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| **Supplemental Table 1. Socio-demographic associations of clinical diagnosis of AD among US children (n=135,272).** |
| **Characteristic** | **AD** |
| **No** | **Yes** |
| **Wtdfreq** | **% Prev****[95% CI]** | **Wtdfreq** | **% Prev****[95% CI]** | **Rao-Scott****P-value** |
| **Sex** |  |  |  | 0.71 |
|  Male | 573642108 | 51.3 [50.9, 51.8] | 20112755 | 51.8 [49.8, 53.9] |  |
|  Female | 543780316 | 48.7 [48.2, 49.1] | 18705170 | 48.2 [46.1, 50.2] |  |
| **Age (years)** |  |  |  | **<0.0001** |
|  ≤5 | 367814850 | 32.9 [32.5, 33.4] | 18181805 | 46.8 [44.7, 48.9] |  |
|  6-11 | 374896049 | 33.6 [33.1, 34.0] | 11644123 | 30.0 [28.2, 31.8] |  |
|  12-17 | 374711526 | 33.5 [33.1, 34.0] | 8991997 | 23.2 [21.4, 24.9] |  |
| **Income** |  |  |  | 0.29 |
|  Poor, near poor, low | 429948862 | 38.5 [37.5, 39.4] | 14472880 | 37.3 [35.2, 39.4] |  |
|  Middle income | 361424604 | 32.3 [31.7, 33.0] | 13197021 | 34.0 [32.1, 35.9] |  |
|  High income | 326048959 | 29.2 [28.3, 30.0] | 11148024 | 28.7 [26.5, 30.9] |  |
| **Race** |  |  |  | **<0.0001** |
|  White | 612810444 | 54.8 [53.4, 56.3] | 19914100 | 51.3 [48.2, 54.4] |  |
|  Black | 98723585 | 8.8 [8.1, 9.6] | 5301822 | 13.7 [11.9, 15.4] |  |
|  Multiracial/other | 405727560 | 36.3 [35.0, 37.6] | 13602003 | 35.0 [32.4, 37.7] |  |
| **Region** |  |  |  | **0.002** |
|  Northeast | 192416298 | 17.2 [15.9, 18.5] | 7502033 | 19.3 [16.4, 22.3] |  |
|  Midwest | 258953890 | 23.2 [21.8, 24.5] | 9384522 | 24.2 [21.5, 26.8] |  |
|  South | 398150683 | 35.6 [34.0, 37.2] | 7601589 | 19.6 [17.5, 21.6] |  |
|  West | 267901554 | 24.0 [22.6, 25.4] | 38817925 | 19.6 [17.5, 21.6] |  |
| **Insurance coverage** |  |  |  | **<0.0001** |
|  Private | 732176404 | 65.5 [64.5, 66.6] | 25889398 | 66.7 [64.6, 68.8] |  |
|  Public | 318386832 | 28.5 [27.5, 29.5] | 11496519 | 29.6 [27.6, 31.7] |  |
|  None | 66859189 | 6.0 [5.7, 6.3] | 1432008 | 3.7 [2.9, 4.5] |  |

Bold face indicate statistically significant P-values.