**Supporting information**

**S1 Table.** Descriptive analysis (% or mean, 95% CI) of sample profiles concerning demographic, body composition and physical activity variables in participants from the ELANS study.

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | Argentina | Brazil | Chile | Colombia | Costa Rica | Ecuador | Peru | Venezuela |
| N | 270 | 490 | 210 | 294 | 252 | 237 | 308 | 307 |
| Sex (% [95% CI]) |
| Male | 43.7 (37.4 to 49.6) | 46.1(41.4 to 50.6) | 48.1(41.0 to 54.8) | 50.7(45.2 to 59.0) | 46.8(40.9 to 53.2) | 51.1(42.6 to 59.1) | 47.7(41.6 to 53.2) | 51.5(45.6 to 57.3) |
| Female | 56.3(50.4 to 62.6) | 53.9(49.4 to 58.6) | 51.9(45.2 to 59.0) | 49.3(43.5 to 54.8) | 53.2(46.8 to 59.1) | 48.9(42.6 to 55.7) | 52.3(46.8 to 58.4) | 48.5(42.7 to 54.4) |
| Age (% [95% CI]) |
| 15-19 | 10.4 (6.7 to 14.4) | 11.0(8.6 to 14.1) | 12.4(8.1 to 17.1) | 11.2(7.5 to 15.0) | 13.5(9.9 to 17.9) | 14.3(9.7 to 19.0) | 14.0(10.4 to 17.9) | 13.4(9.4 to 17.3) |
| 20-34 | 29.6 (24.1 to 34.8) | 37.1(32.9 to 41.4) | 36.2(30.5 to 42.4) | 34.7(29.3 to 40.5) | 35.3(29.8 to 41.3) | 40.9(34.6 to 46.8) | 39.6(33.8 to 45.1) | 43.3(38.1 to 48.9) |
| 35-49 | 33.7 (28.1 to 39.6) | 28.4(24.7 to 32.2) | 27.6(21.9 to 33.8) | 26.9(21.8 to 32.3) | 31.0(25.8 to 36.9) | 28.3(22.8 to 33.8) | 25.6(20.5 to 30.8) | 27.0(22.2 to 31.9) |
| 50-65 | 26.3 (20.7 to 31.5) | 23.5(19.8 to 27.1) | 23.8(18.1 to 30.0) | 27.2(22.1 to 32.0) | 20.2(15.5 to 25.0) | 16.5(11.8 to 21.5) | 20.8(16.6 to 25.3) | 16.3(12.1 to 20.2) |
| M (SD) | 38.9 (14.2) | 37.5 (14.1) | 36.7 (14.2) | 38.0 (14.6) | 36.3 (13.8) | 34.5 (14.2) | 35.3 (14.0) | 34.5 (13.9) |
| Socioeconomic level (% [95% CI]) |
| Low | 52.2(46.3 to 58.5) | 43.7(39.2 to 48.2) | 37.6(31.4 to 43.8) | 62.6(57.1 to 68.0) | 34.1(28.2 to 40.1) | 46.0(40.1 to 52.7) | 46.8(40.9 to 52.9) | 81.4(77.2 to 85.7) |
| Medium | 43.7(37.8 to 50.0) | 49.6(45.3 to 54.1) | 51.4(44.8 to 58.1) | 32.3(27.6 to 37.6) | 54.4(34.2 to 46.8) | 40.5(34.2 to 46.8) | 29.5(24.4 to 35.1) | 14.3(10.1 to 18.2) |
| High | 4.1(1.9 to 6.3) | 6.7(4.5 to 9.2) | 11.0(7.1 to 15.7) | 5.1(2.7 to 7.5) | 11.5(7.5 to 15.5) | 13.5(9.7 to 18.1) | 23.7(19.2 to 28.9) | 4.2(2.0 to 6.5) |
| Race/ethnicity (% [95% CI]) |
| White | 68.9(63.7 to 74.4) | 40.8(36.3 to 45.1) | 29.5(23.3 to 35.7) | 28.6(23.5 to 34.0) | 50.4(44.5 to 56.7) | 3.4(1.3 to 5.9) | 10.1(6.8 to 13.3) | 42.0(36.2 to 47.9) |
| Mixed | 28.1(22.6 to 33.3) | 20.6(17.1 to 24.3) | 67.6(61.4 to 73.8) | 58.5(52.4 to 63.9) | 35.7(29.8 to 41.7) | 93.2(89.9 to 96.2) | 89.0(85.4 to 92.5) | 48.2(42.0 to 54.1) |
| Other | 3.0(1.1 to 5.2) | 38.6(34.5 to 43.3) | 2.9(1.0 to 5.2) | 12.9(9.2 to 17.0) | 13.9(9.5 to 17.9) | 3.4(1.3 to 5.5) | 1.0(0.1 to 2.3) | 9.8(6.5 to 13.0) |
| BMI (kg/m2) | 27.4 (26.7 to 28.1) | 27.1 (26.6 to 27.6) | 27.8 (27.1 to 28.5) | 25.4 (24.9 to 25.9) | 27.7 (26.9 to 28.4) | 26.3 (25.6 to 26.9) | 27.0 (26.4 to 27.5) | 26.7 (26.1 to 27.4) |
| NC (cm) | 36.0 (35.6 to 36.5) | 34.6 (34.2 to 35.0) | 37.3 (36.8 to 37.8) | 35.1 (34.7 to 35.4) | 36.5 (36.0 to 37.0) | 34.9 (34.5 to 35.4) | 35.6 (35.1 to 36.0) | 36.1 (35.7 to 36.6) |
| WC (cm) | 89.7 (87.9 to 91.6) | 87.7 (86.4 to 89.0) | 92.6 (90.8 to 94.4) | 84.7 (83.3 to 86.1) | 92.0 (90.2 to 93.7) | 86.4 (84.9 to 87.9) | 88.1 (86.7 to 89.5) | 87.8 (86.2 to 89.4) |
| Accelerometer (min/day [95% CI]) |
| Moderate | 31.5 (28.9 to 34.0) | 33.1 (31.0 to 35.3) | 39.5 (36.4-42.6) | 33.3 (30.7-35.8) | 30.5 (27.5 to 33.5) | 39.1 (35.6 to 42.5) | 34.8 (32.0 to 37.6) | 30.7 (28.3 to 33.1) |
| Vigorous | 0.62 (0.36 to 0.87) | 0.67 (0.49 to 0.85) | 0.82 (0.55 to 1.08) | 0.47 (0.28 to 0.65) | 0.86 (0.55 to 1.16) | 0.72 (0.50 to 0.95) | 0.50 (0.31 to 0.70) | 0.40 (0.23 to 0.56) |
| MVPA | 32.2 (29.5 to 34.8) | 33.8 (31.6 to 36.0) | 40.4 (37.2 to 43.6) | 33.7 (31.1 to 36.4) | 31.5 (28.4 to 34.6) | 39.8 (36.3 to 43.4) | 35.3 (32.5 to 38.2) | 31.1 (28.7 to 33.6) |
| Sedentary | 583.7 (567.8 to 599.9) | 561.5(550.6 to 572.5) | 560.0(546.3 to 576.4) | 570.8 (557.9 to 583.3) | 565.0 (550.7 to 580.3) | 573.8(558.4 to 588.1) | 597.5 (584.3 to 610.8) | 575.1 (562.5 to 588.6) |
| IPAQ (min/day [95% CI]) |
| Moderate (1) | 35.6 (29.4 to 41.8) | 32.7 (28.4 to 37.1) | 52.4 (43.0 to 61.8) | 41.4 (35.3 to 47.6) | 42.9 (36.5 to 49.3) | 60.0 (51.1 to 68.9) | 38.3 (32.5 to 44.1) | 19.9 (16.1 to 23.8) |
| Vigorous | 5.9 (3.7 to 8.0) | 6.1 (4.5 to 7.6) | 10.8 (7.7 to 13.9) | 6.9 (4.9 to 8.8) | 4.5 (2.9 to 6.1) | 10.6 (7.8 to 13.3) | 7.3 (5.3 to 9.4) | 4.9 (3.2 to 6.6) |
| MVPA | 41.5 (34.6 to 48.4) | 38.8 (33.9 to 43.7) | 63.2 (52.6 to 73.8) | 48.3 (41.3 to 55.4) | 47.4 (40.6 to 54.2) | 70.6 (61.1 to 80.0) | 45.6 (39.1 to 52.2) | 24.8 (20.6 to 29.1) |
| Sedentary | 275.1(257.6 to 293.1) | 213.1 (199.3 to 226.7) | 245.1 (223.6 to 268.1) | 234.8 (216.9 to 253.1) | 227.8 (207.6 to 247.5) | 187.6 (172.9 to 203.5) | 275.0 (258.5 to 292.1) | 20.2 (190.2 to 221.0) |

M: mean; SD: standard deviation; BMI: body mass index; NC: neck circumference; WC: waist circumference: IPAQ: international physical activity questionnaire; MVPA: moderate to vigorous physical activity.

**(1)** moderate and moderate-to-vigorous physical activity for international physical activity questionnaire include walking and cycling.