



Figure S8 Trend in prevalence of obesity by metabolic status phenotype in different age and gender groups in Beijing and Hunan Adults from 2012 to 2020*

*Estimates for overall population are adjusted by gender; Significant linear trends ($P < 0.05$) for the following groups: (1) decreased MHNO among all aged and gender groups from Hunan; (2) increased MHNO among 40-59 aged male group and 60 and over aged group from Beijing; (3) decreased MUNO among 20-39 aged group and 40-59 aged female from Beijing; (4) increased MUNO among all aged and gender groups from Hunan; (5) increased MHO among all 20-39 and 40-59 aged groups, and 60 and over aged male from Beijing; (6) decreased MHO among 40-59 aged female and all 60 and over aged groups from Hunan ($P < 0.05$); (7) decreased MUO among 60 and over aged groups from Beijing; (8) increased MUO among all 20-39 and 40-59 aged groups from Hunan.

Abbreviation: MHNO, metabolic healthy non-obese; MUNO, metabolic unhealthy non-obese; MHO, metabolic healthy obese; MUO: metabolic unhealthy obese; APC, annual percentage change