**S1 Table: Exposures and covariates selected a priori for the three endogenous variables (BP, BMI z-score and FA and D5D index) as well as after model modification based on fit indices and theoretical considerations (final model)**

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| --- | --- | --- |
| **Endogenous variable** | **Exposures and covariates in a priori defined path model** | **Exposures and covariates in the final path model** |
| SBP and DBP z-scores | SNP, FA, BMI z-score, age, sex, educational level of parents, country, consumption of salty/snack foods, family history of hypertension, average media time, birth weight, LDL, TG | SNP, FA, BMI z-score, age, sex, educational level of parents, country, consumption of salty/snack foods, family history of hypertension, average media time, birth weight, LDL, TG, SFA and MUFA levels |
| BMI z-score | SNP, FA, age, sex, educational level of parents, country, consumption of salty/snack foods, average media time, birth weight  | SNP, FA, age, sex, educational level of parents, country, consumption of salty/snack foods, average media time, birth weight, SFA and MUFA levels, family history of hypertension |
| FA(DGLA, ARA, EPA, D5D) | SNP, age, sex, educational level of parents, country, consumption of salty/snack foods (for DGLA, ARA and D5D only), average media time, birth weight, consumption of fish (for EPA only), SFA and MUFA levels, LDL, TG | SNP, age, sex, educational level of parents, country, consumption of salty/snack foods (for DGLA, ARA and D5D only), average media time, birth weight, consumption of fish (for EPA only), SFA and MUFA levels, LDL, TG |