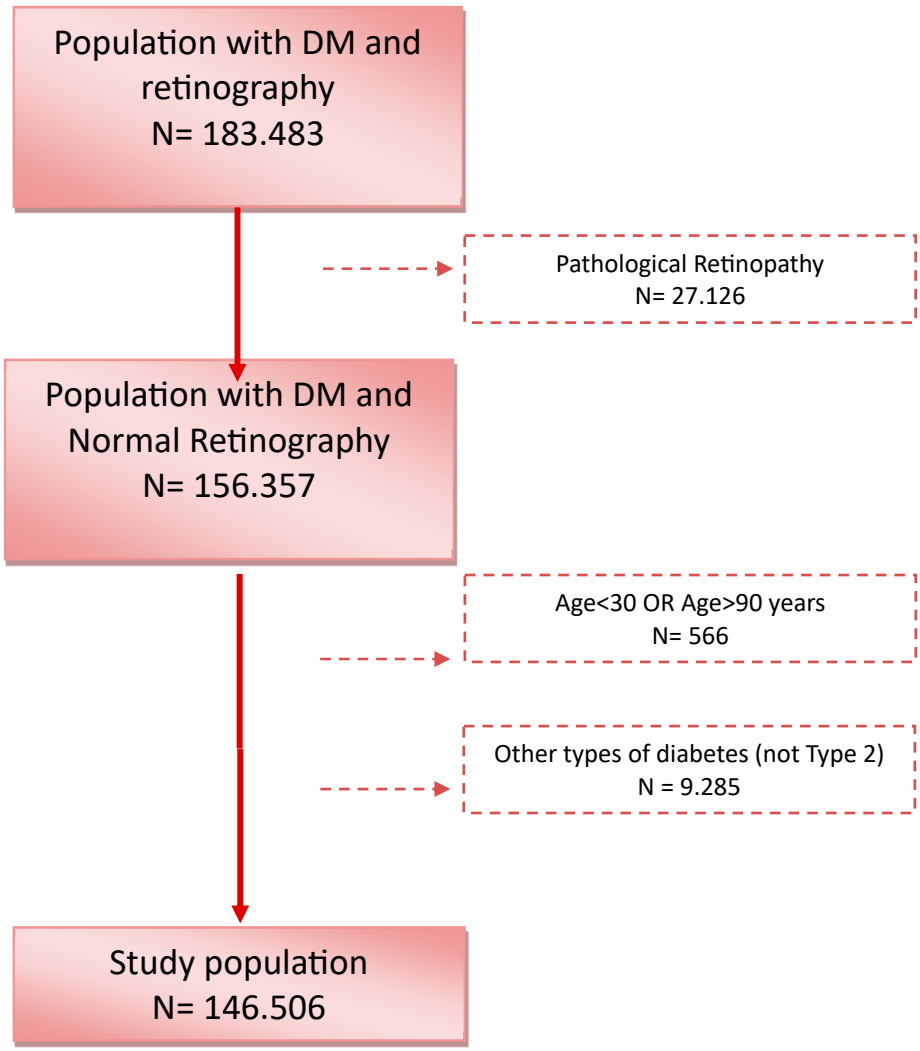
# Incidence of diabetic retinopathy in individuals with type 2 diabetes: A real-world data study

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**Figure S1: Study flowchart**



## Table S1. Clinical characteristics of the subjects at inclusion according to subsequent development of different forms of DR

| Variables | NDR [N= 105446] | Mild NPDR [N= 4946] | Moderate NPDR [N= 1482] | Severe NPDR [N= 148] | PDR [N= 166] | MDE [N= 139] | p |
|---|---|---|---|---|---|---|---|
| Age (years), mean (SD) | 64.1 (10.5) | 65.1 (11.0) | 66.3 (11.3) | 63.6 (13.0) | 67.9 (11.3) | 67.0 (11.3) | <0.001 |
| Non smoker | 54914 (53.3%) | 2543 (52.5%) | 755 (52.1%) | 66 (45.2%) | 79 (50.3% | 83 (61.0%) | 0.101 |
| Current smoker, N (%) | 17895 (17.4%) | 812 (16.58%) | 243 (16.8%) | 34 (23.3%) | 29 (18.5%) | 22 (16.2%) | |
| Ex smoker, N (%) | 30165 (29.3%) | 1487 (30.7%) | 450 (31.1%) | 46 (31.5%) | 49 (31.2%) | 31 (22.8%) | |
| **Clinical variables, mean (SD)** | | | | | | | |
| Diabetes duration, mean (SD) | 5.3 (4.8) | 7.5 (5.7) | 7.7 (5.58) | 7.6 (5.1) | 10.1 (7.0) | 6.1 (4.9) | <0.001 |
| BMI (kg/m²) | 30.6 (5.0) | 30.4 (5.1) | 30.3 (5.0) | 29.7 (5.4) | 30.2 (4.7) | 30.3 (4.7) | 0.002 |
| SBP (mmHg) | 134 (14.1) | 136 (15.5) | 136 (15.9) | 136 (13.7) | 137 (16.3) | 137 (14.7) | <0.001 |
| DBP (mmHg) | 77.0 (9.3) | 76.9 (9.8) | 76.2 (10.3) | 77.2 (11.4) | 74.6 (10.6) | 76.6 (10.5) | 0.001 |
| **Laboratory variables, mean (SD)** | | | | | | | |
| HbA1c (%) | 7.1 (1.3) | 7.8 (1.7) | 8.1 (1.8) | 8.8 (2.3) | 7.98 (1.7) | 7.7 (1.9) | 0.000 |
| Total Cholesterol (mg/dL) | 193 (39.6) | 190 (41.6) | 193 (45.2) | 199 (51.3) | 184 (36.1) | 193 (43.5) | <0.001 |
| HDL Cholesterol (mg/dL) | 48.7 (12.7) | 48.2 (12.7) | 48.3 (13.6) | 46.0 (9.8) | 48.8 (14.0) | 49.6 (12.6) | 0.029 |
| LDL Cholesterol (mg/dL) | 114 (33.6) | 111 (33.9) | 112 (36.5) | 113 (38.5) | 106 (31.9) | 113 (35.6) | <0.001 |
| Triglycerides (mg/dL) | 165 (117) | 166 (117) | 171 (118) | 210 (194) | 158 (120) | 170 (145) | 0.001 |
| GFR (CKD-EPI; ml/min/1.73m²) | 58.7 (4.7) | 58.1 (5.9) | 58.0 (6.1) | 57.0 (7.3) | 55.8 (9.8) | 57.9 (6.6) | <0.001 |
| Album-to-creatinine ratio | 24.3 (99.1) | 44.3 (158) | 48.9 (181) | 29.9 (54.3) | 81.2 (216) | 44.8 (206) | <0.001 |
| **Comorbidities, N (%)** | | | | | | | |
| Dyslipidemia | 66060 (62.6%) | 3110 (62.9% | 925 (62.4%) | 93 (62.8%) | 106 (63.69%) | 98 (70.5%) | 0.564 |
| Hypertension | 68964 (65.4%) | 3267 (66.1%) | 996 (67.2%) | 90 (60.8%) | 127 (76.5%) | 95 (68.3%) | 0.017 |
| Chronic Kidney disease (FG<60 or CAC>30) | 18484 (19.7%) | 1164 (26.9%) | 360 (27.5%) | 39 (32.8%) | 59 (41.8%) | 37 (29.1%) | <0.001 |
| Coronary heart disease | 8514 (8.0%) | 512 (10.4%) | 159 (10.7%) | 15 (10.1%) | 24 (14.5%) | 6 (4.3%) | <0.001 |
| Stroke | 5227 (4.9%) | 301 (6.0%) | 87 (5.8%) | 10 (6.7%) | 17 (10.2%) | 11 (7.9%) | <0.001 |
| Peripheral artery disease | 3204 (3.0%) | 250 (5.0%) | 76 (5.1%) | 7 (4.7%) | 13 (7.8%) | 5 (3.6%) | . |
| Heart failure | 2856 (2.7%) | 182 (3.6%) | 69 (4.6%) | 6 (4.0%) | 11 (6.6%) | 4 (2.8%) | . |
| **Concomitant treatment, N(%)** | | | | | | | |
| Antihypertensive drugs | 75427 (71.5%) | 3640 (73.6%) | 1126 (76.0%) | 92 (62.2%) | 135 (81.3%) | 101 (72.7%) | <0.001 |
| Antidiabetics drugs: | | | | | | | . |
| - No drugs | 18266 (17.3%) | 424 (8.5%) | 126 (8.5%) | 9 (6.0%) | 7 (4.2%) | 18 (12.9%) | |
| - NIAD combo | 74248 (70.4%) | 3059 (61.8%) | 899 (60.7%) | 88 (59.5%) | 79 (47.6%) | 91 (65.5%) | |
| - NIAD + INS | 11354 (10.8%) | 1285 (26.0%) | 403 (27.2%) | 42 (28.4%) | 70 (42.2%) | 24 (17.3%) | |
| - INS mono | 1578 (1.5%) | 178 (3.6%) | 54 (3.6%) | 9 (6.0%) | 10 (6.0%) | 6 (4.3%) | |

*SD, standard deviation; BMI, body mass index; SBP, systolic blood pressure; DBP, diastolic blood pressure; HbA1c, glycosylated hemoglobin; SD, standard deviation; Glomerular filtration rate, GFR; Albumin to Creatinine ratio, CAC NIAD: non-insulin antidiabetic drugs; INS: insulins*

## Table S2 . Incidence of MILD NPDR for risk factors

| Group of subjects | Patients (number) | Sum follow-up | Follow-up (mean) | Follow-up (median) | Events (number) | Incidence rate per 1000 person-years | Cumulative incidence | Hazard ratio (95%CI) |
|---|---|---|---|---|---|---|---|---|
| **Female** | 62586 | 431650.9 | 6.90 | 7.14 | 2036 | 4.72 | 3.25 | Ref. |
| **Male** | 83920 | 561379.0 | 6.69 | 6.92 | 2910 | 5.18 | 3.47 | 1.09 (1.03; .15) |
| **Smoker** | | | | | | | | |
| Non smoker | 75770 | 521033.8 | 6.88 | 7.12 | 2543 | 4.88 | 3.36 | Ref. |
| Ex smoker | 43020 | 281933.0 | 6.55 | 6.80 | 1487 | 5.27 | 3.46 | 1.06 (1.00; 1.13) |
| Current smoker | 24335 | 163987.7 | 6.74 | 6.91 | 812 | 4.95 | 3.34 | 1.00 (0.93; 1.09) |
| **Diabetes duration** | | | | | | | | |
| 0 – 5 years | 79526 | 542781.1 | 6.83 | 6.97 | 1902 | 3.50 | 2.39 | Ref. |
| 6 – 10 years | 45445 | 312439.5 | 6.88 | 7.24 | 1809 | 5.79 | 3.98 | 1.68 (1.58:1.79) |
| >10 years | 21535 | 137809.3 | 6.40 | 6.63 | 1235 | 8.96 | 5.73 | 2.52 (2.35; 2.71) |
| **HbA1c (%)** | | | | | | | | |
| <7% | 70255 | 463530.3 | 6.60 | 6.76 | 1624 | 3.50 | 2.31 | Ref. |
| 7 – 8% | 33825 | 225396.6 | 6.66 | 6.93 | 1179 | 5.23 | 3.49 | 1.51 (1.40; 1.63) |
| 8.1 – 10% | 18316 | 122112.8 | 6.67 | 7.01 | 980 | 8.03 | 5.35 | 2.33 (2.15: 2.52) |
| >10% | 6654 | 43101.0 | 6.48 | 6.76 | 538 | 12.48 | 8.09 | 3.57 (3.24; 3.93) |
| **Obesity** | | | | | | | | |
| BMI ≤ 30kg/m² | 64253 | 422842.2 | 6.58 | 6.80 | 2158 | 5.10 | 3.36 | Ref. |
| BMI > 30kg/m² | 60669 | 405451.3 | 6.68 | 6.86 | 1949 | 4.81 | 3.21 | 0.94 (0.89; 1.00) |
| **Comorbidities** | | | | | | | | |
| Non hypertension | 48652 | 337095.3 | 6.93 | 7.18 | 1679 | 4.98 | 3.45 | Ref. |
| Hypertension | 97854 | 655934.6 | 6.70 | 6.93 | 3267 | 4.98 | 3.34 | 0.99 (0.93; 1.05) |
| Non macrovascular disease | 122397 | 841362.6 | 6.87 | 7.11 | 4032 | 4.79 | 3.29 | Ref. |
| Macrovascular disease | 24109 | 151667.3 | 6.29 | 6.52 | 914 | 6.03 | 3.79 | 1.22 (1.14; 1.31) |
| Non chronic kidney disease | 100412 | 675698.0 | 6.73 | 6.92 | 3170 | 4.69 | 3.16 | Ref. |
| Chronic kidney disease | 30239 | 187431.3 | 6.20 | 6.42 | 1164 | 6.21 | 3.85 | 1.30 (1.21; 1.39) |

*HbA1c, glycosylated hemoglobin; BMI, body mass index; SD, standard deviation.*

## Table S3. Incidence of MODERATE NPDR for risk factors

| Group of subjects | Patients (number) | Sum follow-up | Follow-up (mean) | Follow-up (median) | Events (number) | Incidence rate per 1000 person-years | Cumulative incidence | Hazard ratio (95%CI) |
|---|---|---|---|---|---|---|---|---|
| **Female** | 62586 | 438143.9 | 7.00 | 7.20 | 605 | 1.38 | 0.97 | Ref. |
| **Male** | 83920 | 570423.5 | 6.80 | 6.99 | 877 | 1.54 | 1.05 | 1.10 (0.99; 1.22) |
| **Smoker** | | | | | | | | |
| Non smoker | 75770 | 529206.3 | 6.98 | 7.19 | 755 | 1.43 | 1.00 | Ref. |
| Ex smoker | 43020 | 286413.8 | 6.66 | 6.88 | 450 | 1.57 | 1.05 | 1.09 (0.97; 1.22) |
| Current smoker | 24335 | 166525.9 | 6.84 | 6.98 | 243 | 1.46 | 1.00 | 1.01 (0.88; 1.17) |
| **Diabetes duration** | | | | | | | | |
| 0 – 5 years | 79526 | 548819.2 | 6.90 | 7.04 | 545 | 0.99 | 0.69 | Ref. |
| 6 – 10 years | 45445 | 318248.2 | 7.00 | 7.36 | 560 | 1.76 | 1.23 | 1.80 (1.60; 2.02) |
| >10 years | 21535 | 141499.9 | 6.57 | 6.78 | 377 | 2.66 | 1.75 | 2.66 (2.33; 3.03) |
| **HbA1c (%)** | | | | | | | | |
| <7% | 70255 | 468728.4 | 6.67 | 6.81 | 407 | 0.87 | 0.58 | Ref. |
| 7 – 8% | 33825 | 229047.6 | 6.77 | 7.01 | 336 | 1.47 | 0.99 | 1.71 (1.48; 1.97) |
| 8.1 – 10% | 18316 | 125021.4 | 6.83 | 7.11 | 326 | 2.61 | 1.78 | 3.05 (2.64; 3.53) |
| >10% | 6654 | 44485.4 | 6.69 | 5.89 | 230 | 5.17 | 3.46 | 5.98 (5.09; 7.03) |
| **Obesity** | | | | | | | | |
| BMI ≤ 30kg/m² | 64253 | 429354.6 | 6.68 | 6.87 | 657 | 1.53 | 1.02 | Ref. |
| BMI > 30kg/m² | 60669 | 411417.0 | 6.78 | 6.91 | 582 | 1.41 | 0.96 | 0.92 (0.83; 1.03) |
| **Comorbidities** | | | | | | | | |
| Non hypertension | 48652 | 342508.0 | 7.04 | 7.26 | 486 | 1.42 | 1.00 | Ref. |
| Hypertension | 97854 | 666059.4 | 6.71 | 7.01 | 996 | 1.50 | 1.02 | 1.04 (0.94; 1.16) |
| Non macrovascular disease | 122397 | 854191.4 | 6.98 | 7.18 | 1206 | 1.41 | 0.99 | Ref. |
| Macrovascular disease | 24109 | 154376.0 | 6.40 | 6.62 | 276 | 1.79 | 1.14 | 1.24 (1.09; 1.41) |
| Non chronic kidney disease | 100412 | 685373.4 | 6.83 | 6.98 | 948 | 1.38 | 0.94 | Ref. |
| Chronic kidney disease | 30239 | 190853.8 | 6.31 | 6.50 | 360 | 1.89 | 1.19 | 1.34 (1.19; 1.51) |

*HbA1c, glycosylated hemoglobin; BMI, body mass index; SD, standard deviation.*

## Table S4. Incidence of SEVERE NPDR for risk factors

| Group of subjects | Patients (number) | Sum follow-up | Follow-up (mean) | Follow-up (median) | Events (number) | Incidence rate per 1000 person–years | Cumulative incidence | Hazard ratio (95%CI) |
|---|---|---|---|---|---|---|---|---|
| **Female** | 62586 | 40595.1 | 7.04 | 7.24 | 55 | 0.12 | 0.09 | Ref. |
| **Male** | 83920 | 573733.6 | 6.84 | 7.04 | 93 | 0.16 | 0.11 | 1.30 (0.93; 1.81) |
| **Smoker** | | | | | | | | |
| Non smoker | 75770 | 532229.5 | 7.02 | 7.21 | 66 | 0.12 | 0.09 | Ref. |
| Ex smoker | 43020 | 288160.4 | 6.70 | 6.91 | 46 | 0.16 | 0.11 | 1.28 (0.88; 1.87) |
| Current smoker | 24335 | 167389.2 | 6.88 | 7.03 | 34 | 0.20 | 0.14 | 1.64 (1.08; 2.47) |
| **Diabetes duration** | | | | | | | | |
| 0 – 5 years | 79526 | 550872.6 | 6.93 | 7.06 | 47 | 0.09 | 0.06 | Ref. |
| 6 – 10 years | 45445 | 320517.5 | 7.05 | 7.43 | 68 | 0.21 | 0.15 | 2.50 (1.72; 3.62) |
| >10 years | 21535 | 142938.5 | 6.64 | 6.84 | 33 | 0.23 | 0.15 | 2.70 (1.73; 4.21) |
| **HbA1c (%)** | | | | | | | | |
| <7% | 70255 | 470370.4 | 6.70 | 6.83 | 34 | 0.07 | 0.05 | Ref. |
| 7 – 8% | 33825 | 230390.4 | 6.81 | 7.05 | 18 | 0.08 | 0.05 | 1.08 (0.61; 1.91) |
| 8.1 – 10% | 18316 | 126199.6 | 6.89 | 7.15 | 33 | 0.26 | 0.18 | 3.64 (2.25; 5.87) |
| >10% | 6654 | 45286.9 | 6.81 | 6.97 | 34 | 0.75 | 0.51 | 10.4 (6.47; 16.7) |
| **Obesity** | | | | | | | | |
| BMI ≤ 30kg/m² | 64253 | 431804.1 | 6.72 | 6.90 | 66 | 0.15 | 0.10 | Ref. |
| BMI > 30kg/m² | 60669 | 413695.2 | 6.82 | 6.93 | 50 | 0.12 | 0.08 | 0.79 (0.55; 1.14) |
| **Comorbidities** | | | | | | | | |
| Non hypertension | 48652 | 344351.45 | 7.08 | 7.28 | 58 | 0.17 | 0.12 | Ref. |
| Hypertension | 97854 | 669977.3 | 6.85 | 7.05 | 90 | 0.13 | 0.09 | 0.80 (0.57; 1.11) |
| Non macrovascular disease | 122397 | 858934.1 | 7.02 | 7.20 | 123 | 0.14 | 0.10 | Ref. |
| Macrovascular disease | 24109 | 155394.6 | 6.45 | 6.65 | 25 | 0.16 | 0.10 | 1.12 (0.73; 1.72) |
| Non chronic kidney disease | 100412 | 689048.3 | 6.86 | 7.03 | 80 | 0.12 | 0.08 | Ref. |
| Chronic kidney disease | 30239 | 192150.8 | 6.35 | 6.55 | 39 | 0.20 | 0.13 | 1.75 (1.19: 2.56) |

*HbA1c, glycosylated hemoglobin; BMI, body mass index; SD, standard deviation.*

## Table S5. Incidence of PDR for risk factors

| Group of subjects | Patients (number) | Sum follow-up | Follow-up (mean) | Follow-up (median) | Events (number) | Incidence rate per 1000 person–years | Cumulative incidence | Hazard ratio (95%CI) |
|---|---|---|---|---|---|---|---|---|
| **Female** | 62586 | 440486.2 | 7.04 | 7.23 | 73 | 0.17 | 0.12 | Ref. |
| **Male** | 83920 | 573683.7 | 6.84 | 7.04 | 93 | 0.16 | 0.11 | 0.97 (0.72; 1.32) |
| **Smoker** | | | | | | | | |
| Non smoker | 75770 | 532125.1 | 7.02 | 7.21 | 79 | 0.15 | 0.10 | Ref. |
| Ex smoker | 43020 | 288129.37 | 6.70 | 6.91 | 49 | 0.17 | 0.11 | 1.14 (0.80; 1.62) |
| Current smoker | 24335 | 167387.5 | 6.88 | 7.03 | 29 | 0.17 | 0.12 | 1.16 (0.76; 1.77) |
| **Diabetes duration** | | | | | | | | |
| 0 – 5 years | 79526 | 550877.2 | 6.93 | 7.06 | 48 | 0.09 | 0.06 | Ref. |
| 6 – 10 years | 45445 | 550877.2 | 7.05 | 7.43 | 52 | 0.16 | 0.11 | 1.88 (1.27; 2.79) |
| >10 years | 21535 | 142766.0 | 6.63 | 6.84 | 66 | 0.46 | 0.31 | 5.28 (3.64; 7.65) |
| **HbA1c (%)** | | | | | | | | |
| <7% | 70255 | 470323.6 | 6.69 | 6.83 | 43 | 0.09 | 0.06 | Ref. |
| 7 – 8% | 33825 | 230276.2 | 6.81 | 7.05 | 43 | 0.19 | 0.13 | 2.06 (1.35; 3.14) |
| 8.1 – 10% | 18316 | 126165.8 | 6.89 | 7.15 | 36 | 0.29 | 0.20 | 3.15 (2.02; 4.91) |
| >10% | 6654 | 45293.2 | 6.81 | 6.97 | 20 | 0.44 | 0.30 | 4.85 (2.86; 8.25) |
| **Obesity** | | | | | | | | |
| BMI ≤ 30kg/m² | 64253 | 431745.5 | 6.72 | 6.90 | 67 | 0.16 | 0.10 | Ref. |
| BMI > 30kg/m² | 60669 | 413615.9 | 6.82 | 6.93 | 63 | 0.15 | 0.10 | 0.98 (0.70; 1.39) |
| **Comorbidities** | | | | | | | | |
| Non hypertension | 48652 | 344409.7 | 7.08 | 7.28 | 39 | 0.11 | 0.08 | Ref. |
| Hypertension | 97854 | 669760.2 | 6.84 | 7.05 | 127 | 0.19 | 0.13 | 1.66 (1.16; 2.38) |
| Non macrovascular disease | 122397 | 858872.5 | 7.02 | 7.20 | 121 | 0.14 | 0.10 | Ref. |
| Macrovascular disease | 24109 | 155297.4 | 6.44 | 6.65 | 45 | 0.29 | 0.19 | 2.02 (1.44; 2.86) |
| Non chronic kidney disease | 100412 | 688993.5 | 6.86 | 7.03 | 82 | 0.12 | 0.08 | Ref. |
| Chronic kidney disease | 30239 | 192004.3 | 6.35 | 6.55 | 59 | 0.31 | 0.20 | 2.55 (1.82; 3.56) |

*HbA1c, glycosylated hemoglobin; BMI, body mass index; SD, standard deviation.*

## Table S6. Incidence of DME for risk factors

| Group of subjects | Patients (number) | Sum follow-up | Follow-up (mean) | Follow-up (median) | Events (number) | Incidence rate per 1000 person–years | Cumulative incidence | Hazard ratio (95%CI) |
|---|---|---|---|---|---|---|---|---|
| **Female** | 62586 | 440580.4 | 7.04 | 7.24 | 52 | 0.12 | 0.08 | Ref. |
| **Male** | 83920 | 573803.4 | 6.84 | 7.04 | 87 | 0.15 | 0.10 | 1.28 (0.91; 1.80) |
| **Smoker** | | | | | | | | |
| Non smoker | 75770 | 532162.2 | 7.02 | 7.21 | 83 | 0.16 | 0.11 | Ref. |
| Ex smoker | 43020 | 288222.5 | 6.70 | 6.91 | 31 | 0.11 | 0.07 | 0.69 (0.45; 1.04) |
| Current smoker | 24335 | 167444.5 | 6.88 | 7.03 | 22 | 0.13 | 0.09 | 0.84 (0.52; 1.34) |
| **Diabetes duration** | | | | | | | | |
| 0 – 5 years | 79526 | 550826.7 | 6.93 | 7.06 | 66 | 0.12 | 0.08 | Ref. |
| 6 – 10 years | 45445 | 320563.7 | 7.05 | 7.43 | 47 | 0.15 | 0.10 | 1.24 (0.85; 1.80) |
| >10 years | 21535 | 142993.3 | 6.64 | 6.84 | 26 | 0.18 | 0.12 | 1.51 (0.96; 2.38) |
| **HbA1c (%)** | | | | | | | | |
| <7% | 70255 | 470319.6 | 6.69 | 6.83 | 55 | 0.12 | 0.08 | Ref. |
| 7 – 8% | 33825 | 230307.5 | 6.81 | 7.05 | 35 | 0.15 | 0.10 | 1.31 (0.86; 2.00) |
| 8.1 – 10% | 18316 | 126259.9 | 5.89 | 7.15 | 22 | 0.17 | 0.12 | 1.50 (0.92; 2.47) |
| >10% | 6654 | 45334.1 | 6.81 | 6.98 | 14 | 0.31 | 0.21 | 2.65 (1.48; 4.77) |
| **Obesity** | | | | | | | | |
| BMI ≤ 30kg/m² | 64253 | 431806.8 | 6.72 | 6.90 | 66 | 0.15 | 0.10 | Ref. |
| BMI > 30kg/m² | 60669 | 413688.9 | 6.82 | 6.93 | 52 | 0.13 | 0.09 | 0.82 (0.57; 1.18) |
| **Comorbidities** | | | | | | | | |
| Non hypertension | 48652 | 344407.9 | 7.08 | 7.28 | 44 | 0.13 | 0.09 | Ref. |
| Hypertension | 97854 | 669975.8 | 6.85 | 7.05 | 95 | 0.14 | 0.10 | 1.11 (0.77; 1.58) |
| Non macrovascular disease | 122397 | 858952.2 | 7.02 | 7.20 | 119 | 0.14 | 0.10 | Ref. |
| Macrovascular disease | 24109 | 155431.5 | 6.45 | 6.65 | 20 | 0.13 | 0.08 | 0.92 (0.57; 1.48) |
| Non chronic kidney disease | 100412 | 688996.4 | 6.86 | 7.03 | 90 | 0.13 | 0.09 | Ref. |
| Chronic kidney disease | 30239 | 192162.8 | 6.35 | 6.55 | 37 | 0.19 | 0.12 | 1.46 (1.00; 2.15) |

*HbA1c, glycosylated hemoglobin; BMI, body mass index; SD, standard deviation.*

## Table 7: HRs for incidence of DR adjusted by different clinically important variables

| | Model 1 (HR 95%CI) | Model 2 (HR 95%CI) | Model 3 (HR 95%CI) |
|---|---|---|---|
| | | | |
| **Age (years)** | 1.004 (1.002; 1.006) | 1.004 (1.002; 1.007) | 1.003 (1.000; 1.006) |
| **Sex (male)** | 1.108 (1.056; 1.163) | 1.107 (1.051; 1.166) | 1.082 (1.017; 1.151) |
| **Duration T2DM (years)** | | 1.052 (1.048; 1.056) | 1.050 (1.046; 1.054) |
| **HbA1c (%)** | | 1.311 (1.294; 1.329) | 1.306 (1.287; 1.325) |
| **Ex-smoker (ref: Non-smoker)** | | | 1.007 (0.942; 1.075) |
| **Smoker (ref: Non-smoker)** | | | 0.970 (0.893; 1.055) |
| **Body mass index (kg/m²)** | | | 0.997 (0.992; 1.003) |
| **Hypertension (ref: No)** | | | 1.004 (0.943; 1.069) |
| **Dyslipidemia (ref: No)** | | | 0.978 (0.924; 1.036) |
| **Macrovascular disease (ref: No)** | | | 1.143 (1.064; 1.228) |

**Macrovascular disease: peripheral arteriopathy or AVC or ischemic cardiopathy*

*Model 1: adjusted for age and sex; Model 2: adjusted for, age, sex, diabetes duration, HbA1c; Model 3: adjusted for age, sex, diabetes duration, HbA1c, smoking status, BMI, hypertension, dyslipidemia, and macrovascular disease.*