

Recent Evidence of Racial and Ethnic Disparities in Mental Health Outcomes and Utilization Among Adolescents in the U.S

BACKGROUND

- In 2021, approximately 3.7 million U.S. adolescents aged 12 to 17 experienced at least one major depressive episode in the past year, accounting for 14.7% of this age group.
- Racial and ethnic disparities in mental health have been well-documented.
- Despite the worsening mental health crisis among adolescents, emerging evidence suggests factors that may help mitigate the situation.

OBJECTIVE

- The objective of this study is to investigate the patterns of racial and ethnic disparities in mental health use, social support, and telemedicine use among U.S. adolescents from 2019 to 2022.
- We hypothesize that although mental health issues have worsened for all races and ethnicities since the pandemic, adolescents from minority groups still face significantly lower chances of receiving mental health services.

DATA AND MEASURES

Data:

- The study used the 2019-2022 National Health Interview Survey's Sample Child Interview.
- Sample: Adolescents (aged 12 to 17).

The outcome measures :

- Mental health utilizations which include whether an adolescent (a) took prescription medication for their emotions, concentration, behavior, or mental health, (b) received counseling or therapy from a mental health professional such as a psychiatrist, psychologist, psychiatric nurse, or clinical social worker, and (c) received both therapy and medication in the last year.
- We also examined (a) whether the adolescent received community support, defined as whether there is at least one adult, other than parents or adults living in their home, in their school, neighborhood, or community who makes a positive and meaningful difference in their life, and (b) whether an adolescent always, usually, sometimes, rarely, or never received social or emotional support when needed. We created a variable that equaled 1 if always and 0 otherwise.
- The last outcome is whether an adolescent had an appointment (for any medical appointment) with a doctor, nurse, or other health professional by video or phone in the previous year.

	0.7	
	0.6	
	0.5	
	0.4	
	0.3	
	0.2	
	0.1	
•	0	
•		
•		
ł		
	0.8	
	0.7	
	0.6	
	0.5	
	0.4	

0.2

Race a White Black Hispani Asian female age US-born Self-rep Fair and health excellen good he good he never fe depress Family i <100% 100-200 200-400 above 4 Max edu No high High sch College Graduate Parent r Married Insuranc Uninsur Private i Public in Other in rural Year 2019 2020 2021 2022 Constan

William Youkang Zhou¹, Luisa Franzini², PhD. Arturo Vargas Bustamante, PhD³ ¹Walt Whitman High School, Maryland

²Department of Health Policy and Management, University of Maryland at College Park ³Department of Health Policy and Management, UCLA Fielding School of Public Health

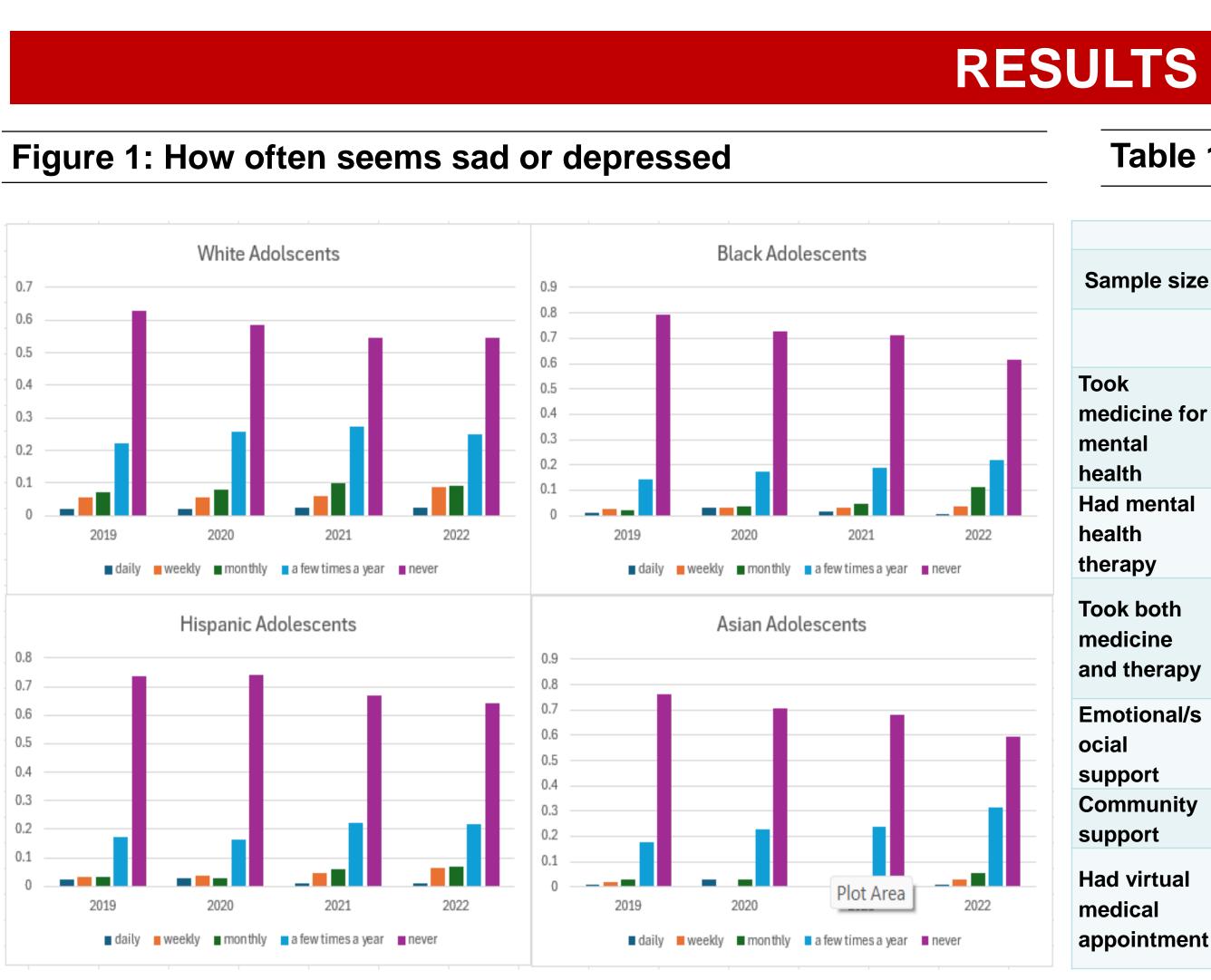


Table 2: : Racial and ethnic disparities in mental health care utilization among US adolescents

	Took med for mental													Emotio	onal/so	cial sur	port	Pro	esence	of com	munity				
	health				erapy				d and th			Had any virtual care				Emotional/social support available				Presence of community support					
	OR	959	%CI	р	OR	95%	%CI	р	OR	959	%CI	р				6,150			N=5,					=5,403	
and ethnicity		Dof	oronoo			rofe	ropoo			ro	foronoo			OR		%CI	р	OR	95%		p	OR		%CI	р
;	0.45		erence 0.61	<0.001	0.60		erence 0.80	<0.001	0 55		eference 0.80	<0.001	Race and				٢	ÖN	007		٢	OR			Ρ
nic	0.45 0.44	0.33	0.56	<0.001	0.00	0.45 0.58	0.80	<0.001	0.55 0.58	0.38 0.43	0.80	<0.001 <0.001	White	refere			ro	ference				referen	<u>6</u>		
	0.44	0.33	0.30	<0.001	0.70	0.30	0.34	<0.001	0.30	0.43	0.38	<0.001	Winte	TCICIC			10					TCICICICI			
<u> </u>	0.72	0.61	0.20	<0.001	1.06	0.10	1.23	0.42	0.20	0.75	1.10	0.34	Black	0.59	0.41	0.86	0.01 1.2	22 0.	.91	1.65	0.19	0.69	0.47	1.03	0.07
<i>,</i>	1.05	1.01	1.10	0.02	1.00	0.97	1.06	0.54	1.08	1.02	1.14	0.04	DIACK	0.59	0.41	0.00	0.01 1.		.91	1.05	0.19	0.09	0.47	1.05	< 0.001
orn	1.31	0.79	2.19	0.30	1.25	0.84	1.86	0.27	1.13	0.66	1.94	0.65	Hisponio	0.90	0 72	1 00	0.25 0.1		60	1 07	0.16	0.24	0.25	0.45	<0.001
eported health		011 0		0100				0121		0100		0100	Hispanic	0.89	0.72	1.09	0.25 0.8	00 U.	.69	1.07	0.16	0.34	0.25	0.45	<0.001
nd poor													Asian	0 50	0.40	0.96	0.01 0.	71 0	50	0.00	0.04	0.00	0.15	0.24	<0.001
		Ref	erence			refe	erence			re	ference		Asian	0.59	0.40	0.86	0.01 0.	<i>(</i> I 0.	.52	0.98	0.04	0.23	0.15	0.34	
ent or very																									
health	0.25	0.18	0.35	<0.001	0.32	0.23	0.45	<0.001	0.24	0.17	0.34	<0.001	Table	4- M	ental	heal	Ithcare	utili	zatio	n vir	rtual c	are	and	socia	al
health	0.48	0.33	0.71	<0.001	0.59	0.42	0.84	<0.001	0.48	0.33	0.72	<0.001								•		•			
felt													suppo	ort ar	nong	j ado	lescen	its wi	no re	eporte	ea tee	ling	aepr	esse	a
ssed	0.27	0.23	0.31	<0.001	0.16	0.14	0.19	<0.001	0.16	0.12	0.20	<0.001													
y income		0.27 0.23 0.31 <0.001 0.16 0.14 0.19 <0.001 0.16 0.12 0.20 <0.001						Took medicine for mental Had therapy H						Had	Had medicine and therapy										
% FPL		Ref	erence			refe	erence			re	ference				ł	nealth			Hau	шегару		nau	neuicii		пегару
00% FPL	1.00	0.73	1.37	0.98	1.07	0.81	1.42	0.64	0.97	0.67	1.43	0.89		OR	95	% CI	Р	OR	95%	∕₀ CI	р	OR	95%	%CI	р
00%FPL	1.02	0.74	1.40	0.91	1.32	0.99	1.76	0.06	1.09	0.75	1.59	0.65	Race and	ethnic	ity										
400%FPL	1.21	0.86	1.68	0.27	1.60	1.17	2.20	<0.001	1.46	0.96	2.21	0.08	White		rei	ference			refe	erence			refe	erence	
ducation of pa	arents																<0.001								<0.001
gh school		Ref	erence			refe	erence			re	ference		Black	0.45	0.31	0.65		0.64	0.45	0.92	0.01	0.55	0.37	0.82	
school	1.18	0.81	1.73	0.38	0.87	0.62	1.20	0.39	0.96	0.60	1.53	0.85					<0.001				<0.001				<0.001
je	1.35	0.94	1.94	0.11	1.05	0.75	1.47	0.78	1.17	0.73	1.88	0.51	Hispanic	0.48	0.37	0.63		0.67	0.53	0.85		0.54	0.39	0.73	
late school	1.43	0.97	2.10	0.07	1.24	0.87	1.76	0.23	1.40	0.86	2.27	0.17					<0.001				<0.001				<0.001
t marital status													Asian	0.26	0.15	0.43		0.27	0.17	0.41		0.25	0.14	0.48	
ed	0.77	0.64	0.92	<0.001	0.63	0.53	0.74	<0.001	0.66	0.52	0.83	<0.001	Aoran	0.20	0.10	0.10					unnort				nunity
ance		D (Had any	y virtua	care	Emotional/social support available			upport	Presence of commur support			namey
ured	0.40		erence		0.45		erence	0.004	1.00		ference	0.004		OR	95	% CI	Р	OR		% Cl	р	OR		6 Cl	n
e insurance	2.40	1.35	4.28	< 0.001	2.45		3.90	< 0.001	4.33	2.13	8.81	< 0.001	Bees and					OR	337		Ρ	OR	337		р
insurance	3.07	1.72	5.47	< 0.001	3.46	2.17	5.53	< 0.001	6.02	2.89	12.54	< 0.001	Race and	etnnic		f			rof				r o f		
insurance	2.61	1.30	5.22	0.01	2.56	1.38	4.74	< 0.001	4.03	1.75	9.28	< 0.001	White		Re	eference			rere	erence			rere	erence	
	1.13	0.89	1.44	0.31	0.84	0.66	1.05	0.13	0.96	0.69	1.33	0.81													
		Dof	oronoo			rofe	ropoo			ro	foronoo		Black	0.47	0.30	0.73	<0.001	1.05	0.70	1.58	0.81	0.57	0.31	1.04	0.07
	1.09		erence 1.35	0.46	1 1 1	0.92		0.22	1.14		ference	0.37													<0.001
		0.71	1.06	0.40		0.92		0.22	0.80		1.53 1.02	0.37 0.07	Hispanic	0.75	0.56	1.00	0.05	0.98	0.73	1.31	0.88	0.38	0.24	0.58	
		0.92		0.17	1.33		1.59	<0.001		0.02	1.51	0.07													<0.001
ant				<0.27		0.11		0.01	0.04		0.17	<0.001	Asian	0.56	0.36	0.87	0.01	0.82	0.54	1.26	0.37	0.30	0.15	0.61	
	0.10	0.00	0.47	\U.UU	0.20	0.11	0.75	0.01	0.04	0.01	0.17														

Table 1: Sample Characteristics

		11			ום			Ulara	nic		Acia		
	All		ll White		Black			Hispanic			Asian		
e size	10,715		10,715 5,981		1,186			2,804			74		
	mean	std	mean	std	mea n	std	р	mean	std	р	mean	std	р
ne for	0.12	0.33	0.16	0.37	0.08	0.27	<0.001	0.07	0.26	<0.001	0.03	0.18	<0.001
ental /	0.15	0.36	0.19	0.39	0.11	0.31	<0.001	0.13	0.33	<0.001	0.05	0.22	<0.001
oth ne erapy	0.08	0.27	0.10	0.30	0.05	0.22	<0.001	0.05	0.22	<0.001	0.02	0.14	<0.001
nal/s t	0.77	0.42	0.78	0.41	0.82	0.38	0.02	0.76	0.43	0.10	0.72	0.45	0.01
unity t	0.89	0.31	0.95	0.21	0.90	0.29	<0.001	0.79	0.40	<0.001	0.79	0.40	<0.001
tual I tment	0.20	0.40	0.22	0.42	0.13	0.34	<0.001	0.19	0.39	0.004	0.16	0.37	0.002

Table 3: Outcomes of virtual care and social support among US adolescents

DATA AND MEASURES

• The key independent variables: race and ethnicity: non-Hispanic White (White), non-Hispanic Black (Black), non-Hispanic Asian (Asian), and Hispanic.

RESULTS

- From 2019 to 2022, the proportion of adolescents who reported never feeling depressed decreased from 63% to 55% among White adolescents, with more significant declines observed among Black (from 79% to 62%), Asian (from 76% to 59%), and Hispanic adolescents (from 74% to 64%).
- Compared to White adolescents, Black, Hispanic, and Asian adolescents were significantly less likely to take prescription drugs for mental health, receive therapy, or receive both treatments. Additionally, Hispanic and Asian adolescents were significantly less likely to receive community support, and all minority adolescents were less likely to have a virtual appointment.

CONCLUSION

- Our study highlighted the gradual convergence in depression rates between White and minority adolescents, although minority adolescents were still less likely to report feelings of depression between 2019 and 2022.
- Additionally, our findings indicated that minority adolescents continue to be less likely to use mental health services and telehealth. The gap in community support among Asian and Hispanic adolescents is particularly concerning.
- Despite the proven benefits of community and social or emotional support in improving mental health, these resources were less available to Hispanic and Asian adolescents. These findings highlighted the urgent need to address mental health challenges among minority adolescents and to recognize and meet their diverse mental health needs.
- Finally, while minority adolescents reported lower telehealth use, future research is needed to better understand the significant disparity between White and minority adolescents. If telemental care and community support are effective in improving minority adolescent mental health, it is crucial that these groups do not miss out on these opportunities.

CONTACT INFORMATION

William Zhou at billykzhou@gmail.com