

Supplementary file

Supplementary Table 1. CPRD codelist for diabetes-related diagnoses and drug prescriptions (Type 1 diabetes excluded)

Supplementary Table 2. CPRD codelist for hypoglycaemia events and microvascular diabetic complications

Supplementary Table 3. CPRD codelist for HbA1c records in the Test File

Supplementary Table 4. CPRD codelist for dementia diagnosis and drug prescription

Supplementary Table 5. Baseline characteristics of participants in diabetes cohort with and without post-diabetes diagnosis HbA1c record

Supplementary Table 6. Subgroup analyses of associations between diabetic complications, HbA1c measures and risk of dementia incidence by sex

Supplementary Table 7. Sensitivity analyses of associations between diabetic complications, HbA1c measures and risk of dementia incidence

Supplementary References.

Supplementary Table 1. CPRD codelist for diabetes-related diagnoses and drug prescriptions (Type 1 diabetes excluded)

Sources	Code	Description
Diabetes-related diagnosis (Medcode)	53634	[D]Gangrene of toe in diabetic
	31053	[D]Widespread diabetic foot gangrene
	99628	[X]Glomerular disorders in diabetes mellitus
	100292	[X]Unspecified diabetes mellitus with renal complications
	48078	Acute painful diabetic neuropathy
	7059	Admit diabetic emergency
	10099	Advanced diabetic maculopathy
	47584	Advanced diabetic retinal disease
	24571	Asymptomatic diabetic neuropathy
	17067	Autonomic neuropathy due to diabetes
	7069	Background diabetic retinopathy
	7328	Cellulitis in diabetic foot
	35785	Chronic painful diabetic neuropathy
	107881	Clinical diabetic nephropathy
	61670	Diab mellit insulin-glucose infus acute myocardial infarct
	72345	Diabetes mellitus NOS with hyperosmolar coma
	42505	Diabetes mellitus NOS with ketoacidosis
	65062	Diabetes mellitus NOS with ketoacidotic coma
	22573	Diabetes mellitus NOS with neurological manifestation
	34283	Diabetes mellitus NOS with ophthalmic manifestation
	70821	Diabetes mellitus NOS with other specified manifestation
	65025	Diabetes mellitus NOS with peripheral circulatory disorder
	64357	Diabetes mellitus NOS with unspecified complication
	32403	Diabetes mellitus with gangrene
	21482	Diabetes mellitus with hyperosmolar coma
	1682	Diabetes mellitus with ketoacidosis
	15690	Diabetes mellitus with ketoacidotic coma
	35107	Diabetes mellitus with nephropathy NOS
	16230	Diabetes mellitus with neurological manifestation
	7795	Diabetes mellitus with neuropathy
	33254	Diabetes mellitus with ophthalmic manifestation
	33343	Diabetes mellitus with other specified manifestation
	35399	Diabetes mellitus with peripheral circulatory disorder
	16491	Diabetes mellitus with polyneuropathy
	16502	Diabetes mellitus with renal manifestation
	45491	Diabetes mellitus with unspecified complication
	39317	Diabetes mellitus, adult onset, + neurological manifestation
	41389	Diabetes mellitus, adult onset, + ophthalmic manifestation
	63762	Diabetes mellitus, adult onset, + unspecified complication
	43139	Diabetes mellitus, adult onset, with hyperosmolar coma
	54856	Diabetes mellitus, adult onset, with ketoacidosis

Sources	Code	Description
	68843	Diabetes mellitus, adult onset, with ketoacidotic coma
	35105	Diabetes mellitus, adult onset, with renal manifestation
	33807	Diabetes mellitus, adult with gangrene
	63371	Diabetes mellitus, adult, + other specified manifestation
	63357	Diabetes mellitus, adult, + peripheral circulatory disorder
	32556	Diabetes with gangrene
	59903	Diabetic amyotrophy
	2340	Diabetic amyotrophy
	102490	Diabetic assessment of erectile dysfunction
	10659	Diabetic cataract
	27891	Diabetic Charcot arthropathy
	18142	Diabetic cheiroarthropathy
	57333	Diabetic cheiropathy
	102434	Diabetic erectile dysfunction review
	17313	Diabetic iritis
	3837	Diabetic maculopathy
	44033	Diabetic mononeuritis multiplex
	17247	Diabetic mononeuritis NOS
	37315	Diabetic mononeuropathy
	2475	Diabetic nephropathy
	2342	Diabetic neuropathy
	34152	Diabetic peripheral angiopathy
	109760	Diabetic peripheral neuropathic pain
	5002	Diabetic polyneuropathy
	1323	Diabetic retinopathy
	11018	Diabetic retinopathy 12 month review
	18662	Diabetic retinopathy 6 month review
	11626	Diabetic retinopathy NOS
	106360	Erectile dysfunction due to diabetes mellitus
	27921	Foot abnormality - diabetes related
	18056	Foot abnormality - diabetes related
	7045	H/O: Admission in last year for diabetes foot problem
	36633	Hyperosmolar non-ketotic state in type 2 diabetes mellitus
	34450	Hyperosmolar non-ketotic state in type 2 diabetes mellitus
	107701	Hyperosmolar non-ketotic state in type II diabetes mellitus
	18583	Hypoglycaemic attack requiring 3rd party assistance
	101881	Impaired vision due to diabetic retinopathy
	24327	Ischaemic ulcer diabetic foot
	45499	Kimmelstiel - Wilson disease
	13068	Last hypo. attack
	9881	Mixed diabetic ulcer - foot
	39420	Myasthenic syndrome due to diabetic amyotrophy
	2471	Nephrotic syndrome in diabetes mellitus

Sources	Code	Description
	11663	Neuropathic diabetic ulcer - foot
	56803	NIDDM with peripheral circulatory disorder
	10755	Non proliferative diabetic retinopathy
	69278	Non-insulin depend diabetes mellitus with diabetic cataract
	40962	Non-insulin dependent d m with neuropathic arthropathy
	24693	Non-insulin dependent diabetes mellitus with arthropathy
	40401	Non-insulin dependent diabetes mellitus with gangrene
	43785	Non-insulin dependent diabetes mellitus with hypoglyca coma
	72320	Non-insulin dependent diabetes mellitus with mononeuropathy
	59365	Non-insulin dependent diabetes mellitus with nephropathy
	45467	Non-insulin dependent diabetes mellitus with polyneuropathy
	34912	Non-insulin dependent diabetes mellitus with ulcer
	54212	Non-insulin-dependent d m with peripheral angiopath
	62146	Non-insulin-dependent diabetes mellitus with multiple comps
	55842	Non-insulin-dependent diabetes mellitus with neuro comps
	50429	Non-insulin-dependent diabetes mellitus with ophthalm comps
	52303	Non-insulin-dependent diabetes mellitus with renal comps
	17262	Non-insulin-dependent diabetes mellitus with retinopathy
	47144	O/E - diabetic maculopathy absent both eyes
	9835	O/E - diabetic maculopathy present both eyes
	49640	O/E - left chronic diabetic foot ulcer
	35116	O/E - Left diabetic foot - ulcerated
	11129	O/E - left eye background diabetic retinopathy
	13108	O/E - left eye diabetic maculopathy
	13103	O/E - left eye preproliferative diabetic retinopathy
	13101	O/E - left eye proliferative diabetic retinopathy
	52041	O/E - left eye stable treated prolif diabetic retinopathy
	62384	O/E - right chronic diabetic foot ulcer
	35316	O/E - Right diabetic foot - ulcerated
	11433	O/E - right eye background diabetic retinopathy
	13102	O/E - right eye diabetic maculopathy
	13099	O/E - right eye preproliferative diabetic retinopathy
	13097	O/E - right eye proliferative diabetic retinopathy
	47328	O/E - right eye stable treated prolif diabetic retinopathy
	52630	O/E - sight threatening diabetic retinopathy
	59288	Other specified diabetes mellitus with coma
	38617	Other specified diabetes mellitus with ketoacidosis
	46290	Other specified diabetes mellitus with multiple comps
	61523	Other specified diabetes mellitus with neurological comps
	47377	Other specified diabetes mellitus with ophthalmic complicatn
	10098	Other specified diabetes mellitus with other spec comps
	13279	Other specified diabetes mellitus with renal complications
	64283	Other specified diabetes mellitus with unspecified comps

Sources	Code	Description
	31790	Polyneuropathy in diabetes
	2986	Preproliferative diabetic retinopathy
	3286	Proliferative diabetic retinopathy
	105302	Proteinuric diabetic nephropathy
	11848	Renal diabetes
	22967	Retinal abnormality - diabetes related
	49869	Type 2 diabetes mellitus with arthropathy
	59253	Type 2 diabetes mellitus with arthropathy
	44779	Type 2 diabetes mellitus with diabetic cataract
	44982	Type 2 diabetes mellitus with diabetic cataract
	25591	Type 2 diabetes mellitus with exudative maculopathy
	46150	Type 2 diabetes mellitus with gangrene
	12736	Type 2 diabetes mellitus with gangrene
	63690	Type 2 diabetes mellitus with gastroparesis
	61071	Type 2 diabetes mellitus with hypoglycaemic coma
	46917	Type 2 diabetes mellitus with hypoglycaemic coma
	32627	Type 2 diabetes mellitus with ketoacidosis
	51756	Type 2 diabetes mellitus with ketoacidotic coma
	62674	Type 2 diabetes mellitus with mononeuropathy
	108005	Type 2 diabetes mellitus with multiple complications
	65267	Type 2 diabetes mellitus with multiple complications
	24836	Type 2 diabetes mellitus with nephropathy
	12640	Type 2 diabetes mellitus with nephropathy
	45919	Type 2 diabetes mellitus with neurological complications
	34268	Type 2 diabetes mellitus with neurological complications
	66965	Type 2 diabetes mellitus with neuropathic arthropathy
	35385	Type 2 diabetes mellitus with neuropathic arthropathy
	70316	Type 2 diabetes mellitus with ophthalmic complications
	47321	Type 2 diabetes mellitus with ophthalmic complications
	60699	Type 2 diabetes mellitus with peripheral angiopathy
	37806	Type 2 diabetes mellitus with peripheral angiopathy
	18390	Type 2 diabetes mellitus with persistent microalbuminuria
	26054	Type 2 diabetes mellitus with persistent proteinuria
	18425	Type 2 diabetes mellitus with polyneuropathy
	109865	Type 2 diabetes mellitus with polyneuropathy
	18209	Type 2 diabetes mellitus with renal complications
	18777	Type 2 diabetes mellitus with renal complications
	42762	Type 2 diabetes mellitus with retinopathy
	18496	Type 2 diabetes mellitus with retinopathy
	65704	Type 2 diabetes mellitus with ulcer
	49074	Type 2 diabetes mellitus with ulcer
	18143	Type II diabetes mellitus with arthropathy
	103902	Type II diabetes mellitus with arthropathy

Sources	Code	Description
	48192	Type II diabetes mellitus with diabetic cataract
	93727	Type II diabetes mellitus with diabetic cataract
	111798	Type II diabetes mellitus with exudative maculopathy
	62107	Type II diabetes mellitus with gangrene
	104323	Type II diabetes mellitus with gangrene
	56268	Type II diabetes mellitus with hypoglycaemic coma
	98723	Type II diabetes mellitus with hypoglycaemic coma
	106528	Type II diabetes mellitus with ketoacidosis
	106061	Type II diabetes mellitus with ketoacidotic coma
	50813	Type II diabetes mellitus with mononeuropathy
	95351	Type II diabetes mellitus with mononeuropathy
	43227	Type II diabetes mellitus with multiple complications
	64571	Type II diabetes mellitus with nephropathy
	102201	Type II diabetes mellitus with nephropathy
	67905	Type II diabetes mellitus with neurological complications
	98616	Type II diabetes mellitus with neurological complications
	47816	Type II diabetes mellitus with neuropathic arthropathy
	109197	Type II diabetes mellitus with neuropathic arthropathy
	59725	Type II diabetes mellitus with ophthalmic complications
	100964	Type II diabetes mellitus with ophthalmic complications
	54899	Type II diabetes mellitus with peripheral angiopathy
	104639	Type II diabetes mellitus with peripheral angiopathy
	85991	Type II diabetes mellitus with persistent microalbuminuria
	60796	Type II diabetes mellitus with persistent proteinuria
	47409	Type II diabetes mellitus with polyneuropathy
	50527	Type II diabetes mellitus with polyneuropathy
	50225	Type II diabetes mellitus with renal complications
	57278	Type II diabetes mellitus with renal complications
	58604	Type II diabetes mellitus with retinopathy
	49655	Type II diabetes mellitus with retinopathy
	55075	Type II diabetes mellitus with ulcer
	91646	Type II diabetes mellitus with ulcer
	64449	Unspecified diabetes mellitus with multiple complications
	65684	[X] Adverse reaction to insulins and antidiabetic agents
	100033	[X] Adverse reaction to insulins and antidiabetic agents NOS
	52212	[X]Diabetes mellitus
	41686	[X]Other specified diabetes mellitus
	68928	Adverse reaction to insulins and antidiabetic agents
	61210	Adverse reaction to insulins and antidiabetic agents NOS
	107739	Advice about diabetes and driving
	18167	Annual diabetic blood test
	93390	Attended DAFNE diabetes structured education programme
	93530	Attended DESMOND structured programme

Sources	Code	Description
	26605	Attended diabetes structured education programme
	94011	Attended XPERT diabetes structured education programme
	6430	Attending diabetes clinic
	13197	Attends diabetes monitoring
	36798	Continuous subcutaneous infusion of insulin
	11047	Conversion to insulin
	107508	Conversion to insulin by diabetes specialist nurse
	107331	Conversion to insulin in secondary care
	91164	CSQ - Diabetes clinic satisfaction questionnaire
	93491	DAFNE diabetes structured education programme completed
	29041	Date diabetic treatment start
	55123	Date diabetic treatment stopp.
	101190	Declined consent for diabetes year of care programme
	106218	Declined diabetic retinopathy screening
	93529	DESMOND diabetes structured education programme completed
	12307	Diabetes care by hospital only
	47032	Diabetes care plan agreed
	103743	Diabetes care plan declined
	13191	Diabetes clinic administration
	68546	Diabetes clinic satisfaction questionnaire
	63412	Diabetes clinical management plan
	105585	Diabetes clinical pathway
	54419	Diabetes key contact
	8836	Diabetes management plan given
	11471	Diabetes medication review
	711	Diabetes mellitus
	67635	Diabetes mellitus - unspec whether in pregnancy/puerperium
	107603	Diabetes mellitus in remission
	50972	Diabetes mellitus NOS with no mention of complication
	38986	Diabetes mellitus with no mention of complication
	14803	Diabetes mellitus, adult onset, no mention of complication
	101455	Diabetes monitor invitation by SMS (short message service)
	13192	Diabetes monitor. check done
	31141	Diabetes monitor.phone invite
	31240	Diabetes monitor.verbal invite
	20900	Diabetes monitored
	13194	Diabetes monitoring 1st letter
	13195	Diabetes monitoring 2nd letter
	12030	Diabetes monitoring 3rd letter
	9897	Diabetes monitoring admin.
	31241	Diabetes monitoring admin.NOS
	22130	Diabetes monitoring default
	54846	Diabetes monitoring deleted

Sources	Code	Description
	28622	Diabetes resolved
	18766	Diabetes resolved
	108993	Diabetes self-management plan agreed
	107423	Diabetes self-management plan review
	94186	Diabetes structured education programme completed
	93854	Diabetes structured education programme declined
	107414	Diabetes structured education programme not available
	98954	Diabetes treatment satisfaction questionnaire
	94699	Diabetes treatment satisfaction questionnaire
	83532	Diabetes type 2 review
	34528	Diabetes well being questionnaire
	38130	Diabetes wellbeing questionnaire
	107464	Diabetes Year of Care annual review
	12506	Diabetes: practice programme
	12675	Diabetes: shared care programme
	43951	Diabetic - cooperative patient
	17886	Diabetic - follow-up default
	13071	Diabetic - good control
	2378	Diabetic - poor control
	22023	Diabetic - poor control NOS
	28873	Diabetic 6 month review
	6125	Diabetic annual review
	46533	Diabetic association member
	110393	Diabetic carbohydrate counting diet
	47341	Diabetic crisis monitoring
	13074	Diabetic diet
	26604	Diabetic diet - good compliance
	25636	Diabetic diet - poor compliance
	101177	Diabetic dietary review
	101456	Diabetic dietary review declined
	61021	Diabetic digital retinopathy screening offered
	53238	Diabetic drug side effects
	108890	Diabetic foot care education
	22823	Diabetic foot examination
	18824	Diabetic foot examination declined
	12247	Diabetic foot examination not indicated
	50175	Diabetic foot risk assessment
	95994	Diabetic foot screen
	106738	Diabetic foot screening invitation
	106723	Diabetic foot screening invitation first letter
	106722	Diabetic foot screening invitation second letter
	107793	Diabetic foot screening invitation third letter
	110409	Diabetic injection administration education

Sources	Code	Description
	21689	Diabetic lipid lowering diet
	103798	Diabetic medicine
	3550	Diabetic monitoring
	61470	Diabetic monitoring - higher risk albumin excretion
	66475	Diabetic monitoring - lower risk albumin excretion
	13067	Diabetic monitoring NOS
	36669	Diabetic monitoring not required
	7563	Diabetic on diet only
	8842	Diabetic on insulin
	111483	Diabetic on insulin and glucagon-like peptide 1
	28769	Diabetic on insulin and oral treatment
	110344	Diabetic on non-insulin injectable medication
	1684	Diabetic on oral treatment
	110379	Diabetic on oral treatment and glucagon-like peptide 1
	101728	Diabetic on subcutaneous treatment
	35383	Diabetic patient unsuitable for digital retinal photography
	10977	Diabetic peripheral neuropathy screening
	18311	Diabetic retinopathy screening
	106269	Diabetic retinopathy screening administrative status
	18747	Diabetic retinopathy screening not indicated
	19739	Diabetic retinopathy screening offered
	12262	Diabetic retinopathy screening refused
	24363	Diabetic stabilisation
	16490	Diabetic treatment changed
	13078	Diabetic weight reducing diet
	17869	Diabetic-uncooperative patient
	47370	Diabetology D.V. done
	61557	Diabetology D.V. requested
	58133	Discharge by diabetic liaison nurse
	109806	Discharge from secondary care diabetes service
	47058	Discharged from care of diabetes specialist nurse
	100422	Discharged from diabetes shared care programme
	68818	DTSQ - Diabetes treatment satisfaction questionnaire
	97824	DWBQ - Diabetes wellbeing questionnaire
	107361	Education about diabetes and driving
	100436	Education in self management of diabetes
	12703	Education score - diabetes
	67664	Education score - diabetes
	109520	Eligibility permanently inactive for diabetic retinop screen
	109521	Eligibility temporarily inactive for diabetic retinop screen
	106332	Eligible for diabetic retinopathy screening
	28574	Exception reporting: diabetes quality indicators
	106328	Excluded diabetc retinop screen as under care ophthalmolgist

Sources	Code	Description
	106778	Excluded frm diabetic retinopathy screen as terminal illness
	106445	Excluded from diabetic retinopathy screen physical disorder
	106327	Excluded from diabetic retinopathy screening
	106329	Excluded from diabetic retinopathy screening as blind
	51066	Family/carer attended diabetes structured education prog
	95641	Family/carer referral to diabetes structured education prog
	608	Follow-up diabetic assessment
	40363	Frequency of GP or paramedic treated hypoglycaemia
	31752	Frequency of hospital treated hypoglycaemia
	13281	Frequency of hypo. attacks
	13196	Fundoscopy - diabetic check
	107452	Further diabetic monitoring
	6813	H/O: diabetes mellitus
	17236	H/O: insulin therapy
	13069	Has seen dietician - diabetes
	9958	Hb. A1C - diabetic control
	14049	Hb. A1C - diabetic control NOS
	13597	Hb. A1C < 7% - good control
	13604	Hb. A1C > 10% - bad control
	29218	Hb. A1C 7-10% - borderline
	14050	HbA1 - diabetic control
	42360	HbA1 < 7% - good control
	46079	HbA1 > 10% - bad control
	40463	HbA1 7 - 10% - borderline control
	65463	High risk non proliferative diabetic retinopathy
	30477	High risk proliferative diabetic retinopathy
	108018	Incretin mimetic treatment started
	106441	Ineligible for diabetic retinopathy screening
	61461	Informed consent for diabetes national audit
	44312	Informed dissent for diabetes national audit
	103817	Informed dissent not to carry insulin passport
	108634	In-house diabetic foot screening
	20696	Injection sites - diabetic
	102549	Insulin dose
	83485	Insulin dose changed
	90301	Insulin needles changed daily
	66274	Insulin needles changed for each injection
	69152	Insulin needles changed less than once a day
	104858	Insulin passport checked
	103762	Insulin passport completed
	103772	Insulin passport given
	108655	Insulin passport not checked
	58159	Insulin therapy declined

Sources	Code	Description
	37648	Insulin treated non-insulin dependent diabetes mellitus
	18278	Insulin treated Type 2 diabetes mellitus
	1407	Insulin treated Type 2 diabetes mellitus
	18264	Insulin treated Type II diabetes mellitus
	64668	Insulin treated Type II diabetes mellitus
	96010	Insulin treatment initiated
	100791	Insulin treatment stopped
	68714	Insulins and antidiabetic poisoning
	95636	Latent autoimmune diabetes mellitus in adult
	72333	Listed for Diabetology admisssn
	5884	NIDDM - Non-insulin dependent diabetes mellitus
	506	Non-insulin dependent diabetes mellitus
	4513	Non-insulin dependent diabetes mellitus
	8403	Non-insulin dependent diabetes mellitus - poor control
	29979	Non-insulin-dependent diabetes mellitus without complication
	35321	Non-urgent diabetic admission
	31172	O/E - Left diabetic foot at high risk
	105740	O/E - Left diabetic foot at increased risk
	26667	O/E - Left diabetic foot at low risk
	31156	O/E - Left diabetic foot at moderate risk
	26664	O/E - Left diabetic foot at risk
	13104	O/E - no left diabetic retinopathy
	13100	O/E - no right diabetic retinopathy
	31171	O/E - Right diabetic foot at high risk
	105741	O/E - Right diabetic foot at increased risk
	26666	O/E - Right diabetic foot at low risk
	31157	O/E - Right diabetic foot at moderate risk
	17095	O/E - Right diabetic foot at risk
	11599	Pan retinal photocoagulation for diabetes
	57389	Patient consent given for addition to diabetic register
	32619	Patient diabetes education review
	58639	Patient held diabetic record declined
	52237	Patient held diabetic record issued
	12682	Patient offered diabetes structured education programme
	12213	Patient on maximal tolerated therapy for diabetes
	50609	Pre-existing diabetes mellitus, non-insulin-dependent
	55431	Pre-existing diabetes mellitus, unspecified
	34541	Private referral to diabetologist
	104374	Provision of diabetes clinical summary
	8414	Pt advised re diabetic diet
	110511	Recommendation self-refer for diabetes structured education
	11677	Refer to diabetic foot screener
	12225	Refer, diabetic liaison nurse

Sources	Code	Description
	64142	Referral for diabetic retinopathy screening
	105207	Referral to community diabetes clinic
	104287	Referral to community diabetes service
	82474	Referral to community diabetes specialist nurse
	105937	Referral to community diabetes specialist nurse declined
	93704	Referral to DAFNE diabetes structured education programme
	106953	Referral to DAFNE diabetes structured educn prog declined
	93657	Referral to DESMOND diabetes structured education programme
	103543	Referral to DESMOND structured programme declined
	8306	Referral to diabetes nurse
	11977	Referral to diabetes nurse
	94330	Referral to diabetes special interest general practitioner
	47011	Referral to diabetes structured education programme
	19381	Referral to diabetic eye clinic
	13678	Referral to diabetic liaison nurse
	57723	Referral to diabetic register
	7777	Referral to diabetologist
	69163	Referral to multidisciplinary diabetic clinic
	93870	Referral to XPERT diabetes structured education programme
	26603	Refuses diabetes monitoring
	12507	Seen by diabetic liaison nurse
	8618	Seen by diabetic liaison nurse
	46521	Seen by diabetologist
	97281	Seen by general practitioner special interest in diabetes
	32739	Seen in community diabetes specialist clinic
	38129	Seen in community diabetic specialist nurse clinic
	2379	Seen in diabetic clinic
	9974	Seen in diabetic eye clinic
	10824	Seen in diabetic foot clinic
	38103	Seen in diabetic nurse consultant clinic
	95813	Seen in multidisciplinary diabetic clinic
	17817	Subcutaneous injection of insulin
	102316	Suspected diabetes mellitus
	28856	Transition of diabetes care options discussed
	17859	Type 2 diabetes mellitus
	758	Type 2 diabetes mellitus
	45913	Type 2 diabetes mellitus - poor control
	25627	Type 2 diabetes mellitus - poor control
	110611	Type 2 diabetes mellitus in remission
	105784	Type 2 diabetes mellitus without complication
	47954	Type 2 diabetes mellitus without complication
	102611	Type 2 diabetic dietary review
	18219	Type II diabetes mellitus

Sources	Code	Description
	22884	Type II diabetes mellitus
	24458	Type II diabetes mellitus - poor control
	47315	Type II diabetes mellitus - poor control
	107824	Type II diabetes mellitus in remission
	53392	Type II diabetes mellitus without complication
	109103	Type II diabetes mellitus without complication
	101801	Type II diabetic dietary review
	11930	Under care of diabetes specialist nurse
	11094	Under care of diabetic foot screener
	45250	Under care of diabetic liaison nurse
	54601	Under care of diabetologist
	9013	Unstable diabetes
Anti-diabetes drugs (Product code)	44250	Metformin 500mg/5ml Oral solution (Hillcross Pharmaceuticals Ltd)
	39598	Metformin 1g modified-release tablets
	51135	Metformin 500mg modified-release tablets (A A H Pharmaceuticals Ltd)
	62265	Metformin 500mg modified-release tablets (Mawdsley-Brooks & Company Ltd)
	34917	Metformin 500mg tablets (Teva UK Ltd)
	48149	Metformin 500mg tablets (Almus Pharmaceuticals Ltd)
	34004	Metformin 500mg tablets (IVAX Pharmaceuticals UK Ltd)
	49738	Metformin 1g modified-release tablets (A A H Pharmaceuticals Ltd)
	55739	Metformin 500mg tablets (Tillomed Laboratories Ltd)
	735	Metformin 100mg/ml Oral solution
	68389	Metformin 500mg/5ml oral solution sugar free (Pinewood Healthcare)
	68214	Metformin 500mg/5ml oral solution sugar free (A A H Pharmaceuticals Ltd)
	34697	Metformin 850mg tablets (Wockhardt UK Ltd)
	57457	Metformin 500mg tablets (Aurobindo Pharma Ltd)
	58607	Metformin 500mg/5ml oral solution sugar free (Zentiva)
	40233	Metformin 1g oral powder sachets sugar free
	34135	Metformin 500mg Tablet (M & A Pharmachem Ltd)
	38355	Metformin 750mg modified-release tablets
	34598	Metformin 500mg tablets (Mylan Ltd)
	63045	Metformin 850mg tablets (Relonchem Ltd)
	23	Metformin 500mg tablets
	34323	Metformin 500mg tablets (A A H Pharmaceuticals Ltd)
	69221	Metformin 1g oral powder sachets sugar free (J M McGill Ltd)
	62605	Metformin 850mg tablets (Kent Pharmaceuticals Ltd)
	52442	Metformin 500mg tablets (Pfizer Ltd)
	50970	Metformin 500mg tablets (Bristol Laboratories Ltd)
	54442	Metformin (roi) 1000mg Tablet
	60074	Metformin 1g modified-release tablets (Waymade Healthcare Plc)
	34742	Metformin 850mg tablets (Teva UK Ltd)
	50821	Metformin 850mg tablets (Pfizer Ltd)
	34504	Metformin 500mg tablets (Wockhardt UK Ltd)

Sources	Code	Description
	34020	Metformin 850mg tablets (IVAX Pharmaceuticals UK Ltd)
	54898	Metformin 850mg tablets (Almus Pharmaceuticals Ltd)
	60968	Metformin 500mg modified-release tablets (Actavis UK Ltd)
	62824	Metformin 1g modified-release tablets (Actavis UK Ltd)
	65694	Metformin 500mg modified-release tablets (Waymade Healthcare Plc)
	33674	Metformin 850mg tablets (A A H Pharmaceuticals Ltd)
	33087	Metformin 500mg tablets (Actavis UK Ltd)
	60286	Metformin 500mg/5ml oral suspension
	34836	Metformin 850mg tablets (Actavis UK Ltd)
	43270	Metformin 500mg/5ml oral solution sugar free (Rosemont Pharmaceuticals Ltd)
	65923	Metformin 1g modified-release tablets (Mawdsley-Brooks & Company Ltd)
	55711	Metformin 500mg tablets (Alliance Healthcare (Distribution) Ltd)
	53867	Metformin 500mg tablets (Zentiva)
	93	Metformin 850mg tablets
	51527	Metformin 500mg tablets (Boston Healthcare Ltd)
	62144	Metformin 500mg modified-release tablets (DE Pharmaceuticals)
	53478	Metformin 500mg modified-release tablets (Kent Pharmaceuticals Ltd)
	68203	Metformin 500mg modified-release tablets (Almus Pharmaceuticals Ltd)
	58051	Metformin 500mg/5ml oral solution
	7048	Metformin 500mg modified-release tablets
	39988	Metformin 500mg oral powder sachets sugar free
	11990	Metformin 500mg/5ml oral solution sugar free
	68636	Metformin 850mg/5ml oral solution sugar free
	39560	Bolamyn SR 500mg tablets (Teva UK Ltd)
	57147	Bolamyn SR 1000mg tablets (Teva UK Ltd)
	46989	Metabet SR 1000mg tablets (Morningside Healthcare Ltd)
	50570	Glucophage SR 500mg tablets (Lexon (UK) Ltd)
	42161	Orabet 500mg Tablet (Sandoz Ltd)
	7166	Glucophage 500mg tablets (Merck Serono Ltd)
	40110	Glucophage 500mg oral powder sachets (Merck Serono Ltd)
	25678	Glucamet 500mg Tablet (Opus Pharmaceuticals Ltd)
	59620	Glucophage SR 500mg tablets (Waymade Healthcare Plc)
	53774	Metabet SR 500mg tablets (Actavis UK Ltd)
	38400	Glucophage SR 750mg tablets (Merck Serono Ltd)
	7610	Glucophage 850mg tablets (Merck Serono Ltd)
	40007	Glucophage 1000mg oral powder sachets (Merck Serono Ltd)
	51080	Metabet SR 1000mg tablets (Actavis UK Ltd)
	31146	Metsol 500mg/5ml oral solution (Kappin Ltd)
	27501	Orabet 500mg Tablet (Lagap)
	70477	Glcient SR 750mg tablets (Consilient Health Ltd)
	16044	Glucophage SR 500mg tablets (Merck Serono Ltd)
	52634	Glucophage SR 500mg tablets (DE Pharmaceuticals)
	47939	Glcient SR 500mg tablets (Consilient Health Ltd)

Sources	Code	Description
	49502	Glucophage SR 500mg tablets (Mawdsley-Brooks & Company Ltd)
	45581	Metabet SR 500mg tablets (Morningside Healthcare Ltd)
	64939	Glcient SR 1000mg tablets (Consilient Health Ltd)
	66136	Glucophage SR 1000mg tablets (Waymade Healthcare Plc)
	61043	Sukkarto SR 1000mg tablets (Morningside Healthcare Ltd)
	55270	Duformin 500mg Tablet (Dumex Ltd)
	39729	Glucophage SR 1000mg tablets (Merck Serono Ltd)
	52221	Diagemet XL 500mg tablets (Genus Pharmaceuticals Ltd)
	26258	Glucamet 850mg Tablet (Opus Pharmaceuticals Ltd)
	61559	Sukkarto SR 500mg tablets (Morningside Healthcare Ltd)
	7815	METFORMIN 800 MG TAB
	68589	Metformin 1g/5ml oral solution sugar free
	3252	METFORMIN HCl 500 MG TAB
	20810	METFORMIN
	16213	METFORMIN 250 MG TAB
	63307	Metformin 1g/5ml oral solution
	2928	METFORMIN HCl 850 MG TAB
	26118	Dimelor 500mg Tablet (Eli Lilly and Company Ltd)
	22858	Acetohexamide 500mg tablets
	1847	Chlorpropamide 250mg tablets
	8034	Diabinese 100mg Tablet (Pfizer Ltd)
	27969	Glymese 250mg Tablet (DDSA Pharmaceuticals Ltd)
	1253	Chlorpropamide 100mg tablets
	8168	Diabinese 250mg Tablet (Pfizer Ltd)
	2219	Glibenclamide 2.5mg tablets
	7912	Semi-Daonil 2.5mg tablets (Sanofi)
	16602	Calabren 2.5mg Tablet (Berk Pharmaceuticals Ltd)
	26218	Calabren 5mg Tablet (Berk Pharmaceuticals Ltd)
	41558	Glibenclamide 5mg tablets (Teva UK Ltd)
	21424	Glibenclamide 5mg/5ml oral suspension
	4862	Diabetamide 2.5mg tablets (Ashbourne Pharmaceuticals Ltd)
	34507	Glibenclamide 2.5mg tablets (Wockhardt UK Ltd)
	34676	Glibenclamide 2.5mg tablets (A A H Pharmaceuticals Ltd)
	41593	Glibenclamide 2.5mg tablets (Teva UK Ltd)
	1254	Glibenclamide 5mg tablets
	57601	Daonil 5mg tablets (Dowelhurst Ltd)
	34706	Glibenclamide 2.5mg tablets (IVAX Pharmaceuticals UK Ltd)
	41559	Glibenclamide 5mg tablets (A A H Pharmaceuticals Ltd)
	7744	Daonil 5mg tablets (Sanofi)
	25636	Libanil 2.5mg Tablet (Approved Prescription Services Ltd)
	8976	Euglucon 2.5mg tablets (Aventis Pharma)
	31474	Libanil 5mg Tablet (Approved Prescription Services Ltd)
	34563	Glibenclamide 5mg tablets (Wockhardt UK Ltd)

Sources	Code	Description
	30460	Malix 5mg Tablet (Lagap)
	13331	Euglucon 5mg tablets (Sanofi)
	28708	Malix 2.5mg Tablet (Lagap)
	21832	Diabetamide 5mg tablets (Ashbourne Pharmaceuticals Ltd)
	12259	Glibornuride 25mg Tablet
	12245	Glutril 25mg Tablet (Roche Products Ltd)
	68415	Gliclazide 30mg modified-release tablets (Phoenix Healthcare Distribution Ltd)
	62034	Laaglyda MR 60mg tablets (Consilient Health Ltd)
	53288	Gliclazide 30mg modified-release tablets (A A H Pharmaceuticals Ltd)
	57830	Gliclazide 30mg modified-release tablets (Alliance Healthcare (Distribution) Ltd)
	21892	Diaglyk 80mg tablets (Ashbourne Pharmaceuticals Ltd)
	32	Gliclazide 80mg tablets
	15374	Gliclazide 40mg/5ml oral suspension
	11695	Diamicron 30mg MR tablets (Servier Laboratories Ltd)
	45215	Gliclazide 80mg Tablet (Neo Laboratories Ltd)
	31212	Gliclazide 80mg tablets (Actavis UK Ltd)
	43065	Gliclazide 40mg tablets
	17343	Gliclazide 80mg tablets (A A H Pharmaceuticals Ltd)
	56437	Gliclazide 60mg modified-release tablets
	69669	Gliclazide 160mg/5ml oral suspension
	43465	Zicron 40mg tablets (Bristol Laboratories Ltd)
	5627	Gliclazide 30mg modified-release tablets
	34399	Gliclazide 80mg tablets (IVAX Pharmaceuticals UK Ltd)
	21564	Gliclazide 80mg tablets (Wockhardt UK Ltd)
	70432	Bilxona 30mg modified-release tablets (Actavis UK Ltd)
	60495	Gliclazide 80mg tablets (Teva UK Ltd)
	70490	Bilxona 60mg modified-release tablets (Actavis UK Ltd)
	44473	Edicil MR 30mg tablets (Teva UK Ltd)
	40425	Nazdol MR 30mg tablets (Teva UK Ltd)
	36856	Gliclazide 80mg tablets (Sandoz Ltd)
	34932	Gliclazide 80mg tablets (Genus Pharmaceuticals Ltd)
	63048	Gliclazide 80mg tablets (Alliance Healthcare (Distribution) Ltd)
	29939	Gliclazide 80mg tablets (Mylan Ltd)
	1964	Diamicron 80mg tablets (Servier Laboratories Ltd)
	48056	Gliclazide 80mg tablets (Sovereign Medical Ltd)
	33562	Duclazide 80mg Tablet (Dumex Ltd)
	51955	Gliclazide 80mg tablets (Accord Healthcare Ltd)
	42790	Gliclazide 80mg Tablet (Merck Generics (UK) Ltd)
	67781	Gliclazide 80mg tablets (Milpharm Ltd)
	54764	Gliclazide 80mg tablets (Arrow Generics Ltd)
	56008	Gliclazide 80mg tablets (Almus Pharmaceuticals Ltd)
	68819	Gliclazide 80mg tablets (Bristol Laboratories Ltd)
	55862	Gliclazide Oral solution

Sources	Code	Description
	63131	Ziclaseg 30mg modified-release tablets (Lupin (Europe) Ltd)
	47074	Gliclazide 80mg/5ml oral suspension
	61957	Gliclazide 40mg tablets (A A H Pharmaceuticals Ltd)
	47894	Nazdol MR 30mg tablets (Consilient Health Ltd)
	45831	Dacadis MR 30mg tablets (Mylan Ltd)
	5276	Glimepiride 1mg tablets
	11284	Amaryl 4mg tablets (Zentiva)
	61311	Glimepiride 4mg tablets (Sigma Pharmaceuticals Plc)
	7409	Amaryl 3mg tablets (Zentiva)
	6337	Glimepiride 3mg tablets
	7284	Amaryl 2mg tablets (Zentiva)
	66399	Glimepiride 2mg tablets (A A H Pharmaceuticals Ltd)
	68289	Glimepiride 4mg tablets (Waymade Healthcare Plc)
	5353	Glimepiride 2mg tablets
	68675	Glimepiride 4mg tablets (Somex Pharma)
	7332	Amaryl 1mg tablets (Zentiva)
	44738	Niddaryl 1mg tablets (Dee Pharmaceuticals Ltd)
	5316	Glimepiride 4mg tablets
	67056	Amaryl 1mg tablets (Lexon (UK) Ltd)
	62014	Glimepiride 2mg tablets (Accord Healthcare Ltd)
	40365	Glimepiride 1mg tablets (Actavis UK Ltd)
	17698	Minodiab 5mg tablets (Pfizer Ltd)
	5636	Glipizide 5mg tablets
	34802	Glipizide 5mg tablets (IVAX Pharmaceuticals UK Ltd)
	29326	Glipizide 5mg tablets (Mylan Ltd)
	12513	Glibenese 5mg tablets (Pfizer Ltd)
	17706	Minodiab 2.5mg tablets (Pfizer Ltd)
	547	Glipizide 2.5mg tablets
	8390	Gliquidone 30mg tablets
	19658	Glurenorm 30mg tablets (Sanofi)
	24848	Glymidine sodium 500mg Tablet
	21489	Tolanase 250mg Tablet (Pharmacia Ltd)
	19336	Tolazamide 100mg Tablet
	10427	Tolazamide 250mg Tablet
	22145	Tolanase 100mg Tablet (Pharmacia Ltd)
	34957	Tolbutamide 500mg tablets (A A H Pharmaceuticals Ltd)
	1965	Tolbutamide 500mg tablets
	12455	Rastinon 500mg Tablet (Hoechst Marion Roussel)
	33673	Tolbutamide 500mg tablets (Actavis UK Ltd)
	11946	Tolbutamide 50mg/ml Injection
	46927	Tolbutamide 500mg tablets (Teva UK Ltd)
	44304	Glyconon 500mg Tablet (DDSA Pharmaceuticals Ltd)
	58882	Gliclazide 120mg/5ml oral suspension

Sources	Code	Description
	22636	TOLBUTAMIDE 1 GM TAB
	16211	TOLBUTAMIDE 100 MG TAB
	9108	TOLBUTAMIDE 250 MG TAB
	4426	CHLORPROPAMIDE 500 MG TAB
	41898	GLIBENCLAMIDE
	548	Pioglitazone 15mg tablets
	9699	Pioglitazone 30mg tablets
	10051	Pioglitazone 45mg tablets
	19472	Actos 45mg tablets (Takeda UK Ltd)
	20287	Actos 15mg tablets (Takeda UK Ltd)
	20889	Actos 30mg tablets (Takeda UK Ltd)
	48139	Pioglitazone 30mg tablets (A A H Pharmaceuticals Ltd)
	56208	Pioglitazone 15mg tablets (A A H Pharmaceuticals Ltd)
	57659	Pioglitazone 30mg tablets (Actavis UK Ltd)
	62426	Pioglitazone 30mg tablets (Accord Healthcare Ltd)
	63046	Pioglitazone 45mg tablets (A A H Pharmaceuticals Ltd)
	63107	Pioglitazone 45mg tablets (Waymade Healthcare Plc)
	63421	Pioglitazone 30mg tablets (Teva UK Ltd)
	64900	Glidipion 30mg tablets (Actavis UK Ltd)
	65562	Pioglitazone 30mg tablets (Alliance Healthcare (Distribution) Ltd)
	65563	Pioglitazone 15mg tablets (Alliance Healthcare (Distribution) Ltd)
	68934	Diabiom 30mg tablets (Tillomed Laboratories Ltd)
	69885	Pioglitazone 30mg tablets (Consilient Health Ltd)
	469	Rosiglitazone 4mg tablets
	5227	Rosiglitazone 8mg tablets
	9662	Avandia 4mg tablets (GlaxoSmithKline UK Ltd)
	15232	Avandia 8mg tablets (GlaxoSmithKline UK Ltd)
	37617	Rosiglitazone 2mg tablet
	48120	Avandia 2mg Tablet (GlaxoSmithKline UK Ltd)
	68258	Alogliptin 25mg tablets (Colorama Pharmaceuticals Ltd)
	60328	Alogliptin 12.5mg tablets
	59177	Alogliptin 25mg tablets
	69459	Alogliptin 25mg tablets (Ennogen Healthcare Ltd)
	59809	Alogliptin 6.25mg tablets
	62326	Vipidia 6.25mg tablets (Takeda UK Ltd)
	46716	Trajenta 5mg tablets (Boehringer Ingelheim Ltd)
	46665	Linagliptin 5mg tablets
	48533	Sitagliptin 25mg tablets
	48401	Sitagliptin 50mg tablets
	35022	Sitagliptin 100mg tablets
	50087	Januvia 50mg tablets (Merck Sharp & Dohme Ltd)
	35462	Januvia 100mg tablets (Merck Sharp & Dohme Ltd)
	50124	Januvia 25mg tablets (Merck Sharp & Dohme Ltd)

Sources	Code	Description
	41431	Onglyza 5mg tablets (AstraZeneca UK Ltd)
	45821	Onglyza 2.5mg tablets (AstraZeneca UK Ltd)
	41204	Saxagliptin 5mg tablets
	45775	Saxagliptin 2.5mg tablets
	37875	Vildagliptin 50mg tablets
	39149	Galvus 50mg tablets (Novartis Pharmaceuticals UK Ltd)
	69947	Albiglutide 30mg powder and solvent for solution for injection pre-filled disposable devices
	63823	Dulaglutide 1.5mg/0.5ml solution for injection pre-filled disposable devices
	63785	Dulaglutide 0.75mg/0.5ml solution for injection pre-filled disposable devices
	63336	Trulicity 1.5mg/0.5ml solution for injection pre-filled pen (Eli Lilly and Company Ltd)
	63401	Trulicity 0.75mg/0.5ml solution for injection pre-filled pen (Eli Lilly and Company Ltd)
	69548	Saxenda 6mg/ml solution for injection 3ml pre-filled pen (Novo Nordisk Ltd)
	40693	Liraglutide 6mg/ml solution for injection 3ml pre-filled disposable devices
	40642	Victoza 6mg/ml solution for injection 3ml pre-filled pen (Novo Nordisk Ltd)
	55459	Lixisenatide 10micrograms/0.2ml solution for injection 3ml pre-filled disposable devices
	55413	Lixisenatide 20micrograms/0.2ml solution for injection 3ml pre-filled disposable devices
	55723	Lixisenatide 10micrograms/0.2ml solution for injection 3ml pre-filled disposable devices and Lixisenatide 20micrograms/0.2ml solution for injection 3ml pre-filled disposable devices
	46469	Bydureon 2mg powder and solvent for prolonged-release suspension for injection vials (AstraZeneca UK Ltd)
	62661	Bydureon 2mg powder and solvent for prolonged-release suspension for injection pre-filled pen (AstraZeneca UK Ltd)
	35144	Byetta 5micrograms/0.02ml solution for injection 1.2ml pre-filled disposable devices (AstraZeneca UK Ltd)
	35149	Exenatide 10micrograms/0.04ml solution for injection 2.4ml pre-filled disposable devices
	35150	Byetta 10micrograms/0.04ml solution for injection 2.4ml pre-filled disposable devices (AstraZeneca UK Ltd)
	35251	Exenatide 5micrograms/0.02ml solution for injection 1.2ml pre-filled disposable devices
	46458	Exenatide 2mg powder and solvent for prolonged-release suspension for injection vials
	62904	Exenatide 2mg powder and solvent for prolonged-release suspension for injection pre-filled disposable devices
	60073	Canagliflozin 100mg tablets
	60386	Canagliflozin 300mg tablets
	60211	Canagliflozin 100mg tablets
	60430	Invokana 100mg tablets (Janssen-Cilag Ltd)
	54480	Forxiga 5mg tablets (AstraZeneca UK Ltd)
	54203	Forxiga 10mg tablets (AstraZeneca UK Ltd)
	54265	Dapagliflozin 5mg tablets
	54182	Dapagliflozin 10mg tablets
	63516	Forxiga 10mg tablets (Waymade Healthcare Plc)
	61756	Empagliflozin 10mg tablets
	62172	Empagliflozin 25mg tablets
	64217	Jardiance 25mg tablets (Boehringer Ingelheim Ltd)

Sources	Code	Description
	479	Acarbose 50mg tablets
	5174	Acarbose 100mg tablets
	9105	Glucobay 100mg tablets (Bayer Plc)
	5621	Glucobay 50mg tablets (Bayer Plc)
	11483	Nateglinide 60mg tablets
	5678	Nateglinide 120mg tablets
	5989	Nateglinide 180mg tablets
	15955	Starlix 120mg tablets (Novartis Pharmaceuticals UK Ltd)
	27125	Starlix 180mg tablets (Novartis Pharmaceuticals UK Ltd)
	23945	Starlix 60mg tablets (Novartis Pharmaceuticals UK Ltd)
	9865	Repaglinide 500microgram tablets
	9707	Repaglinide 1mg tablets
	61925	NovoNorm 500microgram tablets (Waymade Healthcare Plc)
	11321	NovoNorm 1mg tablets (Novo Nordisk Ltd)
	36774	Prandin 1mg tablets (Novo Nordisk Ltd)
	11366	NovoNorm 2mg tablets (Novo Nordisk Ltd)
	11316	NovoNorm 500microgram tablets (Novo Nordisk Ltd)
	9748	Repaglinide 2mg tablets
	52203	Enyglid 0.5mg tablets (Consilient Health Ltd)
	35561	Prandin 2mg tablets (Novo Nordisk Ltd)
	36948	Prandin 0.5mg tablets (Novo Nordisk Ltd)
	65344	Empagliflozin 5mg / Metformin 850mg tablets
	69370	Synjardy 5mg/850mg tablets (Boehringer Ingelheim Ltd)
	65083	Synjardy 5mg/1000mg tablets (Boehringer Ingelheim Ltd)
	60012	Dapagliflozin 5mg / Metformin 1g tablets
	60643	Xigduo 5mg/1000mg tablets (AstraZeneca UK Ltd)
	66008	Synjardy 12.5mg/1000mg tablets (Boehringer Ingelheim Ltd)
	54150	Jentadueto 2.5mg/850mg tablets (Boehringer Ingelheim Ltd)
	11609	Metformin with rosiglitazone 500mg + 1mg Tablet
	11737	Metformin with rosiglitazone 1000mg + 4mg Tablet
	11601	Rosiglitazone 2mg / Metformin 500mg tablets
	11760	Metformin with rosiglitazone 1000mg + 2mg Tablet
	11610	Metformin with rosiglitazone 500mg + 2mg Tablet
	6855	Avandamet 2mg/500mg tablets (GlaxoSmithKline UK Ltd)
	54891	Saxagliptin 2.5mg / Metformin 1g tablets
	56965	Komboglyze 2.5mg/1000mg tablets (AstraZeneca UK Ltd)
	37874	Vildagliptin 50mg / Metformin 850mg tablets
	39203	Eucreas 50mg/850mg tablets (Novartis Pharmaceuticals UK Ltd)
	30316	Metformin with pioglitazone 850mg + 15mg Tablet
	18220	Pioglitazone 15mg / Metformin 850mg tablets
	31077	Competact 15mg/850mg tablets (Takeda UK Ltd)
	11604	Rosiglitazone 1mg / Metformin 500mg tablets
	7375	Rosiglitazone 4mg / Metformin 1g tablets

Sources	Code	Description
	11717	Rosiglitazone 2mg / Metformin 1g tablets
	7325	Avandamet 4mg/1000mg tablets (GlaxoSmithKline UK Ltd)
	14164	Avandamet 2mg/1000mg tablets (GlaxoSmithKline UK Ltd)
	17580	Avandamet 1mg/500mg tablets (GlaxoSmithKline UK Ltd)
	43619	Metformin 1g / Sitagliptin 50mg tablets
	43684	Janumet 50mg/1000mg tablets (Merck Sharp & Dohme Ltd)
	37902	Vildagliptin 50mg / Metformin 1g tablets
	38551	Eucreas 50mg/1000mg tablets (Novartis Pharmaceuticals UK Ltd)
	63031	Dapagliflozin 5mg / Metformin 850mg tablets
	52449	Linagliptin 2.5mg / Metformin 850mg tablets
	65066	Empagliflozin 12.5mg / Metformin 1g tablets
	54973	Saxagliptin 2.5mg / Metformin 850mg tablets
	60497	Alogliptin 12.5mg / Metformin 1g tablets
	65057	Empagliflozin 5mg / Metformin 1g tablets
	63929	Canagliflozin 50mg / Metformin 1g tablets
	66855	Empagliflozin 12.5mg / Metformin 850mg tablets
	52445	Linagliptin 2.5mg / Metformin 1g tablets
	64743	Canagliflozin 50mg / Metformin 850mg tablets
	70463	Synjardy 12.5mg/850mg tablets (Boehringer Ingelheim Ltd)
	50682	Jentadueto 2.5mg/1000mg tablets (Boehringer Ingelheim Ltd)
	65059	Xigduo 5mg/850mg tablets (AstraZeneca UK Ltd)
	11604	Rosiglitazone 1mg / Metformin 500mg tablets
	11609	Metformin with rosiglitazone 500mg + 1mg Tablet
	11737	Metformin with rosiglitazone 1000mg + 4mg Tablet
	11601	Rosiglitazone 2mg / Metformin 500mg tablets
	7325	Avandamet 4mg/1000mg tablets (GlaxoSmithKline UK Ltd)
	11760	Metformin with rosiglitazone 1000mg + 2mg Tablet
	56376	Rosiglitazone 4mg with glimepiride 4mg tablet
	14164	Avandamet 2mg/1000mg tablets (GlaxoSmithKline UK Ltd)
	6855	Avandamet 2mg/500mg tablets (GlaxoSmithKline UK Ltd)
	17580	Avandamet 1mg/500mg tablets (GlaxoSmithKline UK Ltd)
	7375	Rosiglitazone 4mg / Metformin 1g tablets
	11610	Metformin with rosiglitazone 500mg + 2mg Tablet
	11717	Rosiglitazone 2mg / Metformin 1g tablets
	30316	Metformin with pioglitazone 850mg + 15mg Tablet
	18220	Pioglitazone 15mg / Metformin 850mg tablets
	31077	Competact 15mg/850mg tablets (Takeda UK Ltd)
	54150	Jentadueto 2.5mg/850mg tablets (Boehringer Ingelheim Ltd)
	52449	Linagliptin 2.5mg / Metformin 850mg tablets
	52445	Linagliptin 2.5mg / Metformin 1g tablets
	43619	Metformin 1g / Sitagliptin 50mg tablets
	43684	Janumet 50mg/1000mg tablets (Merck Sharp & Dohme Ltd)
	54891	Saxagliptin 2.5mg / Metformin 1g tablets

Sources	Code	Description
	56965	Komboglyze 2.5mg/1000mg tablets (AstraZeneca UK Ltd)
	69540	Saxagliptin 5mg / Dapagliflozin 10mg tablets
	54973	Saxagliptin 2.5mg / Metformin 850mg tablets
	37874	Vildagliptin 50mg / Metformin 850mg tablets
	37902	Vildagliptin 50mg / Metformin 1g tablets
	38551	Eucreas 50mg/1000mg tablets (Novartis Pharmaceuticals UK Ltd)
	39203	Eucreas 50mg/850mg tablets (Novartis Pharmaceuticals UK Ltd)
	60497	Alogliptin 12.5mg / Metformin 1g tablets
	63562	Insulin degludec 100units/ml / Liraglutide 3.6mg/ml solution for injection 3ml pre-filled disposable devices
	60012	Dapagliflozin 5mg / Metformin 1g tablets
	60643	Xigduo 5mg/1000mg tablets (AstraZeneca UK Ltd)
	69540	Saxagliptin 5mg / Dapagliflozin 10mg tablets
	63031	Dapagliflozin 5mg / Metformin 850mg tablets
	65066	Empagliflozin 12.5mg / Metformin 1g tablets
	65344	Empagliflozin 5mg / Metformin 850mg tablets
	65057	Empagliflozin 5mg / Metformin 1g tablets
	66855	Empagliflozin 12.5mg / Metformin 850mg tablets
	69370	Synjardy 5mg/850mg tablets (Boehringer Ingelheim Ltd)
	65083	Synjardy 5mg/1000mg tablets (Boehringer Ingelheim Ltd)
	66008	Synjardy 12.5mg/1000mg tablets (Boehringer Ingelheim Ltd)
	63929	Canagliflozin 50mg / Metformin 1g tablets
	64743	Canagliflozin 50mg / Metformin 850mg tablets

Supplementary Table 2. CPRD codelist for hypoglycaemia events and microvascular diabetic complications

Complication types	Medcode	Description
Hypoglycaemia	52409	[X]Other hypoglycaemia
	32885	Drug-induced hypoglycaemia without coma
	40363	Frequency of GP or paramedic treated hypoglycaemia
	31752	Frequency of hospital treated hypoglycaemia
	13281	Frequency of hypo. attacks
	1410	Hypoglycaemia unspecified
	20368	Hypoglycaemia unspecified NOS
	18583	Hypoglycaemic attack requiring 3rd party assistance
	2472	Hypoglycaemic coma
	51371	Hypoglycaemic coma NOS
	13068	Last hypo. attack
	43785	Non-insulin dependent diabetes mellitus with hypoglyca coma
	95920	Other hypoglycaemia
	68960	Polyneuropathy in hypoglycaemia
	96942	Post-prandial hypoglycaemia
	4563	Reactive hypoglycaemia NOS
	37625	Recurrent severe hypos
	24405	Spontaneous hypoglycaemia NOS
	61071	Type 2 diabetes mellitus with hypoglycaemic coma
	46917	Type 2 diabetes mellitus with hypoglycaemic coma
	56268	Type II diabetes mellitus with hypoglycaemic coma
	98723	Type II diabetes mellitus with hypoglycaemic coma
Nephropathy	35107	Diabetes mellitus with nephropathy NOS
	16502	Diabetes mellitus with renal manifestation
	35105	Diabetes mellitus, adult onset, with renal manifestation
	2475	Diabetic nephropathy
	45499	Kimmelstiel - Wilson disease
	2471	Nephrotic syndrome in diabetes mellitus
	59365	Non-insulin dependent diabetes mellitus with nephropathy
	52303	Non-insulin-dependent diabetes mellitus with renal comps
	13279	Other specified diabetes mellitus with renal complications
	11848	Renal diabetes
	24836	Type 2 diabetes mellitus with nephropathy
	12640	Type 2 diabetes mellitus with nephropathy
	18390	Type 2 diabetes mellitus with persistent microalbuminuria
	26054	Type 2 diabetes mellitus with persistent proteinuria
	18209	Type 2 diabetes mellitus with renal complications
	18777	Type 2 diabetes mellitus with renal complications
	64571	Type II diabetes mellitus with nephropathy
	85991	Type II diabetes mellitus with persistent microalbuminuria

Complication types	Medcode	Description
	60796	Type II diabetes mellitus with persistent proteinuria
	50225	Type II diabetes mellitus with renal complications
	57278	Type II diabetes mellitus with renal complications
	99628	[X]Glomerular disorders in diabetes mellitus
	100292	[X]Unspecified diabetes mellitus with renal complications
	107881	Clinical diabetic nephropathy
	105302	Proteinuric diabetic nephropathy
	102201	Type II diabetes mellitus with nephropathy
Neuropathy	48078	Acute painful diabetic neuropathy
	24571	Asymptomatic diabetic neuropathy
	17067	Autonomic neuropathy due to diabetes
	35785	Chronic painful diabetic neuropathy
	22573	Diabetes mellitus NOS with neurological manifestation
	16230	Diabetes mellitus with neurological manifestation
	7795	Diabetes mellitus with neuropathy
	16491	Diabetes mellitus with polyneuropathy
	39317	Diabetes mellitus, adult onset, + neurological manifestation
	59903	Diabetic amyotrophy
	2340	Diabetic amyotrophy
	27891	Diabetic Charcot arthropathy
	44033	Diabetic mononeuritis multiplex
	17247	Diabetic mononeuritis NOS
	37315	Diabetic mononeuropathy
	2342	Diabetic neuropathy
	5002	Diabetic polyneuropathy
	39420	Myasthenic syndrome due to diabetic amyotrophy
	11663	Neuropathic diabetic ulcer - foot
	40962	Non-insulin dependent d m with neuropathic arthropathy
	72320	Non-insulin dependent diabetes mellitus with mononeuropathy
	45467	Non-insulin dependent diabetes mellitus with polyneuropathy
	55842	Non-insulin-dependent diabetes mellitus with neuro comps
	61523	Other specified diabetes mellitus with neurological comps
	31790	Polyneuropathy in diabetes
	63690	Type 2 diabetes mellitus with gastroparesis
	62674	Type 2 diabetes mellitus with mononeuropathy
	45919	Type 2 diabetes mellitus with neurological complications
	34268	Type 2 diabetes mellitus with neurological complications
	66965	Type 2 diabetes mellitus with neuropathic arthropathy
	35385	Type 2 diabetes mellitus with neuropathic arthropathy
	18425	Type 2 diabetes mellitus with polyneuropathy
	50813	Type II diabetes mellitus with mononeuropathy
	95351	Type II diabetes mellitus with mononeuropathy
	67905	Type II diabetes mellitus with neurological complications

Complication types	Medcode	Description
	98616	Type II diabetes mellitus with neurological complications
	47816	Type II diabetes mellitus with neuropathic arthropathy
	47409	Type II diabetes mellitus with polyneuropathy
	50527	Type II diabetes mellitus with polyneuropathy
	53634	[D]Gangrene of toe in diabetic
	31053	[D]Widespread diabetic foot gangrene
	7328	Cellulitis in diabetic foot
	32403	Diabetes mellitus with gangrene
	33807	Diabetes mellitus, adult with gangrene
	32556	Diabetes with gangrene
	102490	Diabetic assessment of erectile dysfunction
	18142	Diabetic cheiroarthropathy
	57333	Diabetic cheiropathy
	102434	Diabetic erectile dysfunction review
	109760	Diabetic peripheral neuropathic pain
	106360	Erectile dysfunction due to diabetes mellitus
	27921	Foot abnormality - diabetes related
	18056	Foot abnormality - diabetes related
	7045	H/O: Admission in last year for diabetes foot problem
	24327	Ischaemic ulcer diabetic foot
	9881	Mixed diabetic ulcer - foot
	24693	Non-insulin dependent diabetes mellitus with arthropathy
	40401	Non-insulin dependent diabetes mellitus with gangrene
	49640	O/E - left chronic diabetic foot ulcer
	35116	O/E - Left diabetic foot - ulcerated
	62384	O/E - right chronic diabetic foot ulcer
	35316	O/E - Right diabetic foot - ulcerated
	59253	Type 2 diabetes mellitus with arthropathy
	49869	Type 2 diabetes mellitus with arthropathy
	46150	Type 2 diabetes mellitus with gangrene
	12736	Type 2 diabetes mellitus with gangrene
	109865	Type 2 diabetes mellitus with polyneuropathy
	103902	Type II diabetes mellitus with arthropathy
	18143	Type II diabetes mellitus with arthropathy
	62107	Type II diabetes mellitus with gangrene
	104323	Type II diabetes mellitus with gangrene
	109197	Type II diabetes mellitus with neuropathic arthropathy
Retinopathy	47584	Advanced diabetic retinal disease
	7069	Background diabetic retinopathy
	1323	Diabetic retinopathy
	11626	Diabetic retinopathy NOS
	65463	High risk non proliferative diabetic retinopathy
	30477	High risk proliferative diabetic retinopathy

Complication types	Medcode	Description
	10755	Non proliferative diabetic retinopathy
	17262	Non-insulin-dependent diabetes mellitus with retinopathy
	11129	O/E - left eye background diabetic retinopathy
	13103	O/E - left eye preproliferative diabetic retinopathy
	13101	O/E - left eye proliferative diabetic retinopathy
	52041	O/E - left eye stable treated prolif diabetic retinopathy
	11433	O/E - right eye background diabetic retinopathy
	13099	O/E - right eye preproliferative diabetic retinopathy
	13097	O/E - right eye proliferative diabetic retinopathy
	47328	O/E - right eye stable treated prolif diabetic retinopathy
	52630	O/E - sight threatening diabetic retinopathy
	11599	Pan retinal photocoagulation for diabetes
	2986	Preproliferative diabetic retinopathy
	3286	Proliferative diabetic retinopathy
	22967	Retinal abnormality - diabetes related
	42762	Type 2 diabetes mellitus with retinopathy
	18496	Type 2 diabetes mellitus with retinopathy
	58604	Type II diabetes mellitus with retinopathy
	49655	Type II diabetes mellitus with retinopathy
	11018	Diabetic retinopathy 12 month review
	18662	Diabetic retinopathy 6 month review
	101881	Impaired vision due to diabetic retinopathy

Note: Van Staa and colleagues reported that 90.7% of hospital/ED discharge summaries for hypoglycaemic episodes were adequately recorded in the VAMP Research Data Bank, a former version of CPRD database (Van Staa et al., 1994).

Supplementary Table 3. CPRD codelist for HbA1c records in the Test File

Code type	Code	Description
Enttype	275	HbA1c - diabetic control
Medcode	14053	HbA1c level (DCCT aligned)
	14049	Hb. A1C - diabetic control NOS
	9958	Hb. A1C - diabetic control
	29218	Hb. A1C 7-10% - borderline
	13597	Hb. A1C < 7% - good control
	13604	Hb. A1C > 10% - bad control
	14051	Haemoglobin A1c level
	96968	Haemoglobin A1c level - IFCC standardised

Supplementary Table 4. CPRD codelist for dementia diagnosis and drug prescription

Sources	Code	Description
Dementia diagnosis (Medcode)	4693	[X] Unspecified dementia
	6578	Vascular dementia
	7323	Uncomplicated senile dementia
	7572	Lewy body dementia
	8934	[X]Subcortical vascular dementia
	11175	Multi-infarct dementia
	18386	Senile dementia with paranoia
	19393	[X]Vascular dementia, unspecified
	19477	Arteriosclerotic dementia
	21887	Senile dementia with depression
	26270	[X]Lewy body dementia
	29512	Senile degeneration of brain
	31016	[X]Mixed cortical and subcortical vascular dementia
	37015	Senile dementia with delirium
	41089	Senile dementia with depressive or paranoid features NOS
	42279	Arteriosclerotic dementia NOS
	43089	Uncomplicated arteriosclerotic dementia
	43292	Arteriosclerotic dementia with depression
	44674	Senile dementia with depressive or paranoid features
	46488	[X]Vascular dementia of acute onset
	53446	[X]Delirium superimposed on dementia
	55313	Other vascular dementia
	55467	Arteriosclerotic dementia with paranoia
	56912	Arteriosclerotic dementia with delirium
	64267	[X]Dementia in other specified diseases class if elsewhere
	5931	H/O: dementia
	1916	Senile dementia
	1350	Senile/presenile dementia
	1917	Alzheimer's disease
	7664	[X]Dementia in Alzheimer's disease
	16797	Alzheimer's disease with early onset
	29386	[X]Dementia in Alzheimer's disease, unspecified
	30706	[X]Dementia in Alzheimer's dis, atypical or mixed type
	32057	Alzheimer's disease with late onset
	38678	[X]Dementia in Alzheimer's disease with late onset
	49263	[X]Dementia in Alzheimer's disease with early onset
	59122	[X]Other Alzheimer's disease
	60059	[X]Primary degen dementia, Alzheimer's type, presenile onset
	61528	[X]Alzheimer's disease type 2
	46762	[X]Alzheimer's disease type 1
Dementia-specific drugs (Product code)		
Rivastigmine	11751	Rivastigmine 3mg capsules

Sources	Code	Description
	57627	Rivatev 4.6mg/24hours transdermal patches (Teva UK Ltd)
	57171	EraSTIG 9.5mg/24hours transdermal patches (Teva UK Ltd)
	55928	Exelon 4.5mg capsules (Waymade Healthcare Plc)
	36976	Rivastigmine 4.6mg/24hours transdermal patches
	56771	Rivastigmine 3mg capsules (Dr Reddy's Laboratories (UK) Ltd)
	11546	Exelon 1.5mg capsules (Novartis Pharmaceuticals UK Ltd)
	5616	Exelon 6mg capsules (Novartis Pharmaceuticals UK Ltd)
	60723	Rivastigmine 6mg capsules (Waymade Healthcare Plc)
	58780	Voleze 9.5mg/24hours transdermal patches (Focus Pharmaceuticals Ltd)
	11752	Rivastigmine 4.5mg capsules
	53882	Rivastigmine 2mg/ml oral solution
	37957	Exelon 9.5mg/24hours transdermal patches (Novartis Pharmaceuticals UK Ltd)
	11827	Rivastigmine 2mg/ml oral solution sugar free
	37444	Exelon 4.6mg/24hours transdermal patches (Novartis Pharmaceuticals UK Ltd)
	11716	Exelon 3mg capsules (Novartis Pharmaceuticals UK Ltd)
	4597	Rivastigmine 1.5mg capsules
	9786	Rivastigmine 6mg capsules
	20404	Exelon 4.5mg capsules (Novartis Pharmaceuticals UK Ltd)
	37132	Rivastigmine 9.5mg/24hours transdermal patches
	18556	Exelon 2mg/ml oral solution (Novartis Pharmaceuticals UK Ltd)
	58937	Exelon 13.3mg/24hours transdermal patches (Novartis Pharmaceuticals UK Ltd)
Galantamine	7329	Galantamine 20mg/5ml oral solution sugar free
	5334	Reminyl 12mg tablets (Shire Pharmaceuticals Ltd)
	10255	Galantamine 8mg modified-release capsules
	61476	Acumor XL 24mg capsules (Generics (UK) Ltd)
	24088	Reminyl XL 24mg capsules (Shire Pharmaceuticals Ltd)
	11635	Galantamine 12mg tablets
	9854	Reminyl 4mg tablets (Shire Pharmaceuticals Ltd)
	18587	Reminyl XL 8mg capsules (Shire Pharmaceuticals Ltd)
	11654	Galantamine 8mg tablets
	48482	Galsya XL 8mg capsules (Consilient Health Ltd)
	55720	Gatalin XL 24mg capsules (Aspire Pharma Ltd)
	10187	Galantamine 4mg tablets
	20140	Reminyl XL 16mg capsules (Shire Pharmaceuticals Ltd)
	60493	Galantex XL 24mg capsules (Creo Pharma Ltd)
	56709	Gatalin XL 16mg capsules (Aspire Pharma Ltd)
	7361	Galantamine 24mg modified-release capsules
	29288	Reminyl 4mg/ml oral solution (Shire Pharmaceuticals Ltd)
	14309	Galantamine 16mg modified-release capsules
	48015	Galsya XL 24mg capsules (Consilient Health Ltd)
	18062	Reminyl 8mg tablets (Shire Pharmaceuticals Ltd)
Donepezil	56600	Donepezil 5mg tablets (Zentiva)
	37188	Aricept Evess 10mg orodispersible tablets (Eisai Ltd)

Sources	Code	Description
Donepezil	2931	Donepezil 10mg tablets
	35088	Donepezil 10mg orodispersible tablets sugar free
	60107	Donepezil 5mg tablets (Alliance Healthcare (Distribution) Ltd)
	53842	Aricept 5mg tablets (Waymade Healthcare Plc)
	36848	Aricept Evess 5mg orodispersible tablets (Eisai Ltd)
	59871	Donepezil 10mg/5ml oral suspension
	2930	Donepezil 5mg tablets
	35179	Donepezil 5mg orodispersible tablets sugar free
	5247	Aricept 10mg tablets (Eisai Ltd)
	5400	Aricept 5mg tablets (Eisai Ltd)
	58947	Donepezil 10mg tablets (Accord Healthcare Ltd)
	58709	Donepezil 10mg tablets (A A H Pharmaceuticals Ltd)
Memantine	9966	Ebixa 5mg/pump oral solution (Lundbeck Ltd)
	38976	Memantine 5mg+10mg+15mg+20mg Tablet
	61385	Nemdatine 10mg tablets (Actavis UK Ltd)
	6225	Memantine 10mg tablets
	39240	Memantine 20mg tablets
	57139	Ebixa 10mg tablets (DE Pharmaceuticals)
	61618	Nemdatine 20mg tablets (Actavis UK Ltd)
	39363	Ebixa 20mg tablets (Lundbeck Ltd)
	18800	Ebixa 10mg tablets (Lundbeck Ltd)
	39362	Ebixa tablets treatment initiation pack (Lundbeck Ltd)
	11837	Memantine 10mg/ml oral solution sugar free

Note: Two CPRD-based studies on dementia by the same group of authors validated a small subset of extracted dementia cases (n=100 and 150) by writing to their GP for their detailed medical history; they found that the rates of confirmation by GPs (i.e., positive predictive value of CPRD-based diagnosis) were 83% (Dunn et al., 2005a) and 100% (Dunn et al., 2005b). Another large-scale validation study found that 88% of dementia cases identified in CPRD had corroborating evidence for their dementia diagnosis in relevant clinical records (Pujades-Rodriguez et al., 2018).

Supplementary Table 5. Baseline characteristics of participants in diabetes cohort with and without post-diabetes diagnosis HbA1c record

Characteristics	Patients with post-diagnosis HbA1c record	Patients without post-diagnosis HbA1c record
Number of participants	372,287	85,615
Sex (male), %	53.3	47.0
Baseline age (mean), year	64.2	65.7
Ethnicity (White), %	87.5	87.8
Year of cohort entry (median)	2006	2009
IMD (most deprived), %	19.0	18.1
Obesity (BMI \geq 30 kg/m 2), %	44.3	31.8
Current smoker, %	18.7	20.3
CHD, %	36.7	28.3
Stroke, %	6.8	6.9
Hypertension, %	87.4	74.5
CKD, %	5.8	6.7
COPD, %	3.7	4.2
Cancer, %	8.9	10.2
Duration of diabetes (mean), year	0.5	0.8
Ever use of anti-diabetes drugs, %	18.2	12.7
Pre-diagnosis HbA1c level (mean), %	7.4	6.7
Presence of hypoglycaemic events, %	0.4	0.4
Presence of microvascular complications, %	1.9	1.2

Note: IMD = index of multiple deprivation; BMI = body mass index; CHD = chronic heart disease; CKD = chronic kidney disease; COPD = chronic obstructive pulmonary disease. In the diabetes cohort, ethnicity, IMD, BMI, smoking status and baseline HbA1c had 69.9%, 6.7%, 11.4%, 18.5% and 34.8% missing values, respectively. The statistics for these variables presented in this table are based on complete cases.

Supplementary Table 6. Subgroup analyses of associations between diabetic complications, HbA1c measures and risk of dementia incidence by sex

Subgroup analyses	Diabetic complications		HbA1c measures		
	Hypoglycaemic event	Microvascular complications	Time-varying HbA1c (per 1%)	Three-year mean HbA1c (per 1%)	Three-year CV of HbA1c (per 1 SD)
Male	1.39 (1.26-1.53)	1.08 (1.03-1.14)	1.08 (1.07-1.10)	1.06 (1.03-1.08)	1.02 (1.00-1.05)
Female	1.23 (1.13-1.35)	1.10 (1.05-1.15)	1.09 (1.07-1.10)	1.03 (1.00-1.05)	1.03 (1.00-1.05)

Note: The statistic presented in this table is hazard ratio (95% confidence interval) based on fully adjusted model. CV = coefficient of variation.

Supplementary Table 7. Sensitivity analyses of associations between diabetic complications, HbA1c measures and risk of dementia incidence

Sensitivity analyses	Diabetic complications		HbA1c measures		
	Hypoglycaemic event	Microvascular complications	Time-varying HbA1c (per 1%)	Three-year mean HbA1c (per 1%)	Three-year CV of HbA1c (per 1 SD)
Restricted to those who were at least 60 years old at cohort entry	1.31 (1.22-1.40)	1.12 (1.08-1.17)	1.08 (1.07-1.09)	1.03 (1.02-1.05)	1.02 (1.00-1.04)
Restricted to those who were at least 80 years old at the end of follow-up	1.26 (1.16-1.36)	1.09 (1.04-1.14)	1.07 (1.06-1.09)	1.04 (1.02-1.05)	1.02 (1.00-1.04)
Restricted to those who entered the cohort after year 2004	1.26 (1.15-1.37)	1.09 (1.04-1.14)	1.09 (1.08-1.11)	1.04 (1.02-1.09)	1.05 (1.01-1.09)
Not excluding HbA1c records within two years prior to dementia incidence or death	-	-	1.07 (1.06-1.08)	-	-
Excluding dementia cases within the first five years of follow-up	1.26 (1.16-1.36)	1.10 (1.05-1.14)	1.09 (1.07-1.11)	1.04 (1.02-1.06)	1.02 (1.00-1.04)
Excluding possible outlier values in HbA1c records (<4% or >12%)	-	-	1.10 (1.08-1.11)	1.04 (1.02-1.06)	1.02 (1.01-1.04)
Adjusting the three-year CV of HbA1c for the number of HbA1c records	-	-	-	1.04 (1.02-1.06)	1.02 (1.00-1.04)
Stratifying the analysis by the median number of three-year HbA1c records*	<5	-	-	1.04 (1.02-1.06)	1.03 (1.00-1.05)
	≥5	-	-	1.04 (1.01-1.06)	1.03 (1.01-1.05)
Adjusting for the annual rate of clinical visits of each patient during the follow-up	1.37 (1.28-1.46)	1.15 (1.11-1.20)	1.08 (1.07-1.09)	1.05 (1.03-1.06)	1.03 (1.01-1.05)
Adjusting for the identifier of the participating GP practices†	1.27 (1.18-1.37)	1.11 (1.06-1.16)	1.08 (1.06-1.09)	1.03 (1.02-1.05)	1.02 (1.00-1.05)
Appling a more strict dementia ascertainment criterion‡	1.30 (1.21-1.41)	1.11 (1.06-1.16)	1.08 (1.07-1.09)	1.03 (1.01-1.05)	1.02 (1.00-1.04)

Note: The statistic presented in this table is hazard ratio (95% confidence interval) based on fully adjusted model. “-” means not relevant. CV = coefficient of variation, SD = standard deviation. * The median number of HbA1c records per patient used to calculate the three-year mean and CV of HbA1c was 5 (ranging from 3 to 12). † Only the GP practices (n = 421) that contributed data of over 500 diabetes patients were included in this model. ‡ Among the 28,627 dementia cases originally detected, 20,829 (73%) cases met this strict diagnosis criterion; the dementia cases not fulfilling this criterion were censored in this analysis.

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