

## Supplemental Material

**Table S1. Anatomical Therapeutic Chemical (ATC) codes used in the Danish Prescription Registry**

<i>Medication</i>	<i>Anatomical Therapeutic Chemical (ATC) code</i>
Insulin	A10A*
Metformin	A10BA, A10BD03, A10BD07, A10BD08, A10BD10, A10BD11, A10BD13, A10BD15, A10BD20
Sulfonylurea	A10BB, A10BD04
Glucagon-like peptide-1 analogue	A10BJ
Dipeptidyl peptidase-4 inhibitor	A10BH, A10BD07, A10BD08, A10BD10, A10BD11, A10BD13
Glitazone	A10BG, A10BD03, A10BD04
Statin	C10AA*
$\beta$ -blocker	C07*
Angiotensin-converting enzyme inhibitor	C09A*, C09B*
Angiotensin II receptor blocker	C09C*, C09D*
Calcium channel blocker	C08C*, C08D*
Thiazide	C03AA*, C03AB*
Aspirin	B01AC22, N02BA01
Adenosine diphosphate receptor inhibitor	B01AC04, B01AC22, B01AC24
Vitamin K antagonist (Warfarin, Phenprocoumon)	B01AA03, B01AA04
Non-vitamin K oral anticoagulant	B01AF02, B01AE07, B01AF01

\*Including underlying anatomical therapeutic chemical codes

**Table S2. Diagnosis codes used in the Danish National Patient Registry**

<b>The Danish National Patient Registry</b>			
<i>Diagnosis</i>	<i>ICD-8 code</i>	<i>ICD-10 code</i>	<i>Algorithm</i>
Myocardial infarction		DI21*	Primary or secondary diagnosis during a hospital contact
Haemorrhagic stroke		DI60*, DI61*, DS06.6	Primary or secondary diagnosis during a hospital contact
Ischemic stroke		DI63*, DI64*	Primary or secondary diagnosis during a hospital contact
Transient ischemic attack		DG45*	Primary or secondary diagnosis during a hospital contact
Systemic embolism		DI74*	Primary or secondary diagnosis during a hospital contact
Atrial fibrillation		DI48*	Inpatient or outpatient hospital diagnosis
Diabetes		DE10*-DE14*, DH36.0, DO24.0-24.3, DO24.5-24.9	Inpatient or outpatient hospital diagnosis
Hypertension		DI10*, DI15.1, DI15.8, DI15.9	Inpatient or outpatient hospital diagnosis
Heart failure		DI11.0, DI13.0, DI13.2, DI42.0, DI50*	Inpatient or outpatient hospital diagnosis
Peripheral artery disease		DI70, DI70.1-DI70.9, DI73.9*	Inpatient or outpatient hospital diagnosis
<b>Surgery</b>			
PCI	30350, 30354, 30359	KFNG02*, KFNG05*, KFNG96	Procedure codes
CABG	30009, 30019, 30029, 30039, 30049, 30059, 30069, 30079, 30089, 30099, 30109, 30119, 30120, 30129, 30139, 30149, 30159, 30169, 30179, 30189, 30199, 30200	KFNA*-KFNE*	Procedure codes
Carotid thrombectomy		KPAE25*, KPAF20*-KPAF22*	Procedure codes
Peripheral revascularization		KPBE*-KPDF*, KPBH*, KPBF*, KPBF* (upper limb), KPDE*-KPDF*, KPDH*, KPDQ* (a. ilaca), KPEE*-KPEF*, KPEH*, KPEQ* (a. femoralis)	Procedure codes

Lower limb amputation	KPFE*-KPPF*, KPFH*, KPFQ* (a. poplitea/crus/foot) KPDU74*, KPDU84* (iliac-bypass) KNFQ*, KNGQ*, KNHQ*	Procedure codes
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### Charlson Comorbidity Index

Myocardial infarction	410*	DI21*, DI22*, DI23*	Inpatient or outpatient hospital diagnosis
Heart failure	427.09, 427.10, 427.11, 427.19, 428.99, 782.49	DI11.0, DI13.0, DI13.2, DI50,	Inpatient or outpatient hospital diagnosis
Peripheral artery disease	440*-445*	DI70*-DI74*, DI77*	Inpatient or outpatient hospital diagnosis
Coronary artery disease	430*-438*	DI60*-DI69*, DG45*, DG46*	Inpatient or outpatient hospital diagnosis
Dementia	290.09-290.19, 293.09	DF00*-DF03*, DF05.1, DG30*	Inpatient or outpatient hospital diagnosis
Chronic obstructive pulmonary disease	490*-493*, 515*-518*	DJ40*-DJ47*, DJ60*-DJ67*, DJ68.4, DJ70.1, DJ70.3, *DJ84.1, DJ92.0, DJ96.1, DJ98.2, DJ98.3	Inpatient or outpatient hospital diagnosis
Connective tissue disease	712*, 716*, 734*, 446*, 135.99	DM05*, DM06*, DM08*, DM09*, DM30*-DM36*, DD86*	Inpatient or outpatient hospital diagnosis
Peptic ulcer	530.91, 530.98, 531*-534*	DK22.1, DK25*-DK28*	Inpatient or outpatient hospital diagnosis
Mild liver disease	571*, 573.01, 573.04	DB18*, DK70.0-DK70.3, DK70.9, DK71*, DK73*, DK74*, DK76.0	Inpatient or outpatient hospital diagnosis
Diabetes, type I and II	249.00, 249.06, 249.07, 249.09, 250.00, 250.06, 250.07, 250.09	DE10.0, DE10.1, DE10.9, DE11.0, DE11.1, DE11.9	Inpatient or outpatient hospital diagnosis
Hemiplegia	334*	DG81*, DG82*	Inpatient or outpatient hospital diagnosis
Moderate/severe kidney disease	403*, 404*, 580*-584*, 590.09, 593.19, 753.10-753.19, 792*	DI12*, DI13*, DN00*-DN05*, DN07*, DN11*, DN14*, DN17*-DN19*, DQ61*	Inpatient or outpatient hospital diagnosis
Diabetes with organ failure	249.01-249.05, 249.08, 250.01-250.05, 250.08	DE10.2-DE10.8, DE11.2-DE11.8	Inpatient or outpatient hospital diagnosis
Tumor	140*-194*	DC00*-DC75*	Inpatient or outpatient hospital diagnosis
Leukemia	204*-207*	DC91*-DC95*	Inpatient or outpatient hospital diagnosis
Lymphoma	200*-203*, 275.59	DC81*-DC85*, DC88*, DC90*, DC96*	Inpatient or outpatient hospital diagnosis
Moderate/severe liver disease	070.00, 070.02, 070.04, 070.06,	DB15.0, DB16.0, DB16.2, DB19.0,	Inpatient or outpatient hospital diagnosis

Metastatic disease	070.08, 573.00, 456.00-456.09 195*-199*	DK70.4, DK72*, DK76.6, DI85* DC76*-DC80*	Inpatient or outpatient hospital diagnosis
Acquired immunodeficiency syndrome (AIDS)	079.83	DB21*-DB24	Inpatient or outpatient hospital diagnosis

\*Including underlying diagnosis and procedure codes

**Table S3. Diagnosis codes defining cardiac death**

	<i>Diagnosis codes</i>
Cardiac death	
Ischemic heart disease	I20*-I25*
Cardiac arrest with unspecified cause	I46*
Ventricular tachycardia	I47.2
Other specified cardiac arrhythmias	I49*
Heart failure	I50*
Sudden death with unspecified cause	R96, R999
Unattended death with unspecified cause	R989

\*Including underlying diagnosis codes

**Table S4. Number of events and risk of myocardial infarction, cardiac death, all-cause death, and coronary revascularization in patients with type 1 diabetes stratified by presence/absence of coronary artery disease**

	Events (n)	Rate per 100 person- years (95% CI)	CIP <sup>1</sup> (95% CI)	Risk difference <sup>1</sup> (95% CI)	Unadjusted HR (95% CI)	Adjusted HR <sup>2</sup> (95% CI)
<i>Myocardial infarction</i>						
-CAD -DM (reference)	795	0.24 (0.22-0.25)	2.55% (2.39-2.74)	reference	1	1
-CAD +DM	13	0.32 (0.19-0.56)	3.49% (1.96-5.73)	0.94 (-0.93-2.81)	1.36 (0.79-2.37)	1.34 (0.77-2.33)
+CAD +DM	137	1.56 (1.32-1.85)	15.45% (13.16-17.91)	12.89 (10.51-15.27)	6.57 (5.48-7.88)	3.97 (3.24-4.86)
<i>Cardiac death</i>						
-CAD -DM (reference)	689	0.26 (0.24-0.28)	2.51% (2.32-2.70)	reference	1	1
-CAD +DM	7	0.24 (0.11-0.49)	2.24% (0.96-4.46)	0.27 (-1.99-1.45)	0.91 (0.43-1.92)	1.31 (0.62-2.76)
+CAD +DM	91	1.46 (1.19-1.80)	11.78% (9.55-14.25)	9.27 (6.91-11.63)	5.65 (4.54-7.03)	4.36 (3.42-5.55)
<i>All-cause death</i>						
-CAD -DM (reference)	6,129	2.29 (2.23-2.35)	22.80% (22.28-23.33)	reference	1	1
-CAD +DM	115	3.87 (3.22-4.65)	36.28% (30.92-42.26)	13.48 (7.77-19.19)	1.70 (1.41-2.04)	2.44 (2.03-2.95)
+CAD +DM	413	6.64 (6.03-7.31)	52.15% (48.47-55.92)	29.35 (25.59-33.11)	2.92 (2.65-3.23)	2.91 (2.61-3.24)
					Unadjusted IRR (95% CI)	Adjusted IRR <sup>2</sup> (95% CI)
<i>Coronary revascularization &gt; 90 days after index coronary angiography</i>						
-CAD -DM (reference)	730	0.22 (0.20-0.23)	2.35% (2.18-2.52)	reference	1	1
-CAD +DM	24	0.61 (0.41-0.90)	6.45% (4.26-9.26)	4.10 (1.61-6.59)	2.80 (1.87-4.21)	2.31 (1.53-3.48)
+CAD +DM	196	2.38 (2.07-2.74)	22.10% (19.43-24.88)	19.75 (17.02-22.48)	11.04 (9.37-13.01)	4.83 (3.49-6.69)

<sup>1</sup>Maximum follow-up of 11 years.

<sup>2</sup>Adjusted for age, hypertension, active smoking, previous ischemic stroke, peripheral artery disease, procedural priority, year of index coronary angiography, statin treatment, oral anticoagulant treatment, and antiplatelet treatment, using patients without CAD and without DM as reference. IRR was further adjusted for coronary revascularization < 90 days after the index coronary angiography.

Abbreviations: CAD, coronary artery disease; CI, confidence interval; CIP, cumulated incidence proportion; DM, diabetes mellitus; HR, hazard ratio; IRR, incidence rate ratio.

**Table S5. Number of events and risk of myocardial infarction, cardiac death, all-cause death, and coronary revascularization in patients with type 2 diabetes stratified by presence/absence of coronary artery disease**

	Events (n)	Rate per 100 person- years (95% CI)	CIP <sup>1</sup> (95% CI)	Risk difference <sup>1</sup> (95% CI)	Unadjusted HR (95% CI)	Adjusted HR <sup>2</sup> (95% CI)
<i>Myocardial infarction</i>						
-CAD -DM (reference)	795	0.24 (0.22-0.25)	2.55% (2.39-2.74)	reference	1	1
-CAD +DM	115	0.29 (0.24-0.35)	3.11% (2.59-3.71)	0.55 (-0.05-1.15)	1.22 (1.00-1.48)	1.18 (0.97-1.44)
+CAD +DM	919	1.18 (1.10-1.26)	11.95% (11.23-12.68)	9.39 (8.66-10.12)	4.93 (4.48-5.42)	3.68 (3.31-4.09)
<i>Cardiac death</i>						
-CAD -DM (reference)	689	0.26 (0.24-0.28)	2.51% (2.32-2.70)	reference	1	1
-CAD +DM	119	0.40 (0.34-0.48)	3.71% (3.06-4.43)	1.19 (0.48-1.90)	1.57 (1.29-1.91)	1.67 (1.37-2.03)
+CAD +DM	781	1.40 (1.30-1.50)	11.54% (10.76-12.35)	9.03 (8.25-9.81)	5.40 (4.87-5.98)	4.05 (3.61-4.54)
<i>All-cause death</i>						
-CAD -DM (reference)	6,129	2.29 (2.23-2.35)	22.80% (22.28-23.33)	reference	1	1
-CAD +DM	1,002	3.41 (3.20-3.62)	32.23% (30.49-34.04)	9.43 (7.57-11.29)	1.50 (1.41-1.61)	1.61 (1.51-1.72)
+CAD +DM	3,196	5.72 (5.53-5.92)	48.80% (47.48-50.15)	26.00 (24.67-27.33)	2.54 (2.44-2.65)	2.07 (1.98-2.18)
					Unadjusted IRR (95% CI)	Adjusted IRR <sup>2</sup> (95% CI)
<i>Coronary revascularization &gt; 90 days after index coronary angiography</i>						
-CAD -DM (reference)	730	0.22 (0.20-0.23)	2.35% (2.18-2.52)	reference	1	1
-CAD +DM	112	0.28 (0.23-0.34)	3.03% (2.51-3.62)	0.68 (0.11-1.25)	1.30 (1.06-1.58)	1.20 (0.98-1.47)
+CAD +DM	1,439	1.96 (1.87-2.07)	18.70% (17.83-19.57)	16.35 (15.48-17.21)	9.10 (8.31-9.96)	7.62 (6.85-8.48)

<sup>1</sup>Maximum follow-up of 11 years.

<sup>2</sup>Adjusted for age, hypertension, active smoking, previous ischemic stroke, peripheral artery disease, procedural priority, year of index coronary angiography, statin treatment, oral anticoagulant treatment, and antiplatelet treatment, using patients without CAD and without DM as reference. IRR was further adjusted for coronary revascularization < 90 days after the index coronary angiography.

Abbreviations: CAD, coronary artery disease; CI, confidence interval; CIP, cumulated incidence proportion; DM, diabetes mellitus; HR, hazard ratio; IRR, incidence rate ratio.

**Table S6. Number of events and risk of myocardial infarction, cardiac death, all-cause death, and coronary revascularization in male patients with and without diabetes stratified by coronary artery disease**

	Events (n)	Rate per 100 person- years (95% CI)	CIP <sup>1</sup> (95% CI)	Risk difference <sup>1</sup> (95% CI)	Unadjusted HR (95% CI)	Adjusted HR <sup>2</sup> (95% CI)
<i>Myocardial infarction</i>						
-CAD -DM (reference)	398	0.24 (0.22-0.26)	2.60% (2.35-2.86)	reference	1	1
-CAD +DM	62	0.27 (0.21-0.35)	2.97% (2.30-3.76)	0.37 (-0.39-1.14)	1.15 (0.88-1.50)	1.10 (0.84-1.44)
+CAD -DM	2,805	0.91 (0.88-0.95)	9.47% (9.14-9.81)	6.87 (6.46-7.29)	3.79 (3.41-4.21)	2.79 (2.48-3.14)
+CAD +DM	734	1.22 (1.13-1.31)	12.32% (11.50-13.17)	9.72 (8.89-10.56)	5.02 (4.44-5.67)	3.81 (3.33-4.36)
<i>Cardiac death</i>						
-CAD -DM (reference)	387	0.30 (0.27-0.33)	2.85% (2.58-3.15)	reference	1	1
-CAD +DM	74	0.45 (0.36-0.57)	4.05% (3.18-5.06)	1.20 (0.21-2.19)	1.53 (1.19-1.96)	1.67 (1.30-2.14)
+CAD -DM	1,861	0.77 (0.73-0.80)	7.12% (6.80-7.45)	4.27 (3.84-4.70)	2.59 (2.32-2.89)	2.18 (1.93-2.48)
+CAD +DM	613	1.42 (1.31-1.54)	11.65% (10.77-12.57)	8.80 (7.90-9.70)	4.76 (4.19-5.41)	4.02 (3.48-4.64)
<i>All-cause death</i>						
-CAD -DM (reference)	3,164	2.42 (2.33-2.50)	23.91% (23.16-24.69)	reference	1	1
-CAD +DM	627	3.83 (3.54-4.14)	35.52% (33.17-37.99)	11.61 (9.08-14.14)	1.60 (1.47-1.75)	1.73 (1.59-1.89)
+CAD -DM	8,275	3.42 (3.34-3.49)	32.66% (32.05-33.27)	8.75 (7.77-9.73)	1.42 (1.36-1.48)	1.25 (1.19-1.31)
+CAD +DM	2,485	5.75 (5.53-5.98)	48.62% (47.13-50.14)	24.71 (23.20-26.22)	2.42 (2.29-2.55)	2.08 (1.95-2.20)
					Unadjusted IRR (95% CI)	Adjusted IRR <sup>2</sup> (95% CI)
<i>Coronary revascularization &gt; 90 days after index coronary angiography</i>						
-CAD -DM (reference)	466	0.28 (0.26-0.31)	3.04% (2.78-3.32)	reference	1	1
-CAD +DM	81	0.36 (0.29-0.45)	3.88% (3.11-4.77)	0.84 (-0.03-1.71)	1.28 (1.01-1.62)	1.16 (0.91-1.47)
+CAD -DM	5,360	1.88 (1.83-1.93)	18.10% (17.66-18.54)	15.06 (14.55-15.57)	6.69 (6.09-7.36)	6.29 (5.60-7.07)
+CAD +DM	1,199	2.13 (2.02-2.26)	20.13% (19.12-21.16)	17.09 (16.07-18.11)	7.60 (6.82-8.47)	7.07 (6.23-8.03)

<sup>1</sup>Maximum follow-up of 11 years.

<sup>2</sup>Adjusted for age, hypertension, active smoking, previous ischemic stroke, peripheral artery disease, procedural priority, year of index coronary angiography, statin treatment, oral anticoagulant treatment, and antiplatelet treatment, using patients without CAD and without DM as reference. IRR was further adjusted for coronary revascularization < 90 days after the index coronary angiography.

Abbreviations: CAD, coronary artery disease; CI, confidence interval; CIP, cumulated incidence proportion; DM, diabetes mellitus; HR, hazard ratio; IRR, incidence rate ratio.

**Table S7. Number of events and risk of myocardial infarction, cardiac death, all-cause death, and coronary revascularization in female patients with and without diabetes stratified by coronary artery disease**

	Events (n)	Rate per 100 person- years (95% CI)	CIP <sup>1</sup> (95% CI)	Risk difference <sup>1</sup> (95% CI)	Unadjusted HR (95% CI)	Adjusted HR <sup>2</sup> (95% CI)
<i>Myocardial infarction</i>						
-CAD -DM (reference)	397	0.23 (0.21-0.26)	2.51% (2.28-2.77)	reference	1	1
-CAD +DM	66	0.31 (0.24-0.39)	3.33% (2.61-4.19)	0.82 (0.00-1.64)	1.33 (1.03-1.73)	1.33 (1.02-1.73)
+CAD -DM	1,152	0.87 (0.82-0.92)	8.99% (8.50-9.49)	6.48 (5.94-7.02)	3.71 (3.31-4.16)	2.63 (2.31-2.99)
+CAD +DM	321	1.21 (1.09-1.35)	12.21% (11.00-13.50)	9.70 (8.45-10.95)	5.15 (4.45-5.97)	3.72 (3.17-4.37)
<i>Cardiac death</i>						
-CAD -DM (reference)	302	0.22 (0.20-0.25)	2.17% (1.94-2.44)	reference	1	1
-CAD +DM	52	0.32 (0.25-0.43)	3.07% (2.29-4.02)	0.90 (0.00-1.79)	1.47 (1.10-1.97)	1.63 (1.21-2.19)
+CAD -DM	907	0.91 (0.85-0.97)	8.09% (7.58-8.62)	5.92 (5.33-6.51)	4.11 (3.60-4.68)	2.55 (2.20-2.95)
+CAD +DM	259	1.37 (1.21-1.55)	11.40% (10.09-12.81)	9.23 (7.87-10.59)	6.20 (5.25-7.32)	4.14 (3.45-4.95)
<i>All-cause death</i>						
-CAD -DM (reference)	2,965	2.17 (2.09-2.25)	21.72% (21.00-22.45)	reference	1	1
-CAD +DM	490	3.06 (2.80-3.34)	29.58% (27.28-32.04)	7.86 (5.38-10.34)	1.43 (1.30-1.57)	1.59 (1.45-1.76)
+CAD -DM	4,306	4.31 (4.18-4.44)	39.77% (38.79-40.78)	18.05 (16.82-19.28)	2.01 (1.92-2.11)	1.47 (1.39-1.55)
+CAD +DM	1,124	5.95 (5.62-6.31)	50.30% (48.04-52.61)	28.58 (26.29-30.87)	2.80 (2.62-3.00)	2.23 (2.07-2.40)
					Unadjusted IRR (95% CI)	Adjusted IRR <sup>2</sup> (95% CI)
<i>Coronary revascularization &gt; 90 days after index coronary angiography</i>						
-CAD -DM (reference)	264	0.15 (0.14-0.17)	1.67% (1.48-1.88)	reference	1	1
-CAD +DM	55	0.26 (0.20-0.33)	2.78% (2.12-3.57)	1.11 (0.36-1.86)	1.67 (1.25-2.23)	1.59 (1.18-2.13)
+CAD -DM	1,669	1.31 (1.25-1.37)	13.02% (12.45-13.61)	11.35 (10.74-11.96)	8.52 (7.48-9.71)	6.48 (5.51-7.63)
+CAD +DM	436	1.72 (1.57-1.89)	16.59% (15.20-18.04)	14.92 (13.49-16.35)	11.24 (9.62-13.13)	8.28 (6.87-9.99)

<sup>1</sup>Maximum follow-up of 11 years.

<sup>2</sup>Adjusted for age, hypertension, active smoking, previous ischemic stroke, peripheral artery disease, procedural priority, year of index coronary angiography, statin treatment, oral anticoagulant treatment, and antiplatelet treatment, using patients without CAD and without DM as reference. IRR was further adjusted for coronary revascularization < 90 days after the index coronary angiography.

Abbreviations: CAD, coronary artery disease; CI, confidence interval; CIP, cumulated incidence proportion; DM, diabetes mellitus; HR, hazard ratio; IRR, incidence rate ratio.



