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| **Supplemental Material 5. Comparison of discriminatory power of abdominal adiposity indexes in the detection of NAFLD by BMI subgroup** |
| **Sex** | **General / Abdominal adiposity index** | **AUC** |  | **Improved AUC** |  | **IDI** |  | **Category-based NRI** |  | **category-free NRI** |
| **Index** |  | **Index** | ***p*-value** |  | **Index** | ***p*-value** |  | **Index** | ***p*-value** |  | **Index** | ***p*-value** |
| **Men** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | **Normal** | **WC\*** | 0.639 |  | *reference* |  |  | *reference* |  | 　 | *reference* | 　 | 　 | *reference* | 　 |
|  |  | **WC + VFA** | **0.678** | 　 | 0.039 | 0.337 | 　 | 0.013 | 0.125 | 　 | 0.041 | 0.351 | 　 | **0.446** | 0.038 |
|  |  | **WC + SFA** | 0.640 | 　 | 0.001 | 0.885 | 　 | 0.000 | 0.801 | 　 | 0.000 | - | 　 | 0.025 | 0.907 |
|  |  | **WC + VSR** | 0.645 | 　 | 0.006 | 0.829 | 　 | 0.010 | 0.242 | 　 | 0.084 | 0.172 | 　 | 0.051 | 0.812 |
|  | **Overweight** | **WC\*** | 0.751 |  | *reference* |  |  | *reference* |  | 　 | *reference* | 　 | 　 | *reference* | 　 |
|  |  | **WC + VFA** | **0.803** | 　 | **0.053** | 0.004 | 　 | **0.051** | 0.001 | 　 | 0.116 | 0.088 | 　 | **0.448** | <0.001 |
|  |  | **WC + SFA** | 0.753 | 　 | 0.002 | 0.518 | 　 | 0.003 | 0.351 | 　 | 0.032 | 0.242 | 　 | 0.146 | 0.250 |
|  |  | **WC + VSR** | 0.786 | 　 | 0.036 | 0.018 | 　 | 0.037 | 0.005 | 　 | 0.051 | 0.395 | 　 | 0.320 | 0.012 |
|  | **Obese** | **WC\*** | 0.763 |  | *reference* |  |  | *reference* |  | 　 | *reference* | 　 | 　 | *reference* | 　 |
|  |  | **WC + VFA** | **0.780** | 　 | **0.018** | 0.013 | 　 | **0.023** | <0.001 | 　 | 0.050 | 0.081 | 　 | **0.315** | <0.001 |
|  |  | **WC + SFA** | 0.765 | 　 | 0.002 | 0.388 | 　 | 0.002 | 0.197 | 　 | 0.010 | 0.523 | 　 | 0.091 | 0.255 |
|  |  | **WC + VSR** | 0.777 | 　 | 0.014 | 0.032 | 　 | 0.017 | <0.001 | 　 | **0.056** | 0.047 | 　 | 0.273 | <0.001 |
| **Women** |  |  | 　 | 　 | 　 | 　 | 　 | 　 | 　 | 　 | 　 | 　 | 　 | 　 | 　 |
|  | **Normal** | **WC\*** | 0.788 | 　 | *reference* | 　 | 　 | *reference* | 　 | 　 | *reference* | 　 | 　 | *reference* | 　 |
|  |  | **WC + VFA** | **0.850** | 　 | **0.062** | <0.001 | 　 | 0.080 | <0.001 | 　 | 0.232 | <0.001 | 　 | **0.602** | <0.001 |
|  |  | **WC + SFA** | 0.791 | 　 | 0.003 | 0.747 | 　 | 0.012 | 0.014 | 　 | 0.033 | 0.333 | 　 | 0.058 | 0.661 |
|  |  | **WC + VSR** | 0.841 | 　 | 0.053 | 0.003 | 　 | **0.093** | <0.001 | 　 | **0.241** | <0.001 | 　 | 0.481 | <0.001 |
|  | **Overweight** | **WC\*** | 0.624 |  | *reference* |  |  | *reference* |  | 　 | *reference* | 　 | 　 | *reference* | 　 |
|  |  | **WC + VFA** | 0.748 | 　 | 0.124 | <0.001 | 　 | 0.063 | <0.001 | 　 | 0.192 | 0.007 | 　 | 0.594 | <0.001 |
|  |  | **WC + SFA** | 0.687 | 　 | 0.063 | 0.041 | 　 | 0.028 | <0.001 | 　 | 0.107 | 0.035 | 　 | 0.426 | <0.001 |
|  |  | **WC + VSR** | **0.755** | 　 | **0.131** | <0.001 | 　 | **0.070** | <0.001 | 　 | **0.233** | <0.001 | 　 | **0.702** | <0.001 |
|  | **Obese** | **WC\*** | 0.707 |  | *reference* |  |  | *reference* |  | 　 | *reference* | 　 | 　 | *reference* | 　 |
|  |  | **WC + VFA** | 0.788 | 　 | 0.080 | <0.001 | 　 | 0.099 | <0.001 | 　 | 0.282 | <0.001 | 　 | 0.621 | <0.001 |
|  |  | **WC + SFA** | 0.767 | 　 | 0.060 | <0.001 | 　 | 0.073 | <0.001 | 　 | 0.263 | <0.001 | 　 | 0.522 | <0.001 |
|  |  | **WC + VSR** | **0.801** | 　 | **0.094** | <0.001 | 　 | **0.129** | <0.001 | 　 | **0.329** | <0.001 | 　 | **0.669** | <0.001 |
| NAFLD = non-alcoholic fatty liver disease; AUC = area under the receiver operating characteristic curve; IDI = integrated discrimination improvement; NRI = net reclassification improvement; VFA = visceral fat area; SFA = subcutaneous fat area; VSR = visceral-to-subcutaneous fat ratio; WC= waist circumference; BMI, body mass index. |
| For the category-based NRI, risk cut-offs of 20% and 50% were used.  |
| \* The WC-based model is adjusted for age, body mass index and WC. |
| Normal (BMI < 23), overweight (23 ≤ BMI < 25) and obese (BMI ≥ 25). |