



Events per 100 observations

Measure = PSQI

Study	Number	Total	Prevalence (%)	95%CI
Abbas et al, 2021 [ID# 1]	171	217	78.80	[72.76; 84.04]
Abdellah et al, 2021 [ID# 2]	245	344	71.22	[66.12; 75.95]
Akinci et al, 2021 [ID# 6]	102	189	53.97	[46.58; 61.23]
Al Maqbali et al, 2021 [ID# 8]	833	1130	73.72	[71.05; 76.26]
Al-Ajlouni et al, 2020 [ID# 9]	222	1240	17.90	[15.81; 20.15]
Alfonsi et al, 2021 [ID# 13]	440	898	49.00	[45.68; 52.32]
Alfonsi et al, 2021 [ID# 13]	111	217	51.15	[44.29; 57.98]
Alharbi et al, 2021 [ID# 14]	438	790	55.44	[51.90; 58.95]
Alnofaiey et al, 2020 [ID# 17]	203	462	43.94	[39.36; 48.60]
Alomayri et al, 2020 [ID# 18]	127	400	31.75	[27.21; 36.56]
Alqahtani et al, 2021 [ID# 19]	210	593	35.41	[31.56; 39.41]
AlRasheed et al, 2021 [ID# 20]	277	344	80.52	[75.94; 84.58]
Ammar et al, 2020 [ID# 22]	542	1047	51.77	[48.69; 54.83]
Ammar et al, 2020 [ID# 22]	675	1047	64.47	[61.49; 67.37]
Amra et al, 2021 [ID# 23]	292	372	78.49	[73.97; 82.56]
Assenza et al, 2020 [ID# 24]	414	928	44.61	[41.38; 47.88]
Atas et al, 2021 [ID# 25]	51	106	48.11	[38.30; 58.03]
Bai et al, 2020 [ID# 28]	45	118	38.14	[29.35; 47.53]
Barrea et al, 2020 [ID# 30]	61	121	50.41	[41.18; 59.63]
Barrea et al, 2020 [ID# 30]	98	121	80.99	[72.86; 87.55]
Bas,kan et al, 2021 [ID# 32]	1367	1909	71.61	[69.53; 73.62]
Benham et al, 2020 [ID# 34]	782	1222	63.99	[61.23; 66.69]
Bhat et al, 2020 [ID# 36]	139	264	52.65	[46.44; 58.80]
Bigalke et al, 2020 [ID# 37]	68	103	66.02	[56.03; 75.06]
Brito-Marques et al, 2021 [ID# 40]	244	332	73.49	[68.40; 78.16]
Casagrande et al, 2020 [ID# 44]	1308	2291	57.09	[55.04; 59.13]
Cellini et al, 2021 [ID# 45]	137	299	45.82	[40.07; 51.65]
Cellini et al, 2020 [ID# 46]	686	1310	52.37	[49.62; 55.10]
Cellini et al, 2021 [ID# 47]	1228	2272	54.05	[51.97; 56.11]
Cheng et al, 2020 [ID# 50]	160	534	29.96	[26.10; 34.04]
Chouchou et al, 2021 [ID# 53]	90	400	22.50	[18.50; 26.91]
Coiro et al, 2021 [ID# 54]	1423	2541	56.00	[54.05; 57.94]
Dai et al, 2020 [ID# 57]	260	307	84.69	[80.17; 88.53]
Das et al, 2021 [ID# 58]	494	672	73.51	[70.00; 76.81]
Das, demir et al, 2021 [ID# 59]	21	44	47.73	[32.46; 63.31]
de Medeiros et al, 2021 [ID# 60]	4	5	80.00	[28.36; 99.49]
Demartini et al, 2020 [ID# 61]	249	432	57.64	[52.82; 62.35]
Du et al, 2021 [ID# 62]	1347	2254	59.76	[57.70; 61.79]
Duran et al, 2021 [ID# 63]	223	405	55.06	[50.07; 59.98]
ElHafeez et al, 2021 [ID# 65]	325	462	70.35	[65.95; 74.48]
ElHafeez et al, 2021 [ID# 65]	359	538	66.73	[62.57; 70.70]
Fidanci et al, 2020 [ID# 70]	117	153	76.47	[68.94; 82.94]
Filippo et al, 2021 [ID# 71]	120	175	68.57	[61.13; 75.37]
Gas et al, 2021 [ID# 77]	14	699	2.00	[1.10; 3.34]
Genta et al, 2021 [ID# 79]	66	94	70.21	[59.90; 79.21]
Goularte et al, 2021 [ID# 82]	1104	1996	55.31	[53.10; 57.51]
Guo et al, 2020 [ID# 85]	502	2441	20.57	[18.98; 22.22]
He et al, 2021 [ID# 89]	89	374	23.80	[19.57; 28.44]
He et al, 2021 [ID# 89]	120	403	29.78	[25.35; 34.50]
He et al, 2021 [ID# 89]	337	1912	17.63	[15.94; 19.41]
Herrero San Martin et al, 2020 [ID# 91]	57	100	57.00	[46.71; 66.86]
Herrero San Martin et al, 2020 [ID# 91]	24	70	34.29	[23.35; 46.60]
Huang et al, 2020 [ID# 92]	584	966	60.46	[57.29; 63.55]
Huang et al, 2020 [ID# 94]	1317	7236	18.20	[17.32; 19.11]
Innocenti et al, 2020 [ID# 97]	540	1035	52.17	[49.08; 55.26]
Jahrami et al, 2020 [ID# 99]	191	257	74.32	[68.52; 79.55]
Jim et al, 2021 [ID# 102]	101	404	25.00	[20.85; 29.52]
Khalil et al, 2020 [ID# 107]	28	83	33.73	[23.72; 44.95]
Kilani et al, 2020 [ID# 111]	736	1723	42.72	[40.37; 45.09]
Kolokotroni et al, 2021 [ID# 115]	301	745	40.40	[36.86; 44.03]
Li et al, 2021 [ID# 122]	13	51	25.49	[14.33; 39.63]
Liu et al, 2020 [ID# 128]	59	285	20.70	[16.15; 25.88]
Liu et al, 2021 [ID# 130]	561	2858	19.63	[18.19; 21.13]
Mandelkorn et al, 2021 [ID# 137]	418	971	43.05	[39.91; 46.23]
Mandelkorn et al, 2021 [ID# 137]	881	2562	34.39	[32.55; 36.26]
Marelli et al, 2020 [ID# 138]	225	307	73.29	[67.97; 78.16]
Marelli et al, 2020 [ID# 138]	178	307	57.98	[52.24; 63.56]
Marelli et al, 2020 [ID# 138]	56	93	60.22	[49.54; 70.22]
Marelli et al, 2020 [ID# 138]	45	93	48.39	[37.89; 58.99]
Martínez-de-Quel et al, 2021 [ID# 140]	102	161	63.35	[55.41; 70.80]
Martínez-de-Quel et al, 2021 [ID# 140]	121	161	75.16	[67.74; 81.62]
Martínez-Lezaun et al, 2020 [ID# 141]	51	75	68.00	[56.22; 78.31]
Martínez-Lezaun et al, 2020 [ID# 141]	72	102	70.59	[60.75; 79.20]
Meo et al, 2021 [ID# 146]	1376	1678	82.00	[80.08; 83.81]
Poyraz et al, 2021 [ID# 157]	101	284	35.56	[30.00; 41.43]
Repon et al, 2021 [ID# 161]	309	355	87.04	[83.10; 90.35]
Robillard et al, 2020 [ID# 162]	2750	5525	49.77	[48.45; 51.10]
Saadeh et al, 2021 [ID# 166]	4680	6157	76.01	[74.92; 77.07]
Saguem et al, 2021 [ID# 170]	182	251	72.51	[66.54; 77.94]
Salli et al, 2021 [ID# 172]	8053	13989	57.57	[56.74; 58.39]
Sañudo et al, 2020 [ID# 173]	9	20	45.00	[23.06; 68.47]
Saracoglu et al, 2020 [ID# 174]	95	208	45.67	[38.77; 52.70]
Saraswathi et al, 2020 [ID# 175]	75	217	34.56	[28.25; 41.30]
Shillington et al, 2021 [ID# 182]	1402	2192	63.96	[61.91; 65.97]
Simonetti et al, 2021 [ID# 183]	761	1005	75.72	[72.95; 78.34]
Stewart et al, 2021 [ID# 186]	920	963	95.53	[94.03; 96.75]
Trabelsi et al, 2021 [ID# 194]	222	517	42.94	[38.63; 47.33]
Trabelsi et al, 2021 [ID# 194]	295	517	57.06	[52.67; 61.37]
Trabelsi et al, 2021 [ID# 195]	2651	5056	52.43	[51.05; 53.82]
Trabelsi et al, 2021 [ID# 195]	1993	5056	39.42	[38.07; 40.78]
Tu et al, 2020 [ID# 197]	60	100	60.00	[49.72; 69.67]
Varma et al, 2021 [ID# 198]	1207	1653	73.02	[70.81; 75.15]
Vitale et al, 2020 [ID# 199]	3	4	75.00	[19.41; 99.37]
Wang et al, 2020 [ID# 202]	218	274	79.56	[74.30; 84.18]
Wang et al, 2020 [ID# 209]	1136	6437	17.65	[16.72; 18.60]
Wang et al, 2020 [ID# 210]	1233	2001	61.62	[59.45; 63.76]
Wang et al, 2020 [ID# 211]	47	123	38.21	[29.60; 47.41]
Windiani et al, 2021 [ID# 215]	62	204	30.39	[24.16; 37.20]
Wu et al, 2020 [ID# 216]	60	120	50.00	[40.74; 59.26]
Xia et al, 2021 [ID# 217]	157	288	54.51	[48.57; 60.37]
Xu et al, 2021 [ID# 218]	103	274	37.59	[31.84; 43.62]
Yadav et al, 2021 [ID# 219]	62	100	62.00	[51.75; 71.52]
Yang et al, 2020 [ID# 220]	144	2410	5.98	[5.06; 7.00]
Zhang et al, 2020 [ID# 230]	894	2027	44.10	[41.93; 46.30]
Zhang et al, 2020 [ID# 231]	185	205	90.24	[85.33; 93.94]
Zhang et al, 2020 [ID# 233]	75	135	55.56	[46.76; 64.10]
Zhang et al, 2021 [ID# 234]	124	319	38.87	[33.49; 44.46]
Zhang et al, 2021 [ID# 235]	174	456	38.16	[33.68; 42.79]
Zhang et al, 2020 [ID# 240]	28	66	42.42	[30.34; 55.21]
Zhao et al, 2020 [ID# 241]	141	215	65.58	[58.82; 71.91]
Zheng et al, 2021 [ID# 242]	71	207	34.30	[27.86; 41.20]
Zheng et al, 2020 [ID# 243]	261	631	41.36	[37.49; 45.32]
Zhao et al, 2020 [ID# 244]	2747	11835	23.21	[22.45; 23.98]
Zhou et al, 2020 [ID# 246]	355	1931	18.38	[16.68; 20.19]
Random effects model		134177	51.87	[47.87; 55.84]

Heterogeneity: $I^2 = 99.42\%$, $\tau^2 = 0.73$, $p = 0$

Study	Number	Total	Prevalence (%)	95%CI
Abdulah et al, 2020 [ID# 3]	183	268	68.28	[62.35; 73.81]
Alharbi et al, 2021 [ID# 14]	430	790	54.43	[50.88; 57.94]
Blekas et al, 2020 [ID# 38]	96	270	35.56	[29.85; 41.58]
Caballero-Domínguez et al, 2020 [ID# 41]	294	700	42.00	[38.31; 45.76]
Fu et al, 2020 [ID# 74]	379	1242	30.52	[27.96; 33.16]
Idrissi et al, 2020 [ID# 96]	463	827	55.99	[52.53; 59.40]
Parlapani et al, 2020 [ID# 153]	39	103	37.86	[28.49; 47.96]
Pedrozo-Pupo et al, 2020 [ID# 154]	169	292	57.88	[51.99; 63.61]
Qi et al, 2020 [ID# 158]	594	1306	45.48	[42.76; 48.23]
Tselebis et al, 2020 [ID# 196]	74	150	49.33	[41.08; 57.51]
Voitaidis et al, 2020 [ID# 200]	913	2427	37.62	[35.69; 39.58]
Zhan et al, 2020 [ID# 229]	948	1794	52.84	[50.50; 55.17]
Random effects model		10169	47.22	[41.37; 53.15]

Heterogeneity: $I^2 = 96.91\%$, $\tau^2 = 0.17$, $p < 0.001$

Study	Number	Total	Prevalence (%)	95%CI
Agberotimi et al, 2020 [ID# 4]	203	884	22.96	[20.23; 25.88]
Al Ammari et al, 2021 [ID# 7]	102	720	14.17	[11.70; 16.93]
Alamrawy et al, 2021 [ID# 10]	330	447	73.83	[69.49; 77.84]
AlAteeq et al, 2021 [ID# 11]	881	1313	67.10	[64.48; 69.64]
Ali et al, 2021 [ID# 15]	130	294	44.22	[38.45; 50.10]
Almater et al, 2020 [ID# 16]	48	107	44.86	[35.23; 54.78]
Alshekaili et al, 2020 [ID# 21]	211	1139	18.53	[16.31; 20.91]
Amra et al, 2021 [ID# 23]	131	372	35.22	[30.36; 40.31]
Atas et al, 2021 [ID# 25]	40	106	37.74	[28.50; 47.67]
Bacaro et al, 2020 [ID# 26]	370	1989	18.60	[16.91; 20.38]
Badellino et al, 2020 [ID# 27]	459	1985	23.12	[21.28; 25.04]
Bajaj et al, 2020 [ID# 29]	209	391	53.45	[48.37; 58.48]
Begalke et al, 2020 [ID# 37]	49	103	47.57	[37.64; 57.65]
Brito-Marques et al, 2021 [ID# 40]	268	332	80.72	[76.06; 84.83]
Cai et al, 2020 [ID# 42]	902	2346	38.45	[36.47; 40.45]
Cai et al, 2020 [ID# 43]	521	1330	39.17	[36.54; 41.86]
Chatterjee et al, 2021 [ID# 48]	67	140	47.86	[39.35; 56.46]
Chen et al, 2021 [ID# 49]	123	834	14.75	[12.41; 17.34]
Cui et al, 2020 [ID# 55]	365	891	40.97	[37.71; 44.28]
Elhadi et al, 2021 [ID# 64]	1952	10296	18.96	[18.21; 19.73]
Elkholy et al, 2021 [ID# 66]	125	502	24.90	[21.18; 28.92]
Essangri et al, 2020 [ID# 67]	344	549	62.66	[58.46; 66.72]
Fekih-Romdhane et al, 2020 [ID# 69]	87	210	41.43	[34.69; 48.41]
Florin et al, 2020 [ID# 72]	186	1515	12.28	[10.67; 14.04]
Ge et al, 2020 [ID# 78]	339	2009	16.87	[15.26; 18.58]
Giardino et al, 2020 [ID# 80]	780	1059	73.65	[70.89; 76.29]
Gu et al, 2020 [ID# 83]	77	522	14.75	[11.82; 18.09]
Gualano et al, 2020 [ID# 84]	624	1515	41.19	[38.70; 43.71]
Gupta et al, 2020 [ID# 86]	20	379	5.28	[3.25; 8.03]
Gupta et al, 2020 [ID# 86]	63	579	10.88	[8.46; 13.71]
Hao et al, 2020 [ID# 87]	23	185	12.43	[8.05; 18.07]
Haravuori et al, 2020 [ID# 88]	1997	4804	41.57	[40.17; 42.98]
Hendrickson et al, 2020 [ID# 90]	33	118	27.97	[20.10; 36.98]
Huang et al, 2020 [ID# 93]	289	1172	24.66	[22.21; 27.23]
Jain et al, 2020 [ID# 100]	310	512	60.55	[56.16; 64.81]
Juanjuan et al, 2020 [ID# 103]	349	658	53.04	[49.14; 56.91]
Khanal et al, 2020 [ID# 109]	161	475	33.89	[29.64; 38.35]
Khoury et al, 2021 [ID# 110]	119	303	39.27	[33.74; 45.02]
Kilgore et al, 2020 [ID# 112]	568	1013	56.07	[52.95; 59.16]
Kocavska et al, 2020 [ID# 113]	446	667	66.87	[63.15; 70.43]
Kokou-Kpolou et al, 20				