Supplementary Material

Appendix A. List of current GS management and delivery team, investigators and members of the Scientific Steering Committee.

GS Scientific Steering Committee

Professor Dame Anna F Dominiczak (University of Glasgow & Chief Scientist Office, Scotland) - Chair

Professor Cathie Sudlow (University of Edinburgh) – GS Director

Professor Heather Whalley (University of Edinburgh) – GS Chief Scientist

Professor Julie Brittenden (University of Glasgow)

Dr Christian Cole (University of Dundee)

Professor Riccardo Marioni (University of Edinburgh)

Professor Zosia Miedzybrodzka (University of Aberdeen)

Professor Sandosh Padmanabhan (University of Glasgow)

Professor Blair Smith (University of Dundee)

Katie Wilde (University of Aberdeen)

GS Scientific Leadership Team

Professor Cathie Sudlow – GS Director and Principal Investigator (PI)

Professor David Porteous - Co-Investigator (Former Director and PI)

Professor Andrew McIntosh- Co-Investigator

Professor Riccardo Marioni- Co-Investigator

Professor Caroline Hayward- Co-Investigator

Professor Heather Whalley – GS Chief Scientist and Co-Investigator

GS Management and Delivery Team

Professor Cathie Sudlow (University of Edinburgh) - Director

Archie Campbell (University of Edinburgh) - Chief Technology Officer

Robin Flaig (University of Edinburgh) - Chief Operations Officer

Dr Daniel McCartney (University of Edinburgh) - Senior Bioinformatics Analyst

Professor Heather Whalley (University of Edinburgh) - Chief Scientist

Fiona Clark (University of Edinburgh) - Partnership Coordinator

Elly Darrah (University of Edinburgh) - Administrator

Liz Kirby (University of Edinburgh) - Research Support Officer

Hannah Milbourn (University of Edinburgh) - Health Data Scientist

Anne Richmond (University of Edinburgh) - Bioinformatics Analyst

Sarah Robertson (University of Edinburgh) - Young Person Engagement & Recruitment Co-ordinator

Rosie Tatham (University of Edinburgh) – Administrator

Alex Wood (University of Edinburgh) - Data Analyst / Developer

Dr Zhuoni Xiao (University of Edinburgh) – Research Fellow

Leah Young (University of Edinburgh) - Research Support Officer

Appendix B. Full list of available linked NHS datasets and descriptions.

^a Scottish National healthcare data is collected as a series of Scottish Morbidity Records (SMR).

Linked Dataset	Coding	Date Range	N	Description
Scottish Morbidity Records (SMR)				
Outpatient Attendance (SMR00) ^a	None	1996-2020	21,270	Outpatient attendance information excluding A&E and genitourinary medicine.
General/Acute Inpatient and Day Case (SMR01) ^a	ICD9/ICD10	1980-2022	19,611	Acute inpatient and daycase hospital admissions: disease and procedure codes. Scotland-wide, around 750 000 admissions per annum since 1981.
Maternity Inpatient and Day Case (SMR02) ^a	ICD9/ICD10	1975-2020	8,238	Pregnancies and births: disease and procedure codes. Scotland-wide, around 58,000 deliveries per annum since 1975.
Mental Health Inpatient and Day Case (SMR04) ^a	ICD9/ICD10	1980-2020	578	Psychiatric hospital discharges and diagnostic information.
Scottish Cancer Registry (SMR06) ^a	ICD10	1996-2020	3,606	Personal, demographic, and diagnostic information on all new cases of cancer.
Scottish Birth Record (SMR11) ^a	ICD9/ICD10	1975-1992	3,246	Linked maternity, neonatal and stillbirth and infant death records from 1975, with records pertaining to mother and baby held together.
Primary Care				
General Practice (GP)	ReadV2	1980-2020	19,675	GP primary care attendances.
GP Out-of-Hours Data	ReadV2	2014-2022	8,533	Data on patients seen by GP Out of Hours (OOH) services across Scotland since 2014.
NHS24	Outcome Codes	2011-2022	12,326	Records of telehealth and telecare services provided through nhs24.scot website and NHS 24 111 phone service.
Accident and Emergency (A&E)	ICD10	2007-2020	15,248	Patient attendance information at Emergency Department (EDs), Minor Injuries Units (MIUs) and community hospital A&Es across NHS Scotland.
Other Datasets				

Routine laboratory testing	ReadV2	1997-2018	19,089	Laboratory test results from primary and secondary care provided by the Scottish Care Information (SCI) Store.
ICU Daily Data (SICSAG)	None	2019-2022	361	Scottish Intensive Care Society Audit Group (SICSAG)
ICU Episode Data (SICSAG)	None	2019-2022	361	national database of patients admitted to adult Critical Care Units in Scotland since 1995.
National Records of Scotland (NRS) Deaths Data	ICD10	2007-2022	1,659	All deaths occurring in Scotland. NRS Death Records are linked with NHS Scotland Scottish Morbidity Database.
Diabetes Registry (SCI-DC)	None	2019	1,423	The Scottish Care Information – Diabetes Collaboration (SCI-DC), established in 2002. Integrated electronic patient record for individuals with diabetes.
Pre-2009 Dispensing Data (PIS)	BNF	1989-2009	12,981	The Prescribing Information System (PIS) covers all NHS prescriptions prescribed, dispensed and reimbursed
Post-2009 Dispensing Data (PIS)	BNF	2009-2020	21,486	within the community setting. Pre-2009 data is poorly completed.
COVID-19 Vaccinations	None	2020-2022	19,128	Scottish Covid-19 vaccination data contains COVID-19 vaccination events since December 2020.
Testing (ECOSS)	None	2020-2022	16,537	Electronic Communication of Surveillance in Scotland (ECOSS) system surveillance data on COVID-19 infections reported from diagnostics and reference laboratories.
Dental (MIDAS)	SDR	1994-2019	19,870	Management Information & Dental Accounting System (MIDAS), the payment system for GDS dentists, information on NHS dentist appointments.
Scottish Drug Misuse Database	None	2001-2016	76	Scottish Drug Misuse Database (SDMD), attendances at broad range of services.

Appendix C. Secondary Care ICD-10 codes used to investigate cohort morbidities. Codes were derived from Gadd et al [43] using CALIBER code lists. ICD-10 codes are used for all records after 1994 when they replaced the use of ICD-9 codes. Codes were used to query SMR01 (General/Acute Inpatient and Day Case), SMR06 (Scottish Cancer Registry) and NRS death registration datasets.

Secondary Car	re ICD-10 Codes
Code	Description
Asthma	
J45	Asthma
J46	Status asthmaticus
Bowel cancer	
C18	Malignant neoplasm of colon
Breast cancer	
C50	Malignant neoplasm of breast
Chronic obstru	uctive pulmonary disease
J40	Bronchitis, not specified as acute or chronic
J41	Simple and mucopurulent chronic bronchitis
J42	Unspecified chronic bronchitis
J43	Emphysema
J44	Other chronic obstructive pulmonary disease
Dementia	
F00	Dementia in Alzheimer's disease
F01	Vascular dementia
F03	Unspecified dementia
F051	Delirium superimposed on dementia
G30	Alzheimer's disease
Depression	
F32	Major depressive disorder
F33	Major depressive disorder
Diabetes	
E10	Type 1 diabetes mellitus
E11	Type 2 diabetes mellitus
E12	Malnutrition-related diabetes mellitus
E13	Other specified diabetes mellitus
E14	Unspecified diabetes mellitus
H360	Diabetic retinopathy
O243	Diabetes mellitus in pregnancy: Pre-existing diabetes mellitus, unspecified
N083	Glomerular disorders in diabetes mellitus
H280	Diabetic cataract
O242	Diabetes mellitus in pregnancy: Pre-existing malnutrition-related diabetes mellitus
M142	Diabetic arthropathy
G632	Diabetic polyneuropathy
O240	Diabetes mellitus in pregnancy: Pre-existing diabetes mellitus, insulin-dependent Diabetes mellitus in pregnancy: Pre-existing diabetes mellitus, non-insulin-
0241	dependent
G590	Diabetic mononeuropathy
Hypertension	2.0.20.0
l10	Essential (primary) hypertension
.10	Lose that (printerly) hypertension

l11	Hypertensive heart disease
l12	Hypertensive renal disease
I13	Hypertensive heart and renal disease
I15	Secondary hypertension
Ischaemic h	eart disease
120	Angina pectoris
I21	Acute myocardial infarction
122	Subsequent myocardial infarction
123	Certain current complications following acute myocardial infarction
124	Other acute ischaemic heart diseases
125	Chronic ischaemic heart disease
Lung Cancer	r
C34	Malignant neoplasm of bronchus and lung
Osteoarthri	tis
M15	Polyarthrosis
M16	Coxarthrosis [arthrosis of hip]
M17	Gonarthrosis [arthrosis of knee]
M18	Arthrosis of first carpometacarpal joint
M19	Other arthrosis
Prostate car	
C61	Malignant neoplasm of prostate
Rheumatoid	
M05	Seropositive rheumatoid arthritis
M06	Other rheumatoid arthritis
J99.0	Rheumatoid lung disease
Stroke	
163	Cerebral infarction
164	Stroke, not specified as haemorrhage or infarction
G46.7	Other lacunar syndromes
G46.6	Pure sensory lacunar syndrome
G46.5	Pure motor lacunar syndrome
G46.3	Brain stem stroke syndrome
G46.4	Cerebellar stroke syndrome
169.4	Sequelae of stroke, not specified as haemorrhage or infarction
G46.8	Other vascular syndromes of brain in cerebrovascular diseases
COVID-19	
U071	COVID-19, virus identified

Appendix D. Secondary Care ICD-9 Codes used to investigate cohort morbidities. ICD-9 codes were used for records up to 1994 when they were replaced with ICD-10. Codes were used to query SMR01 (General/Acute Inpatient and Day Case), SMR06 (Scottish Cancer Registry) and NRS death records datasets.

Secondary Care ICD	-9 Codes
Code	Description
Asthma	
493	Asthma
Bowel cancer	
153	Malignant neoplasm of colon
154	Malignant neoplasm of rectum rectosigmoid junction and anus
Breast cancer	
174	Malignant neoplasm of female breast
chronic obstructive	pulmonary disease
490	Bronchitis, not specified as acute or chronic
491	Chronic bronchitis
492	Emphysema
496	Chronic airway obstruction, not elsewhere classified
Dementia	
290	Dementias
2912	Alcohol-induced persisting dementia
2941	Dementia in conditions classified elsewhere
331	Other cerebral degenerations
Depression	
2962	Major depressive disorder single episode
2963	Major depressive disorder recurrent episode
311	Depressive disorder not elsewhere classified
Diabetes	
250	Diabetes mellitus
249	Secondary diabetes mellitus
Hypertension	
401	Essential hypertension
402	Hypertensive heart disease
403	Hypertensive renal disease
404	Hypertensive heart and renal disease
405	Secondary hypertension
Ischaemic heart dis	ease
410	Acute myocardial infarction
411	Other acute and subacute forms of ischemic heart disease
412	Old myocardial infarction
413	Angina pectoris
414	Other forms of chronic ischemic heart disease
Lung cancer	
162	Malignant neoplasm of trachea bronchus and lung
Osteoarthritis	
715	Osteoarthrosis and allied disorders
Prostate cancer	

185	Malignant neoplasm of prostate
Rheumatoid arthrit	is
714	Rheumatoid arthritis and other inflammatory polyarthropathies
Stroke	
430	Subarachnoid haemorrhage
431	Intracerebral haemorrhage
433	Occlusion and stenosis of precerebral arteries
434	Occlusion of cerebral arteries

Appendix E. Primary Care ReadCode v2 Codes used to investigate cohort morbidities. Codes were derived from Gadd et al [43] using CALIBER code lists.

Primary Care Rea	adCode v2 Codes
Code	Description
Asthma	
14B4.	H/O: asthma
173A.	Exercise induced asthma
173c.	Occupational asthma
173d.	Work aggravated asthma
1780	Aspirin induced asthma
102	Asthma confirmed
21262	Asthma resolved
212G.	Asthma resolved
H3120	Chronic asthmatic bronchitis
H33	Asthma
H330.	Extrinsic (atopic) asthma
H3300	Extrinsic asthma without status asthmaticus
H3301	Extrinsic asthma with status asthmaticus
H330z	Extrinsic asthma NOS
H331.	Intrinsic asthma
H3310	Intrinsic asthma without status asthmaticus
H3311	Intrinsic asthma with status asthmaticus
H331z	Intrinsic asthma NOS
H332.	Mixed asthma
H333.	Acute exacerbation of asthma
H334.	Brittle asthma
H335.	Chronic asthma with fixed airflow obstruction
H33z.	Asthma unspecified
H33z0	Status asthmaticus NOS
H33z1	Asthma attack
H33z2	Late-onset asthma
H33zz	Asthma NOS
Bowel cancer	
B13	Malignant neoplasm of colon
B130.	Malignant neoplasm of hepatic flexure of colon
B131.	Malignant neoplasm of transverse colon
B132.	Malignant neoplasm of descending colon
B133.	Malignant neoplasm of sigmoid colon
B134.	Malignant neoplasm of caecum
B135.	Malignant neoplasm of appendix
B136.	Malignant neoplasm of ascending colon
B137.	Malignant neoplasm of splenic flexure of colon
B139.	Hereditary nonpolyposis colon cancer
B13z.	Malignant neoplasm of colon NOS
B1z0.	Malignant neoplasm of intestinal tract, part unspecified
Breast cancer	
B3251	Malignant melanoma of breast

B3351	Malignant neoplasm of skin of chest, excluding breast
B3352	Malignant neoplasm of skin of breast
B34	Malignant neoplasm of female breast
B3401	Malignant neoplasm of areola of female breast
В34у.	Malignant neoplasm of other site of female breast
B34yz	Malignant neoplasm of other site of female breast NOS
B34z.	Malignant neoplasm of female breast NOS
B35	Malignant neoplasm of male breast
B58y0	Secondary malignant neoplasm of breast
B830.	Carcinoma in situ of breast
BB94.	[M]Juvenile breast carcinoma
Byu6.	[X]Malignant neoplasm of breast
ZV103	[V]Personal history of malignant neoplasm of breast
	ve pulmonary disease
14B3.	History of chronic obstructive pulmonary disease
Н3	Chronic obstructive pulmonary disease
H31	Chronic bronchitis
H310.	Simple chronic bronchitis
H3100	Chronic catarrhal bronchitis
H310z	Simple chronic bronchitis NOS
H311.	Mucopurulent chronic bronchitis
H3110	Purulent chronic bronchitis
H3111	Fetid chronic bronchitis
H311z	Mucopurulent chronic bronchitis NOS
H312.	Obstructive chronic bronchitis
H3120	Chronic asthmatic bronchitis
H3121	Emphysematous bronchitis
H3122	Acute exacerbation of chronic obstructive airways disease
H3123	Bronchiolitis obliterans
H312z	Obstructive chronic bronchitis NOS
H313.	Mixed simple and mucopurulent chronic bronchitis
H31y.	Other chronic bronchitis
H31y1	Chronic tracheobronchitis
H31yz	Other chronic bronchitis NOS
H31z.	Chronic bronchitis NOS
H32	Emphysema
H320.	Chronic bullous emphysema
H3200	Segmental bullous emphysema
H3201	Zonal bullous emphysema

Giant bullous emphysema

Bullous emphysema with collapse Chronic bullous emphysema NOS

H3202

H3203

H320z

U22:	Other analysis NOC
H32yz	Other emphysema NOS
H32z.	Emphysema NOS
H36	Mild chronic obstructive pulmonary disease
H37	Moderate chronic obstructive pulmonary disease
H38	Severe chronic obstructive pulmonary disease
H39	Very severe chronic obstructive pulmonary disease
H3A	End stage chronic obstructive airways disease
Н3у	Other specified chronic obstructive airways disease
H3y0.	Chronic obstruct pulmonary dis with acute lower respiratory infection
H3y1.	Chronic obstruct pulmonary dis with acute exacerbation, unspecified
H3z	Chronic obstructive airways disease NOS
H4640	Chronic emphysema due to chemical fumes
H4641	Obliterative bronchiolitis due to chemical fumes
H5832	Eosinophilic bronchitis
Hyu30	[X]Other emphysema
Hyu31	[X]Other specified chronic obstructive pulmonary disease
Dementia	
1461	H/O: dementia
66h	Dementia monitoring
6AB	Dementia annual review
8CMZ.	Dementia care plan
9hD	Exception reporting: dementia quality indicators
9hD0.	Excepted from dementia quality indicators: Patient unsuitable
9hD1.	Excepted from dementia quality indicators: Informed dissent
90u	Dementia monitoring administration
90u1.	Dementia monitoring first letter
90u2.	Dementia monitoring second letter
90u3.	Dementia monitoring third letter
90u4.	Dementia monitoring verbal invite
	-
90u5.	Dementia monitoring telephone invite
E00	Senile and presenile organic psychotic conditions
E000.	Uncomplicated senile dementia
E001.	Presenile dementia
E0010	Uncomplicated presenile dementia
E0011	Presenile dementia with delirium
E0012	Presenile dementia with paranoia
E0013	Presenile dementia with depression
E001z	Presenile dementia NOS
E002.	Senile dementia with depressive or paranoid features
E0020	Senile dementia with paranoia
E0021	Senile dementia with depression
E002z	Senile dementia with depressive or paranoid features NOS
E003.	Senile dementia with delirium
E004.	Arteriosclerotic dementia
E0040	Uncomplicated arteriosclerotic dementia
E0041	Arteriosclerotic dementia with delirium
E0042	Arteriosclerotic dementia with paranoia

Arteriosclerotic dementia with depression
Arteriosclerotic dementia NOS
Other senile and presenile organic psychoses
Senile or presenile psychoses NOS
Dementia in conditions EC
[X]Dementia in Alzheimer's disease
[X]Dementia in Alzheimer's disease with early onset
[X]Dementia in Alzheimer's disease with late onset
[X]Dementia in Alzheimer's dis, atypical or mixed type
[X]Dementia in Alzheimer's disease, unspecified
[X]Vascular dementia
[X]Vascular dementia of acute onset
[X]Multi-infarct dementia
[X]Subcortical vascular dementia
[X]Mixed cortical and subcortical vascular dementia
[X]Other vascular dementia
[X]Vascular dementia, unspecified
[X] Unspecified dementia
[X]Delirium superimposed on dementia
Alzheimer's disease
Alzheimer's disease with early onset
Alzheimer's disease with late onset
[X]Other Alzheimer's disease
Language disorder of dementia
Language disorder of dementia
Language disorder of dementia H/O: depression
Language disorder of dementia H/O: depression Depression resolved
Language disorder of dementia H/O: depression Depression resolved Depression management programme
Language disorder of dementia H/O: depression Depression resolved Depression management programme Patient given advice about management of depression
H/O: depression Depression resolved Depression management programme Patient given advice about management of depression Referral for guided self-help for depression
H/O: depression Depression resolved Depression management programme Patient given advice about management of depression Referral for guided self-help for depression Depression annual review
H/O: depression Depression resolved Depression management programme Patient given advice about management of depression Referral for guided self-help for depression Depression annual review Depression medication review
H/O: depression Depression resolved Depression management programme Patient given advice about management of depression Referral for guided self-help for depression Depression annual review Depression interim review
H/O: depression Depression resolved Depression management programme Patient given advice about management of depression Referral for guided self-help for depression Depression annual review Depression medication review Depression interim review On depression register
H/O: depression Depression resolved Depression management programme Patient given advice about management of depression Referral for guided self-help for depression Depression annual review Depression medication review Depression interim review On depression - enhanced services administration
H/O: depression Depression resolved Depression management programme Patient given advice about management of depression Referral for guided self-help for depression Depression annual review Depression medication review Depression interim review On depression register Depression - enhanced services administration Depression - enhanced service completed
H/O: depression Depression resolved Depression management programme Patient given advice about management of depression Referral for guided self-help for depression Depression annual review Depression medication review Depression interim review On depression register Depression - enhanced services administration Depression - enhanced service completed On full dose long term treatment depression - enh serv admin
H/O: depression Depression resolved Depression management programme Patient given advice about management of depression Referral for guided self-help for depression Depression annual review Depression medication review Depression interim review On depression register Depression - enhanced services administration Depression - enhanced service completed On full dose long term treatment depression - enh serv admin Depression monitoring administration
H/O: depression Depression resolved Depression management programme Patient given advice about management of depression Referral for guided self-help for depression Depression annual review Depression medication review Depression interim review On depression register Depression - enhanced services administration Depression - enhanced service completed On full dose long term treatment depression - enh serv admin Depression monitoring administration Depression monitoring first letter
H/O: depression Depression resolved Depression management programme Patient given advice about management of depression Referral for guided self-help for depression Depression annual review Depression medication review Depression interim review On depression register Depression - enhanced services administration Depression - enhanced service completed On full dose long term treatment depression - enh serv admin Depression monitoring administration Depression monitoring second letter
H/O: depression Depression resolved Depression management programme Patient given advice about management of depression Referral for guided self-help for depression Depression annual review Depression medication review Depression interim review On depression register Depression - enhanced services administration Depression - enhanced service completed On full dose long term treatment depression - enh serv admin Depression monitoring administration Depression monitoring first letter Depression monitoring second letter Depression monitoring third letter
H/O: depression Depression resolved Depression management programme Patient given advice about management of depression Referral for guided self-help for depression Depression annual review Depression medication review Depression interim review On depression register Depression - enhanced services administration Depression - enhanced service completed On full dose long term treatment depression - enh serv admin Depression monitoring administration Depression monitoring first letter Depression monitoring third letter Depression monitoring verbal invite
H/O: depression Depression resolved Depression management programme Patient given advice about management of depression Referral for guided self-help for depression Depression annual review Depression medication review Depression interim review On depression register Depression - enhanced services administration Depression - enhanced service completed On full dose long term treatment depression - enh serv admin Depression monitoring administration Depression monitoring first letter Depression monitoring third letter Depression monitoring verbal invite Depression monitoring telephone invite
H/O: depression Depression resolved Depression management programme Patient given advice about management of depression Referral for guided self-help for depression Depression annual review Depression medication review Depression interim review On depression register Depression - enhanced services administration Depression - enhanced service completed On full dose long term treatment depression - enh serv admin Depression monitoring administration Depression monitoring second letter Depression monitoring third letter Depression monitoring verbal invite Depression monitoring telephone invite Presenile dementia with depression
H/O: depression Depression resolved Depression management programme Patient given advice about management of depression Referral for guided self-help for depression Depression annual review Depression medication review Depression interim review On depression register Depression - enhanced services administration Depression - enhanced service completed On full dose long term treatment depression - enh serv admin Depression monitoring administration Depression monitoring first letter Depression monitoring third letter Depression monitoring verbal invite Depression monitoring telephone invite Presenile dementia with depression Senile dementia with depression
H/O: depression Depression resolved Depression management programme Patient given advice about management of depression Referral for guided self-help for depression Depression annual review Depression medication review Depression interim review On depression register Depression - enhanced services administration Depression - enhanced service completed On full dose long term treatment depression - enh serv admin Depression monitoring administration Depression monitoring first letter Depression monitoring third letter Depression monitoring verbal invite Depression monitoring telephone invite Presenile dementia with depression Senile dementia with depression Arteriosclerotic dementia with depression
H/O: depression Depression resolved Depression management programme Patient given advice about management of depression Referral for guided self-help for depression Depression annual review Depression medication review Depression interim review On depression register Depression - enhanced services administration Depression - enhanced service completed On full dose long term treatment depression - enh serv admin Depression monitoring administration Depression monitoring first letter Depression monitoring third letter Depression monitoring verbal invite Depression monitoring telephone invite Presenile dementia with depression Senile dementia with depression

E1121	Single major depressive episode, mild
E1122	Single major depressive episode, moderate
E1123	Single major depressive episode, severe, without psychosis
E1124	Single major depressive episode, severe, with psychosis
E1125	Single major depressive episode, partial or unspec remission
E1126	Single major depressive episode, in full remission
E112z	Single major depressive episode NOS
E113.	Recurrent major depressive episode
E1130	Recurrent major depressive episodes, unspecified
E1131	Recurrent major depressive episodes, mild
E1132	Recurrent major depressive episodes, moderate
E1133	Recurrent major depressive episodes, severe, no psychosis
E1134	Recurrent major depressive episodes, severe, with psychosis
E1135	Recurrent major depressive episodes,partial/unspec remission
E1136	Recurrent major depressive episodes, in full remission
E1137	Recurrent depression
E113z	Recurrent major depressive episode NOS
E118.	Seasonal affective disorder
E11y2	Atypical depressive disorder
E11z2	Masked depression
E130.	Reactive depressive psychosis
E135.	Agitated depression
E2003	Anxiety with depression
E291.	Prolonged depressive reaction
E2B	Depressive disorder NEC
E2B1.	Chronic depression
Eu204	[X]Post-schizophrenic depression
Eu251	[X]Schizoaffective disorder, depressive type
Eu32.	[X]Depressive episode
Eu320	[X]Mild depressive episode
Eu321	[X]Moderate depressive episode
Eu322	[X]Severe depressive episode without psychotic symptoms
Eu323	[X]Severe depressive episode with psychotic symptoms
Eu324	[X]Mild depression
Eu325	[X]Major depression, mild
Eu326	[X]Major depression, moderately severe
Eu327	[X]Major depression, severe without psychotic symptoms
Eu328	[X]Major depression, severe with psychotic symptoms
Eu329	[X]Single major depr ep, severe with psych, psych in remiss
Eu32A	[X]Recurr major depr ep, severe with psych, psych in remiss
Eu32y	[X]Other depressive episodes
Eu32z	[X]Depressive episode, unspecified
Eu33.	[X]Recurrent depressive disorder
Eu330	[X]Recurrent depressive disorder, current episode mild
Eu331	[X]Recurrent depressive disorder, current episode moderate
Eu332	[X]Recurr depress disorder cur epi severe without psyc sympt
Eu333	[X]Recurrent depress disorder cur epi severe with psyc symp
Eu334	[X]Recurrent depressive disorder, currently in remission

Eu33y	[X]Other recurrent depressive disorders
Eu33z	[X]Recurrent depressive disorder, unspecified
Eu341	[X]Dysthymia
Eu412	[X]Mixed anxiety and depressive disorder
Diabetes	
C108.	Type 1 diabetes mellitus
C1080	Type 1 diabetes mellitus with renal complications
C1082	Type 1 diabetes mellitus with neurological complications
C1084	Unstable type 1 diabetes mellitus
C1085	Type 1 diabetes mellitus with ulcer
C1087	Type 1 diabetes mellitus with retinopathy
C1088	Type 1 diabetes mellitus - poor control
C1089	Type 1 diabetes mellitus maturity onset
C108A	Type 1 diabetes mellitus without complication
C108D	Type 1 diabetes mellitus with nephropathy
C108E	Type 1 diabetes mellitus with hypoglycaemic coma
C108F	Type 1 diabetes mellitus with diabetic cataract
C108H	Type 1 diabetes mellitus with arthropathy
C108J	Type 1 diabetes mellitus with neuropathic arthropathy
C109.	Type 2 diabetes mellitus
C1090	Type 2 diabetes mellitus with renal complications
C1091	Type 2 diabetes mellitus with ophthalmic complications
C1092	Type 2 diabetes mellitus with neurological complications
C1094	Type 2 diabetes mellitus with ulcer
C1095	Type 2 diabetes mellitus with gangrene
C1096	Type 2 diabetes mellitus with retinopathy
C1097	Type 2 diabetes mellitus - poor control
C109A	Type 2 diabetes mellitus with mononeuropathy
C109B	Type 2 diabetes mellitus with polyneuropathy
C109C	Type 2 diabetes mellitus with nephropathy
C109D	Type 2 diabetes mellitus with hypoglycaemic coma
C109E	Type 2 diabetes mellitus with diabetic cataract
C109F	Type 2 diabetes mellitus with peripheral angiopathy
C109G	Type 2 diabetes mellitus with arthropathy
C109H	Type 2 diabetes mellitus with neuropathic arthropathy
C109J	Insulin treated Type 2 diabetes mellitus
C109K	Hyperosmolar non-ketotic state in type 2 diabetes mellitus
C10E.	Type 1 diabetes mellitus
C10E0	Type 1 diabetes mellitus with renal complications
C10E1	Type 1 diabetes mellitus with ophthalmic complications
C10E2	Type 1 diabetes mellitus with neurological complications
C10E3	Type 1 diabetes mellitus with multiple complications
C10E4	Unstable type 1 diabetes mellitus
C10E5	Type 1 diabetes mellitus with ulcer
C10E6	Type 1 diabetes mellitus with gangrene
C10E7	Type 1 diabetes mellitus with retinopathy
C10E8	Type 1 diabetes mellitus - poor control
C10E9	Type 1 diabetes mellitus maturity onset

C10EA	Type 1 diabetes mellitus without complication
C10EB	Type 1 diabetes mellitus with mononeuropathy
C10EC	Type 1 diabetes mellitus with polyneuropathy
C10ED	Type 1 diabetes mellitus with nephropathy
C10EE	Type 1 diabetes mellitus with hypoglycaemic coma
C10EF	Type 1 diabetes mellitus with diabetic cataract
C10EG	Type 1 diabetes mellitus with peripheral angiopathy
C10EH	Type 1 diabetes mellitus with arthropathy
C10EJ	Type 1 diabetes mellitus with neuropathic arthropathy
C10EK	Type 1 diabetes mellitus with persistent proteinuria
C10EL	Type 1 diabetes mellitus with persistent microalbuminuria
C10EM	Type 1 diabetes mellitus with ketoacidosis
C10EN	Type 1 diabetes mellitus with ketoacidotic coma
C10EP	Type 1 diabetes mellitus with exudative maculopathy
C10EQ	Type 1 diabetes mellitus with extuative macdiopathy Type 1 diabetes mellitus with gastroparesis
C10EQ C10F.	Type 2 diabetes mellitus
C10F0	Type 2 diabetes mellitus with renal complications
C10F0	Type 2 diabetes mellitus with renar complications Type 2 diabetes mellitus with ophthalmic complications
C10F1 C10F2	Type 2 diabetes mellitus with neurological complications Type 2 diabetes mellitus with neurological complications
C10F3	Type 2 diabetes mellitus with multiple complications
C10F4	Type 2 diabetes mellitus with ulcer
C10F5	Type 2 diabetes mellitus with gangrene
C10F6	Type 2 diabetes mellitus with retinopathy
C10F7	Type 2 diabetes mellitus - poor control
C10F9	Type 2 diabetes mellitus without complication
C10FA	Type 2 diabetes mellitus with mononeuropathy
C10FB	Type 2 diabetes mellitus with polyneuropathy
C10FC	Type 2 diabetes mellitus with nephropathy
C10FD	Type 2 diabetes mellitus with hypoglycaemic coma
C10FE	Type 2 diabetes mellitus with diabetic cataract
C10FF	Type 2 diabetes mellitus with peripheral angiopathy
C10FG	Type 2 diabetes mellitus with arthropathy
C10FH	Type 2 diabetes mellitus with neuropathic arthropathy
C10FJ	Insulin treated Type 2 diabetes mellitus
C10FK	Hyperosmolar non-ketotic state in type 2 diabetes mellitus
C10FL	Type 2 diabetes mellitus with persistent proteinuria
C10FM	Type 2 diabetes mellitus with persistent microalbuminuria
C10FN	Type 2 diabetes mellitus with ketoacidosis
C10FP	Type 2 diabetes mellitus with ketoacidotic coma
C10FQ	Type 2 diabetes mellitus with exudative maculopathy
C10FR	Type 2 diabetes mellitus with gastroparesis
Hypertension	
14A2.	H/O: hypertension
21261	Hypertension resolved
212K.	Hypertension resolved
61462	Hypertension induced by oral contraceptive pill
6624	Borderline hypertension: yearly observation
6627	Good hypertension control

6628	Poor hypertension control
662b.	Moderate hypertension control
662c.	Hypertension six month review
662d.	Hypertension annual review
662F.	Hypertension treatment. started
662G.	Hypertensive treatment changed
6620.	On treatment for hypertension
662r.	Trial withdrawal of antihypertensive therapy
7Q01.	High cost hypertension drugs
8B26.	Antihypertensive therapy
8BL0.	Patient on maximal tolerated antihypertensive therapy
8I3N.	Hypertension treatment refused
9019.	Hypertension monitor deleted
F4042	Blind hypertensive eye
F4213	Hypertensive retinopathy
G2	Hypertensive disease
G20	Essential hypertension
G200.	Malignant essential hypertension
G201.	Benign essential hypertension
G202.	Systolic hypertension
G203.	Diastolic hypertension
G20z.	Essential hypertension NOS
G21	Hypertensive heart disease
G210.	Malignant hypertensive heart disease
G2100	Malignant hypertensive heart disease without CCF
G2101	Malignant hypertensive heart disease with CCF
G211.	Benign hypertensive heart disease
G2110	Benign hypertensive heart disease without CCF
G2111	Benign hypertensive heart disease with CCF
G21z.	Hypertensive heart disease NOS
G21z0	Hypertensive heart disease NOS without CCF
G21z1	Hypertensive heart disease NOS with CCF
G21zz	Hypertensive heart disease NOS
G22	Hypertensive renal disease
G220.	Malignant hypertensive renal disease
G221.	Benign hypertensive renal disease
G222.	Hypertensive renal disease with renal failure
G22z.	Hypertensive renal disease NOS
G23	Hypertensive heart and renal disease
G230.	Malignant hypertensive heart and renal disease
G231.	Benign hypertensive heart and renal disease
G232.	Hypertensive heart&renal dis wth (congestive) heart failure
G233.	Hypertensive heart and renal disease with renal failure
G234.	Hyperten heart&renal dis+both(congestv)heart and renal fail
G23z.	Hypertensive heart and renal disease NOS
G24	Secondary hypertension
G240.	Secondary malignant hypertension
G2400	Secondary malignant renovascular hypertension

G240z	Secondary malignant hypertension NOS
G241.	Secondary benign hypertension
G2410	Secondary benign renovascular hypertension
G241z	Secondary benign hypertension NOS
G244.	Hypertension secondary to endocrine disorders
G24z.	Secondary hypertension NOS
G24z0	Secondary renovascular hypertension NOS
G24z1	Hypertension secondary to drug
G24zz	Secondary hypertension NOS
G2y	Other specified hypertensive disease
G2z	Hypertensive disease NOS
G672.	Hypertensive encephalopathy
Gyu2.	[X]Hypertensive diseases
Gyu21	[X]Hypertension secondary to other renal disorders
L122.	Other pre-existing hypertension in preg/childbirth/puerp
L1220	Other pre-existing hypertension in preg/childb/puerp unspec
L1221	Other pre-existing hypertension in preg/childb/puerp - deliv
L1223	Other pre-exist hypertension in preg/childb/puerp-not deliv
L122z	Other pre-existing hypertension in preg/childb/puerp NOS
L127.	Pre-eclampsia or eclampsia with pre-existing hypertension
L127z	Pre-eclampsia or eclampsia + pre-existing hypertension NOS
L128.	Pre-exist hypertension compl preg childbirth and puerperium
L1280	Pre-exist hyperten heart dis compl preg childbth+puerperium
L1282	Pre-exist 2ndry hypertens comp preg childbth and puerperium
TJC7.	Adverse reaction to other antihypertensives
TJC7z	Adverse reaction to antihypertensives NOS
U60C5	[X]Oth antihyperten drug caus advers eff in therap use, NEC

Ischaemic heart disease

G3	Ischaemic heart disease
G30	Acute myocardial infarction
G300.	Acute anterolateral infarction
G301.	Other specified anterior myocardial infarction
G301z	Anterior myocardial infarction NOS
G302.	Acute inferolateral infarction
G303.	Acute inferoposterior infarction
G304.	Posterior myocardial infarction NOS
G305.	Lateral myocardial infarction NOS
G307.	Acute subendocardial infarction
G3070	Acute non-Q wave infarction
G3071	Acute non-ST segment elevation myocardial infarction
G308.	Inferior myocardial infarction NOS
G309.	Acute Q-wave infarct
G30A.	Mural thrombosis
G30X0	Acute ST segment elevation myocardial infarction
G30yz	Other acute myocardial infarction NOS
G30z.	Acute myocardial infarction NOS
G31	Other acute and subacute ischaemic heart disease
G310.	Postmyocardial infarction syndrome

G311.	Preinfarction syndrome
G3110	Myocardial infarction aborted
G3111	·
	Unstable angina
G3112	Angina at rest
G3114	Worsening angina
G3115	Acute coronary syndrome
G31y0	Acute coronary insufficiency
G31yz	Other acute and subacute ischaemic heart disease NOS
G32	Old myocardial infarction
G33	Angina pectoris
G3300	Nocturnal angina
G330z	Angina decubitus NOS
G331.	Prinzmetal's angina
G332.	Coronary artery spasm
G33z.	Angina pectoris NOS
G33z3	Angina on effort
G33z4	Ischaemic chest pain
G33z6	New onset angina
G33z7	Stable angina
G33zz	Angina pectoris NOS
G340.	Coronary atherosclerosis
G3400	Single coronary vessel disease
G3401	Double coronary vessel disease
G341.	Aneurysm of heart
G3410	Ventricular cardiac aneurysm
G342.	Atherosclerotic cardiovascular disease
G343.	Ischaemic cardiomyopathy
G34z.	Other chronic ischaemic heart disease NOS
G34z0	Asymptomatic coronary heart disease
G35	Subsequent myocardial infarction
	Thrombosis of atrium, auricular appendage, and ventricle as current complications
G366.	following acute myocardial infarction
G37	Cardiac syndrome X
G38	Postoperative myocardial infarction
G39	Coronary microvascular disease
G3z	Ischaemic heart disease NOS
Lung cancer	
B22	Malignant neoplasm of trachea, bronchus and lung
B2211	Malignant neoplasm of hilus of lung
B222.	Malignant neoplasm of upper lobe, bronchus or lung
B2221	Malignant neoplasm of upper lobe of lung
B2231	Malignant neoplasm of middle lobe of lung
B224.	Malignant neoplasm of Inward lobe, bronchus or lung
B2241	Malignant neoplasm of lower lobe of lung
B22z.	Malignant neoplasm of bronchus or lung NOS
B570.	Secondary malignant neoplasm of lung
Osteoarthritis	Secondary manignant neoplasm or lang
14G2.	H/O: osteoarthritis
1702.	in o. oscourtinus

2G26.	O/E - hands - Heberden's nodes
7P204	Delivery of rehabilitation for osteoarthritis
N05	Osteoarthritis and allied disorders
N050.	Generalised osteoarthritis - OA
N0500	Generalised osteoarthritis of unspecified site
N0500 N0501	Generalised osteoarthritis of the hand
N0501 N0502	Generalised osteoarthritis of the hand Generalised osteoarthritis of multiple sites
	•
N0503	Bouchard's nodes with arthropathy
N0504	Primary generalized osteoarthrosis
N0505 N0506	Secondary multiple arthrosis Erosive osteoarthrosis
N0507	Heberden's nodes with arthropathy
N050z	Generalised osteoarthritis NOS
N0502 N051.	
	Localised, primary esteoarthritis
N0510 N0511	Localised, primary esteoarthritis of unspecified site
	Localised, primary esteoarthritis of the shoulder region
N0512	Localised, primary esteoarthritis of the upper arm
N0513	Localised, primary esteemethicities of the forearm
N0514	Localised, primary esteoarthritis of the hand
N0515	Localised, primary esteoarthritis of the pelvic region/thigh
N0516 N0517	Localised, primary esteoarthritis of the lower leg
N0517 N0518	Localised, primary esteparthritis of the ankle and foot
	Localised, primary osteoarthritis of other specified site
N0519	Primary coxarthrosis, bilateral
N051A	Coxarthrosis resulting from dysplasia, bilateral
N051B	Primary gonarthrosis, bilateral
N051C	Primary arthrosis of first carpometacarpal joints, bilateral
N051D	Localised, primary esteoarthritis of the wrist
N051E	Localised, primary esteoarthritis of toe
N051F N051G	Localised, primary osteoarthritis of elbow
N051g N051z	Osteoarthritis of spinal facet joint Localised, primary osteoarthritis NOS
N0512 N052.	Localised, secondary osteoarthritis
N0520	Localised, secondary osteoarthritis Localised, secondary osteoarthritis of unspecified site
N0520 N0521	Localised, secondary osteoarthritis of the shoulder region
N0521 N0522	Localised, secondary osteoarthritis of the shoulder region
N0522 N0523	Localised, secondary osteoarthritis of the doper arm
N0523	Localised, secondary osteoarthritis of the hand
N0525	Localised, secondary osteoarthritis of the hand Localised, secondary osteoarthritis of pelvic region/thigh
N0525	Localised, secondary osteoarthritis of pelvic region, triight
N0527	Localised, secondary osteoarthritis of the lower leg
N0527	Localised, secondary osteoarthritis of the arrive and root Localised, secondary osteoarthritis of other specified site
N0528	Localised, secondary osteoarthritis of other specified site
N0522	Localised osteoarthritis, unspecified
N0530	Localised osteoarthritis, unspecified, of unspecified site
N0530	Localised osteoarthritis, unspecified, of shoulder region
N0531	Localised osteoarthritis, unspecified, of the upper arm
N0532	Localised osteoarthritis, unspecified, of the opper arm
	20005ed Osteodi Cirricis, diispecifica, of the forediffi

N0534	Localised osteoarthritis, unspecified, of the hand
N0535	Localised osteoarthritis, unspecified, pelvic region/thigh
N0536	Localised osteoarthritis, unspecified, of the lower leg
N0537	Localised osteoarthritis, unspecified, of the ankle and foot
N0538	Localised osteoarthritis, unspecified, of other spec site
N0539	Arthrosis of first carpometacarpal joint, unspecified
N053z	Localised osteoarthritis, unspecified, NOS
N054.	Oligoarticular osteoarthritis, unspecified
N0540	Oligoarticular osteoarthritis, unspec, of unspecified sites
N0541	Oligoarticular osteoarthritis, unspecified, of shoulder
N0542	Oligoarticular osteoarthritis, unspecified, of upper arm
N0544	Oligoarticular osteoarthritis, unspecified, of hand
N0545	Oligoarticular osteoarthritis, unspecified, of pelvis/thigh
N0546	Oligoarticular osteoarthritis, unspecified, of lower leg
N0547	Oligoarticular osteoarthritis, unspecified, of ankle/foot
N0548	Oligoarticular osteoarthritis, unspecified, other spec sites
N0549	Oligoarticular osteoarthritis, unspecified, multiple sites
N054z	Osteoarthritis of more than one site, unspecified, NOS
N05z.	Osteoarthritis NOS
N05z0	Osteoarthritis NOS, of unspecified site
N05z1	Osteoarthritis NOS, of shoulder region
N05z4	Osteoarthritis NOS, of the hand
N05z5	Osteoarthritis NOS, pelvic region/thigh
N05z6	Osteoarthritis NOS, of the lower leg
N05z7	Osteoarthritis NOS, of ankle and foot
N05z8	Osteoarthritis NOS, other specified site
N05z9	Osteoarthritis NOS, of shoulder
N05zA	Osteoarthritis NOS, of sternoclavicular joint
N05zB	Osteoarthritis NOS, of acromioclavicular joint
N05zC	Osteoarthritis NOS, of elbow
N05zD	Osteoarthritis NOS, of distal radio-ulnar joint
N05zE	Osteoarthritis NOS, of wrist
N05zF	Osteoarthritis NOS, of MCP joint
N05zG	Osteoarthritis NOS, of PIP joint of finger
N05zH	Osteoarthritis NOS, of DIP joint of finger
N05zJ	Osteoarthritis NOS, of hip
N05zK	Osteoarthritis NOS, of sacro-iliac joint
N05zL	Osteoarthritis NOS, of knee
N05zM	Osteoarthritis NOS, of tibio-fibular joint
N05zN	Osteoarthritis NOS, of ankle
N05zP	Osteoarthritis NOS, of subtalar joint
N05zQ	Osteoarthritis NOS, of talonavicular joint
N05zR	Osteoarthritis NOS, of other tarsal joint
N05zS	Osteoarthritis NOS, of 1st MTP joint
N05zT	Osteoarthritis NOS, of lesser MTP joint
N05zU	Osteoarthritis NOS, of IP joint of toe
N05zz	Osteoarthritis NOS
Nyu2.	[X]Arthrosis
1	L 1

Nyu20	[X]Other polyarthrosis
Nyu21	[X]Other primary coxarthrosis
Nyu22	[X]Other dysplastic coxarthrosis
Nyu24	[X]Other secondary coxarthrosis, bilateral
Nyu25	[X]Other primary gonarthrosis
Nyu27	[X]Other secondary gonarthrosis, bilateral
Nyu28	[X]Other secondary gonarthrosis
Nyu29	[X]Other primary arthrosis of first carpometacarpal joint
Nyu2D	[X]Other specified arthrosis
Nyu2E	[X]Other secondary coxarthrosis
Prostate cancer	
7B365	Radical prostatectomy without pelvic node excision
4M01.	Gleason prostate grade 5-7 (medium)
4M02.	Gleason prostate grade 8-10 (high)
4M00.	Gleason prostate grade 2-4 (low)
B46	Malignant neoplasm of prostate
7B360	Radical prostatectomy - unspecified excision of pelvic nodes
ZV104	[V]Personal history of malignant neoplasm of prostate
7B367	Radical prostatectomy with pelvic lymphadenectomy
4M0	Gleason grading of prostate cancer
7B200	Radical cystoprostatourethrectomy
7B366	Radical prostatectomy with pelvic node sampling
14270	H/O: prostate cancer
7B202	Radical cystoprostatectomy
Rheumatoid arth	
14G1.	H/O: rheumatoid arthritis
2G25.	O/E - hands - ulnar deviation
2G27.	O/E-hands-rheumatoid spindling
66H	Rheumatoid arthrit. monitoring
7P203	Delivery of rehabilitation for rheumatoid arthritis
9mM	Rheumatoid arthritis monitoring invitation
9mM0.	Rheumatoid arthritis monitoring invitation first letter
9mM1.	Rheumatoid arthritis monitoring invitation second letter
9mM2.	Rheumatoid arthritis monitoring invitation third letter
9mM3.	Rheumatoid arthritis monitoring verbal invitation
9mM4.	Rheumatoid arthritis monitoring telephone invitation
F3712	Polyneuropathy in rheumatoid arthritis
F3964	Myopathy due to rheumatoid arthritis
G5y8.	Rheumatoid myocarditis
G5yA.	Rheumatoid carditis
H570.	Rheumatoid lung
N005.	Adult Still's Disease
N04	Rheumatoid arthritis and other inflammatory polyarthropathy
N040.	Rheumatoid arthritis
N0400	Rheumatoid arthritis of cervical spine
N0401	Other rheumatoid arthritis of spine
N0402	Rheumatoid arthritis of shoulder
N0403	Rheumatoid arthritis of sternoclavicular joint
.10-103	integrated a tribited of sterriodiavious joint

N0404	Rheumatoid arthritis of acromioclavicular joint
N0405	Rheumatoid arthritis of elbow
N0406	Rheumatoid arthritis of distal radio-ulnar joint
N0407	Rheumatoid arthritis of wrist
N0408	Rheumatoid arthritis of MCP joint
N0409	Rheumatoid arthritis of PIP joint of finger
N040A	Rheumatoid arthritis of DIP joint of finger
N040B	Rheumatoid arthritis of hip
N040C	Rheumatoid arthritis of sacro-iliac joint
N040D	Rheumatoid arthritis of knee
N040E	Rheumatoid arthritis of tibio-fibular joint
N040F	Rheumatoid arthritis of ankle
N040G	Rheumatoid arthritis of subtalar joint
N040H	Rheumatoid arthritis of talonavicular joint
N040J	Rheumatoid arthritis of other tarsal joint
N040K	Rheumatoid arthritis of 1st MTP joint
N040L	Rheumatoid arthritis of lesser MTP joint
N040M	Rheumatoid arthritis of IP joint of toe
N040N	Rheumatoid vasculitis
NO40P	Seronegative rheumatoid arthritis
N040Q	Rheumatoid bursitis
NO40R	Rheumatoid nodule
N040S	Rheumatoid arthritis - multiple joint
N040T	Flare of rheumatoid arthritis
N041.	Felty's syndrome
N042.	Other rheumatoid arthropathy + visceral/systemic involvement
N0421	Rheumatoid lung disease
N0422	Rheumatoid nodule
N042z	Rheumatoid arthropathy + visceral/systemic involvement NOS
N047.	Seropositive errosive rheumatoid arthritis
N04X.	Seropositive rheumatoid arthritis
_	Rheumatoid lung
N04y0	Adult-onset Still's disease
N04y2	
N3622	Swan-neck finger deformity
Nyu10	[X]Rheumatoid arthritis+involvement/other organs or systems
Nyu11	[X]Other seropositive rheumatoid arthritis
Nyu12	[X]Other specified rheumatoid arthritis
Nyu1G	[X]Seropositive rheumatoid arthritis unspecified
Stroke	
G6400	Cerebral infarction due to thrombosis of cerebral arteries
G6W	Cereb infarct due unsp occlus/stenos precerebr arteries
Gyu63	[X]Cerebrl infarctn due/unspcf occlusn or sten/cerebrl artrs
G63y0	Cerebral infarct due to thrombosis of precerebral arteries
G683.	Sequelae of cerebral infarction
G64z3	Right sided cerebral infarction
Gyu6G	[X]Cereb infarct due unsp occlus/stenos precerebr arteries
G640.	Cerebral thrombosis
G64z.	Cerebral infarction NOS

G641.	Cerebral embolism
G63	Infarction - precerebral
G64z0	Brainstem infarction
G6410	Cerebral infarction due to embolism of cerebral arteries
G64z4	Infarction of basal ganglia
G6X	Cerebrl infarctn due/unspcf occlusn or sten/cerebrl artrs
G64z1	Wallenberg syndrome
G64	Cerebral arterial occlusion
G63y1	Cerebral infarction due to embolism of precerebral arteries
G64z2	Left sided cerebral infarction
Gyu64	[X]Other cerebral infarction
14A7.	H/O: CVA/stroke
14AK.	H/O: Stroke in last year
1M4	Central post-stroke pain
661M7	Stroke self-management plan agreed
661N7	Stroke self-management plan review
662e.	Stroke/CVA annual review
662M.	Stroke monitoring
662M1	Stroke 6 month review
662M2	Stroke initial post discharge review
7P242	Delivery of rehabilitation for stroke
8HHM.	Ref to multidisciplinary stroke function improvement service
8IEC.	Ref multidisciplinary stroke function improvement declined
9h2	Exception reporting: stroke quality indicators
9h21.	Excepted from stroke quality indicators: Patient unsuitable
9h22.	Excepted from stroke quality indicators: Informed dissent
Fyu56	[X]Other lacunar syndromes
G66	Stroke and cerebrovascular accident unspecified
G663.	Brain stem stroke syndrome
G664.	Cerebellar stroke syndrome
G665.	Pure motor lacunar syndrome
G666.	Pure sensory lacunar syndrome
G667.	Left sided CVA
G668.	Right sided CVA
G68X.	Sequelae of stroke, not specified as haemorrhage or infarction
Gyu6C	[X]Sequelae of stroke, not specified as haemorrhage or infarction
L440.	Stroke in the puerperium
ZV125	[V]Personal history of stroke
COVID-19	
1JX1.	Suspected disease caused by 2019-nCoV (novel coronavirus)
A7951	Disease caused by 2019-nCoV (novel coronavirus)
4J3R.	2019-nCoV (novel coronavirus) serology
4J3R1	2019-nCoV (novel coronavirus) detected

Appendix F. Summary of the top 50 most cited publications using GS data. A full list of publications can be found at https://www.ed.ac.uk/generation-scotland/what-found/publications.

First Author	Title	Year Publishe d	Journal	Keywords	Citati ons
Wray	Genome-wide association analyses identify 44 risk variants and refine the genetic architecture of major depression.	2018	Nature Genetics	Cognition and Mental Health	2,243
Lee	Gene discovery and polygenic prediction from a genome-wide association study of educational attainment in 1.1 million individuals.	2018	Nature Genetics	Data	1,714
Howard	Genome-wide meta-analysis of depression identifies 102 independent variants and highlights the importance of the prefrontal brain regions.	2019	Nature Neuroscienc e	Cognition and Mental Health	1,483
Pardiñas	Common schizophrenia alleles are enriched in mutation-intolerant genes and in regions under strong background selection.	2018	Nature Genetics	Cognition and Mental Health	1,376
Okbay	Genome-wide association study identifies 74 loci associated with educational attainment.	2016	Nature	Cognition and Mental Health	1,292
Anttila	Analysis of shared heritability in common disorders of the brain.	2018	Science	Cognition and Mental Health	1,202
Pairo- Castineira	Genetic mechanisms of critical illness in Covid-19.	2020	Nature	COVID-19	1,162
UK10K Consortium	The UK10K project identifies rare variants in health and disease.	2015	Nature	Data	1,030
Rahbari	Timing, rates and spectra of human germline mutation.	2015	Nature Genetics	Data	859
Lazaridis	Genomic insights into the origin of farming in the ancient Near East.	2016	Nature	Data	850
Fitzgerald	Large-scale discovery of novel genetic causes of developmental disorders.	2014	Nature	Cognition and Mental Health	693
Repapi	Genome-wide association study identifies five loci associated with lung function.	2009	Nature Genetics	Respiratory Disease	646
Davies	Study of 300,486 individuals identifies 148 independent genetic loci influencing general cognitive function.	2018	Nature Communicat ions	Cognition and Mental Health	551
Warren	Genome-wide association analysis identifies novel blood pressure loci and offers biological insights into cardiovascular risk.	2017	Nature genetics	Cardiovascular Disease	541
Roselli	Multi-Ethnic Genome-wide Association Study for Atrial Fibrillation.	2018	Nature Genetics	Cardiovascular	522
Grotzinger	Genomic structural equation modelling provides insights into the multivariate genetic architecture of complex traits.	2019	Nature Human Behaviour	Methodology	521
Liu	Biological and clinical insights from genomic analysis of plasma lipids in >300,000 individuals.	2017	Nature	Cardiovascular Disease	511

Wuttke	A catalogue of genetic loci associated with kidney function from analyses of a million individuals.	2019	Nature Genetics	Kidney Disease	509
Day	Genomic analyses identify hundreds of variants associated with age at menarche and support a role for puberty timing in cancer risk.	2017	Nature Genetics	Cancer	466
Kwong	Mental health before and during the COVID-19 pandemic in two longitudinal UK population cohorts.	2020	British Journal of Psychiatry	COVID-19	461
Soler Artigas	Genome-wide association and large-scale follow-up identifies 16 new loci influencing lung function.	2011	Nature Genetics	Respiratory Disease	458
Messner	Ultra-high-throughput clinical proteomics reveals classifiers of COVID-19 infection.	2020	Cell Systems	COVID-19	433
Bethlehem	Brain charts for the human lifespan.	2022	Nature	Brain Charts	416
Davies	Genetic contributions to variation in general cognitive function: a meta-analysis of genome-wide association studies in the CHARGE consortium (N=53,949).	2015	Molecular Psychiatry	Cognition and Mental Health	416
Davies	Genome-wide association study of cognitive functions and educational attainment in UK Biobank (N=112,151).	2016	Molecular Psychiatry	Cognition and Mental Health	370
Clarke	Genome-wide association study of alcohol consumption and genetic overlap with other health-related traits in UK Biobank (N=112,117).	2017	Molecular Psychiatry	Alcohol	368
Schmidt	PCSK9 genetic variants and risk of type 2 diabetes: a Mendelian randomisation study.	2016	The Lancet Diabetes & Endocrinolo gy	Diabetes	366
Day	Large-scale genomic analyses link reproductive aging to hypothalamic signalling, breast cancer susceptibility and BRCA1-mediated DNA repair.	2015	Nature Genetics	Cancer	366
Shrine	New genetic signals for lung function highlight pathways and pleiotropy, and chronic obstructive pulmonary disease associations across multiple ancestries.	2019	Nature Genetics	Cardiovascular	332
Luciano	Association analysis in over 329,000 individuals identifies 116 independent variants influencing neuroticism.	2017	Nature Genetics	Cognition and Mental Health	312
Turcot	Protein-altering variants associated with body mass index implicate pathways that control energy intake and expenditure in obesity.	2017	Nature Genetics	Lifestyle	300
Rietveld	Common genetic variants associated with cognitive performance identified using the proxy-phenotype method.	2014	PNAS 2014	Cognition and Mental Health	296

Surendran	Trans-ancestry meta-analyses identify rare and common variants associated with blood pressure and hypertension.	2016	Nature Genetics	Cardiovascular Disease	294
de Moor	Meta-analysis of Genome-wide Association Studies for Neuroticism, and the Polygenic Association with Major Depressive Disorder.	2015	JAMA Psychiatry	Cognition and Mental Health	293
Christopher son	Large-scale analyses of common and rare variants identify 12 new loci associated with atrial fibrillation.	2017	Nature Genetics	Cardiovascular Disease	290
Wain	Genome-wide association analyses for lung function and chronic obstructive pulmonary disease identify new loci and potential druggable targets.	2017	Nature genetics	Respiratory Disease	283
Brown	Vascular Consequences of Pre-eclampsia.	2015	Journal of Hypertensio n Volume	Cardiovascular Disease	283
Smith, D. J.	Genome-wide analysis of over 106,000 individuals identifies 9 neuroticismassociated loci.	2016	Molecular Psychiatry	Cognition and Mental Health	266
Graham	The power of genetic diversity in genomewide association studies of lipids.	2021	Nature	GWAS	261
Chen	The Trans-Ancestral Genomic Architecture of Glycaemic Traits.	2021	Nature Genetics	Other	250
Tin	Target genes, variants, tissues and transcriptional pathways influencing human serum urate levels.	2019	Nature Genetics	Kidney Disease	250
Schumann	KLB is associated with alcohol drinking, and its gene product β-Klotho is necessary for FGF21 regulation of alcohol preference.	2016	PNAS	Alcohol	226
Abul-Husn	Personalized Medicine and the Power of Electronic Health Records.	2019	Cell	Ethical, Legal and Social Issues	218
Clarke	Common polygenic risk for autism spectrum disorder (ASD) is associated with cognitive ability in the general population.	2015	Molecular Psychiatry	Cognition and Mental Health	217
Wessel	Low-frequency and rare exome chip variants associate with fasting glucose and type 2 diabetes susceptibility.	2015	Nature Communicat ions	Diabetes	215
Welsh	Cardiac Troponin T and Troponin I in the general population: contrasting genetic determinants and outcomes.	2019	Circulation	Cardiovascular	214
Graff	Genome-wide physical activity interactions in adiposity — a meta-analysis of 200,452 adults.	2017	PLoS Genetics	Obesity	200
Justice	Genome-Wide Meta-Analysis of 241,258 Adults Accounting for Smoking Behaviour Identifies Novel Loci for Obesity Traits.	2017	Nature Communicat ions	Smoking, Obesity	200
Marioni	Molecular genetic contributions to socioeconomic status and intelligence.	2014	Intelligence	Cognition and Mental Health	196

	Genome-wide Association for Major				
Power	Depression Through Age at Onset		Biological Psychiatry	Cognition and Mental Health	193
	Stratification: Major Depressive Disorder	2016			
	Working Group of the Psychiatric Genomics				
	Consortium.				