**Supplementary Table S1** The distribution of EBP, EPP and EMAP of school-age children with different BMI

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | Normal BMI | Overweight | Obesity | *χ*2 | *P* value |
| Overall |  |  |  |  |  |
| Normal BP | 248 (80.78) | 156 (68.42) | 202 (50.50) | 73.28 | <0.0001\* |
| Pre-EBP | 27 (8.79) | 29 (12.72) | 63 (15.75) |
| EBP | 32 (10.42) | 43 (18.86) | 135 (33.75) |
| Normal PP | 295 (96.09) | 204 (89.47) | 340 (85.00) | 23.21 | <0.0001 |
| EPP | 12 (3.91) | 24 (10.53) | 60 (15.00) |
| Normal MAP | 300 (97.72) | 210 (92.11) | 332 (83.00) | 43.43 | <0.0001 |
| EMAP | 7 (2.28) | 18 (7.89) | 68 (17.00) |
| Boys |  |  |  |  |  |
| Normal BP | 141 (83.93) | 101 (71.13) | 110 (46.61) | 62.79 | <0.0001\* |
| Pre-EBP | 13 (7.74) | 19 (13.38) | 41 (17.37) |
| EBP | 14 (8.33) | 22 (15.49) | 85 (36.02) |
| Normal PP | 161(95.83) | 125 (88.03) | 194 (82.20) | 17.16 | <0.0001 |
| EPP | 7 (4.17) | 17 (11.97) | 42 (17.80) |
| Normal MAP | 165 (98.21) | 133 (93.66) | 195 (82.63) | 29.69 | <0.0001 |
| EMAP | 3 (1.79) | 9 (6.34) | 41 (17.37) |
| Girls |  |  |  |  |  |
| Normal BP | 107 (76.98) | 55 (63.95) | 92 (56.10) | 15.65 | <0.0001\* |
| Pre-EBP | 14 (10.07) | 10 (11.63) | 22 (13.41) |
| EBP | 18 (12.95) | 21 (24.42) | 50 (30.49) |
| Normal PP | 134 (96.40) | 79 (91.86) | 146 (89.02) | 5.78 | 0.055 |
| EPP | 5 (3.60) | 7 (8.14) | 18 (10.98) |
| Normal MAP | 135 (97.12) | 77 (89.53) | 137 (83.54) | 15.06 | 0.001 |
| EMAP | 4 (2.88) | 9 (10.47) | 27 (16.46) |

Data are no. (%).

EBP, elevated blood pressure; EPP, elevated pulse pressure; EMAP, elevated mean arterial pressure.

\**P*trend, linear-by-linear association of Chi-square test.