09
Age	0.96***				0.97***	0.97***	0.97***	0.97***	0.96***
Pop.> 100k	0.73	0.73	0.77	0.65	0.53**	0.85	0.77	0.53*	0.77
Pop.1k-100k	0.84	0.81	0.68	1.27	0.59**	1.02	0.79	0.67	0.99
Married	0.87	0.70*	0.89	0.84	0.84	0.90	0.78	0.94	0.88
Children	1.03	1.09	1.02	1.28			1.14	1.04	1.10
Black	1.06	1.14	0.88	0.55	1.47	0.78			
Hispanic	1.33	1.40	1.95	0.81	2.33*	1.12			
White	1.46	1.38	1.54	0.92	2.36*	1.21			
High School	1.25	1.41	1.12	0.51	0.78	1.19	1.06	1.39	0.91
Some College	1.51	1.98*	1.31	0.58	1.08	1.38	1.28	2.20*	0.96
College Higher	1.22	1.47	1.36	0.77	0.93	1.43	1.09	1.66	1.24
15k-29,999	0.87	0.85	0.95	1.27	1.12	0.94	1.03	0.80	1.03
30k-44,999	0.79	0.94	0.90	1.44	1.06	1.02	1.12	1.03	0.87
>45k	0.89	0.91	0.47	0.14	0.66	1.48	1.28	0.49	0.54
Food Dessert	1.01	1.18	1.01	0.91	0.88	1.19	1.11	1.18	0.94
Observations	1,210	1,101	712	893	883	1,823	856	648	1,128

Note: *p<0.05; **p<0.01; ***p<0.001

Table S3: Odds Ratio for Depression by Subsample

	<i>Dependent variable: Depression</i>								
	SNAP	age18-39	age40-59	age60+	children	no-children	black	hispanic	white
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
Food Insecure	3.50***	3.81***	3.52***	4.00***	4.03***	3.42***	3.21***	3.71***	3.76***
Lost Job	1.30	1.18	1.39	1.95*	1.28	1.30	1.30	1.20	1.36
Income Stable	0.70**	0.72**	0.86	0.76	0.80	0.75**	0.74*	0.77	0.89
SNAP		1.27	1.10	0.93	1.10	1.09	1.19	1.21	1.03
Add.SNAP	1.02	0.82	1.16	1.17	0.92	1.07	1.24	0.72	1.01
WIC	0.97	0.97	1.01	1.91	1.04	0.61	1.15	0.61*	0.90
Alt. Meals	1.07	1.20	1.47	0.22*	1.12	1.35	1.14	1.25	0.95
Chari. Foods	1.22	1.31*	1.18	1.77**	1.11	1.60***	1.20	1.50*	1.53**
Unemp. Benefit	0.76	0.98	0.82	0.83	1.16	0.73	1.05	0.85	0.69
Stimulus	1.08	1.00	0.91	0.92	0.83	1.11	0.88	1.20	0.93
Female	1.01	1.21	1.30	0.85	1.34	1.05	0.84	1.65**	1.06
Age	0.96***				0.97***	0.97***	0.97***	0.97***	0.97***
Pop.> 100k	0.80	0.78	0.97	0.99	0.67*	1.06	0.78	0.90	0.97
Pop.1k-100k	0.85	0.77	0.81	1.36	0.67*	1.08	0.70	1.00	1.06
Married	0.94	0.75*	0.87	0.80	0.89	0.89	0.72	0.85	0.97
Children	0.96	1.02	0.97	1.32			1.07	1.06	0.99
Black	0.84	1.03	0.63	1.27	1.33	0.70			
Hispanic	1.02	1.20	1.25	1.54	2.02*	0.89			
White	1.19	1.25	1.05	2.21	2.02*	1.14			
High School	1.19	1.17	0.88	0.88	0.92	1.07	1.26	1.26	0.82
Some College	1.44	1.30	1.06	1.05	1.12	1.18	1.39	1.49	0.92
College Higher	1.23	1.10	0.74	1.29	1.04	1.09	1.28	1.10	1.00
15,000-29,999	0.86	0.72*	0.89	1.43*	0.82	0.98	1.03	0.66*	1.01
30,000-44,999	1.00	0.91	0.95	1.55	0.88	1.13	1.13	0.93	0.98
>45,000	0.80	0.80	0.47	0.27	0.56*	1.17	1.07	0.43*	0.58
Food Dessert	0.93	0.92	0.76	0.94	0.76	0.94	0.80	1.37	0.83
Observations	1,210	1,101	712	893	883	1,823	856	648	1,128

Note: *p<0.05; **p<0.01; ***p<0.001