**LEGEND**

**Additional Table S1**: Incidence rates, and adjusted incidence rate ratios (95% CI) for major cardiovascular events (myocardial infarction, heart failure or stroke) in T2DM cases and matched non-diabetic controls without established commorbidities at index date. Data are presented for all subjects, and seperately by BMI categories at index date.

**Additional Table S2**: Incidence rates, and adjusted incidence rate ratios (95% CI) for chronic kidney disease (stage ≥ 3) in T2DM cases and matched non-diabetic controls without established commorbidities at index date. Data are presented for all subjects, and seperately by BMI categories at index date.

**Additional Figure S1**: Age-sex standardised proportions [% (95 CI)] of selected non-cardiovascular diseases at diagnosis for patients with T2DM and their matched controls, separately for each ethnic group. **(A)** Proportion of patients with at cancer at diagnosis; **(B)** Proportion of patients with depression at diagnosis; **(C)** Proportion of patients with CKD (stage 1 to 5) at diagnosis CKD: Chronic kidney disease; WE: White European; AC: African-Caribbean; SA: South Asian.

**Additional file 1: Table S1**: Incidence rates, and adjusted incidence rate ratios (95% CI) for major cardiovascular events (myocardial infarction, heart failure or stroke) in T2DM cases and matched non-diabetic controls without established commorbidities at index date. Data are presented for all subjects, and seperately by BMI categories at index date.

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|  | **T2DM** | **Non-diabetic controls** |  |
|  | Follow-up § | Events (%) | IR (95% CI) | Follow-up § | Events (%) | IR (95% CI) | IRR (95% CI) ¶ |
| **White European (WE)** | **n=42,219** | **n=189,606** |  |
| All WE | 8 (4,11) | 3378(8) | 11.24(10.87,11.63) | 8(5,11) | 10854(6) | 7.88 (7.73, 8.03) | 1.33 (1.29,1.38) |
| Normal weight | 7 (4,11) | 252(1) | 12.96 (11.46,14.66) | 7 (4, 10) | 1145(1) | 8.18 (7.72, 8.67) | 1.20 (1.10, 1.32) |
| Overweight  | 8 (4,11) | 762(2) | 11.58 (10.79,12.43) | 8(5,11) | 8809(5) | 8.01 (7.85, 8.18) | 1.35 (1.29,1.42) |
| Obese  | 8 (4,11) | 2364(6) | 11.00 (10.55,11.43) | 7 (4,10) | 900(<1) | 6.51 (6.10, 6.95) | 1.35 (1.29,1.43) |
| **African-Caribbean(AC)** | **n=3,043** | **n=12,570** |  |
| All AC | 7 (4,10) | 107(4) | 5.23 (4.33, 6.32) | 7 (4,10) | 238(2) | 2.82 (2.48, 3.20) | 1.74 (1.34,2.25) |
| Normal weight | 7 (3, 9) | 9(<1) | 4.57 (2.38, 8.78) | 6 (4, 9) | 24(<1) | 3.79 (2.54, 5.65) | 0.99 (0.43,2.27) |
| Overweight  | 6 (3,9) | 20(1) | 4.58 (2.96, 7.10) | 7 (4,10) | 189(2) | 2.76 (2.39, 3.18) | 1.62 (1.11, 2.37) |
| Obese  | 7 (4,11) | 78(3) | 5.53 (4.43, 6.90) | 6 (3, 9) | 25(<1) | 2.62 (1.77, 3.9) | 2.07 (1.40, 3.06) |
| **South Asian (SA)** | **n=5,131** | **n=20,861** |  |
| All SA | 7 (3,10) | 213(4) | 6.38 (5.58, 7.30) | 7 (4,10) | 410(2) | 2.98 (2.71, 3.28) | 1.86 (1.56, 2.22) |
| Normal weight | 6 (3, 9) | 15(<1) | 7.78 (4.69,12.91) | 6(4,10) | 30(<1) | 3.76 (2.63,5.37) | 2.53 (1.17, 5.49) |
| Overweight  | 6 (3, 10) | 53(1) | 6.45 (4.93,8.44) | 7 (4,10) | 316(2) | 3.00 (2.69, 3.35) | 1.85 (1.50, 2.46) |
| Obese  | 7 (4,10) | 145(3) | 6.24 (5.30,7.34) | 5 (3, 8) | 64(<1) | 2.63 (2.06, 3.36) | 1.80 (1.49, 2.43) |

§: Median (Q1,Q3), ¶: Multivariate incident rate ratios (IRRs) were adjusted for age, sex , smoking status (never,current,or ex-smoker), deprevation score (i.e lowest affluence to highest affluence), baseline systolic blood pressure. Follow-up period was from 2000 to 2014.

Three (3) point major cardiovascular event defined as occurrence of myocardial infarction or heart failure or stroke during follow-up.

IR: Incidence rates per 1000 person-years. IRR: Incidence rate ratio

**Addiitonal file 1: Table S2**: Incidence rates, and adjusted incidence rate ratios (95% CI) for chronic kidney disease (stage ≥ 3) in T2DM cases and matched non-diabetic controls without established commorbidities at index date. Data are presented for all subjects, and seperately by BMI categories at index date.

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|  | **T2DM** | **Non-diabetic controls** |  |
|  | Follow-up § | Events (%) | IR (95% CI) | Follow-up § | Events (%) | IR (95% CI) | IRR (95% CI) ¶ |
| **White European (WE)** | **n=42,219** | **n=189,606** |  |
| All WE | 8 (4,11) | 4574(11) | 14.39 (13.98,14.81) | 8(5,11) | 9571(5) | 6.68 (6.55, 6.82) | 1.47 (1.42,1.52) |
| Normal weight | 7 (4,11) | 370(1) | 17.82(16.10, 19.73) | 7 (4, 10) | 1045(1) | 7.19 (6.77, 7.64) | 1.51 (1.37,1.67) |
| Overweight  | 8 (4,11) | 1168(3) | 16.72(15.79, 17.71) | 8(5,11) | 7389(4) | 6.46 (6.31, 6.61) | 1.96 (1.87,2.07) |
| Obese  | 8 (4,11) | 2119(5) | 13.36(12.89, 13.84) | 7 (4,10) | 1137(1) | 8.00 (7.55, 8.48) | 1.10 (1.04,1.16) |
| **African-Caribbean(AC)** | **n=3,043** | **n=12,570** |  |
| All AC | 7 (4,10) | 152(5) | 7.25 (6.18, 8.50) | 7 (4,10) | 270(2) | 3.16 (2.80,3.56) | 1.56 (1.20,2.03) |
| Normal weight | 7 (3, 9) | 11(<1) | 5.49 (3.04, 9.91) | 6 (4, 9) | 33(<1) | 5.12 (3.64, 7.20) | 0.67 (0.26,1.77) |
| Overweight  | 6 (3, 9) | 35(1) | 7.82 (5.61,10.89) | 7 (4,10) | 201(2) | 2.89 (2.52, 3.32) | 2.31 (1.59,3.36) |
| Obese  | 7 (4,11) | 106(3) | 7.31 (6.05, 8.85) | 6 (3, 9) | 36(<1) | 3.74 (2.70, 5.19) | 1.29 (0.86,1.93) |
| **South Asian (SA)** | **n=5,131** | **n=20,861** |  |
| All SA | 7 (3,10) | 146(3) | 4.23 (3.60,4.98) | 7 (4,10) | 317(2) | 2.27 (2.04, 2.54) | 1.17 (0.95,1.44) |
| Normal weight | 6 (3, 9) | 10 (<1) | 4.95(2.66,9.21) | 6(3,10) | 15 (<1) | 1.85(1.11,3.06) | 1.17 (0.51,2.69) |
| Overweight  | 6 (3, 10) | 42 (<1) | 4.95(3.66,6.69) | 7 (3,10) | 233 (1) | 2.18(1.92,2.48) | 2.08(1.49, 2.93) |
| Obese  | 7 (4,10) | 94 (<1) | 3.92(3.20,4.80) | 5 (3, 8) | 69 (<1) | 2.80(2.21,3.54) | 0.81(0.61,1.09) |

§: Median (Q1,Q3), ¶: Multivariate incident rate ratios (IRRs) were adjusted for age, sex , smoking status (never,current,or ex-smoker), deprevation score (i.e lowest affluence to highest affluence), baseline systolic blood pressure. Follow-up period was from 2000 to 2014.

IR: Incidence rates per 1000 person-years. IRR: Incidence rate ratio;

Additional file 1: Figure S1: Age-sex standardised proportions [% (95 CI)] of selected non-cardiovascular diseases at diagnosis for patients with T2DM and their matched controls, separately for each ethnic group. **(A)** Proportion of patients with at cancer at diagnosis; **(B)** Proportion of patients with depression at diagnosis; **(C)** Proportion of patients with CKD (stage 1 to 5) at diagnosis. CKD: Chronic kidney disease; WE: White European; AC: African-Caribbean; SA: South Asian.

