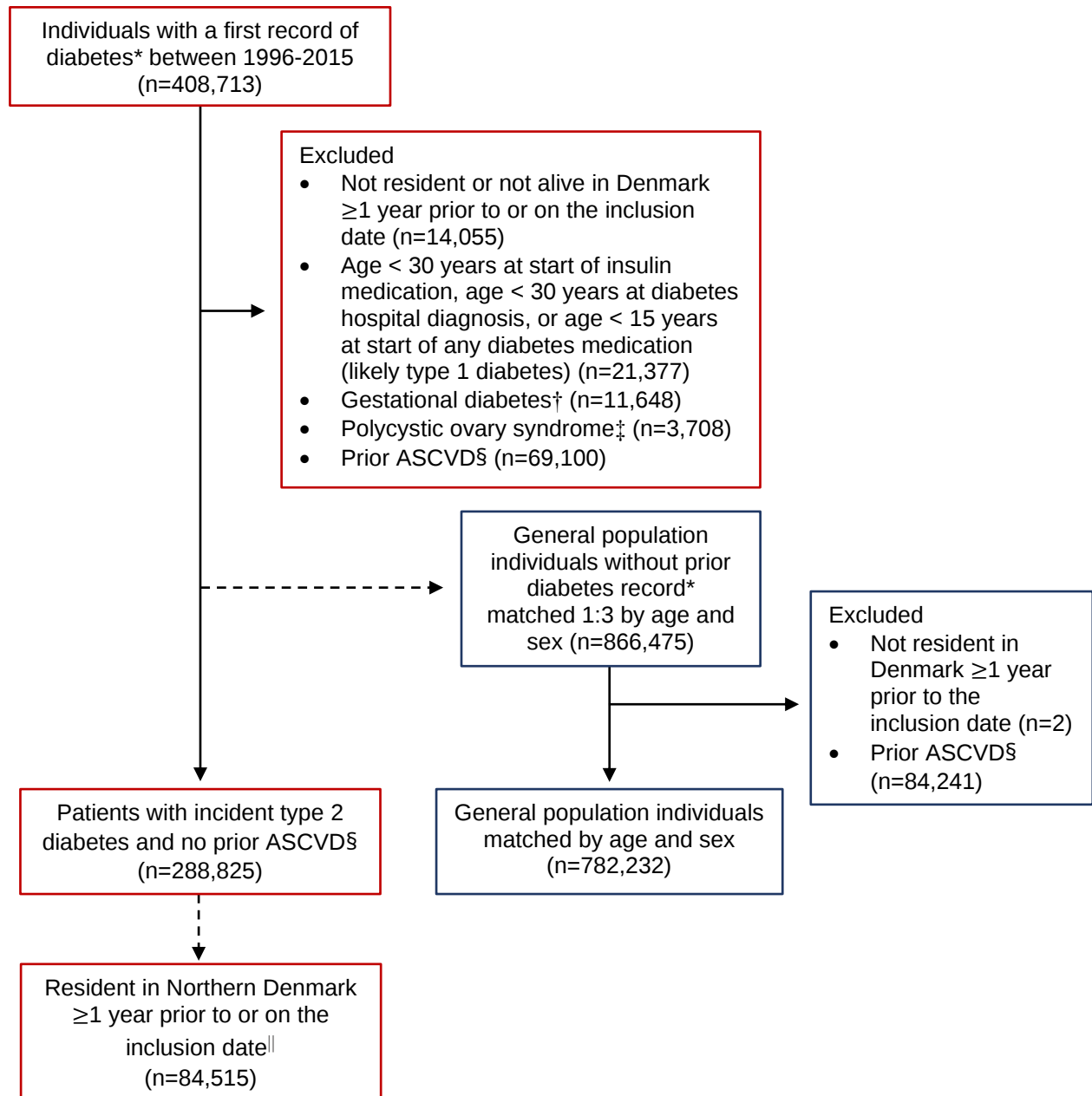


Online-Only Supplemental Material

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Supplementary Fig. 1. Flowchart of selection of study participants.



*The first record of diabetes was defined as either a first-time redemption of a prescription for a glucose-lowering drug (ATC code A10) at any pharmacy in Denmark, or a first-time inpatient hospital admission or outpatient hospital clinic contact at any hospital in Denmark leading to a diabetes diagnosis (ICD-8 codes 249-250, 251.5 and ICD-10 codes E10-E14, O24, E15, E160-E162, DT383A, M142, G590, G632, H280, H334, H450, H360, N083) from January 1, 1996 to December 31, 2015.

†Gestational diabetes was defined as women giving birth (ICD-10 code O80-O84) within 9 months after diagnosis.

‡Polycystic ovary syndrome was defined as prior hospital-diagnosed polycystic ovary syndrome (ICD-10 code E28.2) or redemption of any metformin prescription (ATC code A10BA02) in combination with clomifen (ATC code G03GB02) within 12 months following type 2 diabetes diagnosis.

§Prior atherosclerotic cardiovascular disease (ASCVD) was defined as previous diagnoses of ischemic stroke, transient ischemic attack, myocardial infarction, coronary revascularization, peripheral artery disease, peripheral revascularization, and lower-limb amputation.

||Patients were defined as living in Northern Denmark (*i.e.*, the North and Central Denmark regions, accounting for approximately 30% of Denmark's population or 1.8 million persons) if they had resided in Northern Denmark for at least 1 year prior to or on the inclusion date.

Supplementary Table 1. Codes and definitions used in the study.

Variable	ICD-8 code	ICD-10 code	Surgical codes / NOMESCO classification	ATC-code
Incident diabetes (first-time glucose-lowering drug redemption or first-time hospital diabetes diagnosis)	249-250, 251.5	E10-E15, E160- E162, DT383A, G590, G632, H280, H334, H450, H360, M142, N083, O24		A10
Gestational diabetes		Giving birth (O80-O84) within 9 months after diabetes diagnosis		
Polycystic ovary syndrome		Pre-existing hospital- diagnosed polycystic ovary syndrome (DE28.2)		A10BA02 (metformin) in combination with G03GB02 (clomifen) within 12 months following diagnosis
Ischemic stroke*	433, 434	I63, I64		
Transient ischemic attack	435	G45.9		
Myocardial infarction	410	I20-I23		
Percutaneous coronary intervention			KFNG02, KFNG05, KFNG96	
Coronary artery bypass grafting			KFNA-KFNE, 30009, 30019, 30029, 30039, 30049, 30059, 30069, 30079, 30089, 30099, 30109, 30119, 30120, 30129, 30139, 30149, 30159, 30169, 30179, 30189, 30199, 30200	
Peripheral artery disease	440, 443, 444	I70, I73.9, I74	KPBE, KPBF, KPBH, KPBQ, KPDE, KPDF, KPDH, KPDQ, KPEE, KPEF, KPEH, KPEQ, KPFE, KPFH, KPFQ, KPDU74, KPDU84, KNFQ, KNGQ, KNHQ	
Hypertension (diagnosis code and/or ≥ 1 antihypertensive drug redemption)	401-404	I10-I15		C07, C09A, C09B, C09C, C09D, C08C, C08D, C03AA, C03AB
Chronic obstructive pulmonary disease	490-493, 515- 518	J40-J47, J60- J67, J68.4, J70.1, J70.3, J84.1, J92.0, J96.1, J98.2, J98.3		

Heart failure	427.09, 427.10, 427.11, 427.19, 428.99, 782.49	I50, I110, I130, I132, I420	
Atrial fibrillation*	427.93, 427.94	I48	
Moderate-severe renal disease	403, 404, 580- 584, 590.09, 593.19, 753.10- 753.19, 792	I12, I13, N00- N05, N07, N11, N14, N17-N19, Q61	
Moderate-severe liver disease	070.00, 070.02, 070.04, 070.06, 070.08, 573.00, 456.00-456.09	B15.0, B16.0, B16.2, B19.0, K70.4, K72, K76.6, I85	
Connective tissue disease	712, 716, 734, 446, 135.99	M05, M06, M08, M09, M30-M36, D86	
Any malignancy	140-207, 275.59	C00-C97	
Hyperthyroidism (thyrotoxicosis)	242	E05	
Heart valve disease	394, 395	I05, I06, I34, I35, I390, I391, I511A	
Venous thromboembolism (deep venous thrombosis or pulmonary embolism)	45100, 45099	I801-I803, I26	
Smoking	491, 492	F17, J40-J44, Z72.0, Z71.6	R03
Hospital- diagnosed obesity	277.99	E65-E68	A10BJ02 (Saxenda, approved 2014)
Insulin			A10A
Biguanides			A10BA, A10BD03, A10BD07, A10BD08, A10BD10, A10BD11, A10BD13, A10BD15, A10BD16, A10BD20, A10BD23
Sulfonylureas			A10BB
DPP4i			A10BH, A10BD07, A10BD08, A10BD10, A10BD11, A10BD13, A10BD19, A10BD21, A10BD24
GLP-1 analogues			A10BJ except for A10BJ02 (Saxenda), A10AE54, A10AE56
SGLT-2 inhibitors			A10BK, A10BD15, A10BD16, A10BD19, A10BD20, A10BD21, A10BD23, A10BD24
Statins			C10AA, C10BA
High-intensity statins			C10AA05 (Atorvastatin ≥40 mg), C10AA07 (Rosuvastatin ≥20 mg)
Other lipid- lowering drugs			C10AX (Ezetimibe, PCSK9-inhibitors)

Beta-blockers	C07
ACE inhibitor / angiotensin II- receptor blockers	C09A, C09B, C09C, C09D
Calcium channel blockers	C08C, C08D
Thiazides	C03AA, C03AB
Aspirin	B01AC06, N02BA01
ADP receptor inhibitors	B01AC04, B01AC22, B01AC24, B01AC25
Vitamin K antagonists	B01AA03, B01AA04
Direct oral anticoagulants	B01AF01, B01AF02, B01AF03, B01AE07

*Based on primary or secondary hospital discharge diagnoses. The primary discharge diagnosis is the main reason for a hospital contact. Secondary discharge diagnoses can be recorded if they are considered applicable and identify other relevant diseases, *e.g.* underlying chronic diseases, as a supplement to the primary discharge diagnosis.

Supplementary Table 2. Baseline characteristics of individuals in the general population cohort.

	General population: 1996-2000	General population: 2001-2005	General population: 2006-2010	General population: 2011-2015	General population: all individuals
Number of participants	143,339	183,444	230,994	224,455	782,232
Male sex	76,237 (53.2)	94,036 (51.3)	114,271 (49.5)	113,386 (50.5)	397,930 (50.9)
Age, median (Q ₁ -Q ₃)	60 (51-71)	59 (49-69)	59 (47-68)	59 (49-68)	59 (49-69)
Age-group					
<40 years	12,555 (8.8)	21,430 (11.7)	34,097 (14.8)	28,666 (12.8)	96,748 (12.4)
40-49 years	21,185 (14.8)	27,053 (14.7)	35,231 (15.3)	34,819 (15.5)	118,288 (15.1)
50-59 years	36,873 (25.7)	48,171 (26.3)	54,106 (23.4)	53,723 (23.9)	192,874 (24.7)
60-69 years	33,334 (23.3)	44,263 (24.1)	60,890 (26.4)	60,373 (26.9)	198,860 (25.4)
70-79 years	26,154 (18.2)	28,123 (15.3)	32,395 (14.0)	33,794 (15.1)	120,466 (15.4)
≥80 years	13,238 (9.2)	14,403 (7.9)	14,275 (6.2)	13,080 (5.8)	54,996 (7.0)
Comorbidities					
Hypertension*	26,998 (18.8)	39,776 (21.7)	59,599 (25.8)	62,733 (27.9)	189,106 (24.2)
COPD	4,923 (3.4)	7,888 (4.3)	11,288 (4.9)	12,719 (5.7)	36,818 (4.7)
Heart failure	1,757 (1.2)	2,358 (1.3)	2,542 (1.1)	2,415 (1.1)	9,072 (1.2)
Atrial fibrillation	2,381 (1.7)	4,027 (2.2)	5,927 (2.6)	6,987 (3.1)	19,322 (2.5)
Moderate-severe renal disease	771 (0.5)	1,163 (0.6)	1,775 (0.8)	2,390 (1.1)	6,099 (0.8)
Moderate-severe liver disease	172 (0.1)	283 (0.2)	415 (0.2)	497 (0.2)	1,367 (0.2)
Connective tissue disease	2,573 (1.8)	3,763 (2.1)	5,196 (2.2)	5,964 (2.7)	17,496 (2.2)
Any malignancy	8,568 (6.0)	11,607 (6.3)	16,616 (7.2)	19,169 (8.5)	55,960 (7.2)
Hyperthyroidism	1,437 (1.0)	2,404 (1.3)	3,526 (1.5)	3,789 (1.7)	11,156 (1.4)
Heart valve disease	687 (0.5)	1,337 (0.7)	2,085 (0.9)	2,733 (1.2)	6,842 (0.9)
Prior venous thromboembolism	1,539 (1.1)	2,391 (1.3)	3,466 (1.5)	4,087 (1.8)	11,483 (1.5)
Smoking (proxy)†	12,677 (8.8)	16,004 (8.7)	21,879 (9.5)	22,899 (10.2)	73,459 (9.4)
Hospital-diagnosed obesity	992 (0.7)	1,936 (1.1)	4,792 (2.1)	7,291 (3.2)	15,011 (1.9)
Alcoholism-related disorders	2,430 (1.7)	3,972 (2.2)	6,136 (2.7)	6,820 (3.0)	19,358 (2.5)
Medications					
Statins	1,403 (1.0)	5,836 (3.2)	21,701 (9.4)	27,148 (12.1)	56,088 (7.2)
High-intensity statins	7 (0)	198 (0.1)	903 (0.4)	2,311 (1.0)	3,419 (0.4)
Other lipid-lowering drugs	0 (0)	<5 (0)	272 (0.1)	469 (0.2)	744 (0.1)
Beta-blockers	8,352 (5.8)	13,700 (7.5)	18,896 (8.2)	17,986 (8.0)	58,934 (7.5)
ACE inhibitor/ARBs	7,720 (5.4)	16,658 (9.1)	32,914 (14.2)	38,616 (17.2)	95,908 (12.3)
Calcium channel blockers	8,962 (6.3)	11,919 (6.5)	19,588 (8.5)	22,988 (10.2)	63,457 (8.1)
Thiazides	11,464 (8.0)	16,839 (9.2)	22,244 (9.6)	18,069 (8.1)	68,616 (8.8)
Aspirin	8,629 (6.0)	12,839 (7.0)	17,204 (7.4)	14,720 (6.6)	53,392 (6.8)
ADP receptor inhibitors	7 (0)	80 (0)	222 (0.1)	855 (0.4)	1,164 (0.1)

Vitamin K antagonists	1,418 (1.0)	2,519 (1.4)	4,346 (1.9)	4,607 (2.1)	12,890 (1.6)
DOACs	0 (0)	0 (0)	41 (0)	629 (0.3)	670 (0.1)

Numbers are counts (%) unless otherwise indicated.

Abbreviations: ARB, angiotensin II receptor blocker; COPD, chronic obstructive pulmonary disease; DOAC, direct oral anticoagulant; Q₁, first quartile; Q₃, third quartile.

*Hypertension was defined as ICD-10/8 diagnosis codes for hypertension and/or redemption of ≥1 prescription for antihypertensive treatment.

†Smoking (proxy) was defined by ICD-10/8 diagnosis codes for chronic bronchitis, emphysema, and COPD, and medications used to treat COPD.

Supplementary Table 3. Trends in HbA_{1c} and LDL cholesterol levels in a regional subcohort of patients with incident type 2 diabetes in Northern Denmark.

	Diabetes: 1996-2000 (n=15,510)	Diabetes: 2001-2005 (n=19,418)	Diabetes: 2006-2010 (n=26,492)	Diabetes: 2011-2015 (n=27,013)
Pre-diagnosis measurement*				
Missing HbA _{1c}	10,838 (70)	9,846 (51)	7,444 (28)	3,152 (12)
Median HbA _{1c} , mmol/mol (Q ₁ -Q ₃)	77 (58-98) (9.2% [7.5%-11.1%])	64 (51-87) (8.0% [6.8%-10.1%])	56 (48-75) (7.3% [6.5%-9.0%])	52 (47-65) (6.9% [6.5%-8.1%])
Missing LDL cholesterol	13,774 (89)	12,600 (65)	9,181 (35)	5,671 (21)
Median LDL cholesterol, mmol/L (Q ₁ -Q ₃)	3.6 (3.0-4.3)	3.3 (2.7-4.0)	2.9 (2.3-3.6)	2.9 (2.2-3.6)
Missing eGFR	9,085 (59)	7,391 (38)	4,346 (16)	1,642 (6)
Median eGFR, ml/min/1.73m ² , (Q ₁ -Q ₃)	83 (71-97)	81 (69-94)	71 (61-83)	72 (61-84)
Post-diagnosis measurement†				
Missing HbA _{1c}	9,302 (60)	8,352 (43)	6,880 (26)	4,249 (16)
Median HbA _{1c} , mmol/mol (Q ₁ -Q ₃)	51 (43-62) (6.8% [6.1%-7.8%])	49 (42-55) (6.6% [6.0%-7.2%])	46 (42-53) (6.4% [6.0%-7.0%])	45 (42-50) (6.3% [6.0%-6.7%])
Missing LDL cholesterol	12,948 (83)	10,987 (57)	8,590 (32)	6,424 (24)
Median LDL cholesterol, mmol/L (Q ₁ -Q ₃)	3.3 (2.7-4.0)	2.6 (2.1-3.3)	2.3 (1.8-2.8)	2.2 (1.8-2.9)
Missing eGFR	9,292 (60)	7,951 (41)	5,715 (22)	3,722 (14)
Median eGFR, ml/min/1.73m ² , (Q ₁ -Q ₃)	82 (71-96)	79 (67-92)	72 (61-84)	73 (63-86)

Numbers are counts (%) unless otherwise indicated.

Abbreviation: eGFR, estimated glomerular filtration rate.

*Pre-diagnosis measurement was defined as the latest measurement within 12 months before the diabetes diagnosis date.

†Post-diagnosis measurement was defined as the latest measurement 6-18 months following the diabetes diagnosis date.

Supplementary Table 4. Interaction effect between type 2 diabetes and atrial fibrillation on five-year risk of ischemic stroke.

	Individuals (events)	5-year cumulative incidence* (95% CI)	Crude hazard ratio (95% CI)	Adjusted hazard ratio [†] (95% CI)	Interaction contrast (95% CI)
Ischemic stroke					
-T2DM, -AF	771,347 (16,419)	2.2% (2.2-2.2)	reference	reference	
-T2DM, +AF	10,885 (661)	6.2% (5.8-6.7)	3.31 (3.06-3.58)	1.76 (1.63-1.91)	
+T2DM, -AF	280,151 (8,945)	3.3% (3.2-3.3)	1.58 (1.54-1.62)	1.53 (1.49-1.57)	
+T2DM, +AF	8,674 (656)	7.7% (7.1-8.3)	4.72 (4.36-5.10)	2.44 (2.25-2.64)	0.4 (-0.3-1.1)

The interaction contrast is calculated as $R_{AB} - R_A - R_B + R_U$, i.e., $\text{risk}_{+DM+AF} - \text{risk}_{+DM-AF} - \text{risk}_{-DM+AF} + \text{risk}_{-DM-AF}$.

Abbreviations: AF, atrial fibrillation; T2DM, type 2 diabetes.

*Accounting for the competing risk of death.

[†]Adjusted for sex and age.

Supplementary Table 5. Proportion of patients with type 2 diabetes who redeemed ≥ 1 prescription(s) for prophylactic cardiovascular medications within 12 months after diabetes diagnosis.

	Diabetes: 1996-2000	Diabetes: 2001-2005	Diabetes: 2006-2010	Diabetes: 2011-2015
All patients with type 2 diabetes				
Number of patients	52,463	67,693	85,426	83,243
Statins	5.2 (5.0-5.4)	28.7 (28.4-29.0)	49.4 (49.1-49.7)	50.4 (50.0-50.7)
High-intensity statins	0.1 (0.0-0.1)	0.8 (0.7-0.8)	2.3 (2.2-2.4)	7.4 (7.2-7.6)
Other lipid-lowering drugs	-	-	0.6 (0.6-0.7)	0.8 (0.7-0.8)
Beta-blockers	12.6 (12.3-12.8)	18.1 (17.8-18.4)	19.3 (19.1-19.6)	19.3 (19.0-19.5)
ACE inhibitor/ARBs	22.4 (22.0-22.7)	36.9 (36.6-37.3)	45.9 (45.5-46.2)	46.9 (46.6-47.3)
Calcium channel blockers	15.2 (14.9-15.5)	16.3 (16.0-16.6)	21.4 (21.1-21.7)	22.6 (22.3-22.8)
Thiazides	14.7 (14.4-15.0)	19.0 (18.7-19.3)	18.5 (18.2-18.7)	14.9 (14.6-15.1)
Aspirin	15.6 (15.3-15.9)	23.7 (23.4-24.1)	25.5 (25.2-25.8)	16.2 (16.0-16.5)
ADP receptor inhibitors	0.2 (0.1-0.2)	0.9 (0.9-1.0)	1.1 (1.0-1.1)	1.9 (1.8-2.0)
Vitamin K antagonists	3.5 (3.3-3.6)	4.5 (4.4-4.6)	5.1 (4.9-5.2)	5.1 (5.0-5.3)
DOACs	-	-	-	1.0 (0.9-1.1)
Antihypertensive drugs used				
0	57.5 (57.1-57.9)	46.6 (46.3-47.0)	40.5 (40.2-40.8)	39.9 (39.6-40.3)
1	25.0 (24.6-25.4)	25.7 (25.4-26.0)	26.1 (25.8-26.4)	27.6 (27.3-27.9)
2	12.6 (12.3-12.9)	18.0 (17.7-18.3)	20.5 (20.3-20.8)	21.3 (21.0-21.6)
≥ 3	4.9 (4.7-5.1)	9.6 (9.4-9.9)	12.8 (12.6-13.1)	11.2 (11.0-11.4)
Patients with type 2 diabetes and atrial fibrillation				
Number of patients	2,555	3,750	4,892	5,456
Vitamin K antagonists	34.6 (32.8-36.5)	47.1 (45.5-48.7)	54.7 (53.3-56.1)	50.2 (48.9-51.5)
DOACs	-	-	-	8.0 (7.3-8.7)

Numbers are percentages (95% CI) unless otherwise indicated.

Abbreviations: ARB, angiotensin II receptor blocker; DOAC, direct oral anticoagulant.

Supplementary Table 6. Five-year risk of ischemic stroke in patients with incident type 2 diabetes stratified by age category and sex.

	Patients	Events	5-year cumulative incidence* (95% CI)	Crude hazard ratio (95% CI)	Adjusted hazard ratio [†] (95% CI)
Age <60 years					
1996-2000	24,410	571	2.3% (2.2-2.5)	reference	reference
2001-2005	33,378	589	1.8% (1.6-1.9)	0.75 (0.67-0.84)	0.77 (0.69-0.86)
2006-2010	42,519	525	1.2% (1.1-1.4)	0.52 (0.46-0.59)	0.55 (0.48-0.61)
2011-2015	40,413	440	1.2% (1.1-1.3)	0.50 (0.44-0.56)	0.51 (0.45-0.58)
Age 60-69 years					
1996-2000	12,330	695	5.6% (5.2-6.1)	reference	reference
2001-2005	16,580	666	4.0% (3.7-4.3)	0.70 (0.63-0.77)	0.69 (0.62-0.77)
2006-2010	22,918	586	2.6% (2.4-2.8)	0.43 (0.39-0.49)	0.43 (0.39-0.48)
2011-2015	22,717	622	3.0% (2.7-3.2)	0.50 (0.45-0.55)	0.49 (0.44-0.55)
Age 70-79 years					
1996-2000	10,327	943	9.1% (8.6-9.7)	reference	reference
2001-2005	11,456	815	7.1% (6.7-7.6)	0.75 (0.69-0.83)	0.75 (0.69-0.83)
2006-2010	13,496	641	4.8% (4.4-5.1)	0.49 (0.44-0.54)	0.48 (0.44-0.53)
2011-2015	13,961	599	4.6% (4.3-5.0)	0.46 (0.41-0.51)	0.45 (0.41-0.50)
Age ≥80 years					
1996-2000	5,396	521	9.7% (8.9-10.5)	reference	reference
2001-2005	6,279	552	8.8% (8.1-9.5)	0.89 (0.79-1.00)	0.89 (0.79-1.00)
2006-2010	6,493	441	6.8% (6.2-7.4)	0.67 (0.59-0.76)	0.67 (0.59-0.76)
2011-2015	6,152	395	6.8% (6.2-7.5)	0.65 (0.57-0.74)	0.65 (0.57-0.74)
Male patients					
1996-2000	28,228	1,502	5.3% (5.1-5.6)	reference	reference
2001-2005	35,289	1,449	4.1% (3.9-4.3)	0.76 (0.70-0.81)	0.76 (0.71-0.82)
2006-2010	43,208	1,188	2.8% (2.6-2.9)	0.50 (0.46-0.54)	0.50 (0.46-0.54)
2011-2015	43,037	1,145	2.9% (2.7-3.1)	0.51 (0.47-0.55)	0.50 (0.46-0.54)
Female patients					
1996-2000	24,235	1,228	5.1% (4.8-5.4)	reference	reference
2001-2005	32,404	1,173	3.6% (3.4-3.8)	0.70 (0.64-0.76)	0.78 (0.72-0.85)
2006-2010	42,218	1,005	2.4% (2.2-2.5)	0.45 (0.41-0.49)	0.56 (0.52-0.61)
2011-2015	40,206	911	2.5% (2.3-2.6)	0.45 (0.42-0.49)	0.55 (0.50-0.60)

*Accounting for the competing risk of death.

[†]Adjusted for sex in the analysis stratified by age and adjusted for age in the analysis stratified by sex.

Supplementary Table 7. Five-year risk of ischemic stroke in patients with incident type 2 diabetes and matched individuals from the general population. Matched individuals were censored if they developed type 2 diabetes during follow-up.

	General population individuals		Type 2 diabetes vs. general population	
	Individuals (events)	5-year cumulative incidence* (95% CI)	Risk difference*, [†] (95% CI)	Sex- and age-matched hazard ratio [†] (95% CI)
1996-2000	143,339 (4,009)	2.8% (2.8-2.9)	2.4% (2.2-2.6)	1.97 (1.89-2.06)
2001-2005	183,444 (4,400)	2.4% (2.4-2.5)	1.4% (1.3-1.6)	1.66 (1.59-1.73)
2006-2010	230,994 (4,259)	1.9% (1.8-1.9)	0.7% (0.6-0.8)	1.37 (1.31-1.43)
2011-2015	224,455 (3,982)	2.0% (1.9-2.0)	0.7% (0.6-0.8)	1.40 (1.33-1.46)

*Accounting for the competing risk of death.

[†]Matched individuals from same calendar period were used as reference.

Supplementary Table 8. Five-year risk of any type of stroke (ICD-10 codes I60-I64) in patients with incident type 2 diabetes and matched individuals from the general population.

	Type 2 diabetes				General population		Type 2 diabetes vs. general population
	Individuals (events)	5-year cumulative incidence* (95% CI)	Crude HR (95% CI)	Adjusted HR [†] (95% CI)	Individuals (events)	5-year cumulative incidence* (95% CI)	Sex- and age-matched HR [‡] (95% CI)
1996-2000	52,463 (2,920)	5.6% (5.4-5.8)	reference	reference	143,339 (4,573)	3.2% (3.1-3.3)	1.88 (1.80-1.96)
2001-2005	67,693 (2,884)	4.3% (4.1-4.4)	0.75 (0.71-0.79)	0.79 (0.75-0.84)	183,444 (5,082)	2.8% (2.7-2.9)	1.62 (1.55-1.68)
2006-2010	85,426 (2,522)	3.0% (2.9-3.1)	0.51 (0.48-0.54)	0.57 (0.54-0.60)	230,994 (5,192)	2.3% (2.2-2.3)	1.32 (1.27-1.38)
2011-2015	83,243 (2,204)	2.8% (2.7-3.0)	0.48 (0.46-0.51)	0.52 (0.49-0.55)	224,455 (4,487)	2.2% (2.1-2.2)	1.33 (1.27-1.39)

Abbreviations: HR, hazard ratio.

*Accounting for the competing risk of death. [†]Comparing patients with type 2 diabetes by calendar period, adjusted for sex and age. [‡]Comparing patients with type 2 diabetes with matched individuals from the same calendar period as reference.

Supplementary Table 9. Treatment goals for patients with type 2 diabetes in Denmark, 1988-2021.

	1988-1999 ^{1,2}	2000-2003 ^{3,4}	2004 ⁵	2008 ⁶	2011 ⁷	2012 ⁸	2018, 2019, 2021 ^{9,10,11}
Systolic blood pressure (mm Hg)	<160	<135	<130 <125 (patients with albuminuria)	<130 <125 (patients with micro-albuminuria and renal disease)	<130	<130	<130
Diastolic blood pressure (mm Hg)	<95	<85	<80	<80 <75 (patients with micro-albuminuria and renal disease)	<80	<80	<80
Glycosylated hemoglobin	<7.5% (58 mmol/mol)	<6.5% (48 mmol/mol)	≤6.1%	<6.5%	<6.5% in the first years after diagnosis; later <7%, <7.5%, and <7.5-9.0%*	≤48 mmol/mol (6.5%) in the first years after diagnosis, later 48-58 mmol/mol (6.5-7.5%)*	<48 mmol/mol (6.5%) in the first years after diagnosis, later < 53 mmol/mol (7%), < 58 mmol/mol (7.5%), 58-75 mmol/mol (7.5-9%)*
Fasting serum total cholesterol (mmol/L)	<6.5	<5	<4.5	<4.5	-	-	-
LDL cholesterol (mmol/L)	-	-	<2.5	<2.5 <2.0 (patients with CVD or at high risk [†])	<2.5 (patients without CVD) <2.0 (patients with CVD or at high risk [†])	<2.5 (patients without CVD) <1.8 or at least 50% reduction (patients with CVD or at high risk [†])	<2.6 or at least 50% reduction at LDL 2.6-5.2 (patients without CVD and age<40) <1.8 or at least 50% reduction at LDL 1.8-3.5 (patients with CVD or at high risk [†]) <1.4 (should be considered for patients at very high CVD risk)
Fasting serum triglycerides (mmol/L)	<2.2	<2	<1.7	<1.7	-	-	-
Treatment with ACE inhibitor irrespective of blood pressure	No	Yes	Yes, in presence of macro- or microalbuminuria	Yes, in presence of macro- or microalbuminuria	Yes, in presence of macro- or microalbuminuria	Yes, in presence of macro- or microalbuminuria	Should be considered in presence of macro- or microalbuminuria
Aspirin therapy							
Patients with CVD	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Patients without CVD	No	No	Unclear, individual risk assessment (risk of CVD vs. GI side effects)	Yes, for high-risk patients [†]	Should be considered for high-risk patients [†]	Should be considered for high-risk patients [†]	Should be considered for high-risk patients [†]

Abbreviations: CVD, cardiovascular disease; GI, gastrointestinal; LDL, low density lipoprotein.

*Treatment goals depend on diabetes duration, risk of hypoglycaemia, and risk of micro- and macro-vascular complications.

[†]High-risk: microalbuminuria or several risk factors such as hypertension, smoking, and family history of CVD.

¹Gaede P, Vedel P, Parving HH, Pedersen O. Intensified multifactorial intervention in patients with type 2 diabetes mellitus and microalbuminuria: the Steno type 2 randomised study. *Lancet* 1999; 353(9153): 617-22.

²Beck-Nielsen H, Damsgaard EM, Faber O, Jørgensen FS, Sørensen NS. Ikke-insulinkrævende diabetes mellitus: diagnostik og behandling. Copenhagen, Denmark: Dansk Selskab for Intern Medicin 1988.

- ³Gaede P, Vedel P, Larsen N, Jensen GV, Parving HH, Pedersen O. Multifactorial intervention and cardiovascular disease in patients with type 2 diabetes. *The New England journal of medicine* 2003; 348(5): 383-93.
- ⁴Center for Evaluering og Medicinsk Teknologivurdering, Sundhedsstyrelsen. Type 2-diabetes: Medicinsk teknologivurdering af screening, diagnostik og behandling. Copenhagen, Denmark 2003.
- ⁵Drivsholm T, Hansen CN, Henderson D, Noringriis C, Schultz-Larsen P. Type 2 diabetes i almen praksis: En evidensbaseret vejledning. Denmark: Dansk Selskab for Almen Medicin 2004.
- ⁶Hildebrandt P, Madsen MM, Egstrup K, Bøtker HE, Gustafsson I, Soja AM, Snorgaard O, Knudsen ST, Rossing P, Hansen KW, Henriksen JE, Kistorp CMN. Diabetes og Hjertesygdom. Copenhagen, Denmark: Dansk Cardiologisk Selskab & Dansk Endokrinologisk Selskab 2008.
- ⁷Snorgaard O, Drivsholm T, Breum L, Christiansen JS, Hansen C, Henderson D, Henriksen JE, Knudsen ST, Kristensen JK, Lassen B, Lauritzen T, Lervang H, Rossing P, Schultz-Larsen P. Guidelines for type 2-diabetes: En fælles behandlingsvejledning med enslydende kliniske behandlingsmål. Denmark: Dansk Selskab for Almen Medicin, Dansk Endokrinologisk Selskab og Institut for Rationel Farmakoterapi 2011.
- ⁸Drivsholm T, Hansen C, Kristensen JK, Lassen B, Schultz-Larsen P. Type 2-diabetes – et metabolisk syndrom. Denmark: Dansk Selskab for Almen Medicin 2012.
- ⁹Snorgaard O, Kristensen JK, Balasubramaniam K, Breum L, Charles M, Højlund K, Madsen GK, Bruun JM, Navntoft D, Rungby J, Andersen TS, Jensen MS, Knudsen ST, Le JV. Farmakologisk behandling af type 2 diabetes – mål og algoritmer. Denmark: Dansk Endokrinologisk Selskab og Dansk Selskab for Almen Medicin 2018.
- ¹⁰Kristensen JK, Videbæk J, Madsen GK, Jensen MS, Charles M, Navntoft D, Balasubramaniam K. Type 2-diabetes - opfølgning og behandling. Denmark: Dansk Selskab for Almen Medicin 2019.
- ¹¹Hansen KB, Bjerregaard-Andersen M, Andersen TS, Breum L, Bruun JM, Højlund K, Kielgast U, Knudsen ST, Pietraszek A, Rossing P, Rungby J, Snorgaard O, Søndergaard E. Behandling og kontrol af type 2 diabetes. 2019. Available at: <https://endocrinology.dk/nbv/diabetes-melitus/behandling-og-kontrol-af-type-2-diabetes/> Accessed 01-09-2021.