**Table S2** Post-hoc analysis for BMI, total fat mass, insulin and hs-CRP

| Variable                  | Group comparison          | Mean difference | *P* value (Bonferroni) |
|---------------------------|---------------------------|-----------------|------------------------|
| **BMI (z score)**         | ROB vs. NOB               | 2.22            | <0.001                 |
|                           | FOB vs. NOB               | 0.62            | <0.001                 |
|                           | POB vs. NOB               | 2.40            | <0.001                 |
|                           | FOB vs. ROB               | -1.59           | <0.001                 |
|                           | POB vs. ROB               | 0.18            | NS                     |
|                           | POB vs. FOB               | 1.77            | <0.001                 |
| **Total Fat Mass (%)**    | ROB vs. NOB               | 14.2            | <0.001                 |
|                           | FOB vs. NOB               | 4.3             | <0.001                 |
|                           | POB vs. NOB               | 15.6            | <0.001                 |
|                           | FOB vs. ROB               | -9.8            | <0.001                 |
|                           | POB vs. ROB               | 1.4             | NS                     |
|                           | POB vs. FOB               | 11.2            | <0.001                 |
| **Insulin (mU/I/ml)**     | ROB vs. NOB               | 6.6             | <0.001                 |
|                           | FOB vs. NOB               | 0.9             | NS                     |
|                           | POB vs. NOB               | 6.6             | <0.001                 |
|                           | FOB vs. ROB               | -5.7            | <0.001                 |
|                           | POB vs. ROB               | -0.03           | NS                     |
|                           | POB vs. FOB               | 5.7             | <0.001                 |
| **hs C-Reactive Protein (mg/L)** | ROB vs. NOB | 1.01            | 0.001                  |
|                           | FOB vs. NOB               | 0.17            | NS                     |
|                           | POB vs. NOB               | 0.81            | 0.009                  |
|                           | FOB vs. ROB               | -0.84           | 0.034                  |
|                           | POB vs. ROB               | -0.21           | NS                     |
|                           | POB vs. FOB               | 0.64            | 0.028                  |

*Post-hoc* analysis for different groups by Bonferroni: participants who were never obese (NOB); participants with obesity during adolescence (recent-onset obese, ROB); participants who were obese in early childhood but transitioned to normal weight as preadolescents (formerly obese, FOB); and participants who were obese in early childhood and remained obese (persistently obese, POB).