

Prevalence of mental health symptoms in children and adolescents during the COVID-19 pandemic: A meta-analysis

Supplementary Table S9: Characteristics of included studies and patients

Table S9: Characteristics of included studies and patients

Study	Country	Study Design	Response Rate (%)	Sample Size (n)	Female (%)	Age ^a	Screening Tools and Cutoff Values		
							Depression	Anxiety	Sleep Disturbances
Adams et al., 2022 ¹	US	Longitudinal	-	927	37.1	15.5±1.21	PHQ-2≥3	-	-
Adegboye et al., 2022 ²	United Kingdom	Longitudinal	-	143	37.8	-	-	SCARED≥25	-
AlAzzam et al., 2021 ³	Jordan	Cross-Sectional	-	384	59.9	17.59±0.5	PHQ-9≥5	GAD-7≥5	-
Albrecht et al., 2022 ⁴	Switzerland	Longitudinal	38.0	3664	66.3	16 (15-17)	YSR/11-18 T-Value≥70	-	-
Alnamnani et al., 2022 ⁵	Saudi Arabia	Cross-Sectional	86.0	436	27.1	7.68±1.21	-	SCAS-P	-
Alqassim et al., 2022 ⁶	Saudi Arabia	Cross-Sectional	97.1	427	57.8	15-18 ^b	DASS-21D≥10	DASS-21A≥8	-
Arazi et al., 2022 ⁷	Argentina	Cross-Sectional	96.7	1080	51.9	3-15 ^b	-	CQ	-
Argiansya et al., 2021 ⁸	Indonesia	Cross-Sectional	65.0	157	69.4	16 ^c	-	-	SDSC
Asanov et al., 2021 ⁹	Ecuador	Cross-Sectional	64.3	1550	54.3	15.9 ^c	MHI-5<17	-	-
Avila et al., 2020 ¹⁰	Brazil/Portugal	Cross-Sectional	99.2	253	47.8	7.5±3.4	-	CAQ≥9	-
Bani-Issa et al., 2022 ¹¹	United Arab Emirates	Cross-Sectional	-	1720	60.2	14.6±1.97	-	-	PSQI>5
Baptista et al., 2020 ¹²	China	Cross-Sectional	93.4	1036	48.7	6-15 ^b	-	-	SDSC
Bazett-Jones et al., 2021 ¹³	US	Longitudinal	49.8	287	56.4	15.3±1.7	-	-	PSQI
Becker et al., 2021 ¹⁴	US	Longitudinal	-	122	38.5	16.28±0.35	-	-	SDSC≥70
Berki et al., 2021 ¹⁵	Hungary	Cross-Sectional	98.1	705	62.6	14-19 ^b	CDI-S>4	-	-
Bhatta et al., 2021 ¹⁶	Nepal	Cross-Sectional	-	358	51.4	16.17±1.57	-	GAD-7≥5	-
Black et al., 2021 ¹⁷	US	Cross-Sectional	30.2	391	29.9	10.68±2.28	MFQ-C>12	-	-
Büyük et al., 2022 ¹⁸	Turkey	Cross-Sectional	16.8	413	51.1	15.78±1.23	-	-	PSQI>5
Cao et al., 2021 ¹⁹	China	Cross-Sectional	95.7	11180	49.9	14.33±1.10	PHQ-9≥5	GAD-7≥5	-
Cao et al., 2022 ²⁰	China	Cross-Sectional	96.8	57984	51.6	14.8±1.6	PHQ-9≥10	GAD-7≥10	-
Castillo-Martínez et al., 2022 ²¹	Spain	Cross-Sectional	97.1	397	54.4	8-18 ^b	CDI	-	-
Cheah et al., 2020 ²²	US	Cross-Sectional	-	230	47.8	13.83±2.53	-	GAD-7≥10	-
Chen et al., 2020a ²³	China	Cross-Sectional	98.8	7772	52.2	-	DSRS≥15	SCARED≥25	-
Chen et al., 2020b ²⁴	China	Cross-Sectional	98.4	2023	56.7	-	PHQ-9≥5	GAD-7≥5	-
Chen et al., 2020c ²⁵	Italy	Cross-Sectional	84.9	721	48.4	10.1±2.5	-	Anxiety	-

Chen et al., 2021 ²⁶ⁱ	China	Cross-Sectional	98.1	9554	52.1	-	CES-D>15	GAD-7≥5	-
Chi et al., 2021 ²⁷	China	Cross-Sectional	-	1794	43.9	15.26±0.46	PHQ-9≥5	GAD-7≥5	YSIS≥22
Chi et al., 2022 ²⁸	South Korea	Cross-Sectional	18.6	1678	51.4	13.83±0.95	-	-	PSQI>5
Choukas-Bradley et al., 2022 ²⁹	US	Longitudinal	-	93	100	15.01±1.21	MFQ-C≥20	-	-
Crescentini et al., 2020 ³⁰	China	Cross-Sectional	-	1399	59.8	16.8±1.1	CBCL	CBCL	-
Curatola et al., 2022 ³¹	Italy	Cross-Sectional	95.8	205	55.6	9.9±1.9	-	-	CSHQ>41
Dai et al., 2020 ³²	China	Cross-Sectional	90.3	2050	48.4	12.3±4.7	DASS-21D≥10	DASS-21A≥8	-
Dale et al., 2022 ³³	Austria	Longitudinal	-	1505	77.9	16.3±1.4	PHQ-9≥10	GAD-7≥10	ISI≥15
Deb et al., 2022 ³⁴	India	Cross-Sectional	-	273	45.1	-	RADS-2≥1	MASC≥1	-
Denerel et al., 2021 ³⁵	Turkey	Cross-Sectional	74.3	1983	15.0	-	CES-DC>15	-	-
Ding et al., 2022 ³⁶	China	Cross-Sectional	95.4	1663	57.2	14.24±1.04	CES-D≥20	SAS≥50	-
Dong et al., 2020 ³⁷	China	Cross-Sectional	-	3613	49.8	-	DASS-21D≥10	DASS-21A≥8	-
Dönmez et al., 2021 ³⁸	Turkey	Cross-Sectional	-	1071	48.0	10.54±3.3	DSM-5-DS-P T-Score≥55	DSM-5-AS-P T-Score≥55	-
Duan et al., 2020 ³⁹	Brazil	Cross-Sectional	-	289	54.3	8.8±2.1	CDI≥19	-	-
El Refay et al., 2021 ⁴⁰	Egypt	Cross-Sectional	-	765	46.7	4-16 ^b	-	CQ	SDSC>39
Fidancı et al., 2021 ⁴¹	Turkey	Cross-Sectional	-	114	56.1	11.32±3.02	-	-	SDSC≥70
Fischer et al., 2022 ^{42j}	Netherlands	Longitudinal	-	746	46.6	13.7±3.2	PROMIS	PROMIS	-
Fogarty et al., 2022 ⁴³	Australia	Longitudinal	61.3	257	54.1	15.47±0.87	PHQ-A≥10	GAD-7≥10	-
Forte et al., 2021 ⁴⁴	Italy, Romania, Croatia	Cross-Sectional	-	2105	31.3	-	-	CQ	-
Ghorbani et al., 2021 ⁴⁵	Iran	Cross-Sectional	88.3	136	55.9	16.28±0.97	DASS-21D≥10	DASS-21A≥8	-
Giannini et al., 2021 ⁴⁶	Brazil	Cross-Sectional	-	208	57.7	15.3±1.8	-	CQ	-
Giannopoulou et al., 2021 ⁴⁷	Greece	Longitudinal	96.3	442	68.8	-	PHQ-9≥11	GAD-7≥11	-
Gladstone et al., 2021 ⁴⁸	US	Cross-Sectional	-	228	-	14.5±1.6	PHQ-A	-	-
Glynn et al., 2021 ⁴⁹	US	Cross-Sectional	-	169	46.7	4.10±0.93	PFC≥3	-	-
Guo et al., 2020 ⁵⁰	China	Cross-Sectional	93.5	973	47.8	13-16 ^b	-	SCARED≥23	-
Håkansson et al., 2022 ⁵¹	Sweden	Cross-Sectional	83.2	7025	42.8	-	PHQ-9≥10	GAD-7≥10	-
Hamid et al., 2022 ⁵²	Canada	Cross-Sectional	-	246	47.2	-	RCADS-D T-Score>65	RCADS-A T-Score>65	-
Han et al., 2021 ^{53k}	South Korea	Cross-Sectional	94.9	54948	48.4	-	CQ	-	-

He et al., 2020 ⁵⁴	China	Cross-Sectional	96.1	2895	53.9	-	CQ	-	-
He et al., 2021 ⁵⁵	China	Cross-Sectional	-	441	45.1	11.83±0.79	CES-DC>15	-	-
Hermosillo-de-la-Torre et al., 2021 ⁵⁶	Mexico	Cross-Sectional	-	8033	51.0	16.00±0.98	CESD-R	BAI>5	-
Hertz et al., 2022 ⁵⁷	US	Cross-Sectional	-	567	51.5	-	PHQ-A	-	-
Hou et al., 2020 ⁵⁸	China	Cross-Sectional	-	859	38.6	-	PHQ-9≥10	GAD-7≥5	-
Hou et al., 2021 ⁵⁹	China	Cross-Sectional	99.4	826	42.9	-	PHQ-9≥5	-	-
Humer et al., 2021 ⁶⁰	Austria	Longitudinal	-	545	86.8	-	PHQ-9≥11	GAD-7≥11	ISI≥15
Janousch et al., 2022 ⁶¹	Switzerland	Longitudinal	-	317	44.8	13.61±0.67	HSCL-25D	HSCL-25A	-
Jeelani et al., 2022 ⁶²	India	Cross-Sectional	97.0	426	43.2	17.5±1.26	PHQ-A≥10	GAD-7≥10	-
Jenabi et al., 2021 ⁶³	Iran	Cross-Sectional	100	2852	69.7	12-18 ^b	DASS-21D≥10	DASS-21A≥8	-
Jin et al., 2022 ⁶⁴	China	Cross-Sectional	86.3	3532	89.3	17.03±1.29	CES-D≥20	-	-
Jung et al., 2022 ^{65k}	South Korea	Cross-Sectional	94.9	54948	48.4	-	-	GAD-7≥5	-
Kakaer et al., 2021 ⁶⁶	China	Cross-Sectional	93.7	7755	45.2	10.73±2.98	-	Conners PSQ	-
Kaman et al., 2021 ⁶⁷	Germany	Cross-Sectional	13.8	1037	47.9	13.77±1.97	PHQ-2	SCARED	-
Kaur Sama et al., 2020 ⁶⁸	India	Cross-Sectional	77.5	310	42.3	-	CQ	CQ	CQ
Kim et al., 2022a ⁶⁹	South Korea	Cross-Sectional	93.9	1783	55.1	15.4±1.7	PHQ-9≥10	GAD-7≥10	-
Kim et al., 2022b ^{70k}	South Korea	Longitudinal	-	46475	48.0	-	-	GAD-7≥10	-
Koyuncu et al., 2022 ⁷¹	Turkey	Cross-Sectional	-	371	-	-	-	-	SDSC≥39
Kuty-Pachecka et al., 2020 ⁷²	Poland	Cross-Sectional	94.4	296	73.6	18.10±0.64	KADS>6	-	-
Lee et al., 2021 ⁷³	South Korea	Cross-Sectional	66.5	8177	50.2	-	PHQ-9≥5	GAD-7≥5	-
Lee et al., 2022a ⁷⁴	South Korea	Cross-Sectional	-	570	50.9	-	PHQ-9≥10	GAD-7≥10	-
Lee et al., 2022b ^{75k}	South Korea	Longitudinal	-	46475	48.0	15.12±1.77	CQ	-	-
Lee et al., 2022c ^{76l}	South Korea	Longitudinal	-	54848	46.0	15.23±0.02	CQ	-	-
Li et al., 2020 ^{77f}	China	Cross-Sectional	93.6	396	49.7	12.8±2.6	-	SCARED≥25	-
Li et al., 2021a ⁷⁸	China	Longitudinal	81.5	831	52.1	15.89±0.74	BDI-II≥14	SAS≥50	PSQI>5
Li et al., 2021b ⁷⁹	China	Cross-Sectional	-	8483	60.5	15.31±0.02	PHQ-9≥5	CQ	-
Li et al., 2021c ⁸⁰	Australia	Cross-Sectional	43.6	760	54.2	14.80±1.26	-	-	ISI
Li et al., 2021d ⁸¹	China	Cross-Sectional	73.6	7890	71.6	-	HADS-D>7	HADS-A>7	-
Liang et al., 2021 ⁸²	Italy	Longitudinal	-	1053	49.1	14.13±2.25	SMFQ-P>11	SCAS-P-8>7.5	-
Liao & Li, 2021 ^{83g}	China	Cross-Sectional	-	610	47.5	6.53±2.99	-	-	CSHQ>41

Liao et al., 2022 ^{84g}	China	Cross-Sectional	94.6	610	47.5	2-12 ^b	-	-	CSHQ>41
Liu et al., 2020 ⁸⁵	China	Cross-Sectional	98.6	837	63.9	-	SCL-90≥2	SCL-90≥2	-
Liu et al., 2021a ^{86h}	China	Cross-Sectional	56	5175	48.3	13.37±1.44	PHQ-9≥5	GAD-7≥5	-
Liu et al., 2021b ⁸⁷	China	Cross-Sectional	-	1142	61.5	15.8±1.6	CES-DC>15	GAD-7≥5	-
Liu et al., 2022a ⁸⁸	China	Cross-Sectional	-	4852	51.5	13.8±2.38	SDS≥53	SAS≥50	AIS>6
Liu et al., 2022b ⁸⁹	China	Cross-Sectional	95.0	1317	53.8	15.96±0.81	BDI-II≥14	-	-
Lu et al., 2020 ⁹⁰	China	Cross-Sectional	91.6	965	42.4	15.3±0.5	PHQ-9≥5	GAD-7≥5	YSIS≥22
Lu et al., 2022 ⁹¹	China	Cross-Sectional	-	795	26.8	17.0±1.4	SDS≥50	SAS≥50	-
Luijten et al., 2021 ⁹²	Netherlands	Cross-Sectional	-	844	52.6	13.4±2.8	PROMIS>1.5 SD	PROMIS>1.5 SD	PROMIS>1.5 SD
Luthar et al., 2020 ⁹³	US	Cross-Sectional	76.3	2078	51.8	-	WBI>1.5 SD	WBI>1.5 SD	-
Ma et al., 2021a ⁹⁴	China	Cross-Sectional	85.8	17740	-	12.87±2.65	CQ	CQ	CQ
Ma et al., 2021b ⁹⁵	China	Cross-Sectional	98.2	668	49.7	11.32±2.74	SMFQ-P>11	-	-
Mactavish et al., 2021 ⁹⁶	Canada	Cross-Sectional	-	190	49.5	10.83±1.45	SMFQ	-	-
Magklara et al., 2022 ⁹⁷	Greece	Cross-Sectional	-	1232	48.1	-	-	-	CQ
Mansfield et al., 2021 ⁹⁸	United Kingdom	Cross-Sectional	15.5	10784	62.9	-	RCADS-D T-Score>70	RCADS-A T-Score>70	-
McArthur et al., 2021 ⁹⁹	Canada	Cross-Sectional	65.8	846	47.0	9.85±0.78	BASC-3 T-Score≥60	BASC-3 T-Score≥60	-
McGuire et al., 2021a ¹⁰⁰	US	Cross-Sectional	-	13002	53.0	16.3±1.2	PHQ-9≥5	GAD-7≥5	-
McGuire et al., 2021b ¹⁰¹	US	Cross-Sectional	-	3243	58.0	16.2±1.2	PHQ-9≥5	-	-
McGuire et al., 2022a ¹⁰²	US	Cross-Sectional	-	1906	48.8	16.0±1.2	PHQ-9≥5	-	-
McGuire et al., 2022b ¹⁰³	US	Cross-Sectional	-	559	43.6	15.7±1.2	PHQ-9≥5	GAD-7≥5	-
McGuire et al., 2022c ¹⁰⁴	US	Cross-Sectional	-	4693	52.0	16.1±1.3	PHQ-9≥10	GAD-7≥10	-
Min et al., 2021 ¹⁰⁵	South Korea	Cross-Sectional	84.1	159	-	16.0±0.3	CES-D≥16	-	-
Mo et al., 2020 ¹⁰⁶	China	Cross-Sectional	89.2	5392	45.5	7-16 ^a	-	SCARED≥23	-
Mohler-Kuo et al., 2021 ¹⁰⁷	Switzerland	Cross-Sectional	-	1146	50.3	14.3±1.5	PHQ-2≥3	SCAS-C (Brief)≥7.5 for girls, ≥5.5 for boys	CQ
Moitra et al., 2022 ¹⁰⁸	India	Cross-Sectional	-	1298	46.7	13.2±1.2	PHQ-2≥3	-	PSQI>5
Molu et al., 2022 ¹⁰⁹	Turkey	Cross-Sectional	17.0	122	51.6	4.81±0.9	-	-	CSHQ>41
Monnier et al., 2021 ¹¹⁰	France	Cross-Sectional	-	5698	49.3	8-9 ^b	-	-	CQ
Murata et al., 2020 ¹¹¹	US	Cross-Sectional	-	583	79.9	15.8±1.4	PHQ-9≥10	GAD-7≥10	ISI

Nakachi et al., 2021 ¹¹²	Japan	Cross-Sectional	-	547	47.0	11.4±3.6	-	-	CQ
O'Kane et al., 2021 ¹¹³	Ireland	Longitudinal	33.0	94	100	12-14 ^b	-	-	PSQI>5
Oliva et al., 2021 ¹¹⁴	Italy	Cross-Sectional	-	2426	-	6-18 ^b	CES-DC	SCARED	-
Orgilés et al., 2020 ¹¹⁵	Portugal, Spain, Italy	Cross-Sectional	-	515	45.8	8.98±4.29	SMFQ-P>11	SCAS-P-8>7.5	-
Ozbaran et al., 2022 ¹¹⁶	Turkey	Cross-Sectional	-	71	52.1	6-18 ^b	CDI≥19	SCARED≥25	-
Paiva et al., 2021 ¹¹⁷	Brazil	Cross-Sectional	-	530	50.2	6-12 ^b	-	CQ	-
Peng et al., 2022 ¹¹⁸	China	Cross-Sectional	-	39751	52.3	14.8±1.7	PHQ-9≥5	GAD-7≥5	-
Pieh et al., 2021 ¹¹⁹	Austria	Cross-Sectional	-	3052	70.1	16.5±1.4	PHQ-9≥11	GAD-7≥11	ISI≥15
Pisano et al., 2021 ¹²⁰	Italy	Cross-Sectional	69.1	326	24.2	15.9±1.3	MFQ-SF≥12	STAI≥40	-
Pizarro-Ruiz et al., 2021 ¹²¹	Spain	Cross-Sectional	74.9	590	55.3	8-18 ^b	SENA	SENA	-
Puteikis et al., 2022 ¹²²	Lithuania	Cross-Sectional	97.7	628	70.4	16.1±1.2	BDI≥16	GAD-7≥8	PSQI>5
Qi et al., 2020a ¹²³ⁱ	China	Cross-Sectional	98.1	9554	-	-	-	GAD-7≥5	-
Qi et al., 2020b ¹²⁴	China	Cross-Sectional	97.5	7202	53.6	16 (14-18)	PHQ-9≥5	GAD-7≥5	-
Qi et al., 2021 ¹²⁵ⁱ	China	Cross-Sectional	98.1	9554	52.1	-	CES-D>15	-	-
Ravens-Sieberer et al., 2021 ¹²⁶	Germany	Longitudinal	-	1586	49.7	12.67±2.29	PHQ-2≥3	SCARED≥25	-
Ren et al., 2021 ¹²⁷	China	Cross-Sectional	99.7	1771	48.2	10-19 ^b	PHQ-9≥5	GAD-7≥5	SRSS≥23
Rojas et al., 2022 ¹²⁸	Mexico	Cross-Sectional	-	209	54.1	8.91±2.30	-	-	CSHQ>41
Sarvari et al., 2022 ¹²⁹	Iran	Cross-Sectional	-	150	0	14.41 ^c	-	BAI-II	-
Selçuk et al., 2021 ¹³⁰	Turkey	Cross-Sectional	-	447	61.7	15±2	DSM-5-DS-C T-Score≥55	DSM-5-AS-C T-Score≥55	-
She et al., 2021 ¹³¹	Hong Kong	Cross-Sectional	72.5	3136	51.9	13.6±1.3	CES-D≥16	-	-
Siachpazidou et al., 2021 ¹³²	Greece	Cross-Sectional	-	482	46.1	8.1±2.2	-	CQ	-
Sicouri et al., 2022 ¹³³	Australia	Cross-Sectional	-	1327	45.4	10.4±3.9	RCADS-25-P	RCADS-25-P	-
Sifat et al., 2022 ¹³⁴	Bangladesh	Cross-Sectional	-	60	50.0	13-15 ^b	Semi-Structured Interview	Semi-Structured Interview	Semi-Structured Interview
Silva et al., 2022 ¹³⁵	Brazil	Cross-Sectional	-	157	59.9	-	-	-	PSQI>5
Song, 2020 ¹³⁶	China	Cross-Sectional	95.3	1300	-	-	-	SCL-90≥2	SCL-90≥2
Spiratos, 2021 ¹³⁷	US	Cross-Sectional	81.4	319	57.1	15.51±1.18	CES-D≥16	-	-
Stewart et al., 2022 ¹³⁸	Scotland	Cross-Sectional	89.6	899	51.0	15.89±0.88	RCADS-25D T-Score≥70	RCADS-25A T-Score≥70	-
Su & Sun, 2020 ¹³⁹	China	Cross-Sectional	-	1708	48.9	-	CDI≥20	-	-

Tamarit et al., 2020 ¹⁴⁰	Spain	Cross-Sectional	-	523	63.1	14.89±1.13	DASS-21D≥10	DASS-21A≥8	-
Tang & Pang, 2020 ¹⁴¹	China	Cross-Sectional	-	873	47.7	-	CDI≥19	SAS≥50	-
Tang & Ying, 2020 ¹⁴²	China	Cross-Sectional	-	3512	50.9	14.0±1.6	MMHI-60≥2	MMHI-60≥2	-
Tang et al., 2021 ¹⁴³	China	Cross-Sectional	98.9	4391	49.5	11.9±2.3	DASS-21D≥10	DASS-21A≥8	-
Teker et al., 2021 ¹⁴⁴	Turkey	Cross-Sectional	-	428	68.0	16 (13-19)	-	-	PSQI>5
Top et al., 2022 ¹⁴⁵	Turkey	Cross-Sectional	-	1040	49.2	9.16±2.05	-	-	CSHQ>41
Türk et al., 2021 ¹⁴⁶	Turkey	Cross-Sectional	-	3058	68.0	15 (11-18) ^d	RCADS-D	RCADS-A	-
Ursache et al., 2022 ¹⁴⁷	US	Cross-Sectional	-	285	55.1	4.6 ^c	-	-	PROMIS
Vaidya et al., 2022 ¹⁴⁸	India	Cross-Sectional	-	1641	52.2	18.9±2.2	DASS-21D≥10	DASS-21A≥8	-
Valero-Moreno et al., 2022 ¹⁴⁹	Spain & Ecuador	Cross-Sectional	-	476	70.8	15.62±1.22	DASS-21D≥10	DASS-21A≥8	-
Villanti et al., 2022 ¹⁵⁰	US	Cross-Sectional	-	212	-	15.0±1.6	PHQ-2≥3	GAD-2≥3	-
Vivechana et al., 2021 ¹⁵¹	Nepal	Cross-Sectional	66.8	193	57.5	14.6±1.2	-	CQ	-
Wang & Sun, 2020 ¹⁵²	China	Cross-Sectional	-	1580	51.4	-	-	SCARED≥23	-
Wang & Xu, 2020 ¹⁵³	China	Cross-Sectional	89.7	410	68.5	-	-	GAD-7≥5	-
Wang et al., 2020a ^{154f}	China	Cross-Sectional	93.6	396	49.7	12.8±2.6	DSRS≥15	-	-
Wang et al., 2020b ¹⁵⁵	China	Cross-Sectional	-	2727	-	-	-	-	PSQI>5
Wang et al., 2021a ¹⁵⁶	China	Cross-Sectional	98.1	16094	48.1	3-6 ^b	-	-	CSHQ>41
Wang et al., 2021b ¹⁵⁷	China	Cross-Sectional	84.6	1071	45.1	7.64±1.55	CBCL	-	-
Wang et al., 2022a ¹⁵⁸	China	Longitudinal	91.7	1790	49.2	14.92±1.55	CES-D≥16	GAD-7≥5	PSQI>7
Wang et al., 2022b ¹⁵⁹	China	Cross-Sectional	99.7	21085	52.9	-	-	GAD-7≥5	-
Wearick-Silva et al., 2021 ¹⁶⁰	Brazil	Cross-Sectional	-	657	-	0-17 ^b	-	-	BISQ, SDSC, PSQI
Wen et al., 2022 ¹⁶¹	China	Cross-Sectional	83.2	7377	51.5	14 (9-17) ^d	CES-D≥16	-	-
Wesley et al., 2022 ¹⁶²	US	Cross-Sectional	48.6	3494	58.1	16.24±1.09	PROMIS T-Score≥65	PROMIS T-Score≥65	-
Windiani et al., 2021 ¹⁶³	Indonesia	Cross-Sectional	-	204	48.5	16 (15-18) ^e	-	-	PSQI>5
Xie et al., 2020 ¹⁶⁴	China	Cross-Sectional	76.6	1784	43.3	-	CDI-S≥7	SCARED≥25	-
Xie et al., 2022 ¹⁶⁵	China	Cross-Sectional	76.6	1224	43.7	9.3±1.1	CDI-S>4	SCARED≥23	-
Xu et al., 2021 ¹⁶⁶	China	Cross-Sectional	-	373216	48.2	15.24±1.59	-	GAD-7≥5	-
Xu et al., 2022 ¹⁶⁷	China	Cross-Sectional	94.8	386432	48.0	14.5±1.7	-	GAD-7≥10	-

Xue et al., 2021 ¹⁶⁸	China	Cross-Sectional	-	1650	43.4	-	CDI-5 \geq 4	SCARED \geq 23	-
Yakşı et al., 2021 ¹⁶⁹	Turkey	Cross-Sectional	38.2	506	60.7	17 (14-21) ^a	CDI \geq 19	-	-
Yin et al., 2022 ¹⁷⁰	China	Cross-Sectional	-	1027	57.6	15.71 \pm 1.36	PHQ-9 \geq 10	GAD-7 \geq 10	-
Yu et al., 2020 ¹⁷¹	China	Cross-Sectional	-	2074	47.6	-	CQ	CQ	-
Yue et al., 2020 ¹⁷²	China	Cross-Sectional	71.9	1360	46.0	10.56 \pm 1.79	SAS \geq 50	CES-DC \geq 15	-
Zainel et al., 2021 ¹⁷³	Qatar	Cross Sectional	-	6608	49.2	7-18 ^b	KADS	SCAS	-
Zhai et al., 2021 ¹⁷⁴	China	Cross Sectional	-	10569	49.7	15.94 \pm 1.45	-	SAS \geq 50	PSQI $>$ 5
Zhan et al., 2022 ¹⁷⁵	China	Cross Sectional	-	1355	47.3	12.47 \pm 1.67	-	-	YSIS \geq 22
Zhang et al., 2020a ¹⁷⁶	China	Longitudinal	93.1	1241	40.7	12.6 \pm 1.4	MFQ \geq 27	HBQ \geq 4.17	-
Zhang et al., 2020b ¹⁷⁷	China	Cross-Sectional	91.4	563	48.1	-	MMHI-60 \geq 2	MMHI-60 \geq 2	-
Zhang et al., 2020c ¹⁷⁸	China	Cross-Sectional	-	1018	53.5	16.61 \pm 1.06	PHQ-9 \geq 5	GAD-7 \geq 5	-
Zhang et al., 2020d ¹⁷⁹	China	Cross-Sectional	87.4	1025	76.3	15.56 \pm 1.89	DASS-21D \geq 10	DASS-21A \geq 8	-
Zhang et al., 2021 ¹⁸⁰	China	Cross-Sectional	-	22380	47.2	12-17 ^b	PHQ-9 \geq 5	GAD-7 \geq 5	-
Zhang et al., 2022 ¹⁸¹	China	Cross Sectional	-	3471	48.4	14.1 \pm 2.6	PHQ-9 \geq 5	GAD-7 \geq 5	-
Zhao et al., 2022 ¹⁸²	China	Cross-Sectional	83.0	7544	-	6-17 ^b	DASS-21D \geq 10	DASS-21A \geq 8	CQ
Zhen et al., 2022 ¹⁸³	China	Cross-Sectional	-	683	44.1	16.06 \pm 0.56	CES-DC \geq 16	-	-
Zhong et al., 2021 ¹⁸⁴	China	Cross-Sectional	-	1766	50.6	-	-	SCARED \geq 25	-
Zhou et al., 2020a ¹⁸⁵	China	Cross-Sectional	99.3	8079	53.5	16 (12-18)	PHQ-9 \geq 5	GAD-7 \geq 5	-
Zhou et al., 2020b ¹⁸⁶	China	Cross-Sectional	95.1	4805	100	15 (11-18)	CES-D \geq 16	-	-
Zhou et al., 2020c ¹⁸⁷	China	Cross-Sectional	96.2	7736	53.8	17.4 \pm 2.7	PHQ-9 \geq 5	GAD-7 \geq 5	PSQI $>$ 5
Zhou et al., 2020d ¹⁸⁸	China	Cross-Sectional	-	2714	47.5	-	-	CQ	CQ
Zhou et al., 2021 ¹⁸⁹	China	Cross Sectional	-	1108	50.9	16.39 \pm 0.80	PHQ-9 \geq 5	GAD-7 \geq 5	SRSS \geq 23
Zhu et al., 2020 ¹⁹⁰	China	Cross-Sectional	99.5	1264	44.1	-	-	SCARED \geq 23	-
Zhu et al., 2021 ^{191h}	China	Cross-Sectional	56.1	5175	48.3	9-17 ^b	PHQ-9 \geq 5	-	-

^aAge is reported as mean \pm SD or median (IQR) unless otherwise indicated.

^bAge is reported as range.

^cMean age is reported. No variance information was reported by the study authors.

^dAge is reported as mean (range).

^eAge is reported as median (range).

^fLi et al., 2020 and Wang et al., 2020a assessed the same sample of youths.

^gLiao & Li, 2021 and Liao et al., 2022 assessed the same sample of youths.

^hLiu et al., 2021a and Zhu et al., 2021 assessed the same sample of youths.

ⁱChen et al., 2021, Qi et al., 2020a, and Qi et al., 2021 assessed the same sample of youths.

^jFor Fischer et al., 2022, only results pertaining to the KLIK cohort were included in the review as other cohorts involved populations with special clinical needs.

^kHan et al., 2021, Jung et al., 2022, Kim et al., 2022b, and Lee et al., 2022b assessed the same sample of youths.

^lFor Lee et al., 2022c, only data from the 2021 cohort was included in the review as the 2020 cohort included the same sample of youths as Han et al., 2021, Jung et al., 2022, Kim et al., 2022b, and Lee et al., 2022b.

Abbreviations: **SD** Standard Deviation; **IQR** Interquartile Range; **CQ** Custom Questionnaire; **BDI-II** Beck Depression Inventory-II; **BDI** Beck Depression Inventory; **CDI-5** Children's Depression Inventory-Short Version; **CDI** Children's Depression Inventory; **CE5-D** Center for Epidemiologic Studies Depression Scale; **DASS-21D** Depression, Anxiety, and Stress Scale-21 Items, Depression Subscale; **DSM-5-DS-C** Diagnostic and Statistical Manual of Mental Disorders, 5th Edition, Level 2 Depression Scale for Children Aged 11-17; **DSM-5-DS-P** Diagnostic and Statistical Manual of Mental Disorders, 5th Edition, Level 2 Depression Scale for Parents of Child; **DSRS** Depression Self-Rating Scale; **KADS** 11-Items Kutcher Adolescent Depression Scale; **MFQ-C** Mood and Feelings Questionnaire for Children; **MFQ-SF** Mood and Feelings Questionnaire-Short Form; **MFQ** Mood and Feelings Questionnaire; **MMHI-60** Mental Health Inventory of Middle School Students; **PFC** Preschool Feelings Checklist; **PHQ-2** Patient Health Questionnaire-2; **PHQ-9** Patient Health Questionnaire-9; **PHQ-A** Patient Health Questionnaire Modified for Adolescents; **RCADS-25D** Revised Children's Anxiety and Depression Scale-25 Items, Depression Subscale; **RCADS-D** Revised Children's Anxiety and Depression Scale, Depression Subscale; **SDS** Self-Rating Depression Scale; **SMFQ-P** Short Mood and Feelings Questionnaire-Parent Version; **YSR/11-18** Youth Self-Report for Ages 11-18; **BAI** Beck Anxiety Inventory; **BASC-3** Behavior Assessment System for Children, 3rd Edition; **CAQ** Children's Anxiety Questionnaire; **DASS-21A** Depression, Anxiety, and Stress Scale-21 Items, Anxiety Subscale; **DSM-5-AS-C** Diagnostic and Statistical Manual of Mental Disorders, 5th Edition, Level 2 Anxiety Scale for Children Aged 11-17; **DSM-5-AS-P** Diagnostic and Statistical Manual of Mental Disorders, 5th Edition, Level 2 Anxiety Scale for Parents of Child; **GAD-2** Generalized Anxiety Disorder-2; **GAD-7** Generalized Anxiety Disorder-7; **MacArthur HBQ** MacArthur Health and Behavior Questionnaire; **PROMIS** Patient Reported Outcomes Measurement Information System; **RCADS-25A** Revised Children's Anxiety and Depression Scale-25 Items, Anxiety Subscale; **RCADS-A** Revised Children's Anxiety and Depression Scale, Anxiety Subscale; **SAS** Self-Rating Anxiety Scale; **SCARED** Screen for Child Anxiety Related Disorders; **SCAS-C** Spence Children's Anxiety Scale-Child Version; **SCAS-P** Spence Children's Anxiety Scale-Parent Version; **SCL-90** Symptom Checklist-90; **STAI** State-Trait Anxiety Inventory; **AIS** Athens Insomnia Scale; **CSHQ** Children's Sleep Habits Questionnaire; **ISI** Insomnia Severity Index; **PSQI** Pittsburgh Sleep Quality Index; **SDSC** Sleep Disturbance Scale for Children; **SRSS** Self-Rating Scale of Sleep; **YSIS** Youth Self-Rating Insomnia Scale; **MHI-5** Mental Health Inventory-5; **RADS-2** Reynolds Adolescent Depression Scale, 2nd Edition; **MASC** Multidimensional Anxiety Scale for Children; **HSCL-25D** Hopkins Symptom Checklist-25, Depression Subscale; **HSCL-25A** Hopkins Symptom Checklist-25, Anxiety Subscale; **HADS** Hospital Anxiety and Depression Scale; **WBI** Well-Being Inventory; **SMFQ** Short Mood and Feelings Questionnaire.

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