

Supplementary Table 5. Effect of anthropometric indices on the incident diabetes among those who experienced a weight change of $\geq |10\%$ from the baseline until the event was observed

| Anthropometric & body composition indices | Baseline measurements | | | | Repeated measurements | | | | Repeated vs. Baseline measurements | | | |
|---|-----------------------|--------------------|--------------------|---------|-----------------------|--------------------|--------------------|---------|---|-------|--------------|--------------|
| | Harrell's C-index | Lower 95% CI | Upper 95% CI | LR test | Harrell's C-index | Lower 95% CI | Upper 95% CI | LR test | <i>P</i> for Δ Harrell's C-index | cNRI | Lower 95% CI | Upper 95% CI |
| Men (n = 606) | | | | | | | | | | | | |
| Basic model | 0.681 | 0.616 | 0.746 | Ref | 0.681 | 0.616 | 0.746 | Ref | | | | |
| Basic model+ ABSI | 0.695 ^b | 0.628 ^b | 0.762 ^b | 0.074 | 0.695 ^b | 0.630 ^b | 0.760 ^b | 0.128 | 0.983 | - | - | - |
| Basic model+ BAI | 0.681 ^b | 0.616 ^b | 0.746 ^b | >0.999 | 0.692 ^b | 0.621 ^b | 0.763 ^b | 0.214 | 0.515 | - | - | - |
| Basic model+ WC | 0.708 ^{ab} | 0.645 ^b | 0.771 ^b | 0.004 | 0.701 ^b | 0.630 ^b | 0.772 ^b | 0.008 | 0.751 | - | - | - |
| Basic model+ BMI | 0.690 ^b | 0.625 ^b | 0.755 ^b | 0.174 | 0.691 ^b | 0.622 ^b | 0.760 ^b | 0.124 | 0.942 | - | - | - |
| Basic model+ WHR | 0.707 ^b | 0.642 ^b | 0.772 ^b | 0.003 | 0.691 ^b | 0.622 ^b | 0.760 ^b | 0.050 | 0.454 | - | - | - |
| Basic model+ weight-adjusted SMI | 0.707 ^b | 0.646 ^b | 0.768 ^b | 0.062 | 0.718 ^{ab} | 0.653 ^b | 0.783 ^b | 0.002 | 0.554 | - | - | - |
| Basic model+ PBF | 0.703 ^b | 0.640 ^b | 0.766 ^b | 0.026 | 0.716 ^b | 0.651 ^b | 0.781 ^b | 0.002 | 0.508 | - | - | - |
| Basic model+ FMR | 0.703 ^b | 0.642 ^b | 0.764 ^b | 0.044 | 0.714 ^b | 0.649 ^b | 0.779 ^b | 0.005 | 0.542 | - | - | - |
| Women (n = 838) | | | | | | | | | | | | |
| Basic model | 0.645 | 0.578 | 0.712 | Ref | 0.645 | 0.578 | 0.712 | Ref | | | | |
| Basic model+ ABSI | 0.650 ^b | 0.585 ^b | 0.717 ^b | >0.999 | 0.656 ^b | 0.591 ^b | 0.721 ^b | 0.088 | 0.678 | - | - | - |
| Basic model+ BAI | 0.662 ^b | 0.595 ^b | 0.729 ^b | 0.180 | 0.695 ^b | 0.632 ^b | 0.758 ^b | <0.001 | 0.052 | - | - | - |
| Basic model+ WC | 0.670 ^{ab} | 0.605 ^b | 0.735 ^b | 0.021 | 0.708 ^b | 0.647 ^b | 0.769 ^b | <0.001 | 0.031 | 0.317 | 0.105 | 0.530 |
| Basic model+ BMI | 0.667 ^b | 0.600 ^b | 0.734 ^b | 0.009 | 0.702 ^b | 0.637 ^b | 0.767 ^b | <0.001 | 0.059 | - | - | - |
| Basic model+ WHR | 0.664 ^b | 0.599 ^b | 0.729 ^b | 0.082 | 0.698 ^b | 0.637 ^b | 0.759 ^b | <0.001 | 0.030 | 0.332 | 0.122 | 0.543 |
| Basic model+ weight-adjusted SMI | 0.651 ^b | 0.582 ^b | 0.720 ^b | 0.661 | 0.712 ^b | 0.651 ^b | 0.773 ^b | <0.001 | 0.003 | 0.466 | 0.276 | 0.656 |
| Basic model+ PBF | 0.650 ^b | 0.581 ^b | 0.719 ^b | 0.627 | 0.711 ^b | 0.650 ^b | 0.772 ^b | <0.001 | 0.003 | 0.490 | 0.303 | 0.676 |
| Basic model+ FMR | 0.650 ^b | 0.582 ^b | 0.719 ^b | 0.541 | 0.713 ^{ab} | 0.652 ^b | 0.773 ^b | <0.001 | 0.001 | 0.462 | 0.263 | 0.661 |

The basic model included age, education levels, physical activity, alcohol intake, current smoking, total energy intake, dietary diversity score, and log-transformed C-reactive protein levels, and quartiles of unweighted genetic risk score at baseline. *P* for the LR test was presented as a Bonferroni-adjusted *P* value, taking into account the number of hypothesis tests. A blank for cNRI results means that Harrell's C-index of the prediction model using baseline measurements is comparable to Harrell's C-index of the prediction model using repeated measurements.

CI, confidence interval; LR, likelihood ratio; cNRI, continuous net reclassification improvement; ABSI, a body shape index; BAI, body adiposity index; WC, waist circumference; BMI, body mass index; WHR, waist-to-hip ratio; SMI, skeletal muscle index; PBF, percent body fat; FMR, fat-to-muscle ratio.

^aThe highest Harrell's C-index among the indices within the same column. ^bThe indices have a Bonferroni-adjusted *P* value greater than 0.05, indicating no significant difference between them within the same column.