## Additional file 1

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| **Additional file 1** Mean (SD) changes in BMI (kg/m2) over time in the cancer group and comparison group in the two cohorts, and *p* values for the group by time interaction, by sex and weight status |
|  | **ELSA cohort** |
|  | **Men** |  | **Women** |
|  | **Cancer group** | **Comparison group** | ***p*** |  | **Cancer group** | **Comparison group** | ***p*** |
| **Weight status** |  |  |  |  |  |  |  |
|  | Normal weight | +0.17 (1.31) | +0.08 (0.69) |  .540 |  | +0.15 (1.80) | +0.09 (0.87) |  .724 |
|  | Overweight | -0.12 (1.44) | +0.18 (0.93) |  .054 |  | +0.09 (2.61) | +0.23 (1.35) |  .567 |
|  | Obese | +0.40 (1.53) | +0.21 (1.35) |  .557 |  | -0.70 (3.54) | +0.13 (1.58) |  .013 |
|  | **HRS cohort** |
|  | **Men** |  | **Women** |
|  | **Cancer group** | **Comparison group** | ***p*** |  | **Cancer group** | **Comparison group** | ***p*** |
| **Weight status** |  |  |  |  |  |  |  |
|  | Normal weight | +0.03 (2.32) | -0.05 (0.56) |  .493 |  | +0.09 (2.27) | +0.03 (0.70) |  .462 |
|  | Overweight | -0.10 (2.44) | +0.04 (0.73) |  .103 |  | -0.22 (3.07) | +0.14 (0.93) | <.001 |
|  | Obese | -0.77 (3.19) | +0.28 (1.05) | <.001 |  | -0.68 (3.83) | +0.26 (1.38) | <.001 |
| All values are adjusted for age and wealth. |