**Table S5. Association analyses of calorie and macronutrient intakes with obesity**

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| **Study** | **environmental effect** | **obesity** | |
| **OR (95% CI)** | ***P*** |
| **KARE** | calorie intake (1-SD) | 1.086 (1.040-1.135) | **2.24E-04** |
| protein (1-SD) | 1.087 (1.040-1.136) | **2.29E-04** |
| fat (1-SD) | 1.044 (0.998-1.091) | 6.24E-02 |
| carbohydrate (1-SD) | 1.089 (1.042-1.137) | **1.43E-04** |
| **CAVAS** | calorie intake (1-SD) | 1.148 (1.098-1.201) | **1.51E-09** |
| protein (1-SD) | 1.137 (1.087-1.190) | **2.67E-08** |
| fat (1-SD) | 1.061 (1.014-1.110) | 1.01E-02 |
| carbohydrate (1-SD) | 1.148 (1.099-1.200) | **5.45E-10** |
| **HEXA** | calorie intake (1-SD) | 1.074 (1.039-1.111) | **2.30E-05** |
| protein (1-SD) | 1.072 (1.037-1.107) | **3.00E-05** |
| fat (1-SD) | 1.048 (1.014-1.083) | 5.73E-03 |
| carbohydrate (1-SD) | 1.067 (1.032-1.103) | **1.32E-04** |

The associations of calorie and macronutrient intakes (per 1-SD) with obesity were analyzed by logistic regression model, adjusted for age, sex and recruitment area in KARE and adjusted for age and sex in CAVAS and HEXA.; The significance threshold P < 2.08E-03 (0.05 / 24 through multiple correction)

OR: odds ratio; CI: confidence interval.