

Supplementary Table 1

Table S1: A summary of number of participants at each stage of the study design

Outcome under study	Adult-onset IgAV					Childhood-onset IgAV		
	Hypertension	IHD	Stroke/TIA	VTE	CKD	Hypertension	VTE	CKD
Total number of patients identified from THIN	2,828					10,405		
Total number of matched control participants	5,655					20,810		
Number of individuals excluded with pre-existing outcome (exposed)	523	139	68	52	341	185	29	35
Number of individuals excluded with pre-existing outcome (controls)	734	220	107	61	430	236	37	47
Eligible study population (exposed)	2,305	2,689	2,760	2,776	2,487	10,220	10,376	10,370
Eligible study population (controls)	4,921	5,435	5,548	5,594	5,225	20,574	20,773	20,763
New outcomes (exposed)	196	53	52	28	134	139	25	32
New outcomes (controls)	315	104	109	46	185	193	46	34

Supplementary table 2: combined results of analyses for primary outcomes in adult-onset IgAV

Table S2: Summary of results for all of the primary outcomes under study in the adult-onset IgAV cohort, including sub-group and sensitivity analyses.

Analysis	Results		
	Total person-years at risk	Adjusted Hazard ratio (CI 95%)	P value
Hypertension in adult-onset IgAV			
Primary analysis	41,022.06	1.42 (1.19-1.70)	<0.001
Adjusted for baseline eGFR	41,022.06	1.39 (1.16-1.67)	<0.001
Restricted to hypertension diagnosed at least one year post-index date	40,546.69	1.34 (1.10-1.63)	0.004
Restricted to incident cases	16,337.59	1.61 (1.22-2.13)	0.001
Ischaemic heart disease in adult-onset IgAV			
Primary analysis	48,516.38	1.08 (0.77-1.52)	0.637
Adjusted for baseline eGFR	48,516.38	1.10 (0.79-1.55)	0.566
Restricted to incident cases only	19,268.85	0.86 (0.50-1.49)	0.594
Cerebrovascular disease (stroke and TIA) in adult-onset IgAV			
Primary analysis	50,020.98	0.95 (0.68-1.32)	0.758
Adjusted for baseline eGFR	50,020.98	0.95 (0.68-1.33)	0.781
Restricted to	19,935.04	1.09 (0.63-1.91)	0.755

incident cases only			
Venous thromboembolism in adult-onset IgAV			
Primary analysis	50,585.02	1.21 (0.76-1.95)	0.424
Adjusted for baseline eGFR	50,585.02	1.19 (0.74-1.93)	0.463
Restricted to incident cases only	20,103.39	1.51 (0.69-3.33)	0.305
Chronic kidney disease			
Primary analysis	47,527.23	1.54 (1.23-1.93)	<0.001
Adjusted for baseline eGFR	47,527.23	1.55 (1.24-1.95)	<0.001
Excluding patients with missing baseline eGFR	15,758.87	1.28 (0.92-1.78)	0.145
Including all patients regardless of baseline eGFR	48,675.53	1.49 (1.26-1.75)	<0.001
Restricted to CKD recorded at least one year post-index date	47,034.38	1.50 (1.19-1.89)	0.001
Restricted to incident cases only	18,752.73	1.70 (1.20-2.41)	0.003
All-cause mortality in adult-onset IgAV			
Primary analysis	51,476.65	1.27 (1.07-1.50)	0.006
Adjusted for	51,476.65	1.24 (1.05-1.47)	0.013

baseline eGFR			
Restricted to incident cases only	20,443.90	1.09 (0.83-1.42)	0.543

Supplementary table 3

Table S3: Summary of results for all of the primary outcomes under study in the childhood-onset IgAV cohort, including sub-group and sensitivity analyses

Analysis	Results		
	Total person-years at risk	Adjusted Hazard ratio (CI 95%)	P value
Hypertension in childhood-onset IgAV			
Primary analysis	184,072.05	1.52 (1.22-1.89)	<0.001
Adjusted for baseline eGFR	184,072.05	1.53 (1.23-1.91)	<0.001
Restricted to one year post-index date	182,143.18	1.46 (1.16-1.84)	0.001
Restricted to incident cases	56,150.30	6.08 (2.40-15.36)	<0.001
Venous thromboembolism in childhood-onset IgAV			
Primary analysis	187,692.65	1.10 (0.68-1.79)	0.697
Adjusted for baseline eGFR	187,692.65	1.09 (0.67-1.78)	0.726
Restricted to incident cases	N/A (too few events)	N/A (too few events)	N/A (too few events)
Chronic kidney disease in childhood-onset IgAV			
Primary analysis	187,547.64	1.89 (1.16-3.07)	0.010
Adjusted for baseline eGFR	187,547.64	1.73 (1.06-2.81)	0.027
Excluding patients with	16,461.64	0.85 (0.33-2.24)	0.749

missing baseline eGFR			
Restricted to CKD recorded at least one year post-index date	185,609.86	2.01 (1.22-3.32)	0.006
Restricted to incident cases	N/A (too few events)	N/A (too few events)	N/A (too few events)

Tables of Read codes used to identify exposure and outcomes

Table S4: Table of Read codes used to identify exposure

Read code	Description
D310.00	Allergic purpura
D310000	Henoch-Schonlein purpura
D310011	Anaphylactoid purpura
D310012	Acute vascular purpura
D310100	Henoch-Schonlein nephritis
D310z00	Allergic purpura NOS

Table S5: Table of Read codes used to identify hypertension

Read code	Description
G2...00	Hypertensive disease

G2...11	BP - hypertensive disease
G20..00	Essential hypertension
G20..11	High blood pressure
G20..12	Primary hypertension
G200.00	Malignant essential hypertension
G201.00	Benign essential hypertension
G202.00	Systolic hypertension
G203.00	Diastolic hypertension
G20z.00	Essential hypertension NOS
G20z.11	Hypertension NOS
G21..00	Hypertensive heart disease
G210.00	Malignant hypertensive heart disease
G210000	Malignant hypertensive heart disease without CCF
G210100	Malignant hypertensive heart disease with CCF
G210z00	Malignant hypertensive heart disease NOS
G211.00	Benign hypertensive heart disease
G211000	Benign hypertensive heart disease without CCF
G211100	Benign hypertensive heart disease with CCF
G211z00	Benign hypertensive heart disease NOS
G21z.00	Hypertensive heart disease NOS
G21z000	Hypertensive heart disease NOS without CCF
G21z011	Cardiomegaly – hypertensive

G21z100	Hypertensive heart disease NOS with CCF
G21z00	Hypertensive heart disease NOS
G22..00	Hypertensive renal disease
G22..11	Nephrosclerosis
G220.00	Malignant hypertensive renal disease
G221.00	Benign hypertensive renal disease
G222.00	Hypertensive renal disease with renal failure
G22z.00	Hypertensive renal disease NOS
G22z.11	Renal hypertension
G23..00	Hypertensive heart and renal disease
G230.00	Malignant hypertensive heart and renal disease
G231.00	Benign hypertensive heart and renal disease
G232.00	Hypertensive heart&renal dis wth (congestive) heart failure
G233.00	Hypertensive heart and renal disease with renal failure
G234.00	Hyperten heart&renal dis+both(congestv)heart and renal fail
G23z.00	Hypertensive heart and renal disease NOS
G24..00	Secondary hypertension
G240.00	Secondary malignant hypertension
G240000	Secondary malignant

	renovascular hypertension
G240z00	Secondary malignant hypertension NOS
G241.00	Secondary benign hypertension
G241000	Secondary benign renovascular hypertension
G241z00	Secondary benign hypertension NOS
G244.00	Hypertension secondary to endocrine disorders
G24z.00	Secondary hypertension NOS
G24z000	Secondary renovascular hypertension NOS
G24z100	Hypertension secondary to drug
G24zz00	Secondary hypertension NOS
G25..00	Stage 1 hypertension (NICE - Nat Ins for Hth Clin Excl 2011)
G25..11	Stage 1 hypertension
G250.00	Stage 1 hyperten (NICE 2011) without evidnce end organ damage
G251.00	Stage 1 hyperten (NICE 2011) with evidnce end organ damage
G26..00	Severe hypertension (Nat Inst for Health Clinical Ex 2011)
G26..11	Severe hypertension
G27..00	Hypertension resistant to drug therapy
G28..00	Stage 2 hypertension (NICE - Nat Ins for Hth Clin Excl 2011)
G2y..00	Other specified hypertensive disease

G2z..00	Hypertensive disease NOS
Gyu2.00	[X]Hypertensive diseases
Gyu2000	[X]Other secondary hypertension
Gyu2100	[X]Hypertension secondary to other renal disorders

Table S6: Table of Read codes used to identify ischaemic heart disease

Read code	Description
G3...00	Ischaemic heart disease
G3...11	Arteriosclerotic heart disease
G3...12	Atherosclerotic heart disease
G3...13	IHD - Ischaemic heart disease
G30..00	Acute myocardial infarction
G30..11	Attack - heart
G30..12	Coronary thrombosis
G30..13	Cardiac rupture following myocardial infarction (MI)
G30..14	Heart attack
G30..15	MI - acute myocardial infarction
G30..16	Thrombosis - coronary
G30..17	Silent myocardial infarction
G300.00	Acute anterolateral infarction
G301.00	Other specified anterior myocardial infarction
G301000	Acute anteroapical infarction
G301100	Acute anteroseptal infarction
G301z00	Anterior myocardial infarction NOS
G302.00	Acute inferolateral infarction

G303.00	Acute inferoposterior infarction
G304.00	Posterior myocardial infarction NOS
G305.00	Lateral myocardial infarction NOS
G306.00	True posterior myocardial infarction
G307.00	Acute subendocardial infarction
G307000	Acute non-Q wave infarction
G307100	Acute non-ST segment elevation myocardial infarction
G308.00	Inferior myocardial infarction NOS
G309.00	Acute Q-wave infarct
G30A.00	Mural thrombosis
G30B.00	Acute posterolateral myocardial infarction
G30X.00	Acute transmural myocardial infarction of unspecif site
G30X000	Acute ST segment elevation myocardial infarction
G30y.00	Other acute myocardial infarction
G30y000	Acute atrial infarction
G30y100	Acute papillary muscle infarction
G30y200	Acute septal infarction
G30yz00	Other acute myocardial infarction NOS
G30z.00	Acute myocardial infarction NOS
G31..00	Other acute and subacute ischaemic heart disease
G310.00	Postmyocardial infarction syndrome

G310.11	Dressler's syndrome
G311.00	Preinfarction syndrome
G311.11	Crescendo angina
G311.12	Impending infarction
G311.13	Unstable angina
G311.14	Angina at rest
G311000	Myocardial infarction aborted
G311011	MI - myocardial infarction aborted
G311100	Unstable angina
G311200	Angina at rest
G311300	Refractory angina
G311400	Worsening angina
G311500	Acute coronary syndrome
G311z00	Preinfarction syndrome NOS
G312.00	Coronary thrombosis not resulting in myocardial infarction
G31y.00	Other acute and subacute ischaemic heart disease
G31y000	Acute coronary insufficiency
G31y100	Microinfarction of heart
G31y200	Subendocardial ischaemia
G31y300	Transient myocardial ischaemia
G31yz00	Other acute and subacute ischaemic heart disease NOS
G32..00	Old myocardial infarction
G32..11	Healed myocardial infarction
G32..12	Personal history of myocardial infarction
G33..00	Angina pectoris

G330.00	Angina decubitus
G330000	Nocturnal angina
G330z00	Angina decubitus NOS
G331.00	Prinzmetal's angina
G331.11	Variant angina pectoris
G332.00	Coronary artery spasm
G33z.00	Angina pectoris NOS
G33z000	Status anginosus
G33z100	Stenocardia
G33z200	Syncope anginosa
G33z300	Angina on effort
G33z400	Ischaemic chest pain
G33z500	Post infarct angina
G33z600	New onset angina
G33z700	Stable angina
G33zz00	Angina pectoris NOS
G34..00	Other chronic ischaemic heart disease
G340.00	Coronary atherosclerosis
G340.11	Triple vessel disease of the heart
G340.12	Coronary artery disease
G340000	Single coronary vessel disease
G340100	Double coronary vessel disease
G341.00	Aneurysm of heart
G341.11	Cardiac aneurysm
G341000	Ventricular cardiac aneurysm
G341100	Other cardiac wall aneurysm
G341111	Mural cardiac aneurysm
G341200	Aneurysm of coronary vessels
G341300	Acquired atrioventricular fistula

	of heart
G341z00	Aneurysm of heart NOS
G342.00	Atherosclerotic cardiovascular disease
G343.00	Ischaemic cardiomyopathy
G344.00	Silent myocardial ischaemia
G34y.00	Other specified chronic ischaemic heart disease
G34y000	Chronic coronary insufficiency
G34y100	Chronic myocardial ischaemia
G34yz00	Other specified chronic ischaemic heart disease NOS
G34z.00	Other chronic ischaemic heart disease NOS
G34z000	Asymptomatic coronary heart disease
G35..00	Subsequent myocardial infarction
G350.00	Subsequent myocardial infarction of anterior wall
G351.00	Subsequent myocardial infarction of inferior wall
G353.00	Subsequent myocardial infarction of other sites
G35X.00	Subsequent myocardial infarction of unspecified site
G36..00	Certain current complication follow acute myocardial infarct
G360.00	Haemopericardium/current complication follow acute myocardial infarct
G361.00	Atrial septal defect/current complication follow acute myocardial infarct
G362.00	Ventricular septal defect/current complication

	fol acut myocardal infarctn
G363.00	Ruptur cardiac wall w/out haemopericard/cur comp fol ac MI
G364.00	Ruptur chordae tendinae/curr comp fol acute myocard infarct
G365.00	Rupture papillary muscle/curr comp fol acute myocard infarct
G366.00	Thrombosis atrium,auric append&vent/curr comp foll acute MI
G37..00	Cardiac syndrome X
G38..00	Postoperative myocardial infarction
G380.00	Postoperative transmural myocardial infarction anterior wall
G381.00	Postoperative transmural myocardial infarction inferior wall
G382.00	Postoperative transmural myocardial infarction other sites
G383.00	Postoperative transmural myocardial infarction unspec site
G384.00	Postoperative subendocardial myocardial infarction
G38z.00	Postoperative myocardial infarction, unspecified
G39..00	Coronary microvascular disease
G3y..00	Other specified ischaemic heart disease
G3z..00	Ischaemic heart disease NOS
Gyu3.00	[X]Ischaemic heart diseases

Gyu3000	[X]Other forms of angina pectoris
Gyu3100	[X]Other current complicatns following acute myocard infarct
Gyu3200	[X]Other forms of acute ischaemic heart disease
Gyu3300	[X]Other forms of chronic ischaemic heart disease
Gyu3400	[X]Acute transmural myocardial infarction of unspecif site
Gyu3500	[X]Subsequent myocardial infarction of other sites
Gyu3600	[X]Subsequent myocardial infarction of unspecified site

Table S7: Table of Read codes used to identify stroke/TIA

Read code	Description
G6...00	Cerebrovascular disease
G60..00	Subarachnoid haemorrhage
G600.00	Ruptured berry aneurysm
G601.00	Subarachnoid haemorrhage from carotid siphon and bifurcation
G602.00	Subarachnoid haemorrhage from middle cerebral artery
G603.00	Subarachnoid haemorrhage from anterior communicating artery
G604.00	Subarachnoid haemorrhage from posterior communicating artery
G605.00	Subarachnoid haemorrhage from basilar artery
G606.00	Subarachnoid haemorrhage from vertebral artery

G60X.00	Subarachnoid haemorrh from intracranial artery, unspecif
G60z.00	Subarachnoid haemorrhage NOS
G61..00	Intracerebral haemorrhage
G61..11	CVA - cerebrovascular accid due to intracerebral haemorrhage
G61..12	Stroke due to intracerebral haemorrhage
G610.00	Cortical haemorrhage
G611.00	Internal capsule haemorrhage
G612.00	Basal nucleus haemorrhage
G613.00	Cerebellar haemorrhage
G614.00	Pontine haemorrhage
G615.00	Bulbar haemorrhage
G616.00	External capsule haemorrhage
G617.00	Intracerebral haemorrhage, intraventricular
G618.00	Intracerebral haemorrhage, multiple localized
G619.00	Lobar cerebral haemorrhage
G61X.00	Intracerebral haemorrhage in hemisphere, unspecified
G61X000	Left sided intracerebral haemorrhage, unspecified
G61X100	Right sided intracerebral haemorrhage, unspecified
G61z.00	Intracerebral haemorrhage NOS
G62..00	Other and unspecified intracranial haemorrhage
G620.00	Extradural haemorrhage - nontraumatic
G621.00	Subdural haemorrhage - nontraumatic
G622.00	Subdural haematoma - nontraumatic
G623.00	Subdural haemorrhage NOS
G62z.00	Intracranial haemorrhage NOS

G63..00	Precerebral arterial occlusion
G63..11	Infarction - precerebral
G63..12	Stenosis of precerebral arteries
G630.00	Basilar artery occlusion
G631.00	Carotid artery occlusion
G631.11	Stenosis, carotid artery
G631.12	Thrombosis, carotid artery
G632.00	Vertebral artery occlusion
G633.00	Multiple and bilateral precerebral arterial occlusion
G634.00	Carotid artery stenosis
G63y.00	Other precerebral artery occlusion
G63y000	Cerebral infarct due to thrombosis of precerebral arteries
G63y100	Cerebral infarction due to embolism of precerebral arteries
G63z.00	Precerebral artery occlusion NOS
G64..00	Cerebral arterial occlusion
G64..11	CVA - cerebral artery occlusion
G64..12	Infarction - cerebral
G64..13	Stroke due to cerebral arterial occlusion
G640.00	Cerebral thrombosis
G640000	Cerebral infarction due to thrombosis of cerebral arteries
G641.00	Cerebral embolism
G641.11	Cerebral embolus
G641000	Cerebral infarction due to embolism of cerebral arteries
G64z.00	Cerebral infarction NOS
G64z.11	Brainstem infarction NOS

G64z.12	Cerebellar infarction
G64z000	Brainstem infarction
G64z100	Wallenberg syndrome
G64z111	Lateral medullary syndrome
G64z200	Left sided cerebral infarction
G64z300	Right sided cerebral infarction
G64z400	Infarction of basal ganglia
G65..00	Transient cerebral ischaemia
G65..11	Drop attack
G65..12	Transient ischaemic attack
G65..13	Vertebro-basilar insufficiency
G650.00	Basilar artery syndrome
G650.11	Insufficiency - basilar artery
G651.00	Vertebral artery syndrome
G651000	Vertebro-basilar artery syndrome
G652.00	Subclavian steal syndrome
G653.00	Carotid artery syndrome hemispheric
G654.00	Multiple and bilateral precerebral artery syndromes
G655.00	Transient global amnesia
G656.00	Vertebrobasilar insufficiency
G657.00	Carotid territory transient ischaemic attack
G65y.00	Other transient cerebral ischaemia
G65z.00	Transient cerebral ischaemia NOS
G65z000	Impending cerebral ischaemia
G65z100	Intermittent cerebral ischaemia
G65zz00	Transient cerebral ischaemia NOS
G66..00	Stroke and cerebrovascular accident unspecified
G66..11	CVA unspecified
G66..12	Stroke unspecified

G66..13	CVA - Cerebrovascular accident unspecified
G660.00	Middle cerebral artery syndrome
G661.00	Anterior cerebral artery syndrome
G662.00	Posterior cerebral artery syndrome
G663.00	Brain stem stroke syndrome
G664.00	Cerebellar stroke syndrome
G665.00	Pure motor lacunar syndrome
G666.00	Pure sensory lacunar syndrome
G667.00	Left sided CVA
G668.00	Right sided CVA
G669.00	Cerebral palsy, not congenital or infantile, acute
G67..00	Other cerebrovascular disease
G670.00	Cerebral atherosclerosis
G670.11	Precerebral atherosclerosis
G671.00	Generalised ischaemic cerebrovascular disease NOS
G671000	Acute cerebrovascular insufficiency NOS
G671100	Chronic cerebral ischaemia
G671z00	Generalised ischaemic cerebrovascular disease NOS
G672.00	Hypertensive encephalopathy
G672.11	Hypertensive crisis
G673.00	Cerebral aneurysm, nonruptured
G673000	Dissection of cerebral arteries, nonruptured
G673100	Carotico-cavernous sinus fistula
G673200	Carotid artery dissection
G673300	Vertebral artery dissection
G674.00	Cerebral arteritis
G674000	Cerebral amyloid angiopathy
G675.00	Moyamoya disease

G676.00	Nonpyogenic venous sinus thrombosis
G676000	Cereb infarct due cerebral venous thrombosis, nonpyogenic
G677.00	Occlusion/stenosis cerebral arts not result cerebral infarct
G677000	Occlusion and stenosis of middle cerebral artery
G677100	Occlusion and stenosis of anterior cerebral artery
G677200	Occlusion and stenosis of posterior cerebral artery
G677300	Occlusion and stenosis of cerebellar arteries
G677400	Occlusion+stenosis of multiple and bilat cerebral arteries
G678.00	Cereb autosom dominant arteriop subcort infarcts leukoenceph
G679.00	Small vessel cerebrovascular disease
G67A.00	Cerebral vein thrombosis
G67B.00	Reversible cerebral vasoconstriction syndrome
G67B.11	Call-Fleming syndrome
G67y.00	Other cerebrovascular disease OS
G67z.00	Other cerebrovascular disease NOS
G68..00	Late effects of cerebrovascular disease
G680.00	Sequelae of subarachnoid haemorrhage
G681.00	Sequelae of intracerebral haemorrhage
G682.00	Sequelae of other nontraumatic intracranial haemorrhage
G683.00	Sequelae of cerebral infarction
G68W.00	Sequelae/other + unspecified cerebrovascular diseases
G68X.00	Sequelae of stroke,not specfd as h'morrhage or infarction

G6y..00	Other specified cerebrovascular disease
G6z..00	Cerebrovascular disease NOS
Gyu6.00	[X]Cerebrovascular diseases
Gyu6000	[X]Subarachnoid haemorrhage from other intracranial arteries
Gyu6100	[X]Other subarachnoid haemorrhage
Gyu6200	[X]Other intracerebral haemorrhage
Gyu6300	[X]Cerebrl infarctn due/unspcf occlusn or sten/cerebrl artr
Gyu6400	[X]Other cerebral infarction
Gyu6500	[X]Occlusion and stenosis of other precerebral arteries
Gyu6600	[X]Occlusion and stenosis of other cerebral arteries
Gyu6700	[X]Other specified cerebrovascular diseases
Gyu6C00	[X]Sequelae of stroke,not specfd as h'morrhage or infarction
Gyu6D00	[X]Sequelae/other + unspecified cerebrovascular diseases
Gyu6E00	[X]Subarachnoid haemorrh from intracranial artery, unspcif
Gyu6F00	[X]Intracerebral haemorrhage in hemisphere, unspecified
Gyu6G00	[X]Cereb infarct due unsp occlus/stenos precerebr arteries
G6W..00	Cereb infarct due unsp occlus/stenos precerebr arteries
G6X..00	Cerebrl infarctn due/unspcf occlusn or sten/cerebrl artr

Table S7: Table of Read codes used to identify venous thrombo-embolic disease

Read code	Description
F051.00	Thrombosis of central nervous system venous sinuses
F051000	Thrombosis cavernous sinus
F051100	Thrombosis of superior longitudinal sinus
F051200	Thrombosis lateral sinus
F051300	Thrombosis transverse sinus
F051z00	Thrombosis of central nervous system venous sinus NOS
G401.00	Pulmonary embolism
G676.00	Nonpyogenic venous sinus thrombosis
G801.11	Deep vein thrombosis
G801.12	Deep vein thrombosis, leg
G801.13	DVT - Deep vein thrombosis
G801D00	Deep vein thrombosis of lower limb
G801F00	Deep vein thrombosis of peroneal vein
G801H00	Unprovoked deep vein thrombosis
G822.00	Embolism and thrombosis of the vena cava
G82z.00	Embolism and thrombosis NOS
G82z000	Embolus of vein NOS
G82z011	Embolism of vein NOS
G82z100	Thrombosis of vein NOS
G82zz00	Embolism and thrombosis NOS
G401.11	Infarction - pulmonary
G401.12	Pulmonary embolus

G402.00	Pulmonary infarct
G801C00	Deep vein thrombosis of leg related to air travel
G801E00	Deep vein thrombosis of leg related to intravenous drug use
G801J00	Provoked deep vein thrombosis
G802000	Thrombosis of vein of leg
G82..00	Other venous embolism and thrombosis
G820.00	Budd - Chiari syndrome (hepatic vein thrombosis)
G820.11	Hepatic vein thrombosis
G822000	Thrombosis inferior vena cava
G823.00	Embolism and thrombosis of the renal vein
G824.00	Axillary vein thrombosis
G825.00	Thrombosis of subclavian vein
G826.00	Thrombosis of internal jugular vein
G827.00	Thrombosis of external jugular vein
G82y.00	Other embolism and thrombosis
F423811	Retinal vein thrombosis