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| --- | --- | --- | --- | --- | --- | --- | --- |
| Characteristics | Categories | Depression | | | No-Depression | | |
| Excessive smartphone use | | | | | |
| Using Low  (n = 611,251) | Using Much  (n = 89,660) |  | Using Low  (n =1,753,898) | Using Much  (n = 154,129) | ) |
| n (%) | n (%) | n (%) | n (%) |
|  | Suicidal ideation |  |  | <.0001 |  |  | <.0001 |
| Suicide related behavior | Yes | 200,042(32.7) | 37,075(41.4) |  | 86,440(4.9) | 10,377(6.7) |  |
| No | 411,209(67.3) | 52,586(58.7) |  | 1,667,458(95.1) | 143,752(93.3) |  |
| Suicidal plan |  |  | <.0001 |  |  | <.0001 |
| Yes | 70,630(11.6) | 14,571(16.3) |  | 26,979(1.5) | 3,463(2.2) |  |
| No | 540,622(88.4) | 75,089(83.7) |  | 1,726,919(98.5) | 150,666(97.8) |  |
| Suicidal attempt |  |  | <.0001 |  |  | <.0001 |
| Yes | 40,694(6.7) | 10,326(11.5) |  | 13,339(0.8) | 2,351(1.5) |  |
| No | 570,557(93.3) | 79,334(88.5) |  | 1,740,558(99.2) | 151,779(98.5) |  |
| Sex | Male | 268,979(44.0) | 30,471(34.0) | <.0001 | 971,861(55.4) | 75,265(48.8) | <.0001 |
| Female | 342,272(56.0) | 59,189(66.0) | <.0001 | 782,037(44.6) | 78,864(51.2) | <.0001 |
| School year | Middle school | 307,151(50.2) | 40,285(44.9) | <.0001 | 909,366(51.8) | 66,366(43.1) | <.0001 |
| High school | 304,100(49.8) | 49,375(55.1) | <.0001 | 844,532(48.2) | 87,763(56.9) | <.0001 |
| Year | 2020 | 113,102(85.3) | 19,509(14.7) | <.0001 | 357,750(90.9) | 36,017(9.1) | <.0001 |
| 2021 | 119,726(85.0) | 21,107(15.0) | <.0001 | 349,918(90.9) | 35,167(9.1) | <.0001 |
| 2022 | 130,384(87.7) | 18,319(12.3) | <.0001 | 338,794(91.8) | 30,337(8.2) | <.0001 |
| 2023 | 118,296(88.2) | 15,901(11.8) | <.0001 | 353,376(92.5) | 28,820(7.5) | <.0001 |
| 2024 | 129,743(89.7) | 14,824(10.3) | <.0001 | 354,059(93.7) | 23,789(6.3) | <.0001 |
| Academic grade | Upper | 215,859(35.3) | 16,898(18.8) | <.0001 | 721,710(41.1) | 32,031(20.8) | <.0001 |
| Middle | 177,625(29.1) | 19,666(21.9) | <.0001 | 541,939(30.9) | 40,991(26.6) | <.0001 |
| Lower | 217,737(35.6) | 53,097(59.2) | <.0001 | 490,162(27.9) | 81,106(52.6) | <.0001 |
| Economic status | High | 249,593(40.8) | 27,959(31.2) | <.0001 | 767,543(43.8) | 49,958(32.4) | <.0001 |
| Middle | 272,868(44.6) | 40,994(45.7) | <.0001 | 824,573(47.0) | 79,764(51.8) | <.0001 |
| Low | 88,735(14.5) | 20,708(23.1) | <.0001 | 161,687(9.2) | 24,407(15.8) | <.0001 |
| Living with family | With family | 581,326(95.1) | 85,328(95.2) | <.0001 | 1,688,188(96.3) | 148,418(96.3) | <.0001 |
| With relatives | 4,089(0.7) | 603(0.7) | <.0001 | 7,238(0.4) | 795(0.5) | <.0001 |
| Boarding house | 5,189(0.8) | 960(1.1) | <.0001 | 7,392(0.4) | 1,027(0.7) | <.0001 |
| Dormitory | 17,660(2.9) | 1,686(1.9) | <.0001 | 46,868(2.7) | 2,805(1.8) | <.0001 |
| Orphanage | 2,900(0.5) | 1,083(1.2) | <.0001 | 4,079(0.2) | 1,084(0.7) | <.0001 |
| Subjective health status | Good | 335,532(54.9) | 40,779(45.5) | <.0001 | 1,238,734(70.6) | 96,421(62.6) | <.0001 |
| Normal | 183,197(30.0) | 28,580(31.9) | <.0001 | 399,169(22.8) | 41,725(27.1) | <.0001 |
| Bad | 92,523(15.1) | 20,301(22.6) | <.0001 | 115,995(6.6) | 15,984(10.4) | <.0001 |
| Subjective sleep Sufficiency status | Good | 97,259(15.9) | 11,466(12.8) | <.0001 | 498,014(28.4) | 37,245(24.2) | <.0001 |
| Normal | 175,248(28.7) | 22,921(25.6) | <.0001 | 594,074(33.9) | 51,894(33.7) | <.0001 |
| Bad | 338,744(55.4) | 55,273(61.6) | <.0001 | 661,809(37.7) | 64,990(42.2) | <.0001 |
| Perceived stress | Much | 397,234(65.0) | 66,043(73.7) | <.0001 | 494,757(28.2) | 53,269(34.6) | <.0001 |
| Normal | 182,604(29.9) | 20,098(22.4) | <.0001 | 857,659(48.9) | 68,269(44.3) | <.0001 |
| Less | 31,413(5.1) | 3,519(3.9) | <.0001 | 401,482(22.9) | 32,591(21.1) | <.0001 |
| General anxiety disorder | Normal | 211,250(34.6) | 25,328(28.2) | <.0001 | 1,324,839(75.5) | 110,789(71.9) | <.0001 |
| Mild | 217,789(35.6) | 30,438(33.9) | <.0001 | 329,083(18.8) | 30,980(20.1) | <.0001 |
| Moderate | 112,067(18.3) | 186,69(20.8) | <.0001 | 75,732(4.3) | 8,845(5.7) | <.0001 |
| Severe | 701,45(11.5) | 15,226(17.0) | <.0001 | 24,245(1.4) | 3,515(2.3) | <.0001 |
| Loneliness | Much | 233,065(38.1) | 42,476(47.4) | <.0001 | 147,403(8.4) | 18,795(12.2) | <.0001 |
| Normal | 263,392(43.1) | 34,525(38.5) | <.0001 | 596,992(34) | 54,653(35.5) | <.0001 |
| Less | 114,793(18.8) | 12,658(14.1) | <.0001 | 1,009,502(57.6) | 80,681(52.3) | <.0001 |
| Violence experience | Yes | 24,153(4.0) | 4,808(5.4) | <.0001 | 224,23(1.3) | 3,074(2.0) | <.0001 |
| No | 587,098(96.0) | 84,853(94.6) | <.0001 | 1,731,475(98.7) | 151,055(98.0) | <.0001 |