



Early View

Original article

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Pleiotropic associations of heterozygosity for the *SERPINA1* Z allele in the UK Biobank

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Take home message

Heterozygosity for the *SERPINA1* Z allele is associated with higher lung function in non-smokers, but this advantage is abolished by smoking, as well as a variety of non-respiratory diseases and traits, including liver-, heart-, and bone-related conditions.

Abstract

Homozygosity for the *SERPINA1* Z allele causes alpha-1 antitrypsin deficiency, a rare condition that can cause lung and liver disease. However, the effects of Z allele heterozygosity on non-respiratory phenotypes, and on lung function in the general population, remain unclear.

We conducted a large population-based study to determine Z allele effects on >2,400 phenotypes in UK Biobank (N>303,353).

Z allele heterozygosity was strongly associated with increased height ($\beta=1.02\text{cm}$, $P=3.91\times 10^{-68}$), and with other non-respiratory phenotypes including increased risk of gall bladder disease, reduced risk of heart disease and lower blood pressure, reduced risk of osteoarthritis and reduced bone mineral density, increased risk of headache and enlarged prostate, as well as with blood biomarkers of liver function. Heterozygosity was associated with *higher* height-adjusted forced expiratory volume in 1 second (FEV₁) ($\beta=19.36\text{ml}$, $P=9.21\times 10^{-4}$) and FEV₁/forced vital capacity (FEV₁/FVC) ($\beta=0.0031$, $P=1.22\times 10^{-5}$) in non-smokers, whereas in smokers this protective effect was abolished. Furthermore, we show for the first time that sex modifies the association of the Z allele on lung function.

We conclude that Z allele heterozygosity and homozygosity exhibit opposing effects on lung function in the UK population, and that these associations are modified by smoking and sex. In exploratory analyses, heterozygosity for the Z allele also showed pleiotropic associations with non-respiratory health-related traits and disease risk.

Introduction

Homozygosity for the *SERPINA1* Z allele (rs28929474(T)) is the commonest cause of severe alpha-1 antitrypsin deficiency (AATD) and is a well-established genetic risk factor for lung diseases such as chronic obstructive pulmonary disease (COPD). However, the health consequences of heterozygosity for the Z allele are not as well-understood[1]. Given that approximately one in 30 Europeans are heterozygous for the Z allele, the phenotypic consequences of carriage of this allele could have important public health implications.

Some previous studies have sought to characterise the effect of Z allele heterozygosity on non-respiratory traits, particular liver diseases [2-6]. However, these have often been carried out in small sample sizes and/or clinical subgroups. The recent development of genome-wide association studies (PheWAS) and the availability of the well-phenotyped UK Biobank population-based cohort provides a platform for systematic investigation of the effects of heterozygosity for the Z allele on non-respiratory traits. PheWAS test the association between genetic variants and a large number of phenotypic traits, including diseases and their subtypes, and potential intermediate phenotypes[7]. This differs from genome-wide association studies (GWAS), which test a large number of variants across the genome for association with only one trait.

The effect of Z allele heterozygosity on lung function traits and lung disease has been the subject of many studies. Recent COPD case-control and family-based studies have shown reduced lung function and increased risk of COPD in heterozygous current and former smokers[8-11]. However, a population-based study demonstrated no significant reductions in lung function in heterozygous smokers, despite having greater numbers of heterozygous smokers compared to previous studies[12]. It also showed enhanced lung function in heterozygous individuals overall, partially explained by strong association of the Z allele with increased height. This discrepancy may be due, in part, to the fact that identifying and recruiting study participants based on their health status (as in case-control studies[8, 9]) or based on the health status of a family member[10, 11], can lead to

causal estimates that are subject to ascertainment bias[13], whereas population-based studies[12, 14] overcome these biases. The effects of the Z allele on lung function in relation to smoking status therefore remain uncertain.

Finally, despite evidence for sex-differential effects of Z allele homozygosity on lung function [15, 16], we are not aware of any studies that have compared the effect of Z allele heterozygosity on lung function in males versus females.

We therefore systematically evaluated the effects of Z allele heterozygosity in the UK biobank population, which in total includes >18,000 Z allele heterozygotes. We aimed to (i) undertake the most extensive phenome-wide association study to date, including blood biomarkers, for Z allele heterozygosity and homozygosity to identify effects beyond the respiratory system, and (ii) to fully define the effects of Z allele heterozygosity on lung function measures (FEV₁ and FVC) in smokers and non-smokers and in males and females.

Methods

Cohorts

Ethics statement. This study used anonymised data from UK Biobank, which has ethical approval from the UK National Health Service (NHS) National Research Ethics Service (Ref 11/NW/0382). All participants provided written informed consent. Ethical approval for the ALSPAC study was obtained from the ALSPAC Ethics and Law Committee and the Local Research Ethics Committees.

Written informed consent for the use of data collected via questionnaires and clinics was obtained from participants, parents or guardians following the recommendations of the ALSPAC Ethics and Law Committee at the time.

UK Biobank. The UK Biobank data resource is described elsewhere (see <http://www.ukbiobank.ac.uk>). Genotyping was undertaken using the Affymetrix Axiom® UK BiLEVE and UK Biobank arrays[17]. Genotypes were imputed based on the Human Reference Consortium (HRC) panel, as described elsewhere[18]. Genotyping quality control was performed as described previously[19]. UK Biobank individuals were selected for inclusion in PheWAS analyses if they met the following criteria: (i) they had no missing data for sex or age; (ii) they had genome-wide imputed genetic data for rs28929474; (iii) they were of genetically determined European ancestry (see [19] for details) and; (iv) they were not first- or second-degree relatives. For lung function analyses, individuals were additionally required to have spirometry data that passed quality control, as described previously[19] and to have full data for height and smoking status as well as data derived from direct genotyping for rs28929474 (N = 303,353).

The Avon Longitudinal Study of Parents and Children (ALSPAC). The ALSPAC cohort was invited to participate in this study after the main analyses in UK Biobank had been completed in order to explore the effects of the Z allele on height and lung function in younger age groups. ALSPAC children were genotyped using the Illumina HumanHap550 quad genome-wide SNP genotyping platform (Illumina Inc., San Diego, CA, USA) by the Wellcome Trust Sanger Institute (WTSI;

Cambridge, UK) and the Laboratory Corporation of America (LCA, Burlington, NC, USA), using support from 23andMe. Further details of ALSPAC are available in the Supplemental materials. Participants were excluded from this study if they had incorrectly recorded sex, minimal or excessive heterozygosity, disproportionate levels of individual missingness (>3%), evidence of cryptic relatedness or non-European ancestry.

Phenome-wide association studies (PheWAS)

To identify whether *SERPINA1* Z allele heterozygosity or homozygosity was associated with respiratory and non-respiratory traits and diseases, two PheWAS across all available traits were performed. The first compared traits in individuals heterozygous for the Z allele vs wild-type, and the second compared individuals homozygous for the Z allele vs wild type and heterozygotes combined (recessive genetic model). Up to 379,101 individuals were available for these analyses. Traits included UK Biobank baseline measures (from both questionnaires and physical measures), self-reported medication usage, and operative procedures, as well as those captured in Office of Population Censuses and Surveys codes from the electronic health record. We also included self-reported disease variables and those from hospital episode statistics (ICD-10 codes truncated to three-character codes and combined in block and chapter groups) as well as combining both self-report and hospital diagnosed diseases where possible to maximise power. The analysis included 2,411 traits (traits with >200 cases were included[20]). Analyses were conducted in unrelated European-ancestry individuals (KING kinship coefficient of <0.0442), and were adjusted for age, age², sex, genotyping array, and ten ancestry principal components. Logistic models were fitted for binary outcomes, and linear models were fitted for quantitative outcomes (rank transformed to normality). False discovery rates were calculated according to the number of the traits in the analysis.

Statistical analyses for biomarkers, lung function, COPD and height

For continuous traits, linear regression models adjusted for sex, age, age², the first ten ancestry-based principal components (PCs) and genotyping array were tested in R. *SERPINA1* Z genotype

(derived from direct genotyping) was coded according to the genetic model tested: either heterozygous (ie. heterozygous versus wild-type) or recessive. For lung function analyses, ever-smoking status and standing height were also included in the models unless indicated. To test for interaction of Z allele hetero- or homo-zygosity with ever-smoking status and sex, interaction terms for sex and smoking were added to the model. Association testing with moderate-severe COPD (defined as $\text{FEV}_1/\text{FVC} < 0.7$ and $\text{FEV}_1 < 80\%$ predicted) or COPD GOLD 1-4 (defined as $\text{FEV}_1/\text{FVC} < 0.7$) was carried out using logistic regression in R adjusting for covariates sex, age, age², ever-smoking status, height, the first ten ancestry-based principal components (PCs) and genotyping array. In addition to the biomarkers available from UK Biobank, we calculated estimated glomerular filtration rate (eGFR) using the following formula: If cystatin C (cys) ≤ 0.8 then $\text{eGFR} = 133 * ((\text{cys}/0.8)^{**} - 0.499) * (0.996^{**} \text{age}) * [0.932 \text{ if female}]$ whereas if cystatin C (cys) > 0.8 then $\text{eGFR} = 133 * ((\text{cys}/0.8)^{**} - 1.328) * (0.996^{**} \text{age}) * [0.932 \text{ if female}]$.

In ALSPAC, the association of Z allele heterozygosity with height and lung function z-scores were examined using linear regression models including age and gender (and including height in the lung function analyses).

Polygenic risk scores

Polygenic risk scores for lower FEV_1/FVC were generated in UK Biobank using Plink v1.90b3. These were based on 60,730 autosomal variants with minor allele frequency $> 1\%$, $P < 0.05$ (for the association with FEV_1/FVC in UK Biobank) and LD pruned to $r^2 < 0.1$ in 250kb windows. Variants were weighted by FEV_1/FVC beta coefficients from the SpiroMeta consortium cohorts[19].

Results

Frequency of the *SERPINA1* Z in UK Biobank

Amongst 411,002 unrelated, European UK Biobank participants with full sex, age, height, smoking status and genotyping data, 16,199 (3.94%) were heterozygous and 129 (0.0314%) were homozygous for the Z allele. There were fewer ZZ homozygotes than expected under Hardy-Weinberg Equilibrium in all samples ($P = 0.004$), ever-smokers ($P = 0.003$), individuals over 60 years of age ($P = 0.007$) and in females ($P = 0.007$) (**S1 Table**), consistent with reduced survival.

Phenome-wide association studies of the Z allele

To explore the effect of Z allele heterozygosity and homozygosity on a broad range of phenotypes we performed two PheWAS. The phenotypes most strongly associated with Z allele heterozygosity and Z allele homozygosity ($FDR < 0.01$) are shown in **Fig. 1A** and **1B** respectively (full results are in **S2 Table** and **S3 Table**). Standing height, alpha 1 antitrypsin deficiency, and various respiratory phenotypes (lung function, reported emphysema, chronic bronchitis and COPD) were strongly associated with the Z allele under either genetic model. However, we also detected strong associations between Z allele heterozygosity and a number of other phenotypes, including increased risk of gall stones ($OR = 1.35, P = 1.69 \times 10^{-16}$), gall bladder removal ($OR = 1.51, P = 1.85 \times 10^{-29}$) and bile duct disease ($OR = 1.25, P = 5.42 \times 10^{-8}$); cardiovascular phenotypes such as lower risk of heart disease ($OR = 0.84, P = 6.66 \times 10^{-6}$) and family history of heart disease, and lower blood pressure ($P = 1.02 \times 10^{-10}$); musculoskeletal phenotypes such as a higher grip strength ($P = 5.67 \times 10^{-7}$), lower risk of osteoarthritis, particularly of knee or hip ($OR = 0.85, P = 1.18 \times 10^{-6}$), lower bone mineral density ($P = 1.40 \times 10^{-5}$) and higher risk of osteoporosis ($OR = 1.17, P = 0.001$); and also higher risk of headache ($OR = 1.12, P = 5.66 \times 10^{-9}$) and enlarged prostate ($OR = 1.26, P = 1.95 \times 10^{-7}$). The pheWAS also included blood counts for a variety of different cell types, showing reduced reticulocytes in individuals heterozygous for the Z allele. Z allele homozygosity was associated with increased

haemoglobin ($P = 7.17 \times 10^{-10}$), haematocrit ($P = 6.17 \times 10^{-8}$) and red blood cells ($P = 5.91 \times 10^{-5}$), as well as optic neuritis ($OR = 26.9$, $P = 4.32 \times 10^{-6}$) and pancreatitis ($OR = 6.07$, $P = 7.76 \times 10^{-5}$).

To extend these analyses to traits not previously available for the PheWAS, we investigated the effect of Z allele heterozygosity and homozygosity on thirty key blood biochemistry markers in UK Biobank data (**Table 1**). Heterozygosity for the Z allele was associated with a variety of liver function markers including higher alanine aminotransferase ($\beta = 1.16 \text{ U/l}$, $P = 2.95 \times 10^{-25}$), higher albumin ($\beta = 0.71 \text{ g/l}$, $P = 3.11 \times 10^{-229}$), higher alkaline phosphatase ($\beta = 2.97 \text{ U/l}$, $P = 5.81 \times 10^{-44}$), higher aspartate aminotransferase (0.71 U/l , $P = 2.27 \times 10^{-16}$) and higher direct bilirubin ($\beta = 0.041 \text{ umol/l}$, $P = 1.64 \times 10^{-8}$). There were also strong associations with calcium ($\beta = 0.012 \text{ mmol/l}$, $P = 4.01 \times 10^{-50}$), cystatin C (0.0090 mg/l , $P = 8.91 \times 10^{-12}$), C-reactive protein ($\beta = -0.17 \text{ mg/l}$, $P = 1.11 \times 10^{-6}$) and IGF-1 ($\beta = -0.21 \text{ nmol/l}$, $P = 2.35 \times 10^{-6}$). Heterozygotes exhibited higher sex hormone binding globulin (SHBG) ($\beta = 4.53 \text{ nmol/l}$, $P = 1.06 \times 10^{-95}$) and testosterone ($\beta = 0.37 \text{ nmol/l}$, $P = 1.84 \times 10^{-57}$). The association with higher testosterone was driven by heterozygosity in males (0.76 nmol/l [SE 0.045], $P = 3.38 \times 10^{-64}$), but not females (-0.030 nmol/l [SE 0.0079], $P = 0.00015$).

Table 1. Association between the *SERPINA1* Z allele and blood biomarkers in unrelated, European UK Biobank participants

Biomarker	Heterozygous genetic model		Recessive genetic model	
	Beta (se)	p	Beta (se)	p
Alanine aminotransferase (U/l)	1.163 (0.112)	2.95×10^{-25}	3.037 (1.246)	0.015
Albumin (g/l)	0.712 (0.022)	3.11×10^{-229}	0.306 (0.243)	0.208
Alkaline phosphatase (U/l)	2.968 (0.213)	5.81×10^{-44}	2.379 (2.373)	0.316
Apolipoprotein B (g/l)	-0.0037 (0.0021)	0.082	0.042 (0.024)	0.086
Apolipoprotein A (g/l)	-0.0045 (0.0019)	0.020	0.019 (0.022)	0.375
Aspartate aminotransferase (U/l)	0.707 (0.086)	2.27×10^{-16}	6.353 (0.956)	3.04×10^{-11}
C-reactive protein (mg/l)	-0.174 (0.036)	1.11×10^{-6}	0.192 (0.396)	0.628
Calcium (mmol/l)	0.012 (0.00080)	4.01×10^{-50}	0.01 (0.009)	0.265
Cholesterol (mmol/l)	0.0051 (0.0092)	0.576	0.19 (0.102)	0.063
Creatinine (umol/l)	-0.067 (0.129)	0.601	-0.94 (1.435)	0.512
Cystatin C (mg/l)	0.0090 (0.0013)	8.91×10^{-12}	0.019 (0.015)	0.204
Direct bilirubin (umol/l)	0.041 (0.0073)	1.64×10^{-8}	0.158 (0.079)	0.046
eGFR*	-0.241 (0.157)	0.125	-1.810 (1.732)	0.296
Gamma glutamyltransferase (U/l)	0.253 (0.342)	0.460	8.045 (3.818)	0.035
Glucose (mmol/l)	-0.0032 (0.010)	0.758	-0.133 (0.114)	0.244
Glycated haemoglobin (HbA1c) (mmol/mol)	-0.187 (0.052)	3.40×10^{-4}	-1.781 (0.588)	2.46×10^{-3}
HDL cholesterol (mmol/l)	0.0015 (0.0030)	0.605	0.142 (0.033)	2.01×10^{-5}
IGF-1 (nmol/l)	-0.212 (0.045)	2.35×10^{-6}	-2.245 (0.5)	7.19×10^{-6}
LDL direct (mmol/l)	0.011 (0.007)	0.113	0.115 (0.079)	0.145
Lipoprotein A (nmol/l)	-0.324 (0.452)	0.474	-0.151 (5.115)	0.976
Oestradiol (pmol/l)	9.577 (8.441)	0.257	88.051 (96.144)	0.360
Phosphate (mmol/l)	0.0027 (0.0013)	0.042	-0.014 (0.015)	0.352
Rheumatoid factor (IU/ml)	0.113 (0.529)	0.832	-3.27 (5.7)	0.566
SHBG (nmol/l)	4.531 (0.218)	1.06×10^{-95}	40.573 (2.402)	5.33×10^{-64}
Testosterone (nmol/l)	0.37 (0.023)	1.84×10^{-57}	2.986 (0.258)	6.96×10^{-31}
Total bilirubin (umol/l)	0.146 (0.035)	3.54×10^{-5}	0.52 (0.391)	0.184
Total protein (g/l)	0.578 (0.035)	1.06×10^{-62}	0.459 (0.382)	0.229
Triglycerides (mmol/l)	-0.023 (0.0082)	4.69×10^{-3}	-0.324 (0.092)	4.21×10^{-4}
Urate (umol/l)	1.096 (0.56)	0.050	-1.325 (6.252)	0.832
Urea (mmol/l)	0.051 (0.011)	2.69×10^{-6}	0.06 (0.122)	0.620
Vitamin D (nmol/l)	-0.041 (0.175)	0.816	-2.547 (1.955)	0.193

Results are based on linear regression adjusting for sex, age, age², ancestry-based principal components, and genotyping array. The heterozygous or recessive genetic model was also included in the regression as shown. * estimated glomerular filtration rate (eGFR) was calculated using the following formula: If cystatin C (cys) <= 0.8 then eGFR = 133*((cys/0.8)**-1.154 + 0.0193*(age**2) - 0.0223*(age) + 0.0003*(sex))

$0.499 * (0.996^{**} \text{age}) * [0.932 \text{ if female}]$ whereas if cystatin C (cys) > 0.8 then eGFR =
 $133 * ((\text{cys}/0.8)^{**} - 1.328) * (0.996^{**} \text{age}) * [0.932 \text{ if female}]$. HDL = high-density lipoprotein, IGF-1 =
insulin-like growth factor 1, LDL = low-density lipoprotein, and SHBG = sex hormone binding globulin

Z allele heterozygosity is associated with increased lung function in non-smokers

We tested association of heterozygosity for the *SERPINA1* Z allele with lung function traits in unrelated, European UK Biobank participants with full sex, age, height, smoking status, lung function and genotyping data (**Table 2**). Individuals heterozygous for the Z allele exhibited higher FEV₁ ($\beta = 9.26$ ml, $P = 0.041$) but no association with FEV₁/FVC or FVC compared to wild-type (**Table 2**). However, in stratified analyses of UK Biobank never- and ever-smokers, we found that heterozygosity for the Z allele was associated with a large increase in FEV₁ ($\beta = 19.36$ ml, $P = 9.21 \times 10^{-4}$) and increased FEV₁/FVC ($\beta = 0.0031$, $P = 1.22 \times 10^{-5}$) in never-smokers, but not in ever-smokers (**Table 2**). The FEV₁ association in never-smokers was only slightly attenuated by including a quadratic height term in the regression ($\beta = 18.85$ ml, $P = 1.23 \times 10^{-3}$). Statistical tests of Z allele*ever-smoking interactions showed interactions for FEV₁ ($P = 0.022$) and FEV₁/FVC ($P = 1.06 \times 10^{-4}$) (**S4 Table**). Furthermore, heterozygous ever-smokers exhibited a small increased risk of COPD (both moderate-severe COPD, OR = 1.16, $P = 0.005$, and COPD GOLD 1-4, OR = 1.12, $P = 0.001$), whereas heterozygous never-smokers did not (**Table 2**).

Table 2. Association between the *SERPINA1* Z allele and height, lung function traits, and COPD in unrelated, European UK Biobank participants

Genetic model	Smoking status	N (test vs comparison)	Height (cm)		FEV ₁ (ml)		FEV ₁ /FVC		FVC (ml)		COPD ^a		COPD GOLD 1-4 ^b	
			Beta (se)	p	Beta (se)	p	Beta (se)	p	Beta (se)	p	OR (95% CI)	P	OR (95% CI)	P
Het	All	11877 vs 291383	1.023 (0.059)	3.91x10 ⁻⁶⁸	9.26 (4.53)	0.041	0.00091 (0.00057)	0.108	9.38 (5.43)	0.084	1.05 (0.96-1.14)	0.268	1.04 (0.98 - 1.09)	0.171
	Ever-smokers	5357 vs 133779	1.027 (0.087)	8.53x10 ⁻³²	-2.63 (7.05)	0.709	-0.0017 (0.00091)	0.062	5.47 (8.28)	0.509	1.16 (1.05-1.29)	0.005	1.12 (1.04 - 1.20)	0.001
	Never-smokers	6520 vs 157604	1.022 (0.079)	3.03x10 ⁻³⁸	19.36 (5.84)	9.21x10 ⁻⁴	0.0031 (0.00071)	1.22x10 ⁻⁵	12.77 (7.15)	0.074	0.87 (0.75-1.01)	0.070	0.93 (0.86 - 1.02)	0.113
Rec	All	93 vs 303260	1.644 (0.650)	0.011	-249.21 (50.22)	6.96x10 ⁻⁷	-0.051 (0.0063)	3.54x10 ⁻¹⁶	-132.16 (60.09)	0.028	7.42 (4.29 - 12.27)	5.67x10 ⁻¹⁴	4.58 (2.93 - 7.05)	8.67x10 ⁻¹²
	Ever-smokers	35 vs 139136	1.242 (1.062)	0.242	-379.21 (85.54)	9.30x10 ⁻⁶	-0.081 (0.011)	2.00x10 ⁻¹³	-177.95 (100.35)	0.076	9.19 (4.19-19.00)	6.27x10 ⁻⁹	6.13 (3.07 - 12.29)	2.30x10 ⁻⁷
	Never-smokers	58 vs 164124	1.873 (0.821)	0.023	-174.68 (60.68)	0.004	-0.034 (0.0074)	4.95x10 ⁻⁶	-107.69 (74.23)	0.147	5.98 (2.66-12.03)	2.69x10 ⁻⁶	3.68 (2.01 - 6.47)	1.11x10 ⁻⁵

Results are based on linear (or logistic, in the case of COPD) regression adjusting for sex, age, age², ancestry-based principal components, genotyping array

and, in the case of lung function and COPD, standing height. The heterozygote or recessive genetic model was also included in the regression as shown.

^aCOPD was spirometrically defined as FEV₁/FVC<0.7 and FEV₁ < 80% predicted. ^bCOPD GOLD 1-4 was defined as FEV₁/FVC<0.7

The Z allele is strongly associated with height

Heterozygosity for the Z allele was strongly associated with height ($\beta = 1.02$ cm, $P = 3.91 \times 10^{-68}$ – **Table 2**) and, when lung function measures were not adjusted for height, the Z allele heterozygosity had much larger effect estimates for FEV₁ ($\beta = 44.72$ ml [SE 4.97], $P = 2.20 \times 10^{-19}$) and FVC ($\beta = 61.06$ ml [SE 6.18], $P = 5.18 \times 10^{-23}$), but not FEV₁/FVC. These results suggest that carrying one copy of the Z allele confers an advantage primarily (but not entirely) driven by increased height. To investigate the developmental stage at which Z allele heterozygosity influences height, we tested association with height in the ALPSAC cohort at ages 8, 15 and 24 years. The findings were consistent with Z allele heterozygosity influencing height from adolescence and, at all the ages, directions of effect on height and lung function were consistent with those in UK Biobank (**S5 Table**).

Sex modifies the effect of Z allele heterozygosity on lung function

We also assessed whether sex can modify the effect of the Z allele on lung function or height and found that heterozygosity for the Z allele was associated with higher height-adjusted FEV₁/FVC in females ($\beta = 0.0028$ [SE 0.00071], $P = 5.89 \times 10^{-5}$) but not in males ($\beta = -0.0015$ [SE 0.0009], $P = 0.093$) (Z allele*sex interaction: $P = 0.00021$ for FEV₁/FVC, **S4 Table** and **S6 Table**).

Association between Z allele homozygosity and lung function

In contrast to the lung function raising effects of carrying one copy of the Z allele, homozygosity for the Z allele has been widely reported to reduce lung function and increase risk of COPD. Similarly, UK Biobank individuals homozygous for the Z allele had significantly lower FEV1 ($\beta = -249.21$ ml, $P = 6.96 \times 10^{-7}$), FEV1/FVC ($\beta = -0.051$, $P = 3.54 \times 10^{-16}$) and FVC ($\beta = -132.16$, $P = 0.028$) compared to wild-type and heterozygous individuals and greater risk of COPD (both moderate-severe COPD, OR = 7.42, $P = 5.67 \times 10^{-14}$, and COPD GOLD 1-4, OR = 4.58, $P = 8.67 \times 10^{-12}$) (**Table 2**). The associations between homozygosity for the Z allele and reduced lung function and increased risk of COPD were stronger in smokers compared to non-smokers (**Table 2**). Given the strength of these associations, it is

interesting to note that 58 of 93 individuals homozygous for the Z allele do not have spirometrically-defined COPD ($FEV_1/FVC < 0.7$) and four out of 15 homozygous ever-smokers aged over 60 do not have spirometrically-defined COPD. We generated polygenic risk scores for lower FEV_1/FVC by weighting variants according to beta-coefficients in the SpiroMeta consortium cohorts[19]. The 58 individuals homozygous for the Z allele but without COPD have an average score percentile of 47.6 compared to 57.0 in those with COPD. This suggests that individuals homozygous for the Z allele but without COPD may have a more protective genetic profile across other genomic loci.

Diagnosis of AATD in individuals homozygous for the Z allele

We note that only 20 of 141 individuals who were genotyped ZZ homozygotes in the full UK Biobank cohort had a recorded ICD-10 coding for AATD (E880) in Hospital Episode Statistics. As this could indicate miscoding rather than misdiagnosis, we investigated further in subset of 65 homozygotes with linked primary care data. Of these 65 ZZ homozygotes, 15 had primary care (Read) codes or ICD-10 codes for AATD and 50 did not. Of the group without AATD codes, four had primary care (Read) codes or ICD-10 codes for bronchiectasis and an additional 6 had primary care (Read) codes or ICD-10 codes for COPD indicating potential misdiagnosis of AATD.

Discussion

We describe novel phenotypic associations of heterozygosity for the Z allele of *SERPINA1* from a PheWAS of UK Biobank, and also present definitive evidence that heterozygosity for the Z allele is associated with greater FEV₁ and FEV₁/FVC only in non-smokers. Our findings have implications for individuals heterozygous for the *SERPINA1* Z allele, and more generally for the study of rare variants and gene-environment interactions.

Our PheWAS examining the consequences of carrying one copy of the *SERPINA1* Z allele revealed potentially important associations with non-respiratory traits and diseases. Consistent with previous reports[12], we detected a very strong association between Z allele heterozygosity and height (with each additional Z allele adding approximately 1cm to height). The mechanism and timing of the effect of the Z allele on height is not understood. Our findings in the ALSPAC study suggest a possible influence of Z allele heterozygosity on height which is manifest from puberty, although results should be interpreted with caution given the limitations in power in ALSPAC alone. This suggests that sex hormones are a possible mediator of the height-raising effects of the Z allele and, indeed, we detected higher levels of testosterone in individuals heterozygous for the Z allele. However, heterozygosity for the Z allele is associated with increased height in males and females, whereas increased testosterone is only seen in males. Furthermore, Z allele heterozygotes also exhibit higher SHBG suggesting that the amount of free testosterone will be unchanged. IGF-I levels relate to height, but in our study the magnitude of the association was very small (less than 1% average levels) and it was a negative association. It is therefore still not clear why heterozygosity and homozygosity for the Z allele is associated with increased height.

We detected strong associations between heterozygosity for the Z allele and increased risk of gall stones and gall bladder removal. This is consistent with recent reports that the Z allele may be a risk factor for developing gallstone disease[21, 22]. The mechanism underlying this association is unclear but previous reports have suggested it may be related to liver dysfunction in AATD and/or

the composition of bile[21, 22]. We found that individuals heterozygous for the Z allele also had increased levels of alkaline phosphatase (ALP), which is characteristic of liver disease and biliary tract obstruction due to gallstones. Moreover, the Z allele is associated with elevation of alanine aminotransferase (ALT) and aspartate aminotransferase (AST). Higher than normal levels of ALT and AST are hallmarks of liver disease, and are also observed in some patients with gallbladder disease[23]. Higher bilirubin, another potential sign of liver disease, is also exhibited by Z allele carriers. Interestingly, excess bilirubin is thought to contribute to gallstone formation[24], so a causal pathway between the Z allele, liver dysfunction and gallbladder problems is possible.

Heterozygosity for the Z allele was also associated with musculoskeletal phenotypes such as reduced risk of osteoarthritis, increased risk of osteoporosis and lower bone mineral density. Calcium was increased in heterozygotes but, as albumin was also increased, free calcium may not be different in this group. A recent study showed that AAT can inhibit receptor activator of nuclear factor κ-B ligand (RANKL)-induced osteoclast formation and bone resorption[25]. As heterozygosity for the Z allele causes reduction in AAT, individuals heterozygous for the Z allele may have increased risk of osteoporosis and lower bone mineral density due to increased RANKL-induced bone resorption. Lower bone mineral density has been associated with a lower risk of osteoarthritis[26, 27].

Heterozygotes for the Z allele also had reduced risk of heart disease (even when adjusted for height) and lower blood pressure, as well as increased risk of headache consistent with one previous report suggesting cluster headaches may be more frequent in heterozygotes for the Z allele[6]. There was also a marked association between heterozygosity and reduced reticulocyte count and reticulocyte percentage which, as far as we are aware, has not been reported previously.

Homozygosity for the Z allele was strongly associated with self-reported/HES recorded alpha 1 antitrypsin deficiency and respiratory traits, but also haemoglobin concentration and haematocrit percentage, which may be driven by the associations with respiratory disease. Homozygosity was also associated with markedly higher risk of optic neuritis and pancreatitis. These associations

should be interpreted with care, especially the association with optic neuritis, as small case-numbers may have resulted in poor estimation of effect sizes.

Whilst homozygosity for the Z allele is an established cause of respiratory disease, the effect of heterozygosity on respiratory health of general populations has been less clear. Our study provides definitive data on the effects of heterozygosity for the Z allele on respiratory traits, showing that heterozygosity is associated with greater lung function in never-smokers (even after height adjustment), but not in smokers. Our results contrast with previous studies[8-11] that did not detect higher lung function in participants heterozygous for the Z allele compared to wild-type, and with studies that did not detect differential effects by smoking status[12]. There are several possible reasons for these discrepancies. First, the relatively low frequency of the Z allele meant previous studies were underpowered. Our study contained 18 times more heterozygous participants than the previous largest population-based study and 46 times more than the largest case-control study. Whilst one previous study has suggested a beneficial effect of Z allele heterozygosity on lung function[12] it nevertheless did not detect differential effects by smoking status. Again, this is probably due to power. Second, most of the previous studies were conducted in current and former smokers only[8, 9, 11], and would therefore have missed the effect of Z allele heterozygosity in non-smokers. Third, most previous studies recruited participants on the basis of their health status (as in case-control studies[8, 9]) or the health status of a family member[10, 11, 28]. These approaches can lead to ascertainment biases that might distort causal estimates. A major strength of using the UK Biobank for our study was that participants were not ascertained on the basis of having lung disease, enabling a relatively unbiased assessment of the role of the heterozygosity for the Z allele in lung function. It should be noted, however, that UK Biobank participants tend to be healthier and more highly educated than the UK population as a whole, so detrimental effects of the Z allele may be less pronounced in UK Biobank due to fewer lifestyle risk factors. Fourth, the Z allele is not present on most standard genotyping arrays and therefore high quality imputation is required to detect its effects. Furthermore, genetic studies tend to focus on the additive genetic model rather

than heterozygous or recessive models. Because we designed the Z allele into the UK Biobank array[17] and compared different genetic models, we were able to robustly examine this association in UK Biobank participants.

The biological mechanism underlying the association between heterozygosity for the Z allele and increased lung function in non-smokers is not clear. The *SERPINA1* gene encodes alpha 1 antitrypsin (AAT), a glycoprotein with an important role in inhibiting proteases, such as neutrophil elastase, which are secreted during inflammation and cause collateral tissue damage. The Z allele produces AAT with reduced anti-protease activity and a propensity to form polymers, which accumulate in liver thereby reducing the circulating levels of AAT. The polymers themselves have also been shown to be a pro-inflammatory stimulus in lung tissue[29] which further perpetuates lung inflammation and damage. Homozygosity for the Z allele is the most common cause of severe AAT deficiency whereas heterozygosity for the Z allele has been shown to result in intermediate levels of AAT (~60% of normal)[30]. One might therefore expect heterozygosity to have, if anything, a detrimental effect on lung function. There is evidence that positive selection has acted at the Z allele locus[12, 31] and mechanisms of heterozygous advantage (through increased height[12] and protection from infectious respiratory diseases by promotion of inflammatory responses[31]) have been proposed. The amplification of inflammatory response as a result of cigarette smoke may therefore provide a mechanism for eliminating this advantage in smokers. It has also been shown that smoking-induced oxidative modifications to AAT reduce its ability to inhibit neutrophil elastase and turn it into a pro-inflammatory mediator[32]. Cigarette smoke has been found to accelerate polymerisation of Z-type AAT[33], suggesting a possible mechanism whereby smoking may modify the effect of the Z allele on lung function.

We also report a novel interaction between sex and the *SERPINA1* Z allele heterozygosity on FEV₁/FVC. Women heterozygous for the Z allele exhibited greater FEV₁/FVC compared to wild-type, whereas men heterozygous for the Z allele showed no significant difference to wild-type. Previous

studies have shown that individuals with the fastest decline in lung function amongst AATD patients are more likely to be male[15]. However, the reasons why sex would appear to modify the effect of Z allele heterozygosity on lung function are not clear.

Finally, we confirm that homozygosity for the Z allele is associated with reduced lung function and increased risk of COPD and that these effects are exacerbated by smoking. These results are consistent with a recently published study in UK Biobank focused on homozygosity for the Z allele [34]. Also consistent with the Nakanishi et al. paper, we show that only a minority of individuals with the ZZ genotype have been diagnosed with AATD (as has been reported elsewhere[35, 36]), and that those without a diagnosis of AATD, bronchiectasis or COPD have a protective genetic profile at other known lung function loci.

In conclusion, we have demonstrated that heterozygosity for the Z allele is associated with previously unrecognised non-respiratory phenotypes. Further studies will be required to confirm findings in independent populations, produce accurate effect estimates, to understand the causal pathways involved, and the potential role of genetic and environmental modifiers. We have also shown that heterozygosity for the Z allele is associated with greater lung function in non-smokers. Our results demonstrate that large sample sizes are required to study the effects of rare variants, particularly when these effects depend on an environmental stimulus. The opposing directions of effect of Z allele heterozygosity and homozygosity on lung function demonstrate that the additive genetic model is not always appropriate for genetic studies of the rarer variants such as the *SERPINA1* Z allele. Our findings suggest that while individuals who are heterozygous for the Z allele may not exhibit symptoms of AAT deficiency, they may be more susceptible to smoking-induced lung disease and have altered risk of other non-respiratory conditions.

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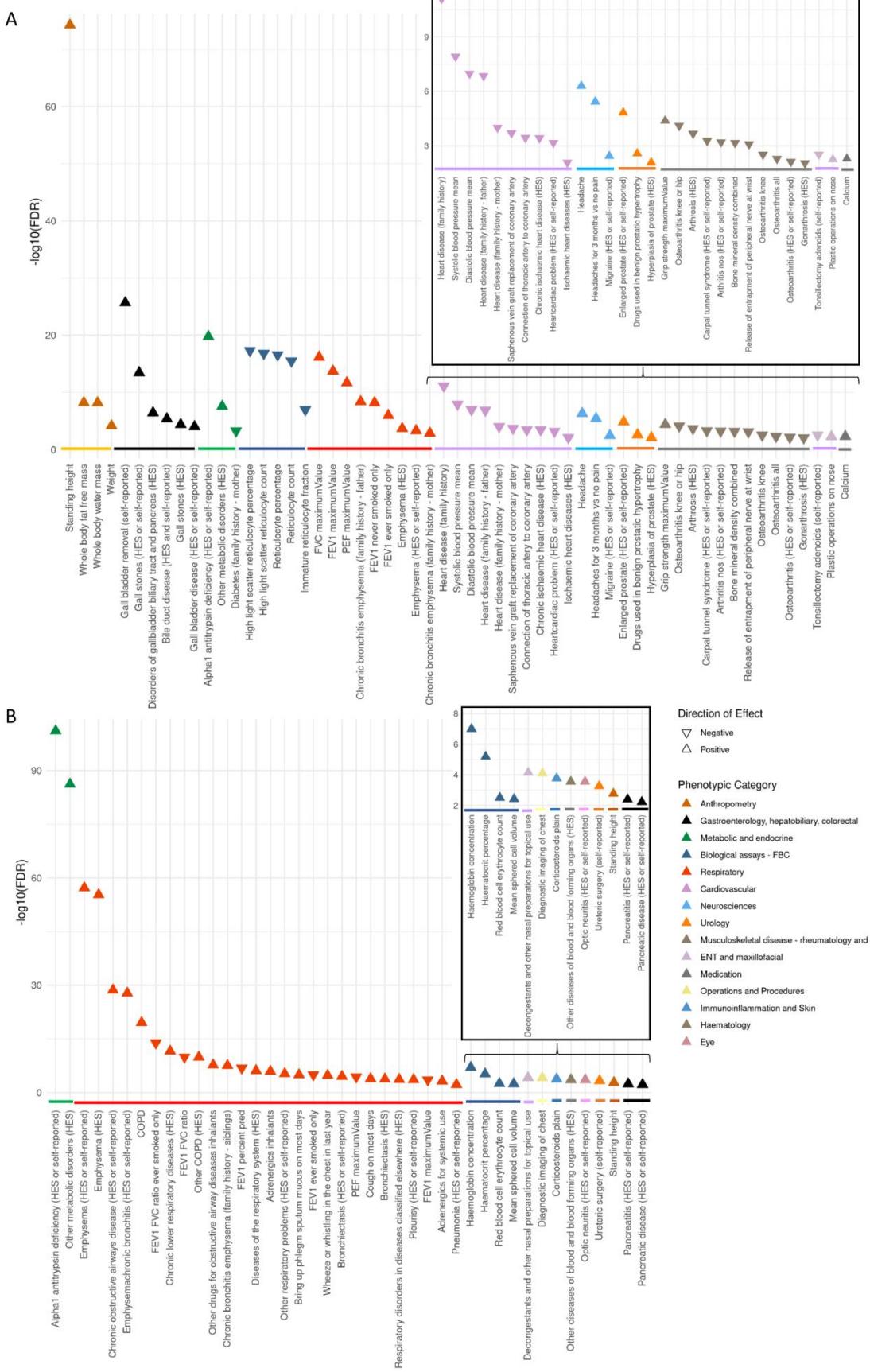
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Fig. 1. Traits associated with the *SERPINA1* Z allele in UK Biobank. Traits displayed are those with a false discovery rate <0.01 from genome-wide association study of 2411 phenotypes across 379101 UK Biobank participants using the heterozygous model for the Z allele (wild-type vs heterozygous individuals) (A) and the recessive model for the Z allele (wild-type and heterozygous individuals vs individuals homozygous for the Z allele) (B).



Online Data Supplement

Pleiotropic associations of heterozygosity for the *SERPINA1 Z* allele in the UK Biobank

Katherine A Fawcett, Kijoung Song, Guoqing Qian, Aliki-Eleni Farmaki, Richard Packer, Catherine John, Nick Shrine, Raquel Granell, Sue Ring, Nicholas J Timpson, Laura M Yerges-Armstrong, Richard Eastell, Louise V Wain, Robert A Scott, Martin D Tobin, Ian P Hall

Supplemental Subjects and Methods

ALSPAC study: original cohort description

Pregnant women resident in Avon, UK with expected dates of delivery 1st April 1991 to 31st December 1992 were invited to take part in the study. The initial number of pregnancies enrolled is 14,541 (for these at least one questionnaire has been returned or a “Children in Focus” clinic had been attended by 19/07/99). Of these initial pregnancies, there was a total of 14,676 foetuses, resulting in 14,062 live births and 13,988 children who were alive at 1 year of age.

When the oldest children were approximately 7 years of age, an attempt was made to bolster the initial sample with eligible cases who had failed to join the study originally. As a result, when considering variables collected from the age of seven onwards (and potentially abstracted from obstetric notes) there are data available for more than the 14,541 pregnancies mentioned above. The number of new pregnancies not in the initial sample (known as Phase I enrolment) that are currently represented on the built files and reflecting enrolment status at the age of 24 is 913 (456, 262 and 195 recruited during Phases II, III and IV respectively), resulting in an additional 913 children being enrolled. The phases of enrolment are described in more detail in the cohort profile paper and its update. The total sample size for analyses using any data collected after the age of seven is therefore 15,454 pregnancies, resulting in 15,589 foetuses. Of these 14,901 were alive at 1 year of age.

A 10% sample of the ALSPAC cohort, known as the Children in Focus (CiF) group, attended clinics at the University of Bristol at various time intervals between 4 to 61 months of age. The CiF group were chosen at random from the last 6 months of ALSPAC births (1432 families attended at least one clinic). Excluded were those mothers who had moved out of the area or were lost to follow-up, and those partaking in another study of infant development in Avon.

Ethical approval for the study was obtained from the ALSPAC Ethics and Law Committee and the Local Research Ethics Committees. Further details are available in the cohort profile papers[1-3]. Study data were collected and managed using REDCap electronic data capture tools[4, 5] hosted at University of Bristol. The study website contains details of all the data that is available through a fully searchable data dictionary and variable search tool:

<http://www.bristol.ac.uk/alspac/researchers/our-data/>

Informed consent for the use of data collected via questionnaires and clinics was obtained from participants following the recommendations of the ALSPAC Ethics and Law Committee at the time.

ALSPAC study: data collection

Outcome 1: Height

Longitudinal measurements of height were obtained from direct measurement in research clinics at age at 8, 15 and 24 years. Standing height was measured to the last complete millilitre by trained clinic staff.

Outcome 2: Lung function Data

Spirometry was performed according to ATS/ERS criteria[6, 7] by trained fieldworkers in a research clinic at ages 8, 15 and 24 years. All flow-volume curves were inspected post hoc for quality assurance. Lung function at ages 15 and 24 years were measured before and 15 minutes after receiving 400 µg of salbutamol[8, 9]. The highest measurement of each lung function parameter, FVC, FEV₁, forced expiratory flow, mid-expiratory phase (FEF₂₅₋₇₅), amongst the best three technically acceptable flow-volume curves was used for analyses. Post-bronchodilator lung function variables were used at age 15 and 24 years. Standardised scores (SD-scores) adjusted for sex, age and height at lung function clinic, were used as the lung function outcomes.

PheWAS: overview of study design

Our genome-wide association study (pheWAS) in UK Biobank tests association between a single genetic variant (the *SERPINA1* Z allele) and a broad range of phenotypic traits available in UK Biobank participants, including those derived from direct measurement such as height, weight, and blood biomarkers, to health conditions self-reported at an assessment centre visit or from hospital inpatient records, also called hospital episode statistics (HES) data. We used logistic regression models to test association between the Z allele and binary health outcomes, and linear regression models to test association between the Z allele and continuous traits. We used minimal adjustments for covariates in order that analyses did not inadvertently adjust for intermediates on a causal pathway or induce collider bias[10]. These models therefore included (i) age, (ii) sex, (iii) genotyping array to account for the two different genotyping arrays used to measure genetic variation in UK Biobank participants, and (iv) ancestry-based principal components to account for fine-scale population structure within UK Biobank participants of European ancestry.

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Table S1. Frequency of the *SERPINA1* Z allele in 411,002 unrelated European UK Biobank participants

Sex	Smoking status	Age group	MM	MZ	ZZ	N	M	Z	O(MM)	E(MM)	O(MZ)	E(MZ)	O(ZZ)	E(ZZ)	Chi-squared	P
All	All	All	394674	16199	129	411002	0.979979	0.020021	394674	394709.7	16199	16127.52	129	164.7394	8.073513332	0.004
	Ever-smokers	All	180774	7264	47	188085	0.98044	0.01956	180774	180799	7264	7214.075	47	71.96236	9.007913227	0.003
	Never-smokers	All	213900	8935	82	222917	0.979591	0.020409	213900	213910.9	8935	8913.299	82	92.85048	1.321368824	0.250
	All	40-59 years	219339	8852	76	228267	0.980277	0.019723	219339	219351.8	8852	8826.418	76	88.79078	1.917466848	0.166
		60+ years	175335	7347	53	182735	0.979607	0.020393	175335	175358	7347	7301.012	53	75.99421	7.2502453	0.007
	Ever-smokers	40-59 years	92580	3664	23	96267	0.980731	0.019269	92580	92592.74	3664	3638.511	23	35.7446	4.724351694	0.030
		60+ years	88194	3600	24	91818	0.980135	0.019865	88194	88206.23	3600	3575.531	24	36.23446	4.300080537	0.038
	Never-smokers	40-59 years	126759	5188	53	132000	0.979947	0.020053	126759	126759.1	5188	5187.839	53	53.08037	0.000126725	0.991
		60+ years	87141	3747	29	90917	0.979074	0.020926	87141	87151.81	3747	3725.378	29	39.81111	3.06270122	0.080
Males	All	All	182549	7409	64	190022	0.980168	0.019832	182549	182559.7	7409	7387.527	64	74.73657	1.605449841	0.205
	Ever-smokers	All	96014	3850	26	99890	0.980469	0.019531	96014	96026.11	3850	3825.788	26	38.10593	4.000702309	0.045
	Never-smokers	All	86535	3559	38	90132	0.979835	0.020165	86535	86533.65	3559	3561.701	38	36.64965	0.051822323	0.820
	All	40-59 years	98442	3880	33	102355	0.980724	0.019276	98442	98447.03	3880	3869.937	33	38.03164	0.6921198	0.405
		60+ years	84107	3529	31	87667	0.979519	0.020481	84107	84112.77	3529	3517.453	31	36.77348	0.944743965	0.331
Females	All	All	212125	8790	65	220980	0.979817	0.020183	212125	212150	8790	8739.969	65	90.01539	7.241150451	0.007
	Ever-smokers	All	84760	3414	21	88195	0.980407	0.019593	84760	84772.86	3414	3388.287	21	33.85661	5.079217263	0.024
	Never-smokers	All	127365	5376	44	132785	0.979425	0.020575	127365	127377.2	5376	5351.58	44	56.20984	2.764808602	0.096
	All	40-59 years	120897	4972	43	125912	0.979915	0.020085	120897	120904.8	4972	4956.408	43	50.79612	1.246091786	0.264
		60+ years	91228	3818	22	95068	0.979688	0.020312	91228	91245.22	3818	3783.556	22	39.22204	7.878858049	0.005
Males	Ever-smokers	40-59 years	45844	1762	9	47615	0.981308	0.018692	45844	45851.64	1762	1746.729	9	16.63551	3.639395806	0.056
		60+ years	50170	2088	17	52275	0.979703	0.020297	50170	50174.53	2088	2078.931	17	21.5346	0.994835197	0.319
	Never-smokers	40-59 years	52598	2118	24	54740	0.980216	0.019784	52598	52595.43	2118	2123.147	24	21.42654	0.321690548	0.571
		60+ years	33937	1441	14	35392	0.979247	0.020753	33937	33938.24	1441	1438.513	14	15.24328	0.105749132	0.745
Females	Ever-smokers	40-59 years	46736	1902	14	48652	0.980165	0.019835	46736	46741.14	1902	1891.719	14	19.14053	1.437020728	0.231
		60+ years	38024	1512	7	39543	0.980705	0.019295	38024	38031.72	1512	1496.555	7	14.72243	4.211647147	0.040
	Never-smokers	40-59 years	74161	3070	29	77260	0.979757	0.020243	74161	74163.66	3070	3064.679	29	31.66057	0.232914036	0.629
		60+ years	53204	2306	15	55525	0.978964	0.021036	53204	53213.57	2306	2286.861	15	24.56955	3.88912281	0.049

Table S2. Phenome-wide association study results for SERPINA1 Z allele heterozygosity in UK Biobank

Category	Phenotype	Effect allele	N	Cases	Controls	OR	Beta	SE	I95	U95	P	FDR
Anthropometry	Standing height	T	378103	NA	NA	0.154838	0.008263	0.138642	0.171034	2.42E-78	5.84E-75	
Operations and Procedures	Gall bladder removal (self-reported)	T	378957	14872	364229	1.51	0.412834	0.036632	1.41	1.62	1.85E-29	2.23E-26
Respiratory	Alpha1 antitrypsin deficiency (HES and self-reported)	T	378957	223	378878	5.82	1.76184	0.176835	4.12	8.24	2.21E-23	1.77E-20
Biological assays	High light scatter reticulocyte percentage	T	361631	NA	NA	NA	-0.07962	0.008511	-0.0963	-0.06293	8.41E-21	5.07E-18
Biological assays	High light scatter reticulocyte count	T	361630	NA	NA	NA	-0.07841	0.008514	-0.0951	-0.06173	3.26E-20	1.57E-17
Biological assays	Reticulocyte percentage	T	361630	NA	NA	NA	-0.07516	0.008517	-0.0985	-0.05847	1.09E-18	3.29E-16
Respiratory	FVC maximumValue	T	286064	NA	NA	0.086208	0.009563	0.067463	0.104952	1.98E-19	6.82E-17	
Biological assays	Reticulocyte count	T	361630	NA	NA	NA	-0.07516	0.008517	-0.0985	-0.05847	1.09E-18	3.29E-16
Respiratory	FVC maximumValue strict*	T	221584	NA	NA	NA	-0.07775	0.008515	-0.09443	-0.06106	6.82E-20	2.74E-17
Respiratory	FEV1 maximumValue	T	286064	NA	NA	0.079708	0.009571	0.06095	0.098468	8.21E-17	1.98E-14	
Digestive system	Gall stones (HES and self-reported)	T	378957	16555	362546	1.35	0.298659	0.036235	1.26	1.45	1.69E-31	3.70E-31
Respiratory	FEV1 maximumValue strict	T	221584	NA	NA	NA	0.088488	0.010886	0.067152	0.109823	4.33E-16	8.70E-14
Respiratory	PEF maximumValue	T	286064	NA	NA	0.073969	0.009581	0.055189	0.092748	1.16E-14	2.15E-12	
Family history	Heart disease (family history)	T	378957	NA	NA	NA	-0.06269	0.008312	-0.0798	-0.0464	4.63E-14	7.96E-12
Respiratory	PEF maximumValue strict	T	221584	NA	NA	NA	0.077439	0.0109	0.056074	0.098803	1.21E-12	1.94E-10
Family history	Chronic bronchitis emphysema (family history - father)	T	343458	37574	360618	1.19	0.17499	0.026529	1.13	1.26	2.87E-11	4.32E-09
Anthropometry	Whole body fat free mass	T	372298	NA	NA	0.055154	0.008368	0.038752	0.071555	4.37E-11	6.19E-09	
Anthropometry	Whole body water mass	T	372328	NA	NA	0.055014	0.008368	0.038611	0.071416	4.90E-11	6.54E-09	
Respiratory	FEV1 never smoked only	T	109805	NA	NA	0.10136	0.015436	0.071105	0.131615	5.16E-11	5.64E-09	
Cardiovascular	Systolic blood pressure mean	T	357107	NA	NA	NA	-0.05519	0.008538	-0.07192	-0.03846	1.02E-10	1.23E-08
Metabolic	Other metabolic disorders (HES)	T	378957	309	378792	3.18	0.15769	0.182869	2.22	4.55	2.44E-10	2.80E-08
Respiratory	FEV1 never smoked only strict	T	84245	NA	NA	NA	0.11120	0.017603	0.067689	0.145791	2.58E-10	2.82E-08
Cardiovascular	Diastolic blood pressure mean	T	357110	NA	NA	NA	-0.05215	0.008539	-0.06889	-0.03541	1.01E-09	1.06E-07
Biological assays	Immature reticulocyte fraction	T	361630	NA	NA	NA	-0.05186	0.008503	-0.06852	-0.03519	1.07E-09	1.07E-07
Family history	Heart disease (family history - father)	T	343458	109130	234462	0.89	-0.11598	0.019175	0.858	0.925	1.46E-09	1.41E-07
Summary	Disorders of gallbladder biliary tract and pancreas (HES)	T	378957	16365	362736	1.25	0.220688	0.037509	1.16	1.34	4.02E-09	3.72E-07
Neurosciences	Headache	T	378087	81591	296640	1.12	0.116480	0.019992	1.08	1.17	5.66E-09	5.05E-07
Respiratory	FEV1 ever smoked only	T	175212	NA	NA	NA	0.069583	0.012235	0.045603	0.093562	1.29E-06	1.11E-06
Respiratory	FEV1 ever smoked only strict	T	136671	NA	NA	NA	0.07722	0.013884	0.050508	0.104932	2.17E-08	1.80E-06
Neurosciences	Headaches for 3 months vs no pain	T	330405	33891	296640	1.17	0.154784	0.02832	1.1	1.23	4.61E-08	3.71E-06
Digestive system	Bile duct disease (HES and self-reported)	T	378957	13856	362545	1.25	0.220445	0.040543	1.15	1.35	5.42E-08	4.21E-06
Genitourinary	Enlarged prostate (HES and self-reported)	T	378957	13062	363039	1.26	0.228012	0.043815	1.15	1.37	1.95E-07	1.47E-05
Musculoskeletal	Grip strength maximumValue	T	378178	NA	NA	NA	0.041545	0.008305	0.025266	0.057824	5.67E-04	4.14E-05
Digestive system	Cholelithiasis (HES)	T	378957	12988	366113	1.23	0.209584	0.041986	1.14	1.34	5.98E-07	4.24E-05
Anthropometry	Weight	T	377835	NA	NA	NA	0.04066	0.008326	0.02434	0.05698	1.04E-06	7.18E-05
Musculoskeletal	Osteoarthritis knee or hip	T	339483	27422	312194	0.85	-0.16799	0.03457	0.79	0.905	1.18E-06	7.88E-05
Family history	Heart disease (family history - mother)	T	357389	69487	288042	0.898	-0.10794	0.024261	0.859	0.938	1.54E-06	9.94E-05
Digestive system	Gall bladder disease (HES and self-reported)	T	378957	13958	365143	1.22	0.159592	0.040812	1.12	1.32	1.57E-06	9.94E-05
Operations and Procedures	Saphenous vein graft replacement of coronary artery	T	378957	3223	357878	0.582	-0.54089	0.116223	0.464	0.731	3.26E-06	0.002001
Summary	Arthrosis (HES)	T	378957	40307	338794	0.876	-0.13213	0.02855	0.829	0.927	3.69E-06	0.00217
Respiratory	Emphysema (HES)	T	378957	1571	377530	1.63	0.48683	0.105085	1.32	2	3.61E-06	0.00217
Operations and Procedures	Connection of thoracic artery to coronary artery	T	378957	3408	375693	0.607	-0.49996	0.110758	0.488	0.754	6.36E-06	0.00365
Cardiovascular	Chronic ischaemic heart disease (HES)	T	378957	22951	365150	0.842	-0.17163	0.038103	0.782	0.908	6.66E-06	0.00373
Respiratory	Emphysema (HES and self-reported)	T	378957	1662	377439	1.58	0.458594	0.103436	1.29	1.94	9.27E-06	0.00507
Musculoskeletal	Carpal tunnel syndrome (HES and self-reported)	T	378957	9101	370000	0.764	-0.26947	0.060982	0.678	0.861	9.92E-06	0.00531
Family history	Diabetes (family history - mother)	T	357389	32382	325147	0.871	-0.1384	0.031439	0.819	0.926	1.07E-05	0.00562
Musculoskeletal	Arthritis nos (HES and self-reported)	T	378957	13143	365958	0.804	-0.21859	0.05	0.729	0.886	1.23E-05	0.00651
Cardiovascular	Heartcardiac problem (HES and self-reported)	T	378957	25675	353426	0.855	-0.15262	0.035911	0.797	0.918	1.36E-05	0.00683
Musculoskeletal	BMD Combined	T	338046	NA	NA	NA	-0.03816	0.008784	-0.05537	-0.02094	1.40E-05	0.00689
Operations and Procedures	Release of entrapment of peripheral nerve at wrist	T	378957	8745	370356	0.765	-0.26734	0.06217	0.678	0.865	1.71E-05	0.00822
Family history	Chronic bronchitis emphysema (family history - mother)	T	357389	20553	336976	1.16	0.145529	0.0349	1.08	1.24	3.05E-05	0.00144
Medication	Drugs used in benign prostatic hypertrophy	T	378957	6797	372304	1.26	0.231243	0.057487	1.13	1.41	5.76E-05	0.002667
ENT	Tonsillectomy adenoids (self-reported)	T	378957	59321	319780	0.91	-0.09411	0.023631	0.869	0.953	6.82E-05	0.00304
Musculoskeletal	Osteoarthritis knee	T	330283	18217	312194	0.847	-0.16100	0.041654	0.781	0.919	6.72E-05	0.00304
Neurosciences	Migraine (HES and self-reported)	T	378957	12905	366196	1.18	0.168240	0.042774	1.09	1.29	8.38E-05	0.00366
Medication	Calcium	T	378957	6050	370351	1.26	0.232247	0.040643	1.12	1.42	0.00122	0.005208
Musculoskeletal	Osteoarthritis all	T	370576	58523	312194	0.911	-0.09284	0.024179	0.869	0.956	0.000123	0.005208
Operations and Procedures	Plastic operations on nose	T	378957	781	378320	1.74	0.535883	0.145181	1.31	2.31	0.00136	0.00563
Musculoskeletal	Osteoarthritis (HES and self-reported)	T	378957	320578	0.914	-0.09013	0.024107	0.872	0.958	0.00185	0.007556	
Summary	Ischaemic heart diseases (HES)	T	378957	27652	351449	0.88	-0.12720	0.034354	0.823	0.942	0.002011	0.00835
Genitourinary	Hyperplasia of prostate (HES)	T	378957	10244	368857	1.2	0.182831	0.049299	1.09	1.32	0.002020	0.00835
Musculoskeletal	Gonarthrosis (HES)	T	378957	18217	360884	0.859	-0.15248	0.041427	0.792	0.931	0.002033	0.009034
Operations and Procedures	Excision of gall bladder	T	378957	12079	367022	1.18	0.161564	0.044348	1.08	1.28	0.00269	0.010301
Neurosciences	Trapped nerve/compressed nerve (HES and self-reported)	T	378957	15824	363277	0.851	-0.16133	0.044443	0.78	0.928	0.00283	0.010665
Anthropometry	Body mass index BMI	T	377691	NA	NA	NA	-0.03011	0.008325	-0.04643	-0.01379	0.00299	0.011072
Digestive system	Pancreatitis (HES and self-reported)	T	378957	2304	376797	1.4	0.333003	0.092432	1.16	1.67	0.003015	0.014782
Digestive system	Pancreatic disease (HES and self-reported)	T	378957	2413	376688	1.38	0.323164	0.090644	1.16	1.65	0.003064	0.013036
Musculoskeletal	Disc problem (HES and self-reported)	T	378957	8039	371062	0.797	-0.22742	0.063845	0.703	0.903	0.003668	0.013036
Operations and Procedures	Diagnostic percutaneous operations on liver	T	378957	1755	377346	1.45	0.370142	0.104367	1.18	1.78	0.00309	0.013432
Operations and Procedures	Endoscopic incision of sphincter of Oddi	T	378957	1801	377300	1.44	0.364936	0.102888	1.18	1.76	0.00309	0.013432
Family history	Chronic bronchitis emphysema (family history)	T	378957	NA	NA	NA	0.029214	0.008303	0.01294	0.045489	0.004434	0.014782
Metabolic	Disorders of lipoprotein metabolism and other lipidaemias (HES)	T	378957	32636	346465	0.896	-0.10962	0.031424	0.843	0.953	0.004086	0.016256
Summary	Diseases of male genital organs (HES)	T	378957	31456	365143	0.896	-0.10962	0.031424	0.843	0.953	0.004086	0.016256
Operations and Procedures	Contrast radiology of heart	T	378957	21382	357719	0.875	-0.13354	0.038527	0.811	0.944	0.000528	0.017258
Respiratory	Spontaneous pneumothorax/recurrent pneumothorax (HES and self-reported)	T	378957	1034	378067	1.58	0.45489	0.131436	1.22	2.04	0.000544	0.017258
Other	Sleeplessness insomnia	T	378457	NA	NA	NA	-0.02884	0.008317	-0.04511	-0.01251	0.00532	0.017258
Musculoskeletal	Other intervertebral disc disorders (HES)	T	378957	6634	372467	0.785	-0.24172	0.070648	0.684	0.902	0.006623	0.019484
NA	Myocardial infarction	T	378957	13488	365613	0.848	-0.16431	0.048807	0.771	0.934	0.00761	0.023504
Genitourinary	Bph benign prostatic hypertrophy (HES and self-reported)	T</td										

Operations and Procedures	Colectomy hemicolecotomy (self-reported)	T	378957	1636	377465	1.38	0.322367	0.109432	1.11	1.71	0.003221	0.067473
Other	Alcohol dependency (HES and self-reported)	T	378957	5185	373916	0.79	-0.2368	0.081294	0.673	0.925	0.003581	0.074372
Eye	Iridocyclitis (HES)	T	378957	333	378768	1.85	0.616403	0.212239	1.22	2.81	0.003681	0.075787
Mental health	Deliberate selfharm/suicide attempt (HES and self-reported)	T	378957	2635	376466	0.71	-0.34251	0.11833	0.563	0.895	0.003797	0.077525
Operations and Procedures	Attention to stent in organ NOC	T	378957	390	378711	1.78	0.576722	0.199804	1.2	2.63	0.003896	0.078877
Mental health	Mental and behavioural disorders due to use of alcohol (HES)	T	378957	4907	374194	0.786	-0.24022	0.083657	0.668	0.927	0.004086	0.082021
Cardiovascular	Acute myocardial infarction (HES)	T	378957	7305	371796	0.827	-0.19002	0.066251	0.726	0.942	0.004129	0.082198
Biological assays	Platelet count	T	367720	NA	NA	0.024136	0.008434	0.007605	0.040667	0.004214	0.083207	
Operations and Procedures	Prostate operation (self-reported)	T	378957	859	378242	1.51	0.412188	0.144266	1.14	2	0.004275	0.083721
Operations and Procedures	Other therapeutic on outlet of male bladder	T	378957	850	378251	1.52	0.418146	0.146554	1.14	2.02	0.004328	0.083785
Respiratory	FEV1 FVC ratio never smoked only	T	109805	NA	NA	0.044085	0.015459	0.013786	0.074384	0.004347	0.083785	
Summary	Nerve nerve root and plexus disorders (HES)	T	378957	16103	362998	0.884	-0.12322	0.043349	0.812	0.962	0.004477	0.085598
Infectious disease	Viral and other specified intestinal infections (HES)	T	378957	770	378331	1.54	0.432166	0.152369	1.14	2.08	0.004561	0.086571
Summary	Diseases of liver (HES)	T	378957	4603	374498	1.22	0.198064	0.069983	1.06	1.4	0.004652	0.08756
Immuno-inflammation	Sarcoidosis (HES)	T	378957	489	378612	1.68	0.517463	0.183154	1.17	2.4	0.004724	0.088215
Genitourinary	Prostate problem not cancer (HES and self-reported)	T	378957	11913	367188	1.14	0.132442	0.046957	1.04	1.25	0.004795	0.088855
Cancer	Myeloid leukaemia (cancer register)	T	378957	321	378780	1.84	0.608261	0.216737	1.2	2.81	0.005009	0.091416
Respiratory	Emphysematronic bronchitis (HES and self-reported)	T	378957	6338	372763	1.19	0.170002	0.060587	1.05	1.33	0.004997	0.091416
Operations and Procedures	Approach to organ through other opening	T	378957	1441	377660	0.623	-0.47372	0.169005	0.447	0.867	0.005063	0.091559
Operations and Procedures	Radiology with contrast	T	378957	12447	366654	1.13	0.23777	0.044189	1.04	1.23	0.005093	0.091559
Musculoskeletal	Other inflammatory spondylopathies (HES)	T	378957	1156	377945	0.58	-0.545464	0.195	0.396	0.85	0.005222	0.093177
Gynaecology and Obstetrics	Breast cysts (HES and self-reported)	T	378957	1673	377428	1.36	0.30548	0.109599	1.09	1.68	0.005316	0.094158
Cancer	Prostate cancer (self-reported)	T	378957	2722	376379	0.733	-0.31025	0.11225	0.588	0.914	0.005711	0.100429
Summary	Spondylopathies (HES)	T	378957	10706	368395	0.863	-0.14751	0.053523	0.777	0.958	0.005851	0.102142
Infectious disease	Helicobacter pylori (HES)	T	378957	748	378353	0.476	-0.7432	0.269943	0.28	0.807	0.005902	0.10284
Other	Poisoning by nonopiod analgesics antipyretics and antirheumatics (HES)	T	378957	1567	377534	0.643	-0.44102	0.160457	0.47	0.881	0.005986	0.10300
Digestive system	Heaptic failure (HES)	T	378957	298	378803	1.85	0.616268	0.22666	1.19	2.89	0.00665	0.111113
Neurosciences	Headaches not migraine (self-reported)	T	378957	3224	375877	1.25	0.22324	0.082105	1.06	1.47	0.006549	0.111113
Medication	Beta blocking agents thiazides and other diuretics	T	378957	15312	363789	0.886	-0.20409	0.046993	0.812	0.967	0.006829	0.114845
Operations and Procedures	Therapeutic endoscopic operations on semilunar cartilage	T	378957	12492	366609	0.875	-0.13377	0.049482	0.794	0.964	0.006865	0.114845
Musculoskeletal	Coxarthrosis (HES)	T	378957	10780	368321	0.867	-0.14229	0.053153	0.782	0.963	0.007042	0.123432
Summary	Other dorsopathies (HES)	T	378957	18099	361002	0.896	-0.10932	0.040871	0.827	0.971	0.007481	0.123434
Cardiovascular	Pulmonary embolism dvt (HES and self-reported)	T	378957	5241	373860	1.19	0.175707	0.065818	1.05	1.36	0.007595	0.124459
Medication	Antacids	T	378957	6182	372919	1.18	0.163399	0.061433	1.04	1.33	0.007819	0.125585
ENT	Cholesteatoma of middle ear (HES)	T	378957	393	378708	1.72	0.540087	0.20323	1.15	2.56	0.007872	0.125585
Neurosciences	Knee pain	T	378087	86052	292179	0.948	-0.05371	0.020201	0.911	0.986	0.007846	0.125585
Cardiovascular	Venous thromboembolic disease (HES and self-reported)	T	378957	2799	376302	0.747	-0.29217	0.111191	0.6	0.928	0.008598	0.132773
Haematology	Diseases of spleen (HES)	T	378957	463	378638	0.368	-0.99927	0.381005	0.174	0.777	0.008723	0.133208
Digestive system	Stomach disorder (HES and self-reported)	T	378957	7348	371753	1.16	0.148799	0.056746	1.04	1.3	0.008737	0.133208
Genitourinary	Other disorders of bladder (HES)	T	378957	8086	371015	1.19	0.141738	0.054301	1.04	1.28	0.009048	0.137093
Genitourinary	Recurrent and persistent haematuria (HES)	T	378957	11504	378744	1.51	0.30874	0.165436	1.11	2.13	0.009205	0.137727
Digestive system	Liverbiliarypancreas problem (HES and self-reported)	T	378957	4283	374818	1.21	0.189746	0.072814	1.05	1.39	0.009163	0.137727
Other	Toxic effect of alcohol (HES)	T	378957	912	378189	0.556	-0.58738	0.226365	0.357	0.866	0.009463	0.139857
Operations and Procedures	Primary decompression operations on lumbar spine	T	378957	2461	376640	0.735	-0.30743	0.118402	0.583	0.927	0.009419	0.139857
Genitourinary	Urinary tract infectionkidney infection (HES and self-reported)	T	378957	12655	366446	1.12	0.114096	0.044252	1.03	1.22	0.009928	0.145834
Summary	Certain disorders involving the immune mechanism (HES)	T	378957	976	378125	1.43	0.35696	0.139142	1.09	1.88	0.010305	0.146888
Other	Poisoning by psychotropic drugs (HES)	T	378957	1062	378039	0.594	-0.52085	0.20269	0.399	0.884	0.010179	0.146888
Operations and Procedures	Total prosthetic replacement of hip joint not using cement	T	378957	4094	375007	0.797	-0.22684	0.088399	0.67	0.948	0.010285	0.146888
NA	STEMI	T	378957	3811	375290	0.787	-0.24015	0.093535	0.655	0.945	0.010245	0.146888
Family history	Stroke (family history)	T	378957	NA	NA	-0.02131	0.008301	-0.03758	-0.00504	0.010256	0.146888	
Digestive system	Other diseases of stomach and duodenum (HES)	T	378957	6601	372500	1.16	0.152702	0.05963	1.04	1.31	0.010442	0.147516
Cancer	Mal neo liver (cancer register)	T	378957	217	378884	1.95	0.665385	0.260136	1.17	3.24	0.010533	0.147516
Cardiovascular	Leg pain on walking	T	125352	27294	98122	0.912	-0.09163	0.035811	0.851	0.979	0.010522	0.147516
Genitourinary	Iga nephropathy (HES and self-reported)	T	378957	666	378435	1.52	0.421179	0.165388	1.1	2.11	0.010878	0.151469
Summary	Diabetes mellitus (HES)	T	378957	17982	361119	0.901	-0.1043	0.04105	0.831	0.976	0.011059	0.153109
Operations and Procedures	Replacement of hip joint	T	378957	1139	377962	1.38	0.32503	0.128284	1.08	1.78	0.011169	0.153753
Metabolic	Unspecified diabetes mellitus (HES)	T	378957	2120	376981	0.721	-0.32702	0.129931	0.56	0.929	0.011443	0.156626
Operations and Procedures	Other operations on sheath of tendon	T	378957	2908	376193	0.764	-0.26938	0.107477	0.619	0.943	0.012197	0.16600
Eye	Cataract (HES and self-reported)	T	378957	20791	358310	1.09	0.089131	0.03581	1.02	1.17	0.012809	0.173353
Symptoms	Ascites (HES)	T	378957	1446	377655	1.34	0.293798	0.118234	1.06	1.69	0.01296	0.174413
Summary	HESCH Diseases of the musculo and connec tissue (HES)	T	378957	10073	278338	0.953	-0.04772	0.019242	0.918	0.99	0.013133	0.175476
Operations and Procedures	Extracorporeal fragmentation of calculus of kidney	T	378957	1421	377680	0.665	-0.40837	0.164748	0.481	0.918	0.013184	0.175476
Family history	Diabetes (family history : sibling)	T	300905	24485	276544	0.916	-0.0876	0.03539	0.855	0.982	0.013133	0.176218
Cardiovascular	Mean carotid IMT intima medial thickness at 120 degrees	T	378957	1871	NA	NA	0.309672	0.125236	0.064209	0.555135	0.013409	0.176514
Summary	Disorders of lens (HES)	T	378957	18482	360619	1.1	0.092862	0.037748	1.02	1.18	0.013892	0.181873
Cardiovascular	Other peripheral vascular diseases (HES)	T	378957	3304	375797	0.782	-0.24591	0.100658	0.642	0.953	0.014563	0.188614
Summary	Mal neo lymphoid haematopoietic (cancer register)	T	378957	3145	375956	1.23	0.204025	0.083455	1.04	1.44	0.014496	0.188614
Summary	Mood affective disorders (HES)	T	378957	11549	367552	0.883	-0.12471	0.051154	0.799	0.976	0.014768	0.19025
Summary	Other diseases of urinary system (HES)	T	378957	26755	352346	1.08	0.077108	0.031658	1.02	1.15	0.014867	0.190498
Musculoskeletal	Joint pain (HES and self-reported)	T	378957	8344	370757	0.863	-0.14717	0.060491	0.767	0.972	0.014978	0.190915
Cardiovascular	Atherosclerosis (HES)	T	378957	1127	377974	0.633	-0.45744	0.188545	0.437	0.916	0.015259	0.192458
Family history	Parkinson's disease (family history)	T	378957	NA	NA	-0.02011	0.008287	-0.03635	-0.00387	0.015226	0.192458	
Haematology	Iron deficiency anaemia (HES)	T	378957	6915	372186	0.851	-0.16149	0.060823	0.746	0.97	0.01566	0.196488
Eye	Intra ocular pressure corneal compensated left	T	81021	NA	NA	-0.0429	0.017772	-0.07774	-0.00807	0.015777	0.196282	
Neurosciences	Myasthenia gravis (HES and self-reported)	T	378957	206	378895	1.91	0.647126	0.268443	1.13	3.23	0.015924	0.197732
Summary	Other forms of heart disease (HES)	T	378957	26042	353059	0.921	-0.0827	0.034399	0.861	0.985	0.016213	0.198234
Digestive system	Other diseases of liver (HES)	T	378957	3122	375979	1.22	0.202172	0.084445	1.04	1.44	0.01666	0.198234
Immuno-inflammation	Nail disorders (HES)	T	378957	1050	378051	1.3						

Medication	Beta blocking agents other combinations	T	378957	42301	336800	0.939	-0.0634	0.027583	0.889	0.991	0.021524	0.222119
Musculoskeletal	Spondylosis (HES)	T	378957	6891	372210	0.858	-0.15309	0.066639	0.753	0.978	0.021599	0.222119
Operations and Procedures	Total excision of breast	T	378957	4061	375040	0.816	-0.20366	0.08859	0.686	0.97	0.021512	0.222119
Musculoskeletal	Cervical spondylosis (HES and self-reported)	T	378957	4865	374236	0.831	-0.18157	0.080702	0.709	0.973	0.02176	0.222119
ENT	Vertigo (HES and self-reported)	T	378957	697	378404	1.45	0.374627	0.163201	1.06	2	0.021705	0.222119
Mental health	Depressive episode (HES)	T	378957	10665	368436	0.886	-0.12115	0.053093	0.798	0.983	0.022499	0.224897
Operations and Procedures	Other operations on female perineum	T	378957	887	378214	1.4	0.336563	0.147478	1.05	1.87	0.022482	0.224897
Operations and Procedures	Suture of organ NOC	T	378957	640	378461	1.47	0.387486	0.169668	1.06	2.05	0.022383	0.224897
Cardiovascular	Aortic stenosis (HES and self-reported)	T	378957	1728	377373	0.722	-0.326	0.142641	0.546	0.955	0.022287	0.224897
Family history	Diabetes (family history)	T	378957	NA	NA	NA	-0.01894	0.008298	-0.03524	-0.00271	0.022191	0.224897
Summary	Disorders of psychological development (HES)	T	378957	287	378814	1.72	0.540326	0.237718	1.08	2.74	0.023028	0.225361
Eye	Other disorders of cornea (HES)	T	378957	582	378519	1.5	0.403179	0.177055	1.06	2.12	0.022776	0.225361
Digestive system	Other diseases of anus and rectum (HES)	T	378957	21218	357883	0.918	-0.08547	0.037626	0.853	0.988	0.023107	0.225361
Cardiovascular	Cardiac ablation (self-reported)	T	378957	269	378832	0.266	-1.32307	0.580736	0.0853	0.831	0.022711	0.225361
Digestive system	Bile duct obstruction ascending cholangitis (HES and self-reported)	T	378957	936	378165	1.39	0.327967	0.144347	1.05	1.84	0.023082	0.225361
Musculoskeletal	Spinal stenosis (HES and self-reported)	T	378957	3421	375680	0.803	-0.21975	0.096561	0.664	0.97	0.022864	0.225361
Musculoskeletal	Osteoporosis without pathological fracture (HES)	T	378957	5396	373705	1.16	0.149848	0.066234	1.02	1.32	0.023672	0.227967
Neurosciences	Knee pain for 3 months vs no pain	T	354567	62522	292179	0.949	-0.05188	0.022958	0.908	0.993	0.023847	0.227967
Operations and Procedures	Surgical arrest of bleeding from internal nose	T	378957	782	378319	1.42	0.352475	0.155576	1.05	1.93	0.023475	0.227967
Cardiovascular	Deep venous thrombosis dvt (HES and self-reported)	T	378957	8917	370184	1.12	0.171595	0.052031	1.02	1.25	0.023816	0.227967
Musculoskeletal	Disc degeneration (HES and self-reported)	T	378957	2914	376187	0.787	-0.23293	0.105768	0.64	0.969	0.023070	0.227967
Digestive system	Fibrosis and cirrhosis of liver (HES)	T	378957	756	378345	1.43	0.358405	0.159121	1.05	1.95	0.024296	0.231344
Operations and Procedures	Transurethral resection bladder tumour turbt (self-reported)	T	378957	458	378643	1.55	0.439353	0.195514	1.06	2.28	0.024629	0.231344
Musculoskeletal	Back pain (HES and self-reported)	T	378957	14806	364295	0.904	-0.10073	0.04484	0.828	0.987	0.024679	0.231344
Cancer	Mal neo brain (cancer register)	T	378957	407	378694	1.59	0.463518	0.206728	1.06	2.38	0.024951	0.234792
Family history	Heart disease (family history - sibling)	T	300905	29868	271161	0.93	-0.07256	0.03257	0.872	0.991	0.025883	0.241679
Operations and Procedures	Transluminal operations on varicose vein of leg	T	378957	1198	377903	1.34	0.291341	0.130754	1.04	1.73	0.02587	0.241679
Operations and Procedures	Carpal tunnel surgery (self-reported)	T	378957	3953	375148	0.821	-0.19666	0.088723	0.69	0.977	0.026653	0.24229
Other	Hair balding pattern	T	173207	117813	54566	0.943	-0.0587	0.026445	0.895	0.993	0.026443	0.24229
Other	Pattern 1 f	T	173207	55466	117813	1.06	0.058694	0.026445	1.01	1.12	0.026443	0.24229
Other	Pattern 2 f	T	173207	39959	133220	0.935	-0.06694	0.030127	0.882	0.992	0.026173	0.24229
Operations and Procedures	Punch biopsy of skin	T	378957	3326	375775	1.2	0.182491	0.082309	1.02	1.41	0.026612	0.24229
Anthropometry	Hip circumference	T	378245	NA	NA	NA	0.018466	0.008323	0.002154	0.034778	0.026501	0.24229
Eye	Intra ocular pressure Goldmann correlated right	T	81141	NA	NA	NA	-0.0394	0.017737	-0.07416	-0.00464	0.02632	0.24229
Eye	Cataract	T	124323	11723	112653	1.11	0.106854	0.048289	1.01	1.22	0.026911	0.243718
Operations and Procedures	Introduction of abortifacient into uterine cavity	T	378957	623	378478	0.55	-0.159784	0.27171	0.323	0.937	0.027787	0.250711
Summary	Other disorders of kidney and ureter (HES)	T	378957	2376	376725	1.23	0.210246	0.095713	1.02	1.49	0.028047	0.251173
Operations and Procedures	Other local flap of skin	T	378957	1956	377145	1.26	0.229887	0.104639	1.03	1.54	0.028024	0.251173
Musculoskeletal	Spine arthritisspondylitis (HES and self-reported)	T	378957	10404	368697	0.889	-0.118	0.053765	0.8	0.987	0.02818	0.251316
Musculoskeletal	Falls in the last year	T	378025	NA	NA	NA	-0.01827	0.008331	-0.0346	-0.00195	0.028272	0.251316
Cardiovascular	Mitral valve prolapse (HES and self-reported)	T	378957	545	378556	1.49	0.400175	0.182563	1.04	2.13	0.028381	0.251361
Operations and Procedures	Block dissection of lymph nodes	T	378957	5157	373944	0.844	-0.16956	0.077553	0.725	0.983	0.028788	0.250426
Summary	Other diseases of intestines (HES)	T	378957	59649	319452	0.95	-0.05102	0.023423	0.908	0.995	0.029384	0.255654
Summary	Disorders of bone density and structure (HES)	T	378957	8188	370913	1.13	0.118836	0.05463	1.01	1.25	0.029609	0.255654
Digestive system	Other diseases of pancreas (HES)	T	378957	1002	378099	1.36	0.308307	0.141497	1.03	1.8	0.02934	0.255654
Genitourinary	Other disorders of kidney and ureter (HES)	T	378957	2178	376923	1.24	0.121907	0.099643	1.02	1.51	0.029492	0.255654
Operations and Procedures	Approach to organ under image control	T	378957	45067	334034	0.944	-0.05755	0.026446	0.896	0.994	0.029543	0.255654
Musculoskeletal	Sjogrens syndromesicca syndrome (HES and self-reported)	T	378957	614	378487	1.46	0.379649	0.174507	1.04	2.06	0.025989	0.255654
Musculoskeletal	Raynauds phenomenondisease (HES and self-reported)	T	378957	1315	377786	0.696	-0.3631	0.167047	0.501	0.965	0.029731	0.255793
Summary	Mal neo of male genital organs (cancer register)	T	378957	7046	372055	0.867	-0.14328	0.066141	0.761	0.986	0.030286	0.259644
Summary	Metabolic disorders (HES)	T	378957	39911	339190	0.941	-0.0609	0.028231	0.89	0.994	0.030983	0.260061
Metabolic	Non insulin dependent diabetes mellitus (HES)	T	378957	16601	362500	0.912	-0.0917	0.04244	0.84	0.992	0.030726	0.260061
Genitourinary	Other disorders of urinary system (HES)	T	378957	17515	361586	1.09	0.082911	0.038428	1.01	1.17	0.030962	0.260061
Operations and Procedures	Other excision of breast	T	378957	33253	369578	0.885	-0.1298	0.056461	0.792	0.989	0.030739	0.260061
Family history	Prostate cancer (family history)	T	174646	NA	NA	NA	0.026453	0.012256	0.002431	0.050474	0.030902	0.260061
Biological assays	Mean platelet thrombocyte volume	T	367716	NA	NA	NA	-0.02181	0.008444	-0.03476	-0.00167	0.030918	0.260061
Symptoms	Syncopie and collapse (HES)	T	378957	8267	370834	0.878	-0.1304	0.060488	0.78	0.988	0.03102	0.260151
Biological assays	Monocyte count	T	367067	NA	NA	NA	0.01818	0.008444	0.001631	0.034729	0.031309	0.260984
Operations and Procedures	Endoscopic extirpation of lesion of colon	T	378957	14469	364632	0.907	-0.09769	0.045583	0.829	0.992	0.032108	0.266718
Metabolic	Type 2 diabetes (HES and self-reported)	T	378957	17351	361750	0.915	-0.08892	0.04152	0.843	0.992	0.032223	0.266775
Other	DIEP	T	378957	10919	366182	1.11	0.102585	0.047948	1.01	1.22	0.032395	0.267262
Cardiovascular	Triple heart bypass (self-reported)	T	378957	526	378755	0.536	-0.62430	0.292561	0.302	0.95	0.032827	0.268929
Operations and Procedures	Unilateral excision of adnexa of uterus	T	378957	1862	372239	0.748	-0.29084	0.136558	0.572	0.977	0.032932	0.268929
Cardiovascular	Heart arrhythmia (HES and self-reported)	T	378957	21190	357911	0.923	-0.08051	0.037736	0.857	0.993	0.032883	0.268929
Summary	Abnormal findings on diagnostic imaging (HES)	T	378957	8914	370187	1.12	0.118112	0.052469	1.01	1.24	0.033084	0.269283
Operations and Procedures	Total excision of spleen	T	378957	281	378820	0.344	-0.10733	0.050383	0.128	0.922	0.033979	0.275604
Gynaecology and Obstetrics	Bilateral oophorectomy (self-reported)	T	378957	15863	363238	0.911	-0.09274	0.043933	0.836	0.993	0.034768	0.278705
Operations and Procedures	Therapeutic transluminal operations on vein	T	378957	314	378787	1.63	0.488230	0.231382	1.04	2.56	0.034851	0.278705
Operations and Procedures	Facilitating operations NOC	T	378957	2533	376568	0.788	-0.23857	0.112906	0.631	0.983	0.034603	0.278705
Medication	Calcium	T	377706	25583	352267	1.07	0.068979	0.032737	1	1.14	0.035111	0.278705
Digestive system	Infectiveviral hepatitis (HES and self-reported)	T	378957	1240	377861	0.692	-0.36754	0.174109	0.492	0.974	0.034777	0.278705
Musculoskeletal	Polymyalgia rheumatica (HES and self-reported)	T	378957	1540	375761	1.28	0.244822	0.161652	0.844	0.996	0.035053	0.278705
Respiratory	CopdExacerbation NI HES SPIROMETRY	T	25076	2309	28100	1.25	0.219775	0.104337	1.02	1.53	0.035171	0.278705
Medication	Antispasmodics in combination with analgesics	T	378957	607	378494	1.45	0.371449	0.167832	1.03	2.05	0.035679	0.280781
Medication	Tetracyclines	T	378957	2224	376877	1.23	0.209763	0.099933	1.01	1.5	0.035814	0.280781
Operations and Procedures	Cruciate ligament surgery (self-reported)	T	378957	1888	377213	0.752	-0.28546	0.13606	0.576	0.981	0.035899	0.280781
Operations and Procedures	Other open operations on peritoneum	T	378957	2184	376917	1.23	0.209911	0.100011	1.01	1.5	0.035828	0.280781
Digestive system	Other disorders of peritoneum (HES)	T	378957	2824	367277	1.2	0.18437	0.088968				

Symptoms	Other abnormal immunological findings in serum (HES)	T	378957	247	378854	1.68	0.518015	0.258987	1.01	2.79	0.045484	0.314127
Summary	Number of self reported non cancer illnesses	T	378896	NA	NA	0.016614	0.08313	0.000321	0.032906	0.045649	0.314195	
Summary	HESCH Mental and behavioural disorders (HES)	T	378957	29106	349995	0.938	-0.06429	0.032198	0.88	0.999	0.045873	0.314835
Operations and Procedures	Diagnostic endoscopic examination of ileum	T	378957	590	378511	0.583	-0.53956	0.270639	0.343	0.991	0.046189	0.315816
Operations and Procedures	Other operations on cervix uteri	T	378957	247	378854	1.68	0.516008	0.258929	1.01	2.78	0.046278	0.315816
Operations and Procedures	Endoscopic ultrasound examination of bile duct	T	378957	228	378873	1.7	0.532476	0.267443	1.01	2.88	0.046482	0.31592
Other	Townsend deprivation index at recruitment	T	378505	NA	NA	-0.01646	0.008272	-0.03268	-0.00025	0.046555	0.31592	
NA	NSTEMI	T	378957	4419	374682	0.847	-0.16653	0.083841	0.718	0.998	0.047005	0.316995
Cardiovascular	Leg claudication intermittent claudication (HES and self-reported)	T	378957	2468	376633	0.795	-0.22976	0.115729	0.633	0.997	0.047105	0.316995
Haematology	Anaemia (HES and self-reported)	T	378957	17268	361833	0.921	-0.08214	0.04135	0.849	0.999	0.046992	0.316995
Medication	Corticosteroids	T	378957	4111	374990	1.16	0.14828	0.075021	1	1.34	0.048096	0.319816
Operations and Procedures	Reconstruction of femoral artery	T	378957	231	378870	0.316	-1.15115	0.581343	0.101	0.988	0.047686	0.319816
Operations and Procedures	Plastic operations on penis	T	378957	394	378707	1.53	0.425779	0.215355	1	2.33	0.04803	0.319816
Digestive system	Anal problem (HES and self-reported)	T	378957	23889	355122	0.933	-0.06981	0.035355	0.87	0.999	0.048324	0.319816
Digestive system	Haemochromatosis (HES and self-reported)	T	378957	635	378466	1.42	0.349445	0.176659	1	2.01	0.04792	0.319816
Musculoskeletal	Fracture tibia (HES and self-reported)	T	378957	1942	371759	1.23	0.209621	0.106119	1	1.52	0.04823	0.319816
Digestive system	Other diseases of biliary tract (HES)	T	378957	1752	377349	1.24	0.218904	0.110992	1	1.55	0.048582	0.32023
Medication	Dopaminergic agents	T	378957	1188	377913	0.71	-0.34296	0.174283	0.504	0.999	0.04909	0.32023
Neurosciences	Back pain for 3 months vs no pain	T	341405	65312	276219	0.957	-0.04442	0.022597	0.915	1	0.049327	0.32023
Cancer	Mal neo pancreas (cancer register)	T	378957	463	378638	1.48	0.389615	0.19868	1	2.18	0.049877	0.32023
Operations and Procedures	Connection between lacrimal apparatus and nose	T	378957	711	378390	0.626	-0.46857	0.238969	0.392	1	0.049091	0.32023
Operations and Procedures	Transluminal operations on femoral artery	T	378957	1076	378025	0.695	-0.36381	0.185607	0.483	1	0.049982	0.32023
Operations and Procedures	Diagnostic imaging procedures	T	378957	15463	363638	1.08	0.079648	0.040625	1	1.17	0.049928	0.32023
Infectious disease	Whooping cough pertussis (HES and self-reported)	T	378957	415	378866	1.5	0.405456	0.206649	1	2.25	0.049757	0.32023
Musculoskeletal	Fracture radius (HES and self-reported)	T	378957	5082	374019	0.859	-0.15196	0.077528	0.738	1	0.049396	0.32023
Musculoskeletal	Fracture upper limb shoulder (HES and self-reported)	T	378957	10515	365886	0.901	-0.10471	0.053165	0.811	0.999	0.048899	0.32023
Biological assays	Monocyte percentage	T	367073	NA	NA	0.016626	0.008445	7.30E-05	0.033179	0.048994	0.32023	
Biological assays	Neutrophil percentage	T	367073	NA	NA	-0.01664	0.008445	-0.03319	-8.83E-05	0.048786	0.32023	
Genitourinary	Other female pelvic inflammatory diseases (HES)	T	378957	2493	376608	1.2	0.185294	0.09486	0.999	1.45	0.050778	0.324458
Metabolic	Diabetes (HES and self-reported)	T	378957	15907	363194	0.919	-0.08422	0.043139	0.845	1	0.050911	0.324458
Eye	Other disorders of conjunctiva (HES)	T	378957	672	378429	0.621	-0.47709	0.245857	0.383	1	0.052317	0.327857
Musculoskeletal	Seropositive rheumatoid arthritis (HES)	T	378957	529	378572	1.44	0.365721	0.18337	0.997	2.09	0.052144	0.327857
Cardiovascular	Mitral valve repair replacement (self-reported)	T	378957	354	378747	0.476	-0.7422	0.38193	0.225	1.01	0.05198	0.327857
Operations and Procedures	Operations on spinal nerve root	T	378957	2302	376799	0.794	-0.23057	0.11805	0.629	1	0.051698	0.327857
Operations and Procedures	Correction of deformity of eyelid	T	378957	816	378285	1.35	0.30179	0.155486	0.997	1.83	0.052266	0.327857
Gynaecology and Obstetrics	Ovarian problem (HES and self-reported)	T	378957	4956	374145	0.859	-0.15222	0.078391	0.736	1	0.052155	0.327857
Medication	Urologicals	T	378957	6031	373070	0.872	-0.13645	0.070563	0.76	1	0.053145	0.329
Cardiovascular	Atrioventricular and left bundle branch block (HES)	T	378957	3286	375815	0.829	-0.18776	0.0972	0.685	1	0.053399	0.329
Symptoms	Retention of urine (HES)	T	378957	6149	372952	1.13	0.120846	0.062553	0.998	1.28	0.053374	0.329
Operations and Procedures	Other therapeutic transluminal operations on vein	T	378957	1371	377730	1.27	0.238028	0.12307	0.997	1.61	0.053102	0.329
Operations and Procedures	Diagnostic endoscopic examination of urethra	T	378957	369	378732	1.53	0.426426	0.220249	0.995	2.36	0.052854	0.329
Musculoskeletal	Sciatica (HES and self-reported)	T	378957	5455	373646	0.866	-0.14422	0.074535	0.748	1	0.053005	0.329
Operations and Procedures	Preprosthetic oral surgery	T	378957	274	378827	1.62	0.483331	0.250713	0.992	2.65	0.053877	0.331093
Cardiovascular	Essential hypertension (HES and self-reported)	T	378957	71076	360802	0.958	-0.04289	0.022298	0.917	1	0.054442	0.333715
Haematology	Neutropenia lymphopenia (HES and self-reported)	T	378957	2972	376129	1.18	0.167753	0.087353	0.997	1.4	0.054086	0.335094
Musculoskeletal	Osteopenia (HES and self-reported)	T	378957	990	378111	1.32	0.27393	0.143064	0.994	1.74	0.055256	0.338636
Medication	Antifungals for systemic use	T	378957	843	378258	1.35	0.296396	0.155163	0.992	1.82	0.056104	0.340221
Cardiovascular	Atrial fibrillation and flutter (HES)	T	378957	13484	365617	0.914	-0.0897	0.046951	0.834	1	0.050676	0.340221
Digestive system	Ventral hernia (HES)	T	378957	3093	376008	1.18	0.163764	0.085816	0.996	1.39	0.056353	0.340221
Other	Poisoning by narcotics and psychodysleptics (HES)	T	378957	598	378503	0.597	-0.51641	0.270597	0.351	1.01	0.056336	0.340221
Summary	Disorders of conjunctiva (HES)	T	378957	908	378193	0.679	-0.38653	0.203048	0.456	1.01	0.05696	0.3430
Eye	Other cataract (HES)	T	378957	13094	366007	1.09	0.084144	0.044316	0.997	1.19	0.057599	0.344321
Cancer	Breast cancer (self-reported)	T	378957	8389	370712	0.893	-0.11354	0.0598	0.794	1	0.057601	0.344321
Metabolic	Type 1 diabetes (HES and self-reported)	T	378957	2663	376438	0.812	-0.20789	0.109392	0.656	1.01	0.057377	0.344321
Digestive system	Cholecystitis (HES)	T	378957	2442	376659	1.2	0.181884	0.095971	0.994	1.45	0.058065	0.346233
Summary	Nutritional anaemias (HES)	T	378957	7757	371344	0.889	-0.11731	0.061934	0.788	1	0.058218	0.346291
Metabolic	Hypofunction and other disorders of pituitary gland (HES)	T	378957	359	378742	0.485	-0.72777	0.381855	0.23	1.03	0.058388	0.346434
Musculoskeletal	Dorsalgia (HES)	T	378957	1975	377126	1.22	0.199657	0.106135	0.992	1.5	0.05995	0.353967
Operations and Procedures	Excision of salivary gland	T	378957	935	378166	0.689	-0.37293	0.19913	0.466	1.02	0.061097	0.357242
ENT	Speech reception threshold SRT estimate left	T	116464	NA	NA	0.02801	0.014949	-0.00129	0.057309	0.060966	0.357242	
Gynaecology and Obstetrics	Age started hormone replacement therapy HRT	T	71364	NA	NA	0.036159	0.019336	-0.00174	0.074057	0.061481	0.356812	
Medication	ACE inhibitors combinations	T	378957	54539	324562	0.955	-0.04621	0.024734	0.91	1	0.061704	0.359048
Operations and Procedures	Therapeutic endoscopic operations on peritoneum	T	378957	1599	377502	1.24	0.217605	0.116577	0.989	1.56	0.061955	0.359638
Eye	Disorders of orbit (HES)	T	378957	250	378851	0.392	-0.9368	0.50387	0.146	1.05	0.062997	0.364809
Medication	Diuretics and potassium sparing agents in combination	T	378957	27954	351147	0.941	-0.06117	0.03296	0.882	1	0.063477	0.366703
Summary	Mental disorders due to psychoactive sub (HES)	T	378957	14024	365077	0.918	-0.0858	0.046307	0.838	1	0.063896	0.368241
Summary	HESCH Diseases of the genitourinary system (HES)	T	378957	91318	287783	1.04	0.036098	0.019539	0.998	1.08	0.064682	0.37179
Musculoskeletal	Other necrotizing vasculopathies (HES)	T	378957	542	378559	1.42	0.347538	0.18822	0.979	2.05	0.064828	0.37179
Operations and Procedures	Cardioverter defibrillator introduced through the vein	T	378957	599	378502	0.617	-0.48291	0.26183	0.369	1.03	0.065129	0.37179
Gynaecology and Obstetrics	Breast fibroadenoma (HES and self-reported)	T	378957	1450	377651	0.753	-0.28337	0.153568	0.557	1.02	0.065173	0.371798
Musculoskeletal	Disorders of patella (HES)	T	378957	841	378260	1.33	0.2849	0.155182	0.981	1.8	0.066371	0.371787
Musculoskeletal	Internal derangement of knee (HES)	T	378957	13926	365175	0.919	-0.0845	0.045918	0.84	1.01	0.06572	0.371787
Other	Poisoning antiepileptic hypnotic antiparkinsonism drugs (HES)	T	378957	851	378250	0.677	-0.38991	0.211642	0.447	1.03	0.065432	0.371787
Operations and Procedures	Lipoma removed excision of lipoma (self-reported)	T	378957	600	378501	1.39	0.329357	0.179368	0.978	1.98	0.066322	0.371787
Operations and Procedures	Other biopsy of skin	T	378957	1597	377504	1.24	0.214022	0.116483	0.986	1.56	0.066157	0.371787
Operations and Procedures	Other open repair of ligament	T	378957	420	378681	0.539	-0.61893	0.337135	0.278	1.04	0.066379	0.371787
Musculoskeletal	Fracture forearm wrist (HES and self-reported)	T	378957	8702	370399	0.898	-0.10712	0.058302	0.801	1.01	0.066175	0.371787
Operations and Procedures	Operations on hydrocoele sac	T	378957	1029	378072	1.3	0.262267	0.142968	0.982	1.72	0.066586	0.372182
Operations and Procedures	Diagnostic endoscopic examination of knee joint	T	378957	3016	376085	0.829	-0.18765	0.1				

Genitourinary	Other disorders of urethra (HES)	T	378957	692	378409	1.35	0.298163	0.169298	0.967	1.88	0.078208	0.401714
Operations and Procedures	Arthroscopy nos (self-reported)	T	378957	8377	370724	0.901	-0.10462	0.059279	0.802	1.01	0.077582	0.401714
Operations and Procedures	Percutaneous transluminal balloon	T	378957	5594	373507	0.879	-0.12912	0.073259	0.761	1.01	0.07798	0.401714
Neurosciences	Maximum digits remembered correctly	T	116599	NA	NA	NA	0.026116	0.014825	-0.00294	0.055173	0.07813	0.401714
Operations and Procedures	Knee replacement revision (self-reported)	T	378957	4614	374487	0.868	-0.141	0.080256	0.742	1.02	0.078938	0.403043
Respiratory	Bring up phlegm sputum mucus on most days	T	95656	8125	87571	0.898	-0.10793	0.061417	0.796	1.01	0.078855	0.403043
Operations and Procedures	Opening into gastrointestinal tract	T	378957	207	378894	0.36	-1.02185	0.581716	0.115	1.13	0.078984	0.403043
Infectious disease	Hiv/aids (HES and self-reported)	T	378957	309	378792	1.53	0.427575	0.243532	0.951	2.47	0.079136	0.403043
ENT	Hearing aid user	T	230464	11351	219204	1.09	0.083814	0.04785	0.99	1.19	0.079843	0.405678
Operations and Procedures	Diagnostic microendoscopic examination of larynx	T	378957	246	378855	0.415	-0.88059	0.503822	0.154	1.11	0.080494	0.405678
Operations and Procedures	Repair of recurrent incisional hernia	T	378957	225	378876	1.62	0.48286	0.276264	0.943	2.79	0.080496	0.405678
Immuno-inflammation	Connective tissue disorder (HES and self-reported)	T	378957	2304	376797	1.19	0.172594	0.098676	0.979	1.44	0.080274	0.405678
Genitourinary	Polyctopic kidney (HES and self-reported)	T	378957	1630	377471	1.22	0.202406	0.15768	0.976	1.54	0.080394	0.405678
Eye	Other serious eye condition	T	124323	6929	117447	0.892	-0.11433	0.065466	0.785	1.01	0.080737	0.406046
Haematology	Pancytopenia (HES and self-reported)	T	378957	406	378955	1.46	0.375034	0.214998	0.955	2.22	0.081097	0.407006
ENT	Dental tooth surgery (self-reported)	T	378957	999	378102	1.29	0.250928	0.144097	0.969	1.7	0.081618	0.408769
Operations and Procedures	Excision of nail	T	378957	608	378493	1.37	0.315157	0.181903	0.959	1.96	0.083176	0.415706
Operations and Procedures	Other total prosthetic replacement of other joint	T	378957	332	378769	0.516	-0.66128	0.382188	0.244	1.09	0.083588	0.416903
Summary	Urticaria and erythema (HES)	T	378957	948	378153	1.29	0.256553	0.148443	0.966	1.73	0.083936	0.41691
Operations and Procedures	Gestational age	T	378957	395	378706	1.46	0.376727	0.217871	0.951	2.23	0.083786	0.41691
Summary	Neurotic stress related and somatoform disorders (HES)	T	378957	6748	372353	0.892	-0.1144	0.066302	0.783	1.02	0.084447	0.41783
Operations and Procedures	Drainage of organ NOC	T	378957	2627	376474	1.17	0.160691	0.093136	0.978	1.41	0.084468	0.41783
Immuno-inflammation	Other disorders of skin and subcutaneous tissue (HES)	T	378957	5075	374026	1.13	0.118107	0.068626	0.984	1.29	0.085247	0.42082
Haematology	Agranulocytosis (HES)	T	378957	2906	376195	1.17	0.152938	0.088921	0.979	1.39	0.085443	0.420924
Genitourinary	Noninflammatory ovary fallop (HES)	T	378957	4666	374435	0.871	-0.13763	0.08022	0.745	1.02	0.086232	0.423947
Cancer	Mal neo oesophagus (cancer register)	T	378957	516	378585	0.618	-0.48188	0.281219	0.356	1.07	0.086613	0.424715
Operations and Procedures	Obliteration of cavity of organ NOC	T	378957	637	378464	0.656	-0.4212	0.246044	0.405	1.06	0.086918	0.424715
Digestive system	Bowel intestinal perforation (HES and self-reported)	T	378957	387	378714	1.46	0.376307	0.21982	0.947	2.24	0.086917	0.424715
Operations and Procedures	Suture of skin of head or neck	T	378957	774	378327	0.685	-0.37849	0.221468	0.444	1.06	0.087447	0.426435
Operations and Procedures	Operations on vitreous body	T	378957	3853	375248	1.14	0.132621	0.0778	0.98	1.33	0.088261	0.427847
Infectious disease	Helicobacter pylori (HES and self-reported)	T	378957	1773	377328	0.79	-0.23621	0.13857	0.602	1.04	0.088261	0.427847
Biological assays	Mean reticulocyte volume	T	361630	NA	NA	NA	-0.01451	0.008512	-0.0312	0.00217	0.08817	0.427847
Genitourinary	Calculus of kidney and ureter (HES)	T	378957	4404	374697	0.868	-0.14114	0.083106	0.738	1.02	0.089447	0.432686
Medication	Androgens	T	378957	555	378546	0.632	-0.45842	0.270961	0.372	1.08	0.090678	0.436867
Metabolic	Other disorders of thyroid (HES)	T	378957	357	378744	0.546	-0.60543	0.357782	0.271	1.1	0.090612	0.436887
Family history	Lung cancer (family history)	T	378957	NA	NA	NA	-0.10402	0.008301	-0.03029	0.002249	0.091202	0.437992
Eye	Intra ocular pressure corneal compensated right	T	81141	NA	NA	NA	-0.02994	0.017729	-0.06469	0.00481	0.091271	0.437992
Summary	Suppurative and necrotic conditions of lower respiratory tract (HES)	T	378957	346	378755	1.48	0.388899	0.23069	0.939	2.32	0.091833	0.438039
Infectious disease	Other septicemia (HES)	T	378957	3387	375714	1.15	0.14004	0.08303	0.978	1.35	0.091676	0.438039
Operations and Procedures	Barium meal barium swallow (self-reported)	T	378957	221	378880	1.59	0.465761	0.276433	0.927	2.74	0.092008	0.438039
ENT	Mouth ulcers	T	377502	38476	339170	1.05	0.045694	0.027084	0.993	1.1	0.091574	0.438039
Operations and Procedures	Plastic operations on external ear	T	378957	299	378802	0.5	-0.69376	0.412523	0.223	1.12	0.092616	0.440061
Digestive system	Gastritis and duodenitis (HES)	T	378957	26187	352914	0.945	-0.05672	0.033858	0.884	1.01	0.093872	0.441914
Operations and Procedures	Oesophageal fundoplication hiatus hernia surgery (self-reported)	T	378957	906	378195	0.716	-0.33368	0.199236	0.485	1.06	0.093976	0.441914
Cancer	Other types of non Hodgkin s lymphoma (cancer register)	T	378957	408	378693	1.43	0.359856	0.214952	0.94	2.18	0.094105	0.441914
Operations and Procedures	Other excision of adnexa of uterus	T	378957	224	378877	1.59	0.462928	0.276488	0.924	2.73	0.094069	0.441914
Operations and Procedures	Radiology procedures	T	378957	30410	348691	1.05	0.050432	0.030085	0.992	1.12	0.093676	0.441914
Musculoskeletal	Fracture hand (HES and self-reported)	T	378957	1148	377953	0.746	-0.29272	0.174366	0.53	1.05	0.093197	0.441914
Digestive system	Oesophagitis (HES)	T	378957	8251	370850	1.1	0.091925	0.054951	0.984	1.22	0.094359	0.442424
Operations and Procedures	Other blood transfusion	T	378957	4631	374470	0.874	-0.1343	0.08048	0.747	1.02	0.095182	0.444428
Mental health	Obsessive compulsive disorder ocd (HES and self-reported)	T	378957	208	378893	1.61	0.478178	0.286733	0.92	2.83	0.09538	0.444428
Neurosciences	Prospective memory result	T	126215	NA	NA	NA	-0.02375	0.014233	-0.05164	0.00415	0.095228	0.444428
Summary	Mycoses (HES)	T	378957	2468	376633	1.17	0.160429	0.096341	0.972	1.42	0.095867	0.444478
Infectious disease	Candidiasis (HES)	T	378957	1983	377118	1.19	0.177657	0.106627	0.969	1.47	0.095683	0.444478
Gynaecology and Obstetrics	Haemorrhage in early pregnancy (HES)	T	378957	836	378265	0.706	-0.34783	0.209062	0.469	1.06	0.096156	0.445461
Operations and Procedures	Puncture of joint	T	378957	10120	368891	0.914	-0.08943	0.053809	0.823	1.02	0.096497	0.446184
Musculoskeletal	Soft tissue disorders related to use overuse and pressure (HES)	T	378957	1500	376701	0.781	-0.24655	0.148489	0.584	1.05	0.096838	0.446203
Genitourinary	Female genital prolapse (HES)	T	378957	10411	368690	1.09	0.082564	0.049731	0.985	1.2	0.096872	0.446203
Cardiovascular	Leg artery angioplasty stent (self-reported)	T	378957	443	378658	0.603	-0.50596	0.305665	0.331	1.1	0.097865	0.448445
Eye	Macular degeneration	T	124323	2870	121506	1.16	0.14882	0.08982	0.973	1.38	0.097547	0.448445
Gynaecology and Obstetrics	Endometriosis (HES and self-reported)	T	378957	5960	373189	1.41	0.11684	0.070598	0.775	1.02	0.097917	0.448445
Cardiovascular	Cerebral infarction (HES)	T	378957	2917	376184	0.844	-0.16994	0.102811	0.69	1.03	0.098314	0.449407
Haematology	Other diseases of blood and blood forming organs (HES)	T	378957	563	378538	1.36	0.310094	0.18797	0.943	1.97	0.099000	0.451695
Operations and Procedures	Other reconstruction of joint	T	378957	2374	376727	0.83	-0.13477	0.06644	0.664	1.04	0.095513	0.45317
Respiratory	CopdExacerbation GOLD2orHigher	T	8822	486	8345	1.41	0.342845	0.208473	0.936	2.12	0.100061	0.454806
Summary	Ocular musculococular movement (HES)	T	378957	2672	376429	1.16	0.151585	0.094242	0.971	1.39	0.09977	0.456386
Cardiovascular	Ischaemic stroke (HES and self-reported)	T	378957	2968	376133	0.846	-0.16709	0.101802	0.693	1.03	0.100734	0.456386
Cancer	Bowens disease (HES and self-reported)	T	378957	617	378484	1.34	0.294181	0.179312	0.944	1.91	0.100878	0.456386
Summary	Neoplasms BIN (cancer register)	T	378957	45225	333876	0.958	-0.04288	0.026237	0.91	1.01	0.102195	0.461026
Operations and Procedures	Other open operations on bile duct	T	378957	1260	377841	1.24	0.214768	0.131632	0.958	1.6	0.102768	0.462744
Operations and Procedures	Artificial opening into stomach	T	378957	356	378745	0.558	-0.58333	0.357786	0.277	1.13	0.10302	0.462824
Digestive system	Pyloric stenosis (HES and self-reported)	T	378957	250	378851	1.54	0.43448	0.266605	0.916	2.6	0.10317	0.462824
Summary	Disorders of synovium and tendon (HES)	T	378957	8361	370740	0.908	-0.096	0.058977	0.809	1.02	0.103589	0.462857
Operations and Procedures	HESCH Diseases of the nervous system (HES)	T	378957	36198	342903	0.954	-0.04683	0.028813	0.902	1.01	0.104049	0.462857
Symptoms	Hyperhidrosis (HES)	T	378957	544	378557	0.644	-0.44026	0.27091	0.379	1.09	0.104138	0.462857
Operations and Procedures	Cardiac pacemaker system introduced through vein	T	378957	2286	376815	0.827	-0.18978	0.116531	0.658	1.04	0.10341	0.462857
Operations and Procedures	Other drainage of peritoneal cavity	T	378957	2011	377090	1.19	0.17242	0.106059	0.965	1.46	0.104012	0.462857
Mental health	Nervous breakdown (HES and self-reported)	T	378957	629	378472	0.671	-0.39092	0.246072	0.414			

Operations and Procedures	Placement of prosthesis in organ NOC	T	378957	3165	375936	0.857	-0.15392	0.0991	0.707	1.04	0.116639	0.482602
Immuno-inflammation	Psoriasis (HES and self-reported)	T	378957	5583	373518	1.11	0.103893	0.066301	0.974	1.26	0.117117	0.483108
Mental health	Other anxiety disorders (HES)	T	378957	5413	373688	0.891	-0.11559	0.074003	0.771	1.03	0.118291	0.483647
Digestive system	Other disorders of gingiva and edentulous alveolar ridge (HES)	T	378957	283	378818	0.525	-0.64416	0.412777	0.234	1.18	0.118631	0.483647
Medication	Drugs used in addictive disorders	T	378957	648	378453	1.32	0.279801	0.178977	0.931	1.88	0.117975	0.483647
Operations and Procedures	Excision of tonsil	T	378957	1168	377933	0.765	-0.26822	0.171978	0.546	1.07	0.118854	0.483647
Operations and Procedures	Curretage of lesion of skin	T	378957	1788	377313	1.19	0.174532	0.111565	0.957	1.48	0.117725	0.483647
Operations and Procedures	Other closed reduction of fracture of bone	T	378957	1496	377605	0.793	-0.23164	0.148516	0.593	1.06	0.118836	0.483647
Digestive system	Other abdominal problem (HES and self-reported)	T	378957	3980	339211	0.958	-0.04333	0.027223	0.907	1.01	0.118094	0.483647
Musculoskeletal	Dupuytrens contracture (HES and self-reported)	T	378957	3300	375801	1.14	0.132378	0.08468	0.967	1.35	0.117989	0.483647
Mental health	Ever highly irritable argumentative for 2 days	T	123697	22263	101496	0.942	-0.06008	0.038647	0.873	1.02	0.120012	0.487536
Summary	HESCH Endocrine nutritional and metabolic diseases BIN (HES)	T	378957	66768	312333	0.966	-0.03483	0.022446	0.924	1.01	0.120684	0.488825
Immuno-inflammation	Ulcer of lower limb (HES)	T	378957	989	378112	0.75	-0.28821	0.185739	0.521	1.08	0.120735	0.488825
Cardiovascular	Varicose veins (HES and self-reported)	T	378957	11798	367303	1.07	0.071234	0.046594	0.981	1.18	0.121586	0.491444
Operations and Procedures	Primary excision of lumbar intervertebral disc	T	378957	1796	377305	0.813	-0.20699	0.133791	0.625	1.06	0.121846	0.49167
Genitourinary	Kidney stone/urter/stone/bladder stone (HES and self-reported)	T	378957	6694	372407	0.903	-0.10243	0.066318	0.793	1.03	0.122466	0.493278
Digestive system	Dyspepsia indigestion (HES and self-reported)	T	378957	11162	367939	0.924	-0.07863	0.050934	0.837	1.02	0.122654	0.493278
Cardiovascular	Angiogram not coronary (self-reported)	T	378957	345	378756	0.576	-0.55155	0.357909	0.286	1.16	0.123307	0.495078
Operations and Procedures	Other operations on urethra	T	378957	1489	377612	0.796	-0.22846	0.148522	0.595	1.06	0.123984	0.496984
Operations and Procedures	Open drainage of bladder	T	378957	606	378495	1.32	0.279652	0.181946	0.926	1.89	0.124291	0.49373
Medication	Psycholeptics and psychoanaleptics in combination	T	378957	12227	366874	0.928	-0.07471	0.04868	0.844	1.02	0.124839	0.497969
Operations and Procedures	Other operations on mouth	T	378957	1260	377841	0.779	-0.25009	0.162957	0.566	1.07	0.124854	0.497969
Summary	Pulmonary heart disease and diseases of pulmonary circulation (HES)	T	378957	3992	375109	1.13	0.118078	0.077074	0.968	1.31	0.125521	0.498155
Summary	Diseases of veins lymphatic vessels (HES)	T	378957	35400	343701	1.04	0.043231	0.028216	0.988	1.1	0.125479	0.498155
Cancer	Rectal cancer (self-reported)	T	378957	274	378827	1.48	0.395150	0.257933	0.895	2.46	0.125518	0.498155
Medication	Drugs for peptic ulcer and gastro oesophageal reflux disease gord	T	378957	45634	334647	0.961	-0.03996	0.026212	0.913	1.01	0.123769	0.501359
Metabolic	Ovarian dysfunction (HES)	T	378957	239	378862	0.501	-0.6905	0.452466	0.207	1.22	0.126989	0.501359
Cancer	Neo of other sites (cancer register)	T	378957	206	378895	0.463	-0.77011	0.505091	0.172	1.25	0.127334	0.501359
Operations and Procedures	Therapeutic transluminal operations on other artery	T	378957	774	378327	0.719	-0.33029	0.216516	0.47	1.1	0.127145	0.501359
Operations and Procedures	Endovascular placement of stent	T	378957	370	378731	0.597	-0.51526	0.33772	0.308	1.16	0.127083	0.501359
Operations and Procedures	Artificial opening into jejunum	T	378957	294	378807	1.46	0.38031	0.250202	0.896	2.39	0.128502	0.504195
Haematology	Low plateletsplatelet disorder (HES and self-reported)	T	378957	1618	377483	1.2	0.178629	0.117871	0.949	1.51	0.129657	0.507876
Digestive system	Unspecified abdominal hernia (HES)	T	378957	276	378825	0.535	-0.62466	0.4129	0.238	1.2	0.130318	0.508303
Metabolic	Thyroid goitre (HES and self-reported)	T	378957	1793	377308	0.817	-0.20232	0.132798	0.63	1.06	0.127632	0.501575
Operations and Procedures	Primary open reduction of traumatic dislocation of joint	T	378957	347	378754	1.43	0.357339	0.236226	0.9	2.27	0.130356	0.508303
Neurosciences	Other nervous system in diseases classified elsewhere (HES)	T	378957	960	378141	0.752	-0.28451	0.18882	0.52	1.09	0.131861	0.510906
Operations and Procedures	Examination of bile duct and pancreatic duct	T	378957	2192	376909	1.17	0.154228	0.102342	0.955	1.43	0.131815	0.510906
Cardiovascular	Transient ischaemic attack tia (HES and self-reported)	T	378957	3570	375531	1.13	0.122925	0.081591	0.964	1.33	0.131915	0.510906
Digestive system	Oesophagitisbarretts oesophagus (HES and self-reported)	T	378957	10521	368580	1.08	0.074278	0.049266	0.978	1.19	0.13163	0.510906
Gynaecology and Obstetrics	Preterm delivery (HES)	T	378957	602	378499	1.32	0.276417	0.183988	0.919	1.89	0.133003	0.512728
Operations and Procedures	Packing of cavity of nose	T	378957	1016	378005	1.24	0.218481	0.145432	0.936	1.65	0.130204	0.512728
Infectious disease	Herpes simplex (HES and self-reported)	T	378957	373	378728	0.602	-0.50749	0.337608	0.311	1.17	0.132793	0.512728
Digestive system	Other diseases of intestine (HES)	T	378957	13086	366015	0.932	-0.07072	0.047136	0.85	1.02	0.133516	0.513332
Cardiovascular	Mean carotid IMT intima medial thickness at 150 degrees	T	1843	NA	NA	0.186925	-0.124614	-0.05732	0.431168	0.133607	0.513332	
Operations and Procedures	Diagnostic endos exam of lwr resp trct rigid brnchscpe	T	378957	452	378649	1.37	0.134941	0.210077	0.908	2.07	0.133881	0.513374
Medication	Ace inhibitors plain	T	378957	38569	340532	0.958	-0.04251	0.028393	0.907	1.01	0.134387	0.514358
Musculoskeletal	Fractured broken bones in last 5 years	T	376884	36458	340570	1.04	0.04163	0.026728	0.987	1.1	0.134582	0.514358
Cardiovascular	Cholesterol lowering medication	T	376081	64923	31299	0.966	-0.03057	0.032445	0.922	1.01	0.134728	0.514358
Biological assays	Lymphocyte percentage	T	367073	NA	NA	0.012624	0.008445	-0.00393	0.029176	0.134965	0.514447	
Cardiovascular	Coronary angioplasty ptca stent (self-reported)	T	378957	3922	375179	0.878	-0.13038	0.087284	0.74	1.04	0.135254	0.514734
Eye	LogMAR final right	T	83964	NA	NA	0.025952	-0.017423	-0.0082	0.060101	0.136346	0.518072	
Musculoskeletal	Psoriatic arthropathy (HES and self-reported)	T	378957	1087	378014	1.24	0.211764	0.142422	0.935	1.63	0.137049	0.519923
Neurosciences	Alzheimer s disease (HES)	T	378957	359	378742	1.41	0.341188	0.230595	0.895	2.21	0.138898	0.525593
Mental health	Risk taking	T	365508	96122	268526	1.03	0.02895	0.019596	0.991	1.07	0.138865	0.525593
ENT	Suppurative and unspecified otitis media (HES)	T	378957	700	378401	1.29	0.25666	0.173699	0.92	1.82	0.139511	0.52595
Operations and Procedures	Other bowel surgery (self-reported)	T	378957	2282	376819	0.842	-0.17187	0.116291	0.67	1.06	0.139424	0.52595
Medication	Potassium sparing agents	T	378957	950	378151	0.757	-0.27833	0.188901	0.523	1.1	0.140643	0.525982
Infectious disease	Streptococcal septicaemia (HES)	T	378957	235	378666	0.514	-0.6554	0.452066	0.212	1.25	0.141048	0.525982
Operations and Procedures	Other upper digestive tract	T	378957	488	378613	1.35	0.297405	0.201858	0.906	2	0.140661	0.525982
Operations and Procedures	Branch of external carotid artery	T	378957	271	378830	1.46	0.3811	0.258119	0.883	2.43	0.139824	0.525982
Operations and Procedures	Bilateral excision of adenexa of uterus	T	378957	8743	370358	0.918	-0.08525	0.057888	0.82	1.03	0.14083	0.525982
Operations and Procedures	Gallstones removed (self-reported)	T	378957	315	378786	1.43	0.357432	0.243108	0.888	2.3	0.141492	0.526823
Operations and Procedures	High cost other cardiovascular drugs	T	378957	535	378566	1.33	0.285506	0.194461	0.909	1.95	0.142053	0.528095
Family history	Stroke family history - father	T	343458	51292	292300	0.964	-0.03639	0.024821	0.918	1.01	0.14262	0.529416
Family history	Parkinson s disease (family history - father)	T	338597	8344	330385	0.918	-0.08575	0.058596	0.818	1.03	0.143434	0.530972
Operations and Procedures	Placement of stent in organ NOC	T	378957	1320	377781	1.21	0.18956	0.129576	0.938	1.56	0.143488	0.530972
Operations and Procedures	Other operations on outlet of male bladder	T	378957	6418	372683	0.906	-0.09266	0.067962	0.793	1.03	0.144139	0.532563
Haematology	Other aplastic anaemias (HES)	T	378957	409	378692	1.38	0.319799	0.219484	0.895	2.12	0.145102	0.532852
Cardiovascular	Phlebitis and thrombophlebitis (HES)	T	378957	3502	375599	1.13	0.19861	0.082193	0.96	1.32	0.144762	0.532852
Musculoskeletal	Pagets disease (HES and self-reported)	T	378957	272	378829	0.548	-0.60195	0.412969	0.244	1.23	0.144946	0.532852
Musculoskeletal	Systemic lupus erythematosissle (HES and self-reported)	T	378957	547	378554	1.33	0.283607	0.194371	0.907	1.94	0.144537	0.532852
Eye	Disorders of globe (HES)	T	378957	389	378712	1.38	0.321028	0.219823	0.895	2.12	0.145336	0.532899
Operations and Procedures	Reconstruction of breast	T	378957	1391	377710	0.802	-0.22111	0.152011	0.595	1.08	0.145788	0.532744
Symptoms	Abnormalities of heart beat (HES)	T	378957	7716	371385	0.915	-0.08911	0.061399	0.811	1.03	0.146301	0.533999
ENT	Toothache	T	377502	15330	362136	1.06	0.060128	0.041382	0.979	1.15	0.146225	0.533999
Gynaecology and Obstetrics	Cone biopsy (self-reported)	T	378957	3152	375949	0.868	-0.14121	0.097341	0.717	1.05	0.146864	0.532527
Genitourinary	Scrotal problem not cancer (HES and self-reported)	T	378957	1382	377719	1.2	0.185123	0.127756	0.937	1.55	0.147329	0.536126
Biological assays	Lymphocyte count	T	367067									

Summary	Symptoms and signs involving speech and voice (HES)	T	378957	2293	376808	0.852	-0.1607	0.115585	0.679	1.07	0.164444	0.558322
Digestive system	Other functional intestinal disorders (HES)	T	378957	10172	368929	0.929	-0.07412	0.053381	0.836	1.03	0.164999	0.558322
Gynaecology and Obstetrics	Medical abortion (HES)	T	378957	998	378103	0.774	-0.2557	0.184294	0.54	1.11	0.165305	0.558322
Gynaecology and Obstetrics	Breast surgery (self-reported)	T	378957	1320	377781	0.806	-0.21583	0.155514	0.594	1.09	0.165175	0.558322
Operations and Procedures	Hip surgery not replacement (self-reported)	T	378957	1523	375758	1.18	0.168788	0.121094	0.934	1.5	0.163359	0.558322
ENT	Tympanic membrane surgery ear drum repair (self-reported)	T	378957	602	378499	1.29	0.257477	0.184698	0.901	1.86	0.163304	0.558322
Family history	Alzheimer's disease dementia (family history - sibling)	T	300905	1677	299352	0.827	-0.1863	0.136644	0.633	1.08	0.165202	0.558322
Operations and Procedures	Therapeutic endoscopic operations on calculus of kidney	T	378957	417	378684	0.654	-0.42408	0.305785	0.359	1.19	0.165482	0.558322
Operations and Procedures	Diagnostic endoscopic examination of bladder	T	378957	30109	348992	1.04	0.042694	0.030553	0.983	1.11	0.162252	0.558322
Operations and Procedures	High cost haematology and nutrition drugs	T	378957	606	378495	1.29	0.255984	0.184678	0.899	1.86	0.165712	0.558322
Operations and Procedures	Injection of other substance into organ NOC	T	378957	1838	377263	0.834	-0.181	0.129555	0.647	1.08	0.163294	0.558322
NA	Subarachnoid haemorrhage	T	378957	982	378119	1.23	0.208587	0.149801	0.918	1.65	0.163794	0.558322
Neurosciences	Meningitis (HES and self-reported)	T	378957	1714	377387	0.829	-0.18778	0.13501	0.636	1.08	0.16427	0.558322
Digestive system	Diverticular disease/diverticulitis (HES and self-reported)	T	378957	26531	352570	0.954	-0.04673	0.033521	0.894	1.02	0.163277	0.558322
Neurosciences	Polio poliomyelitis (HES and self-reported)	T	378957	280	378821	0.588	-0.53083	0.382952	0.278	1.25	0.165694	0.558322
Digestive system	Bowel intestinal infarction (HES and self-reported)	T	378957	264	378837	0.564	-0.57347	0.413106	0.251	1.27	0.165081	0.558322
Summary	Other disorders of the skin and subcutaneous tissue (HES)	T	378957	14568	364533	1.06	0.058335	0.042222	0.976	1.15	0.167086	0.559042
Symptoms	Abnormal serum enzyme levels (HES)	T	378957	226	378875	1.49	0.395794	0.285985	0.848	2.6	0.166368	0.559042
Gynaecology and Obstetrics	Mastectomy (self-reported)	T	378957	3844	375257	0.886	-0.12097	0.087551	0.746	1.05	0.167078	0.559042
Operations and Procedures	Haemoroideectomy piles surgery banding of piles (self-reported)	T	378957	6713	372388	1.09	0.084213	0.060893	0.965	1.23	0.166672	0.559042
Family history	Bowel cancer (family history - sibling)	T	301109	7001	294235	0.914	-0.0895	0.064707	0.805	1.04	0.166615	0.559042
Medication	Androgens and female sex hormones in combination	T	378957	421	378680	0.656	-0.42414	0.30576	0.36	1.19	0.168135	0.55941
Eye	Retinal disorders in diseases classified elsewhere (HES)	T	378957	1229	377872	0.801	-0.22192	0.161106	0.584	1.1	0.168357	0.55941
Gynaecology and Obstetrics	Salpingectomy (self-reported)	T	378957	258	378843	0.565	-0.57033	0.413332	0.251	1.27	0.167636	0.55941
Operations and Procedures	Operations on external nose	T	378957	3310	375791	1.12	0.116629	0.084627	0.952	1.33	0.168158	0.55941
Mental health	Depression (HES and self-reported)	T	378957	27882	351219	0.956	-0.04487	0.032561	0.897	1.02	0.168174	0.55941
Musculoskeletal	Other systemic involvement of connective tissue (HES)	T	378957	1710	377391	1.17	0.158198	0.115037	0.935	1.47	0.169071	0.561008
Summary	Disorders of muscles (HES)	T	378957	1025	378076	0.781	-0.24671	0.179866	0.549	1.11	0.170171	0.561663
Genitourinary	Pain with female genital (HES)	T	378957	3073	376028	0.873	-0.13542	0.098588	0.72	1.06	0.169556	0.561663
ENT	Loose teeth	T	377500	15091	362555	0.942	-0.06004	0.043762	0.864	1.03	0.170201	0.561663
Digestive system	Femoral hernia (HES and self-reported)	T	378957	643	378458	0.726	-0.31981	0.233112	0.46	1.15	0.170086	0.561663
Operations and Procedures	Excision of vas deferens	T	378957	4286	374815	0.887	-0.1194	0.08729	0.748	1.05	0.171369	0.564744
Genitourinary	Urethral stricture (HES)	T	378957	2967	376134	0.871	-0.13762	0.100733	0.715	1.06	0.171891	0.56569
Operations and Procedures	Closed reduction of fracture of bone and external fixation	T	378957	391	378710	0.646	-0.43757	0.320542	0.344	1.21	0.172224	0.566013
Medication	Progestogens and oestrogens in combination	T	378957	8666	370435	1.08	0.074308	0.054616	0.968	1.2	0.173653	0.567844
Operations and Procedures	Exenteration of mastoid air cells	T	378957	445	378656	1.34	0.29162	0.214374	0.879	2.04	0.173724	0.567844
Operations and Procedures	Other operations on rectum	T	378957	894	378076	1.24	0.213246	0.156657	0.91	1.68	0.173443	0.567844
Operations and Procedures	Percutaneous puncture of kidney	T	378957	1437	377664	1.19	0.170905	0.125489	0.928	1.52	0.173227	0.567844
Eye	Iritis (HES and self-reported)	T	378957	479	378622	1.32	0.279423	0.205714	0.884	1.98	0.174366	0.5684
Neurosciences	Meningioma benign meningeal tumour (HES and self-reported)	T	378957	499	378602	0.692	-0.36867	0.271325	0.406	1.18	0.174218	0.5684
Medication	Antidepressants	T	378957	29214	349887	0.958	-0.04315	0.031841	0.9	1.02	0.175346	0.570222
Digestive system	Cysts of oral region (HES)	T	378957	377	378724	0.649	-0.43033	0.320695	0.346	1.22	0.176922	0.5744
Symptoms	Disturbances of skin sensation (HES)	T	378957	2617	376484	0.865	-0.14534	0.107632	0.7	1.07	0.176906	0.5744
Medication	Antipruritics incl antihistamines anaesthetics etc	T	378957	592	378509	1.29	0.253218	0.187664	0.892	1.86	0.177236	0.574645
Medication	Chemotherapeutics for topical use	T	378957	1020	378081	0.785	-0.24237	0.179791	0.552	1.12	0.177632	0.571515
Genitourinary	Other abnormal uterine and vaginal bleeding (HES)	T	378957	3736	375365	0.887	-0.12006	0.08919	0.745	1.06	0.178267	0.576437
Summary	Other bacterial diseases (HES)	T	378957	4393	374708	1.11	0.09993	0.0744	0.955	1.28	0.179227	0.577082
Haematology	Purpura and other haemorrhagic conditions (HES)	T	378957	1530	375751	1.18	0.16348	0.121901	0.927	1.5	0.179891	0.577082
Metabolic	Obesity (HES)	T	378957	9864	369237	0.93	-0.07248	0.053913	0.837	1.03	0.17809	0.577082
Cancer	Bladder cancer (self-reported)	T	378957	892	378209	1.23	0.208456	0.15551	0.909	1.67	0.179087	0.577082
Operations and Procedures	Removal of mole skin lesion (self-reported)	T	378957	5310	373791	1.1	0.0914	0.068107	0.959	1.25	0.179595	0.577082
Musculoskeletal	Back problem (HES and self-reported)	T	378957	11524	367579	0.935	-0.06685	0.049853	0.848	1.03	0.17909	0.577082
Musculoskeletal	Fracture fibula (HES and self-reported)	T	378957	749	378352	1.25	0.25812	0.168918	0.9	1.75	0.181284	0.580736
Medication	Antithrombotic agents	T	378957	59142	319959	0.968	-0.03209	0.024033	0.924	1.02	0.181737	0.581077
Medication	Paracetamol	T	374624	81842	329296	1.03	0.027078	0.020283	0.987	1.07	0.181873	0.581077
Genitourinary	Anal fissure (HES and self-reported)	T	378957	269	378832	1.42	0.354143	0.265976	0.846	2.4	0.183029	0.583996
Cardiovascular	Carotid artery surgery endarterectomy (self-reported)	T	378957	226	378875	0.548	-0.6017	0.452496	0.226	1.33	0.183607	0.585065
Operations and Procedures	Renal kidney transplant (self-reported)	T	378957	252	378849	1.44	0.365637	0.275282	0.84	2.47	0.181404	0.585874
Family history	Father's age at death	T	278443	NA	NA	NA	0.012089	0.009662	-0.00613	0.031746	0.184969	0.58785
Operations and Procedures	Hand finger surgery (self-reported)	T	378957	1664	377437	0.835	-0.18046	0.136264	0.639	1.09	0.185395	0.588417
Operations and Procedures	Excision of lesion of bone	T	378957	466	378635	0.689	-0.37249	0.281419	0.397	1.2	0.185636	0.588417
Musculoskeletal	Osteonecrosis (HES)	T	378957	512	378589	1.3	0.2661	0.201556	0.879	1.94	0.18674	0.590426
Immuno-inflammation	Chronic skin ulcers (HES and self-reported)	T	378957	1331	377770	0.816	-0.20294	0.153674	0.604	1.1	0.186744	0.590426
Family history	Bowel cancer (family history)	T	378957	NA	NA	NA	-0.01092	0.008285	-0.02716	0.005318	0.187452	0.591837
Eye	Other strabismus (HES)	T	378957	823	378278	1.24	0.213913	0.162385	0.901	1.7	0.187732	0.591946
Neurosciences	Other disorders of brain (HES)	T	378957	1438	377663	1.18	0.16504	0.125448	0.922	1.51	0.188307	0.592162
Operations and Procedures	Repair of other hernia of abdominal wall	T	378957	1344	377757	1.19	0.170118	0.129375	0.92	1.53	0.188538	0.592162
Infectious disease	Measles morbillivirus (HES and self-reported)	T	378957	1296	378705	1.19	0.170411	0.129521	0.92	1.53	0.188274	0.592162
Gynaecology and Obstetrics	Labour and delivery complicated by umbilical cord complications (HES)	T	378957	570	378531	1.28	0.249095	0.189656	0.885	1.86	0.189048	0.59299
Operations and Procedures	Colposcopy biopsy (self-reported)	T	378957	1641	377460	0.835	-0.18053	0.137682	0.637	1.09	0.189786	0.593239
Operations and Procedures	Attention to prosthesis in organ NOC	T	378957	2929	376172	1.13	0.17284	0.089848	0.943	1.34	0.189735	0.593239
Neurosciences	Acute infective polyneuritis Guillain Barre syndrome (HES and self-reported)	T	378957	501	378600	0.702	-0.35384	0.271311	0.412	1.19	0.192176	0.594504
Operations and Procedures	Release of entrapment of peripheral nerve at other site	T	378957	778	378233	1.24	0.24832	0.166629	0.897	1.72	0.190102	0.593263
Gynaecology and Obstetrics	Cervical polyps removed (self-reported)	T	378957	370	378731	1.35	0.30486	0.230359	0.861	2.12	0.190613	0.593812
Operations and Procedures	Plastic excision of skin of head or neck	T	378957	208	378893	1.48	0.389393	0.297648	0.824	2.65	0.190789	0.593812
Family history	High blood pressure (family history - sibling)	T	300905	61052	329977	0.97	-0.03071	0.023592	0.926	1.02	0.193063	0.595504
Operations and Procedures	Diagnostic imaging of chest	T	378957	2157	376944	1.15	0.135762	0.104384	0.933	1.41	0.193936	0.595768
Medication	Selective calcium channel blockers with mainly vascular effects	T	378957	2								

ENT	Disorders of vestibular function (HES)	T	378957	871	378230	1.22	0.200361	0.158492	0.896	1.67	0.206139	0.60782
Operations and Procedures	Therapeutic endoscopic operations on cavity of other joint	T	378957	583	378518	1.27	0.240993	0.190763	0.876	1.85	0.206476	0.608069
Operations and Procedures	Diagnostic endoscopic examination of mediastinum	T	378957	587	378514	1.27	0.239974	0.190794	0.875	1.85	0.208478	0.613216
Genitourinary	Excessive frequent and irregular menstruation (HES)	T	378957	11974	367127	0.939	-0.026446	0.049899	0.852	1.04	0.210683	0.618192
Digestive system	Abdominal hernia (HES and self-reported)	T	378957	20644	358457	1.05	0.045974	0.036725	0.974	1.13	0.210618	0.618192
Summary	Infections sexual mode of transmission (HES)	T	378957	253	378848	0.597	-0.51592	0.413316	0.266	1.34	0.211939	0.621121
Summary	Obesity and other hyperalimentation (HES)	T	378957	9921	369180	0.935	-0.06689	0.053653	0.842	1.04	0.212348	0.621189
Respiratory	Pleural plaque (HES)	T	378957	645	378456	1.25	0.227069	0.182124	0.878	1.79	0.212478	0.621189
Family history	Stroke (family history - sibling)	T	300907	9517	291512	0.933	-0.06888	0.055299	0.838	1.04	0.212945	0.621793
Cancer	Mal neo bladder (cancer register)	T	378957	919	378182	1.21	0.190607	0.153484	0.896	1.63	0.214286	0.624958
Operations and Procedures	Appendicectomy (self-reported)	T	378957	45428	333673	1.03	0.031515	0.025592	0.982	1.08	0.214561	0.625003
Medication	Cardiac stimulants excl cardiac glycosides	T	378957	304	378797	0.641	-0.44436	0.358494	0.318	1.29	0.215157	0.625048
Summary	Symptoms circulatory and respiratory systems (HES)	T	378957	45652	333449	0.968	-0.03216	0.026022	0.92	1.02	0.216562	0.625048
Musculoskeletal	Other joint disorders (HES)	T	378957	11928	367173	0.941	-0.06046	0.048937	0.855	1.04	0.216484	0.625048
Musculoskeletal	Systemic lupus erythematosus (HES)	T	378957	324	378777	1.36	0.308692	0.249493	0.835	2.22	0.215984	0.625048
Operations and Procedures	Reconstruction of breast using abdominal flap	T	378957	275	378826	0.623	-0.47338	0.383152	0.294	1.32	0.216652	0.625048
Operations and Procedures	Injection into varicose vein of leg	T	378957	823	378278	1.23	0.202299	0.164392	0.888	1.69	0.216207	0.625048
Operations and Procedures	Other excision of testis	T	378957	508	378593	1.29	0.254381	0.205623	0.862	1.93	0.216043	0.625048
Respiratory	Pneumothorax (HES and self-reported)	T	378957	906	378195	1.21	0.194233	0.156599	0.893	1.65	0.214859	0.625048
Haematology	Aplastic anaemia (HES and self-reported)	T	378957	429	378672	1.31	0.270422	0.219184	0.853	2.01	0.217291	0.626141
Operations and Procedures	Other operations on mastoid	T	378957	342	378595	1.35	0.29889	0.24242	0.838	2.17	0.215798	0.626277
Summary	Congenital malformations of the circulatory system (HES)	T	378957	1083	378018	1.19	0.176928	0.143746	0.9	1.58	0.218382	0.627742
Digestive system	Other disorders of teeth and supporting structures (HES)	T	378957	2410	376691	1.13	0.122087	0.0993	0.93	1.37	0.218889	0.627742
Operations and Procedures	Manipulation of rectum	T	378957	1760	377341	1.15	0.141996	0.11548	0.919	1.45	0.218884	0.627742
Respiratory	Pulmonary oedema (HES)	T	378957	428	378673	0.698	-0.35916	0.293056	0.393	1.24	0.20356	0.631121
Genitourinary	Polyp of female genital tract (HES)	T	378957	9793	369308	1.06	0.06291	0.051404	0.963	1.18	0.221015	0.631121
Operations and Procedures	Pituitary surgery (self-reported)	T	378957	215	378886	0.575	-0.5535	0.452583	0.237	1.4	0.221338	0.631121
Operations and Procedures	Other operations on breast	T	378957	910	378191	0.794	-0.23127	0.189123	0.548	1.15	0.221377	0.631121
Operations and Procedures	Open drainage of peritoneum	T	378957	297	378804	1.37	0.314985	0.25728	0.828	2.27	0.220843	0.631121
Medication	Progestogens	T	378957	2010	377091	1.14	0.131908	0.108237	0.923	1.41	0.22298	0.631144
Cardiovascular	Arterial embolism and thrombosis (HES)	T	378957	839	378262	0.784	-0.24372	0.199577	0.53	1.16	0.220226	0.631144
Musculoskeletal	Other disorders of muscle (HES)	T	378957	806	378295	0.781	-0.24763	0.204223	0.524	1.16	0.223481	0.631144
Gynaecology and Obstetrics	Long labour (HES)	T	378957	1773	377328	0.851	-0.16097	0.131891	0.657	1.1	0.222283	0.631144
Cancer	Cin pre cancer cells cervix (self-reported)	T	378957	1313	377888	0.781	-0.18529	0.152209	0.617	1.12	0.223478	0.631144
Cardiovascular	Blood pressure medication	T	376081	77608	298614	0.974	-0.02635	0.021636	0.934	1.02	0.223180	0.631144
Digestive system	Oesophageal varices (HES and self-reported)	T	378957	501	378600	1.29	0.250797	0.205493	0.859	1.92	0.222287	0.631144
Gynaecology and Obstetrics	Other substance abusedependency (HES and self-reported)	T	378957	10328	368773	0.937	-0.06456	0.053018	0.845	1.04	0.223351	0.631144
Neurosciences	Other disorders of amniotic fluid and membranes (HES)	T	378957	236	378865	0.604	-0.5042	0.414571	0.268	1.36	0.223909	0.631335
Genitourinary	Renal failure requiring dialysis (HES and self-reported)	T	378957	660	378441	0.759	-0.27634	0.227301	0.486	1.18	0.224078	0.631335
Operations and Procedures	Excision or biopsy of lymph node	T	378957	6160	377941	0.921	-0.08282	0.06293	0.805	1.05	0.225266	0.633955
Mental health	Mental and behavioural disorders due to use of tobacco (HES)	T	378957	10134	368697	0.937	-0.06464	0.053495	0.844	1.04	0.225751	0.634579
Gynaecology and Obstetrics	Other obstructed labour (HES)	T	378957	309	378792	1.36	0.304136	0.25136	0.828	2.22	0.226292	0.633538
Neurosciences	Anorexiabulimiaother eating disorder (HES and self-reported)	T	378957	336	378765	1.34	0.293249	0.242737	0.833	2.16	0.227011	0.636635
Neurosciences	Other extrapyramidal and movement disorders (HES)	T	378957	562	378539	0.743	-0.29734	0.246484	0.458	1.2	0.227695	0.636771
Genitourinary	Tubular interstitial nephritis not specified as acute or chronic (HES)	T	378957	837	378264	1.22	0.195764	0.162347	0.885	1.67	0.227882	0.636771
Metabolic	Parathyroidectomy (self-reported)	T	378957	531	378700	0.736	-0.30629	0.254123	0.447	1.21	0.220895	0.636771
Respiratory	Asbestosis (HES and self-reported)	T	378957	271	378830	0.63	-0.4623	0.38345	0.297	1.34	0.227964	0.636771
Gynaecology and Obstetrics	Placental disorders (HES)	T	378957	225	378876	1.41	0.345143	0.287568	0.804	2.48	0.230058	0.633896
Medication	Immunosuppressants	T	378957	3722	375379	1.1	0.096793	0.080816	0.94	1.29	0.231036	0.638396
Family history	Prostate cancer (family history - father)	T	338597	25442	313287	0.96	-0.04039	0.033765	0.899	1.03	0.231614	0.638396
Cancer	Care in situ of other sites (cancer register)	T	378957	561	378540	0.744	-0.2955	0.246691	0.459	1.21	0.230979	0.638396
Operations and Procedures	Other repair of bladder	T	378957	216	378885	1.43	0.355894	0.297301	0.797	2.56	0.231272	0.638396
Operations and Procedures	Operations on bursa	T	378957	1825	377276	0.857	-0.15425	0.128556	0.666	1.1	0.230196	0.638396
Operations and Procedures	Operations on sentinel lymph node	T	378957	1143	377958	0.82	-0.19838	0.165421	0.593	1.13	0.230403	0.638396
Operations and Procedures	Minimal access to other body cavity	T	378957	8899	370202	1.07	0.064142	0.053406	0.96	1.18	0.229739	0.638396
Metabolic	Insulin	T	376081	3934	372288	0.902	-0.10336	0.085971	0.762	1.07	0.229255	0.638396
Digestive system	Umbilical hernia (HES and self-reported)	T	378957	3644	375457	0.898	-0.10713	0.089536	0.754	1.07	0.231481	0.638396
Immuno-inflammation	Lichen planus (HES and self-reported)	T	378957	627	378474	0.756	-0.27934	0.23231	0.479	1.19	0.230985	0.638396
Neurosciences	Stomach or abdominal pain	T	378087	37960	402771	1.03	0.039211	0.027555	0.979	1.09	0.232325	0.639624
Summary	Other diseases of blood and blood forming organs (HES)	T	378957	4191	374910	1.1	0.090819	0.076319	0.943	1.27	0.234047	0.639976
Medication	Anticholinergic agents	T	378957	240	378861	1.4	0.339689	0.285448	0.803	2.46	0.230409	0.639976
Family history	Prostate cancer (family history - father)	T	338597	25442	313287	0.96	-0.04039	0.033765	0.899	1.03	0.231614	0.638396
Operations and Procedures	Other operations on spine	T	378957	4622	374479	0.91	-0.09387	0.078881	0.78	1.06	0.234016	0.639976
Operations and Procedures	Hyperthyroidismthyrotoxicosis (HES and self-reported)	T	378957	4020	375081	0.904	-0.10117	0.084885	0.765	1.07	0.235615	0.641052
Genitourinary	Nephritis (HES and self-reported)	T	378957	1824	377277	1.14	0.134246	0.112783	0.917	1.43	0.233031	0.639976
Medication	Other sex hormones and modulators of the genital system	T	378957	368	378733	1.32	0.27996	0.236129	0.833	2.1	0.235771	0.641052
Operations and Procedures	Other operations on kidney	T	378957	281	378808	1.37	0.315466	0.265656	0.814	2.31	0.235031	0.641052
Operations and Procedures	Diagnostic imaging of genitourinary system	T	378957	4723	374378	0.911	-0.09366	0.078972	0.78	1.06	0.235615	0.641052
Musculoskeletal	Fracture neck cervical fracture (HES and self-reported)	T	378957	345	378756	1.33	0.285278	0.242374	0.827	2.14	0.23919	0.646699
Cardiovascular	Multiple valve diseases (HES)	T	378957	1492	377609	1.16	0.145317	0.123787	0.907	1.47	0.240246	0.648909
Medication	Other diagnostic agents	T	378957	392	378709	0.699	-0.35876	0.306035	0.883	1.27	0.241085	0.648909
Operations and Procedures	Intramuscular injection	T	378957	1308	377793	0.835	-0.18012	0.15364	0.618	1.13	0.241046	0.648909
Musculoskeletal	Fracture sternum (HES and self-reported)	T	378957	240	378861	0.616	-0.48508	0.413594	0.274	1.38	0.240864	0.648909
Respiratory	FEV1 FVC ratio	T	286064	NA	NA	NA	-0.11224	0.095951	-0.00757	0.030021	0.241888	0.650344
Musculoskeletal	Other joint disorder (HES and self-reported)	T	378957	9807	369294	0.939	-0.06315	0.054037	0.844	1.04	0.242533	0.651351
Summary	Other congenital malformations of the digestive system (HES)	T	378957	632	378469	1.24	0.215383	0.184472	0.864	1.78	0.242983	0.651833
Medication	Vitamin a and d incl combinations of the two	T	378957	10191	368182	1.06	0.07015	0.048972	0.962	1.17	0.244328	0.653374
Musculoskeletal	Paget's disease of bone (HES)	T	3									

Cardiovascular	Heart failure (HES)	T	378957	4854	374247	0.917	-0.08626	0.077071	0.789	1.07	0.263035	0.677702
Operations and Procedures	Other operations on trabecular meshwork of eye	T	378957	236	378865	0.629	-0.46331	0.413747	0.28	1.42	0.262802	0.677702
Summary	Other congenital malformations (HES)	T	378957	615	378486	1.23	0.209381	0.187468	0.854	1.78	0.264044	0.67819
Cardiovascular	Varicose veins of lower extremities (HES)	T	378957	9985	369116	1.06	0.056751	0.050874	0.958	1.17	0.264632	0.67819
Gynaecology and Obstetrics	Myomectomy fibroids removed (self-reported)	T	378957	2071	37030	1.13	0.119245	0.106761	0.914	1.39	0.264021	0.67819
Operations and Procedures	Operations on omentum	T	378957	1948	377153	0.871	-0.13844	0.123969	0.683	1.11	0.264121	0.67819
Operations and Procedures	Other primary fusion of other joint	T	378957	1462	377639	0.851	-0.16093	0.144215	0.642	1.13	0.264456	0.67819
Medication	Opioids	T	378957	102262	276839	1.02	0.020977	0.018818	0.984	1.06	0.264972	0.67834
Eye	Diabetic eye disease (HES and self-reported)	T	378957	1737	377364	0.865	-0.14555	0.130747	0.669	1.12	0.265613	0.67925
Respiratory	Pneumothorax (HES)	T	378957	762	378339	1.21	0.189347	0.171084	0.864	1.69	0.268402	0.682816
Gynaecology and Obstetrics	Spontaneous abortion (HES)	T	378957	1258	377843	0.841	-0.17352	0.157102	0.618	1.14	0.26937	0.682816
Operations and Procedures	Muscle soft tissue surgery (self-reported)	T	378957	10926	368175	1.06	0.053969	0.048743	0.959	1.16	0.268201	0.682816
Operations and Procedures	Arteriovenous shunt	T	378957	297	378804	0.673	-0.39598	0.358608	0.333	1.36	0.269504	0.682816
Cardiovascular	Heart valve problem/heart murmur (HES and self-reported)	T	378957	7532	371569	0.934	-0.0676	0.061321	0.829	1.05	0.268894	0.682816
Cardiovascular	Arterial embolism (HES and self-reported)	T	378957	762	378339	0.795	-0.22943	0.207801	0.529	1.19	0.269555	0.682816
Eye	Optic neuritis (HES and self-reported)	T	378957	206	378895	0.606	-0.50142	0.452872	0.249	1.47	0.268212	0.682816
Musculoskeletal	Fracture face orbit eye socket (HES and self-reported)	T	378957	477	378624	0.741	-0.2994	0.271516	0.435	1.26	0.269291	0.682816
Other	Getting up in morning	T	377919	NA	NA	-0.00921	0.008331	-0.02554	0.007116	0.268797	0.682816	
Operations and Procedures	Other operations on blood vessel	T	378957	317	378784	0.689	-0.37211	0.338425	0.355	1.34	0.271514	0.687122
Summary	Urolithiasis (HES)	T	378957	5984	373117	0.927	-0.07621	0.069365	0.809	1.06	0.271907	0.687328
Operations and Procedures	Autonomic cardiovascular testing	T	378957	235	378866	0.636	-0.4531	0.413683	0.283	1.43	0.273391	0.690355
Gynaecology and Obstetrics	Mammoplasty cosmetic operation on breast (self-reported)	T	378957	2699	376402	0.892	-0.11389	0.104085	0.728	1.09	0.273884	0.690876
Operations and Procedures	Excirpation of lesion of conjunctiva	T	378957	351	378750	0.704	-0.35045	0.321034	0.375	1.32	0.275004	0.692498
Operations and Procedures	Destruction of lesion of cervix uteri	T	378957	2136	376965	0.879	-0.12902	0.118212	0.697	1.11	0.275102	0.692498
Summary	Coagulation defects purpura and other haemorrhagic conditions (HES)	T	378957	2426	376675	1.11	0.108133	0.09929	0.917	1.35	0.27126	0.69435
Cancer	Non melanoma skin cancer (self-reported)	T	378957	550	378551	0.765	-0.26755	0.246623	0.472	1.24	0.277981	0.695385
Operations and Procedures	Bone surgery joint surgery (self-reported)	T	378957	3136	375965	0.901	-0.10438	0.096206	0.746	1.09	0.277935	0.695385
Summary	Mal ne of digestive organs (cancer register)	T	378957	5957	373144	1.07	0.070511	0.064848	0.945	1.22	0.276893	0.695385
Genitourinary	Kidney nephropathy (HES and self-reported)	T	378957	417	378684	1.28	0.243551	0.224219	0.822	1.98	0.277381	0.695385
Gynaecology and Obstetrics	Dysmenorrhoea dysmenorrhea (HES and self-reported)	T	378957	1606	377495	0.862	-0.14866	0.13691	0.659	1.13	0.277547	0.695385
Genitourinary	Inflammatory disease of uterus except cervix (HES)	T	378957	260	378841	0.66	-0.4153	0.383443	0.311	1.4	0.27877	0.696636
Operations and Procedures	Sampling of lymph nodes	T	378957	2952	376149	0.898	-0.1072	0.091953	0.74	1.09	0.276909	0.698008
Operations and Procedures	Other cardiac pacemaker system	T	378957	1141	377960	0.839	-0.17601	0.163389	0.609	1.16	0.28136	0.701652
Operations and Procedures	Removal of products of delivered uterus	T	378957	339	378762	0.707	-0.34687	0.322269	0.376	1.33	0.281772	0.701713
Immuno-inflammation	Eczemadermatitis (HES and self-reported)	T	378957	11296	367805	1.05	0.051437	0.047807	0.959	1.16	0.281967	0.701713
Summary	Intestinal infectious diseases (HES)	T	378957	8022	371079	1.06	0.060426	0.056433	0.951	1.19	0.284251	0.70321
Mental health	Specific personality disorders (HES)	T	378957	293	378808	0.681	-0.38433	0.358693	0.337	1.38	0.283702	0.70321
Symptoms	Somnolence stupor and coma (HES)	T	378957	636	378465	0.784	-0.24351	0.227436	0.502	1.22	0.28432	0.70321
Symptoms	Enlarged lymph nodes (HES)	T	378957	2200	376901	1.12	0.11622	0.104247	0.911	1.37	0.284285	0.70321
Operations and Procedures	Other caesarean delivery	T	378957	1946	377155	0.875	-0.13556	0.124379	0.686	1.12	0.282982	0.70321
Digestive system	Ultrasound scan (self-reported)	T	378957	230	378871	0.644	-0.43963	0.413833	0.286	1.45	0.288088	0.708167
Operations and Procedures	Other operations on anterior abdominal wall	T	378957	600	378501	1.22	0.202115	0.190611	0.842	1.78	0.289883	0.708199
Operations and Procedures	Revisonal decompression operations on lumbar spine	T	378957	287	378814	0.684	-0.38046	0.358804	0.338	1.38	0.288979	0.708199
Operations and Procedures	Other open operations on intra articular structure	T	378957	1473	377628	0.859	-0.15149	0.142818	0.65	1.14	0.288812	0.708199
Medication	Omeprazole g Zanprol	T	374624	2244	375254	0.963	-0.03809	0.036039	0.897	1.03	0.290565	0.711353
Respiratory	Pneumonia due to solids and liquids (HES)	T	378957	560	378589	1.23	0.208124	0.197626	0.836	1.81	0.292286	0.71484
Operations and Procedures	Other puncture of liver	T	378957	403	378698	1.27	0.241532	0.22961	0.812	2	0.292834	0.715165
Cardiovascular	Subarachnoid haemorrhage (HES and self-reported)	T	378957	936	378165	1.18	0.16491	0.156429	0.868	1.6	0.293013	0.715165
Operations and Procedures	Excision of organ NOC	T	378957	1832	377269	1.13	0.119041	0.113355	0.902	1.41	0.293641	0.715383
Respiratory	Chronic obstructive airways diseasecopd (HES and self-reported)	T	378957	8796	373035	1.06	0.057312	0.054851	0.952	1.18	0.293691	0.715383
Operations and Procedures	Other operations on tonsil	T	378957	503	378598	0.76	-0.27505	0.26231	0.454	1.27	0.294357	0.715165
Genitourinary	Pyelonephritis (HES and self-reported)	T	378957	1141	377960	1.16	0.14879	0.14278	0.878	1.53	0.295675	0.718025
Musculoskeletal	Scoliosis (HES and self-reported)	T	378957	1135	377966	0.843	-0.1706	0.163306	0.612	1.16	0.296169	0.718501
Respiratory	Pleural plaques not known asbestosis (HES and self-reported)	T	378957	690	378411	1.21	0.18707	0.179189	0.849	1.71	0.296565	0.718963
Operations and Procedures	Dilation of organ NOC	T	378957	512	378589	0.767	-0.26495	0.251816	0.466	1.26	0.29257	0.719691
Summary	Other soft tissue disorders (HES)	T	378957	25100	354001	1.04	0.034416	0.033057	0.97	1.1	0.297834	0.720364
Operations and Procedures	Other leg region	T	378957	287	378814	0.689	-0.37313	0.358797	0.341	1.39	0.298363	0.720919
Operations and Procedures	Operations on urethral orifice	T	378957	464	378637	0.754	-0.28223	0.271674	0.443	1.28	0.298873	0.721428
Respiratory	Pleural effusion (HES)	T	378957	4725	374376	1.08	0.075045	0.072419	0.935	1.24	0.298715	0.720727
Summary	Schizophrenia schizotypal and delusional disorders (HES)	T	378957	899	378202	0.823	-0.19514	0.189029	0.568	1.19	0.301916	0.723782
Infectious disease	Bacterial agents as the cause of diseases (HES)	T	378957	7935	371166	1.06	0.058725	0.056899	0.949	1.19	0.302028	0.723782
Neurosciences	Epilepsy (HES)	T	378957	3387	375714	1.09	0.080803	0.085332	0.924	1.29	0.30252	0.723782
Operations and Procedures	Knee surgery not replacement (self-reported)	T	378957	12555	366546	0.952	-0.04944	0.04776	0.867	1.05	0.300549	0.723782
ENT	Rhinoplasty nose surgery (self-reported)	T	378957	2193	376908	0.887	-0.11947	0.115692	0.707	1.11	0.301748	0.723782
Operations and Procedures	Other excision of right hemicolon	T	378957	1421	377680	0.86	-0.1504	0.145728	0.647	1.14	0.302037	0.723782
Operations and Procedures	Attention to skin expander in subcutaneous tissue	T	378957	431	378670	0.748	-0.29089	0.281935	0.433	1.3	0.302192	0.723782
Respiratory	Pyothorax (HES)	T	378957	288	378813	1.31	0.273698	0.265511	0.781	2.21	0.302612	0.723934
Infectious disease	Herpesviral (HES)	T	378957	442	378659	1.25	0.225591	0.219035	0.816	1.92	0.303043	0.724237
Operations and Procedures	Excision of lung	T	378957	232	378869	0.654	-0.42414	0.413783	0.291	1.47	0.305352	0.729032
Operations and Procedures	Other operations on delivered uterus	T	378957	810	378291	1.19	0.170411	0.166528	0.856	1.64	0.306116	0.729644
Operations and Procedures	Therapeutic endoscopic operations on cavity of knee joint	T	378957	4112	374989	0.919	-0.085	0.083122	0.78	1.08	0.306517	0.729644
Medication	Antipsychotics	T	378957	2920	376181	0.903	-0.10181	0.099767	0.743	1.1	0.30748	0.730951
Operations and Procedures	Extrication of lesion of vagina	T	378957	675	378426	0.801	-0.22149	0.217123	0.524	1.23	0.307673	0.730951
Eye	Eye surgery (self-reported)	T	378957	3495	375606	0.912	-0.09246	0.090817	0.763	1.09	0.308657	0.73495
Operations and Procedures	Removal of repair material from skin	T	378957	460	378641	0.759	-0.27616	0.271585	0.446	1.29	0.309223	0.73495
Operations and Procedures	Other operations on eyelid	T	378957	931	378170	0.831	-0.18565	0.182953	0.58	1.19	0.310227	0.734123
Digestive system	Gastroenteritis/dysentry (HES and self-reported)	T	378957	8121	370980	1.06	0.056788	0.051683	0.948	1.18	0.312123	0.737885
Operations and Procedures	Therapeutic spinal puncture	T	378957	2863	376238	1.1						

Summary	Disorders of vitreous body and globe (HES)	T	378957	1565	377536	1.13	0.117966	0.121105	0.887	1.43	0.330018	0.755305
Operations and Procedures	CT scan (self-reported)	T	378957	307	378794	0.79	-0.32977	0.338535	0.37	1.4	0.33	0.755305
Gynaecology and Obstetrics	Miscarriage (HES and self-reported)	T	378957	1976	377125	0.88	-0.11878	0.121978	0.699	1.13	0.330152	0.755305
Summary	Infectious arthropathies (HES)	T	378957	428	378673	1.24	0.217938	0.224061	0.802	1.93	0.330715	0.755305
Summary	General symptoms and signs (HES)	T	378957	41556	337545	0.974	-0.02617	0.02694	0.924	1.03	0.331371	0.756657
Digestive system	Other diseases of jaws (HES)	T	378957	301	378800	1.29	0.257174	0.265152	0.769	2.17	0.33209	0.757551
Operations and Procedures	Abdominal pelvic adhesion surgery (self-reported)	T	378957	1192	377909	1.14	0.135277	0.139651	0.871	1.51	0.332633	0.757551
Musculoskeletal	Myositis/sympathy (HES and self-reported)	T	378957	338	378763	0.733	-0.31115	0.321207	0.39	1.37	0.332705	0.757551
Operations and Procedures	Inguinal femoral hernia repair (self-reported)	T	378957	12611	366490	1.05	0.044741	0.046243	0.955	1.14	0.333285	0.758153
Gynaecology and Obstetrics	Breast cyst abscess removal (self-reported)	T	378957	3620	375481	1.08	0.080134	0.082931	0.921	1.27	0.333904	0.758844
ENT	Other diseases of inner ear (HES)	T	378957	734	378367	0.818	-0.0063	0.020779	0.545	1.23	0.334245	0.758903
Operations and Procedures	Primary repair of tendon	T	378957	2574	376527	0.902	-0.10286	0.106612	0.732	1.11	0.334654	0.759116
Operations and Procedures	Fusion of joint of toe	T	378957	3193	375908	0.913	-0.09138	0.094784	0.758	1.1	0.334984	0.759155
ENT	Labyrinthitis (HES and self-reported)	T	378957	839	378262	0.831	-0.18517	0.192463	0.57	1.21	0.333594	0.760714
Medication	Other systemic drugs for obstructive airway diseases	T	378957	21417	357684	1.03	0.0342	0.035574	0.965	1.11	0.33636	0.760837
Operations and Procedures	Other diagnostic tests	T	378957	994	378107	0.845	-0.16792	0.174826	0.6	1.19	0.336819	0.76116
Operations and Procedures	Excision of ganglion	T	378957	2429	376672	1.1	0.095975	0.101986	0.904	1.34	0.33808	0.762579
Musculoskeletal	Osteomyelitis (HES and self-reported)	T	378957	1062	378039	0.85	-0.16279	0.169851	0.609	1.19	0.337844	0.762579
Genitourinary	Other noninflammatory disorders of vagina (HES)	T	378957	1392	377709	0.87	-0.13947	0.145937	0.653	1.16	0.339229	0.763628
Operations and Procedures	Exploration of vagina	T	378957	1868	377233	0.887	-0.11946	0.125067	0.694	1.13	0.339496	0.763628
Neurosciences	Multiple sclerosis (HES and self-reported)	T	378957	1635	377466	1.12	0.11791	0.120128	0.886	1.42	0.339287	0.763628
Musculoskeletal	Acquired deformities of musculoskeletal (HES)	T	378957	329	378772	1.28	0.244685	0.256602	0.772	2.11	0.340306	0.763947
Operations and Procedures	Fixation of mandible	T	378957	258	378843	0.694	-0.36571	0.383372	0.327	1.47	0.340118	0.763947
Neurosciences	Paraplegia (HES and self-reported)	T	378957	312	378789	0.724	-0.32524	0.338448	0.373	1.41	0.340589	0.763947
Operations and Procedures	Excision of haemorrhoid	T	378957	2721	376380	1.09	0.09036	0.094932	0.909	1.32	0.341175	0.764549
Digestive system	Diseases of tongue (HES)	T	378957	1106	377995	1.15	0.137649	0.145035	0.864	1.52	0.342582	0.766277
Gynaecology and Obstetrics	Cervical polyps (HES and self-reported)	T	378957	3066	376035	1.09	0.08488	0.089424	0.914	1.3	0.342525	0.766277
Medication	Low ceiling diuretics thiazides	T	378957	23557	355544	0.967	-0.03333	0.035192	0.903	1.04	0.343648	0.76684
Medication	Anti acne preparations for topical use	T	378957	1608	377493	0.879	-0.12898	0.136324	0.673	1.15	0.344073	0.76684
Operations and Procedures	Lung removal pneumonectomy lobectomy (self-reported)	T	378957	614	378487	1.2	0.180294	0.190575	0.824	1.74	0.344107	0.76684
Operations and Procedures	Biopsy (self-reported)	T	378957	275	378826	0.712	-0.3397	0.358997	0.352	1.44	0.344016	0.76684
Musculoskeletal	Arthrosis of first carpometacarpal joint (HES)	T	378957	1179	377922	0.86	-0.15063	0.159338	0.629	1.18	0.344481	0.766964
Cardiovascular	Other acute ischaemic heart diseases (HES)	T	378957	1278	377823	1.14	0.128358	0.13602	0.871	1.48	0.345339	0.768164
Operations and Procedures	Reconstruction of nipple and areola	T	378957	637	378464	0.811	-0.20937	0.222271	0.525	1.25	0.346217	0.769407
Medication	Drugs for constipation	T	378957	6110	377991	0.938	-0.06351	0.06804	0.821	1.07	0.350581	0.770323
Mental health	Reaction to severe stress and adjustment disorders (HES)	T	378957	481	378620	0.783	-0.24407	0.26256	0.468	1.31	0.352597	0.770323
Respiratory	Chronic diseases of tonsils and adenoids (HES)	T	378957	904	378197	0.84	-0.17411	0.185996	0.584	1.21	0.349237	0.770323
Digestive system	Vascular disorders of intestine (HES)	T	378957	936	378165	0.845	-0.16837	0.180188	0.594	1.2	0.350089	0.770323
Digestive system	Other inflammatory liver diseases (HES)	T	378957	623	378478	0.809	-0.21181	0.227508	0.518	1.26	0.351847	0.770323
Immuno-inflammation	Other epidermal thickening (HES)	T	378957	608	378493	1.19	0.177149	0.190582	0.822	1.73	0.352623	0.770323
Musculoskeletal	Shoulder lesions (HES)	T	378957	8336	377065	1.05	0.15621	0.155538	0.945	1.17	0.351273	0.770323
Gynaecology and Obstetrics	False labour (HES)	T	378957	973	378128	1.15	0.143961	0.154015	0.854	1.56	0.349933	0.770323
Cancer	Basal cell carcinoma (self-reported)	T	378957	3552	377549	1.08	0.077179	0.082933	0.918	1.27	0.352048	0.770323
Family history	Stroke (family history - mother)	T	357389	49690	307839	0.977	-0.02337	0.025064	0.93	1.03	0.351118	0.770323
Other	Wheeze or whistling in chest in last year	T	371840	77179	294800	0.981	-0.01961	0.020922	0.941	1.02	0.348591	0.770323
Operations and Procedures	Other adjustment muscle of eye	T	378957	211	378890	1.34	0.28993	0.309934	0.728	2.45	0.349598	0.770323
Operations and Procedures	Total excision of bladder	T	378957	315	378786	1.27	0.24167	0.256971	0.769	2.11	0.347988	0.770323
Operations and Procedures	Introduction of substance into skin	T	378957	217	378884	0.679	-0.38665	0.41416	0.302	1.53	0.350523	0.770323
Operations and Procedures	Excision of muscle	T	378957	476	378625	0.783	-0.24419	0.262544	0.468	1.31	0.352325	0.770323
Medication	Multivitamins minerals	T	376892	81736	295300	0.981	-0.01895	0.020931	0.943	1.02	0.352705	0.770323
ENT	Chronic laryngitis (HES and self-reported)	T	378957	1014	378087	0.85	-0.16278	0.174758	0.603	1.2	0.351485	0.770323
Anthropometry	Total tissue fat percentage	T	4100	NA	NA	NA	0.080301	0.086035	-0.08833	0.248929	0.350639	0.770323
Biological assays	Haemoglobin concentration	T	367722	NA	NA	NA	0.00927	0.008438	-0.00861	0.024465	0.347518	0.770323
Cardiovascular	Congenital malformations of cardiac septa (HES)	T	378957	521	378580	1.21	0.190591	0.205245	0.809	1.81	0.350304	0.770474
Haematology	Other disorders of white blood cells (HES)	T	378957	309	378792	0.731	-0.13161	0.138494	0.376	1.42	0.354198	0.770789
Musculoskeletal	Enthesopathies of lower limb excluding foot (HES)	T	378957	393	378708	0.762	-0.27198	0.293881	0.429	1.35	0.353893	0.770789
Operations and Procedures	Stomach surgery (self-reported)	T	378957	2197	376904	0.898	-0.10794	0.116392	0.715	1.13	0.353738	0.770789
Digestive system	Sclerosing cholangitis (HES and self-reported)	T	378957	454	378647	1.22	0.20254	0.218872	0.797	1.88	0.355447	0.772112
ENT	Tonsitis (HES and self-reported)	T	378957	3534	375567	0.921	-0.0871	0.089477	0.773	1.1	0.355303	0.772112
Metabolic	Other nontoxic goitre (HES)	T	378957	1508	377593	0.879	-0.12941	0.140227	0.667	1.16	0.356071	0.77277
Mental health	Other mental disorders due to brain damage (HES)	T	378957	212	378889	1.33	0.284753	0.309955	0.724	2.44	0.352826	0.771547
Symptoms	Unspecified urinary incontinence (HES)	T	378957	2162	376939	1.1	0.097315	0.105896	0.896	1.36	0.358113	0.771547
Operations and Procedures	Other operations on palate	T	378957	1051	378050	0.854	-0.17822	0.172229	0.609	1.2	0.350686	0.771547
Musculoskeletal	Fracture shoulder scapula (HES and self-reported)	T	378957	2722	376379	0.91	-0.09484	0.103273	0.743	1.11	0.35453	0.771547
Digestive system	Inguinal hernia (HES)	T	378957	14392	364709	1.04	0.040212	0.043831	0.955	1.13	0.358908	0.775434
Operations and Procedures	Vaginal operations to support outlet of female bladder	T	378957	3234	375867	0.917	-0.08683	0.094129	0.763	1.1	0.35924	0.775456
Operations and Procedures	Other total prosthetic replacement of knee joint	T	378957	844	378785	0.841	-0.17334	0.189352	0.58	1.22	0.358959	0.776175
Cardiovascular	Other conduction disorders (HES)	T	378957	1981	377120	0.896	-0.11011	0.120534	0.707	1.13	0.360980	0.777838
Medication	Low ceiling diuretics excl thiazides	T	378957	1449	377652	1.12	0.114893	0.126452	0.876	1.44	0.363569	0.777877
Neurosciences	Transient cerebral ischaemic attacks and related syndromes (HES)	T	378957	2348	376753	1.1	0.09282	0.101804	0.898	1.34	0.364689	0.778777
Cardiovascular	Other pulmonary heart diseases (HES)	T	378957	745	378356	1.17	0.157586	0.175333	0.833	1.64	0.363823	0.778777
Digestive system	Other diseases of gallbladder (HES)	T	378957	1619	377482	1.12	0.109754	0.120937	0.88	1.41	0.364125	0.778777
Musculoskeletal	Ankylosing spondylitis (HES)	T	378957	573	378528	1.2	0.178265	0.197443	0.812	1.76	0.365694	0.778777
Symptoms	Flatulence and related conditions (HES)	T	378957	1544	377587	0.882	-0.12541	0.138834	0.672	1.16	0.366382	0.778777
Cancer	Rodent ulcer (self-reported)	T	378957	540	378561	1.2	0.183215	0.201367	0.809	1.78	0.362898	0.778777
Operations and Procedures	Incision of breast	T	378957	615	378486	0.814	-0.20592	0.227665	0.521	1.27	0.365728	0.778777
Operations and Procedures	Operations on turbinate of nose	T	378957	2985	376116	1.09	0.08269	0.091485	0.908	1.3	0.365609	0.778777
Operations and Procedures	Repair of vault of vagina	T	378957	1152	377949	1.14	0.129788					

Operations and Procedures	Excision of sigmoid colon	T	378957	638	378463	0.822	-0.19653	0.222149	0.532	1.27	0.376327	0.78129
Operations and Procedures	Other operations on bladder	T	378957	1638	377463	1.11	0.105353	0.120183	0.878	1.41	0.3807	0.78129
Operations and Procedures	Debridement and irrigation of joint	T	378957	1526	377575	0.885	-0.121218	0.138865	0.674	1.16	0.378924	0.78129
Medication	Aspirin	T	374624	52613	321255	0.978	-0.02187	0.024968	0.932	1.03	0.381177	0.78129
Mental health	Schizophrenia (HES and self-reported)	T	378957	686	378415	1.17	0.161122	0.184126	0.819	1.69	0.38154	0.78129
Respiratory	Empyema (HES and self-reported)	T	378957	299	378802	1.26	0.232536	0.265236	0.75	2.12	0.380642	0.78129
Mental health	Postnatal depression (HES and self-reported)	T	378957	311	378790	1.26	0.227559	0.257128	0.759	2.08	0.376155	0.78129
Musculoskeletal	Other fractures (HES and self-reported)	T	378957	5304	373797	1.06	0.060394	0.069001	0.928	1.22	0.381431	0.78129
Musculoskeletal	L1 L4 BMD bone mineral density	T	4083	NA	NA	NA	-0.0763	0.086284	-0.24541	0.09282	0.376562	0.78129
Family history	Mother's age at death	T	222989	NA	NA	NA	0.009536	0.010759	-0.01155	0.030623	0.375435	0.78129
Musculoskeletal	Musculoskeletal tissue problem (HES and self-reported)	T	378957	32458	346643	1.03	0.025706	0.029489	0.968	1.09	0.38336	0.783968
Medication	Other cardiac preparations	T	378957	50254	328847	1.02	0.021302	0.024547	0.974	1.07	0.385497	0.787002
NA	Intracerebral haemorrhage	T	378957	792	378309	0.843	-0.17021	0.196112	0.574	1.24	0.385447	0.787002
Digestive system	Rectal prolapse (HES and self-reported)	T	378957	1030	378071	1.14	0.129783	0.149702	0.849	1.53	0.385975	0.787311
Gynaecology and Obstetrics	Unilateral oophorectomy (self-reported)	T	378957	2254	376847	1.09	0.08994	0.103952	0.892	1.34	0.386715	0.787855
Operations and Procedures	Fixation of rectum for prolapse	T	378957	293	378808	0.746	-0.29319	0.338842	0.384	1.45	0.386894	0.787855
Symptoms	Haemorrhage from respiratory passages (HES)	T	378957	4000	375101	1.07	0.068452	0.079209	0.917	1.25	0.387478	0.788374
Operations and Procedures	Diagnostic imaging of digestive tract	T	378957	243	378858	0.718	-0.33134	0.383697	0.338	1.52	0.387835	0.788434
Summary	HESCH Diseases of the skin and subcutaneous tissue (HES)	T	378957	37154	341947	1.02	0.023919	0.027826	0.97	1.08	0.390017	0.791503
Operations and Procedures	Other repair of prolapse of vagina	T	378957	7298	371803	1.05	0.051352	0.059719	0.936	1.18	0.389845	0.791503
Operations and Procedures	Other operations on fallopian tube	T	378957	950	378151	0.856	-0.15598	0.181581	0.599	1.22	0.39033	0.791503
Summary	Behav syn assoc with phys disturb and phys fact (HES)	T	378957	424	378677	1.22	0.19517	0.229356	0.775	1.91	0.394798	0.795294
Digestive system	Umbilical hernia (HES)	T	378957	3437	375664	0.926	-0.07706	0.090975	0.775	1.11	0.39699	0.795294
Musculoskeletal	Scoliosis (HES)	T	378957	942	378159	0.86	-0.15074	0.177552	0.607	1.22	0.395887	0.795294
Genitourinary	Hydrocoele and spermatocele (HES)	T	378957	1221	377880	1.13	0.11889	0.139844	0.856	1.48	0.395234	0.795294
Gynaecology and Obstetrics	Unspecified maternal hypertension (HES)	T	378957	540	378561	1.19	0.171951	0.20308	0.798	1.77	0.397152	0.795294
Medication	Antiepileptics	T	378957	6896	372205	0.947	-0.05412	0.063918	0.836	1.07	0.397113	0.795294
Cancer	Car in situ other genital (cancer register)	T	378957	466	378635	0.8	-0.22315	0.262736	0.478	1.34	0.395696	0.795294
Operations and Procedures	Other therapeutic operations on oesophagus	T	378957	331	378770	1.24	0.218118	0.256561	0.752	2.06	0.395236	0.795294
Operations and Procedures	Catheterisation of heart	T	378957	776	378235	1.16	0.146051	0.171056	0.828	1.62	0.393207	0.795294
Gynaecology and Obstetrics	Primary excision of cervical intervertebral disc	T	378957	805	378296	0.846	-0.16707	0.196002	0.576	1.24	0.393994	0.795294
ENT	Vocal cord polyp (HES and self-reported)	T	378957	392	378709	0.779	-0.24913	0.293404	0.439	1.39	0.395826	0.795294
Cardiovascular	Pericarditis (HES and self-reported)	T	378957	1193	377908	0.875	-0.13371	0.157431	0.643	1.19	0.395703	0.795294
Immuno-inflammation	Allergy to house dust mite (HES and self-reported)	T	378957	279	378822	1.26	0.232416	0.274489	0.737	2.16	0.397149	0.795294
Cardiovascular	QRS duration	T	8938	NA	NA	NA	0.048524	0.057018	-0.06323	0.160279	0.394755	0.795294
Medication	Antivertigo preparations	T	378957	1504	377597	1.11	0.106703	0.126288	0.869	1.43	0.398131	0.796593
Gynaecology and Obstetrics	Ectopic pregnancy (HES)	T	378957	264	378837	0.739	-0.30242	0.360181	0.365	1.5	0.401019	0.797912
Symptoms	Cardiac murmurs and other cardiac sounds (HES)	T	378957	965	378136	1.14	0.130078	0.154641	0.841	1.54	0.400257	0.797912
Operations and Procedures	Other operations on retina	T	378957	498	378603	0.807	-0.21418	0.254384	0.49	1.33	0.399819	0.797912
Operations and Procedures	Therapeutic transluminal operations on heart	T	378957	862	378239	0.855	-0.15647	0.186172	0.594	1.23	0.400466	0.797912
Operations and Procedures	Repair of recurrent inguinal hernia	T	378957	1175	377926	1.13	0.118965	0.141286	0.854	1.49	0.39978	0.797912
Digestive system	Inflammatory bowel disease (HES and self-reported)	T	378957	4246	374855	1.07	0.064541	0.076864	0.917	1.24	0.401084	0.797912
Musculoskeletal	Spine BMD bone mineral density	T	4100	NA	NA	NA	-0.07259	0.0863	-0.24174	0.096561	0.400293	0.797912
Symptoms	Unspecified haematuria (HES)	T	378957	14238	364863	1.04	0.036207	0.041838	0.953	1.13	0.401774	0.798576
Digestive system	Crohn's disease (HES)	T	378957	1547	377554	1.11	0.140366	0.1424551	0.87	1.42	0.402797	0.79929
Operations and Procedures	Examination of organ NOC	T	378957	581	378520	1.18	0.165214	0.197353	0.801	1.74	0.402507	0.79929
Medication	Vasodilators used in cardiac diseases	T	378957	5385	373716	0.941	-0.06079	0.072844	0.816	1.09	0.404008	0.800376
Operations and Procedures	Soft tissue operations on joint of toe	T	378957	2721	376380	0.918	-0.08558	0.102494	0.751	1.12	0.403718	0.800376
Summary	Disorders of skin appendages (HES)	T	378957	9390	369711	1.04	0.04392	0.052751	0.942	1.16	0.405068	0.800792
Operations and Procedures	Excision of other artery	T	378957	498	378603	1.19	0.174493	0.209641	0.789	1.8	0.405216	0.800792
Operations and Procedures	Other destruction of lesion of skin of head or neck	T	378957	325	378776	0.765	-0.26774	0.321411	0.408	1.44	0.404836	0.800792
Operations and Procedures	Elective caesarean delivery	T	378957	1697	374704	1.11	0.10032	0.120658	0.873	1.4	0.405725	0.801141
Summary	HESCH Chapter IX Diseases of the circulatory system BIN (HES)	T	378957	117038	262063	0.985	-0.01552	0.018743	0.949	1.02	0.407616	0.802272
ENT	Perforation of tympanic membrane (HES)	T	378957	870	378231	1.15	0.135699	0.164123	0.83	1.58	0.408343	0.802272
Mental health	Seen a psychiatrist for nerves anxiety tension or depression	T	377176	43632	336888	0.978	-0.0218	0.026309	0.929	1.03	0.407366	0.802272
Operations and Procedures	Extrication of lesion of penis	T	378957	221	378880	1.29	0.256084	0.309696	0.704	2.37	0.4083	0.802272
Operations and Procedures	Freeing of tendon	T	378957	652	378449	1.17	0.154845	0.187195	0.809	1.68	0.408131	0.802272
Infectious disease	Mumps epidemic parotitis (HES and self-reported)	T	378957	830	378271	1.15	0.136075	0.164347	0.83	1.58	0.407688	0.802272
Eye	Corneal resistance factor left	T	81021	NA	NA	NA	-0.01469	0.017774	-0.04952	0.02015	0.408629	0.802272
Medication	Antibiotics for topical use	T	378957	1432	377669	1.11	0.106756	0.130165	0.862	1.44	0.412127	0.803122
Medication	Corticosteroid other combinations	T	378957	9688	369413	1.04	0.041813	0.051814	0.942	1.15	0.41968	0.803122
Summary	Other osteopathies (HES)	T	378957	2866	376235	0.921	-0.08217	0.099805	0.757	1.12	0.410319	0.803122
Summary	Congenital malformations of genital organs (HES)	T	378957	628	378473	0.836	-0.17657	0.222194	0.541	1.29	0.418985	0.803122
Eye	Disorders of refraction and accommodation (HES)	T	378957	1639	377462	1.1	0.097707	0.120161	0.871	1.4	0.416142	0.803122
Respiratory	Diseases of vocal cords and larynx (HES)	T	378957	1561	377540	0.895	-0.11095	0.137606	0.683	1.17	0.420064	0.803122
Immuno-inflammation	Cellulitis (HES)	T	378957	6570	372531	0.948	-0.05317	0.065368	0.834	1.08	0.415995	0.803122
Genitourinary	Redundant prepuce phimosis and paraphimosis (HES)	T	378957	1890	377211	1.1	0.193442	0.114975	0.876	1.38	0.416381	0.803122
Gynaecology and Obstetrics	Gestational hypertension with significant proteinuria (HES)	T	378957	289	378812	0.758	-0.27767	0.339916	0.389	1.47	0.413991	0.803122
Gynaecology and Obstetrics	Retained placenta and membranes without haemorrhage (HES)	T	378957	203	378898	0.715	-0.33508	0.415398	0.317	1.61	0.419873	0.803122
Medication	Throat preparations	T	378957	49826	329275	1.02	0.020159	0.024656	0.972	1.07	0.413566	0.803122
Medication	Mydriatics and cycloplegics	T	378957	287	378814	1.25	0.221605	0.274727	0.729	2.14	0.419105	0.803122
Gynaecology and Obstetrics	Gynaecological surgery (self-reported)	T	378957	2168	376933	1.09	0.085545	0.105584	0.887	1.34	0.412397	0.803122
Operations and Procedures	Cystoscopy (self-reported)	T	378957	345	378756	0.779	-0.24989	0.30668	0.427	1.42	0.415181	0.803122
Operations and Procedures	Operations on lower respiratory tract	T	378957	209	378892	0.716	-0.33421	0.414465	0.318	1.61	0.420038	0.803122
Operations and Procedures	Attention to artificial opening into ileum	T	378957	998	378103	1.13	0.124342	0.152884	0.839	1.53	0.416041	0.803122
Operations and Procedures	Other extirpation of colon	T	378957	934	378167	1.14	0.130043	0.158224	0.835	1.55	0.411141	0.803122
Operations and Procedures	Diagnostic endoscopic retrograde examination of bile duct	T	378957	309	378972	1.24	0.15174	0.264968	0.738	2.08	0.416765	0.803122
Operations and Procedures	Endoscopic ultrasound examination of pancreas	T	378957	605	378496	1.17	0.158159	0.193799				

Operations and Procedures	Other operations on vulva	T	378957	1300	377801	0.888	-0.11879	0.150627	0.661	1.19	0.430331	0.806745	
Musculoskeletal	Other rheumatoid arthritis (HES)	T	378957	3989	375112	1.06	0.06258	0.079423	0.911	1.24	0.430735	0.806785	
Digestive system	Irritable bowel syndrome (HES and self-reported)	T	378957	12379	366722	1.04	0.036314	0.046156	0.947	1.14	0.431426	0.807514	
Symptoms	Abnormalities of breathing (HES)	T	378957	8413	370688	0.956	-0.0454	0.057866	0.853	1.07	0.432715	0.808614	
Medication	Hepatic and reticulo endothelial system	T	378957	1728	377373	0.903	-0.10178	0.129709	0.7	1.16	0.432636	0.808614	
Musculoskeletal	Fracture thumb (HES and self-reported)	T	378957	379	378722	0.794	-0.23019	0.293593	0.447	1.41	0.433006	0.808614	
Operations and Procedures	Excision of vulva	T	378957	1147	377954	1.12	0.12538	0.143771	0.844	1.48	0.43377	0.809413	
Gynaecology and Obstetrics	Infections of genitourinary tract in pregnancy (HES)	T	378957	212	378889	1.28	0.243507	0.311363	0.693	2.35	0.434174	0.80954	
ENT	Other disorders of tympanic membrane (HES)	T	378957	333	378768	1.22	0.200322	0.256463	0.739	2.02	0.43473	0.80994	
Neurosciences	Parkinsons disease (HES and self-reported)	T	378957	1191	377910	0.886	-0.12149	0.15579	0.653	1.2	0.435507	0.81077	
Summary	Disorders of adult personality and behaviour (HES)	T	378957	350	378751	0.788	-0.23873	0.306594	0.432	1.44	0.43619	0.811414	
Medication	Antibiotise preparations excl diet products	T	378957	958	378143	0.871	-0.13798	0.177427	0.615	1.23	0.436755	0.811839	
Summary	Abnormal findings on examination of blood without diagnosis (HES)	T	378957	7295	378106	1.05	0.046165	0.059543	0.932	1.18	0.438157	0.812897	
Mental health	Recurrent depressive disorder (HES)	T	378957	679	378422	0.849	-0.1642	0.212368	0.56	1.29	0.43942	0.812897	
Gynaecology and Obstetrics	Maternal care for other known or suspected fetal problems (HES)	T	378957	1716	377385	1.1	0.092721	0.120191	0.867	1.39	0.440404	0.812897	
Operations and Procedures	Urethral stricture surgery dilatation (self-reported)	T	378957	205	378896	0.726	-0.32003	0.414518	0.322	1.64	0.440087	0.812897	
Mental health	Probable recurrent major depression severe 2	T	54180	7072	47141	1.05	0.04991	0.064356	0.927	1.19	0.438026	0.812897	
Cancer	Mal neo stomach (cancer register)	T	378957	377	378724	1.21	0.187013	0.241897	0.75	1.94	0.439456	0.812897	
Operations and Procedures	Exteriorisation of trachea	T	378957	817	378284	0.862	-0.1485	0.192606	0.591	1.26	0.440699	0.812897	
Operations and Procedures	Other repair of vagina	T	378957	332	378769	1.22	0.198051	0.256617	0.737	2.02	0.440249	0.812897	
Gynaecology and Obstetrics	Uterine problem (HES and self-reported)	T	378957	29689	349412	1.02	0.024529	0.031746	0.963	1.09	0.439733	0.812897	
ENT	Speech reception threshold SRT estimate right	T	114757	NA	NA	0.011547	0.014905	-0.01767	0.040761	0.438529	0.812897		
Genitourinary	Unspecified renal colic (HES)	T	378957	1752	377349	1.1	0.091235	0.118427	0.869	1.38	0.440169	0.812957	
Summary	Disorders of breast (HES)	T	378957	4857	374244	0.943	-0.05853	0.076171	0.812	1.1	0.442236	0.813107	
Metabolic	Vitamin D deficiency (HES)	T	378957	359	378742	1.21	0.19115	0.248753	0.743	1.97	0.442231	0.813107	
Digestive system	Other diseases of digestive system (HES)	T	378957	8428	370673	0.957	-0.0444	0.057756	0.854	1.07	0.442056	0.813107	
Musculoskeletal	Disorders of continuity of bone (HES)	T	378957	1398	377703	1.11	0.100789	0.131241	0.855	1.43	0.442505	0.813107	
Medication	Antiflammatory agents	T	378957	18165	360936	0.97	-0.03032	0.039503	0.898	1.05	0.442838	0.813107	
Summary	Hernia (HES)	T	378957	42709	336392	1.02	0.020299	0.026485	0.969	1.07	0.443411	0.81327	
Musculoskeletal	Prolapsed disclissped disc (HES and self-reported)	T	378957	8220	370881	1.04	0.043001	0.056128	0.935	1.17	0.443602	0.81327	
Musculoskeletal	Psoriatic and enteropathic arthropathies (HES)	T	378957	650	378451	1.16	0.145149	0.190249	0.796	1.68	0.445494	0.813647	
Family history	Alheimer's disease dementia (family history - mother)	T	357389	29815	327714	0.976	-0.02933	0.031341	0.918	1.04	0.44518	0.813647	
Operations and Procedures	Other repair of peripheral nerve	T	378957	526	378575	0.828	-0.18882	0.246758	0.51	1.34	0.444164	0.813647	
Operations and Procedures	Shave biopsy of skin	T	378957	626	378475	1.16	0.14561	0.190436	0.796	1.68	0.444657	0.813647	
Eye	Retinal arteriye occlusion (HES and self-reported)	T	378957	614	378487	0.844	-0.16977	0.222364	0.546	1.3	0.445184	0.813647	
Genitourinary	Glomerulonephritis (HES and self-reported)	T	378957	1746	377355	1.09	0.08919	0.117705	0.869	1.38	0.445923	0.813807	
Operations and Procedures	Transluminal operations on cerebral artery	T	378957	1001	378100	1.12	0.17582	0.154474	0.831	1.52	0.44653	0.81343	
Operations and Procedures	Open excision of prostate	T	378957	2046	377055	0.915	-0.08905	0.117187	0.727	1.15	0.447341	0.815162	
Respiratory	Cough on most days	T	95655	13048	82648	0.964	-0.03658	0.048219	0.877	1.06	0.448018	0.815163	
Digestive system	Gastrointestinal bleeding (HES and self-reported)	T	378957	8293	370808	0.957	-0.04419	0.058206	0.854	1.07	0.447779	0.815163	
Neurosciences	Mononeuropathy in diseases classified elsewhere (HES)	T	378957	205	378896	0.731	-0.31399	0.414587	0.324	1.65	0.448831	0.81514	
Operations and Procedures	Examination of oesophagus	T	378957	1296	377805	0.891	-0.11522	0.152048	0.662	1.2	0.448567	0.81514	
Operations and Procedures	Manipulation of spine	T	378957	218	378883	1.26	0.233639	0.30967	0.688	2.32	0.450562	0.817938	
Gynaecology and Obstetrics	Dilatation and curettage d c (self-reported)	T	378957	21385	357716	1.03	0.027513	0.0365	0.957	1.1	0.450994	0.818106	
Operations and Procedures	Extracorporeal fragmentation of calculus of ureter	T	378957	563	378538	0.839	-0.17588	0.233703	0.531	1.33	0.451715	0.818182	
Biological assays	Urine albumin creatinine ratio	T	114243	NA	NA	NA	NA	0.011187	0.014856	-0.01793	0.040305	0.451414	0.818182
Medication	Antithyroid preparations	T	378957	334	378767	1.21	0.190023	0.256478	0.731	2	0.458759	0.818162	
Summary	Deforming dorsopathies (HES)	T	378957	2539	376562	0.924	-0.07881	0.10503	0.752	1.14	0.453036	0.818229	
Neurosciences	Parkinson's disease (HES)	T	378957	1054	378047	0.884	-0.12283	0.165668	0.639	1.22	0.458441	0.818229	
Neurosciences	Migraine (HES)	T	378957	2516	376585	0.925	-0.07835	0.106105	0.751	1.14	0.460268	0.818229	
Eye	Other disorders of optic (HES)	T	378957	285	378816	0.776	-0.2054	0.033893	0.399	1.51	0.453533	0.818229	
Cardiovascular	Other disorders of arteries and arterioles (HES)	T	378957	1296	377805	0.895	-0.11128	0.150569	0.666	1.2	0.459884	0.818229	
Digestive system	Peptic ulcer site unspecified (HES)	T	378957	370	378731	1.2	0.184853	0.248663	0.739	1.96	0.451787	0.818229	
Immuno-inflammation	Corns and callosities (HES)	T	378957	257	378844	0.766	-0.26654	0.359425	0.379	1.55	0.458353	0.818229	
Symptoms	Cough (HES)	T	378957	2614	376487	1.07	0.071918	0.097434	0.888	1.3	0.46044	0.818229	
Symptoms	Headache (HES)	T	378957	6991	372110	0.954	-0.04757	0.063342	0.842	1.08	0.452653	0.818229	
Cancer	Malignant melanoma (self-reported)	T	378957	2994	376107	1.07	0.067040	0.090802	0.895	1.28	0.459175	0.818229	
Gynaecology and Obstetrics	Uterine surgery (self-reported)	T	378957	1594	377507	0.905	-0.09596	0.134296	0.696	1.18	0.458496	0.818229	
Family history	High blood pressure (family history - father)	T	343458	27468	268894	0.984	-0.01591	0.021463	0.944	1.03	0.458457	0.818229	
Operations and Procedures	Repair of eardrum	T	378957	1054	378047	1.12	0.111819	0.151064	0.832	1.5	0.459175	0.818229	
Operations and Procedures	Excision of oesophagus and stomach	T	378957	219	378882	1.26	0.22991	0.309744	0.686	2.31	0.457909	0.818229	
Operations and Procedures	Excision of ileum	T	378957	732	378369	1.14	0.131968	0.178434	0.804	1.62	0.459544	0.818229	
Operations and Procedures	Destruction of haemorrhoid	T	378957	5384	377317	1.05	0.051457	0.069405	0.919	1.21	0.458543	0.818229	
Operations and Procedures	Other evacuation of contents of uterus	T	378957	2583	376518	0.924	-0.07903	0.107177	0.749	1.14	0.460911	0.818229	
Operations and Procedures	Primary open reduction of intra articular fracture of bone	T	378957	292	378809	0.777	-0.25172	0.338788	0.4	1.51	0.457488	0.818229	
Operations and Procedures	Other interposition reconstruction of joint	T	378957	307	378794	0.787	-0.23981	0.321795	0.419	1.48	0.456134	0.818229	
Operations and Procedures	Delivery of oral chemotherapy for neoplasm	T	378957	560	378541	0.84	-0.17392	0.233636	0.532	1.33	0.456363	0.818229	
Operations and Procedures	Other destruction of lesion of organ NOC	T	378957	2552	376549	0.925	-0.07821	0.104954	0.753	1.14	0.456174	0.818229	
Respiratory	Pleurisy (HES and self-reported)	T	378957	1687	377414	0.908	-0.0964	0.130737	0.703	1.17	0.460919	0.818229	
Neurosciences	Dementialzheimerscognitive impairment (HES and self-reported)	T	378957	906	378195	1.13	0.191318	0.160402	0.823	1.54	0.456956	0.818229	
Musculoskeletal	Sclerodermasystemic sclerosis (HES and self-reported)	T	378957	201	378900	0.736	-0.30698	0.414732	0.326	1.66	0.459186	0.818229	
Immuno-inflammation	Cellulitis (HES and self-reported)	T	378957	6668	372443	0.953	-0.04771	0.074438	0.84	1.08	0.461137	0.818229	
Neurosciences	Incorrect matches summed	T	378957	NA	NA	NA	-0.00621	0.00831	-0.0225	0.010078	0.454964	0.818229	
Operations and Procedures	Continuous infusion of therapeutic substance	T	378957	8393	370708	0.958	-0.0426	0.047953	0.855	1.07	0.462257	0.820013	
Medication	Stomatological preparations	T	378957	59623	319478	0.983	-0.01696	0.023653	0.939	1.03	0.473294	0.821031	
Medication	Iron preparations	T	378957	19982	359119	0.973	-0.0277	0.037806	0.903	1.05	0.463792	0.821031	
Summary	Extrapyramidal and movement disorders (HES)	T	378957	1814	377287	0.914	-0.09013	0.124927	0.715	1.17	0.470621	0.821031	
Summary	Symptoms and signs involving the digestive system and abdomen (HES)	T	378957	5290	327011	1.02	0.0176						

Medication	Antimycotics for systemic use	T	378957	389	378712	1.19	0.170292	0.241596	0.738	1.9	0.480897	0.825245
Operations and Procedures	Nephrectomy kidney removed (self-reported)	T	378957	1353	377748	1.1	0.093983	0.13346	0.846	1.43	0.481307	0.825245
Cardiovascular	Ecg electrocardiogram (self-reported)	T	378957	201	378900	0.747	-0.29229	0.414617	0.331	1.68	0.48084	0.825245
Metabolic	Gestational diabetes (HES and self-reported)	T	378957	363	378738	0.813	-0.20747	0.294019	0.457	1.45	0.480424	0.825245
Summary	Glaucoma (HES)	T	378957	4048	375053	1.06	0.054909	0.07841	0.906	1.23	0.48375	0.825231
Neurosciences	Hemiplegia (HES)	T	378957	1363	377738	1.1	0.093584	0.133451	0.845	1.43	0.483143	0.825231
Family history	Severe depression (family history - father)	T	378957	12638	326091	1.03	0.032108	0.045647	0.944	1.13	0.481844	0.825231
ENT	Hearing difficulty problems	T	363510	94775	268869	1.01	0.013761	0.019625	0.976	1.05	0.483181	0.825231
Operations and Procedures	Other open operations on uterus	T	378957	285	378816	0.788	-0.2381	0.339141	0.405	1.53	0.482641	0.825231
Neurosciences	Neck or shoulder pain	T	378087	92289	285942	1.01	0.013574	0.019373	0.976	1.05	0.48351	0.825231
Neurosciences	Brain haemorrhage (HES and self-reported)	T	378957	1057	378044	0.89	-0.11632	0.16557	0.643	1.23	0.482327	0.825231
Biological assays	Neutrophil count	T	367087	NA	NA	-0.0059	0.008443	-0.02245	0.010647	0.484565	0.826127	
Medication	Corticosteroids combinations with antiseptics	T	378957	6117	372984	1.05	0.04513	0.064699	0.922	1.19	0.485461	0.826397
Neurosciences	Disorders of trigeminal nerve (HES)	T	378957	419	378682	0.827	-0.18947	0.272066	0.485	1.41	0.486174	0.826397
Eye	Other disorders of eyelid (HES)	T	378957	5168	373933	1.05	0.048777	0.070193	0.915	1.2	0.486782	0.826397
Gynaecology and Obstetrics	Hysteroscopy biopsy (self-reported)	T	378957	1325	377776	1.1	0.093728	0.134775	0.843	1.43	0.486872	0.826397
Operations and Procedures	Excision of lesion of tissue of brain	T	378957	434	378667	1.17	0.159478	0.229186	0.748	1.84	0.486525	0.826397
Gynaecology and Obstetrics	Pelvic inflammatory disease pid (HES and self-reported)	T	378957	4037	375064	1.06	0.051589	0.079161	0.905	1.23	0.48569	0.826397
Genitourinary	Other disorders of breast (HES)	T	378957	1110	377991	0.894	-0.11185	0.161484	0.652	1.23	0.488521	0.828147
Operations and Procedures	Oesophageal surgery (self-reported)	T	378957	447	378654	0.833	-0.18216	0.262897	0.498	1.4	0.488374	0.828147
Operations and Procedures	Transluminal operations on pulmonary artery	T	378957	411	378590	0.823	-0.1953	0.282177	0.473	1.43	0.488854	0.828147
Musculoskeletal	Fibromyalgia (HES and self-reported)	T	378957	1223	377878	1.1	0.09563	0.139622	0.838	1.45	0.489188	0.828147
Immuno-inflammation	Psoriasis (HES)	T	378957	2058	377043	1.08	0.075968	0.109932	0.87	1.34	0.489534	0.828151
Symptoms	Pain (HES)	T	378957	1292	377809	1.1	0.094147	0.136935	0.84	1.44	0.491751	0.831269
Medication	Corticosteroids and antiinfectives in combination 1	T	378957	5806	373295	1.05	0.045608	0.066386	0.919	1.19	0.492067	0.831269
Summary	Abn exm of fluids subst wo diag (HES)	T	378957	1857	372444	1.08	0.078708	0.11475	0.864	1.35	0.492771	0.831292
Neurosciences	Posttraumatic stress disorder (HES and self-reported)	T	378957	723	378378	0.869	-0.13988	0.203813	0.583	1.3	0.492522	0.831292
Operations and Procedures	Intubation of stomach	T	378957	329	378772	1.2	0.180853	0.264576	0.713	2.01	0.494255	0.833212
Summary	Glucose regulation and pancreatic internal secretion (HES)	T	378957	831	378270	0.879	-0.12921	0.189302	0.606	1.27	0.494898	0.833713
Operations and Procedures	Other operations on spermatic cord	T	378957	598	378503	1.14	0.134617	0.197493	0.777	1.68	0.495474	0.8341
Immuno-inflammation	Urticaria (HES and self-reported)	T	378957	530	378571	1.15	0.141841	0.209163	0.765	1.74	0.497684	0.837235
ENT	Adenoid surgery adenoidectomy (self-reported)	T	378957	2205	376896	1.07	0.070802	0.104761	0.874	1.32	0.499142	0.839102
Operations and Procedures	Extrication of lesion of upper gastrointestinal tract	T	378957	1015	378086	1.11	0.104234	0.154509	0.82	1.5	0.499923	0.839829
Operations and Procedures	Therapeutic endoscopic operations on other joint structure	T	378957	4753	374348	1.05	0.049	0.070294	0.91	1.21	0.501718	0.842257
Musculoskeletal	Trunk BMD bone mineral density	T	4100	NA	NA	-0.05782	0.086229	-0.22683	0.111192	0.502538	0.843046	
Metabolic	Other disorders of pancreatic internal secretion (HES)	T	378957	829	378272	0.881	-0.12678	0.18931	0.608	1.28	0.503061	0.843434
Medication	Intestinal antiinfectives	T	378957	693	378408	0.87	-0.13916	0.208001	0.579	1.31	0.503466	0.843428
Eye	Retinal vascular occlusions (HES)	T	378957	466	378635	0.845	-0.16877	0.254716	0.513	1.39	0.507603	0.843952
Digestive system	Diseases of salivary glands (HES)	T	378957	909	378192	0.887	-0.11989	0.180231	0.623	1.26	0.50912	0.843952
Operations and Procedures	Hernia surgery (self-reported)	T	378957	2430	376671	1.07	0.066738	0.100815	0.877	1.3	0.507983	0.843952
Operations and Procedures	Other operations on ear	T	378957	414	378687	1.17	0.155914	0.235109	0.737	1.85	0.507229	0.843952
Operations and Procedures	Division of fascia	T	378957	394	378707	0.829	-0.18805	0.28233	0.476	1.44	0.505381	0.843952
Haematology	Pernicious anaemia (HES and self-reported)	T	378957	1499	377602	1.09	0.084974	0.128158	0.847	1.4	0.507304	0.843952
Digestive system	Ulcerative colitis (HES and self-reported)	T	378957	3555	375546	0.943	-0.05881	0.088811	0.792	1.12	0.507861	0.843952
Cardiovascular	Wolff parkinson white wpw syndrome (HES and self-reported)	T	378957	228	378873	1.23	0.205475	0.309292	0.67	2.25	0.506472	0.843952
Cardiovascular	Svt supraventricular tachycardia (HES and self-reported)	T	378957	2281	376820	0.929	-0.07356	0.110926	0.748	1.15	0.507226	0.843952
Musculoskeletal	Fracture wrist colles fracture (HES and self-reported)	T	378957	3198	375903	0.94	-0.06223	0.09385	0.782	1.13	0.507285	0.843952
Family history	High blood pressure (family history)	T	378957	NA	NA	0.005533	0.008305	-0.01075	0.021811	0.505303	0.843952	
Biological assays	Microalbumin in urine	T	11244	NA	NA	0.008982	0.014859	-0.01923	0.039016	0.505607	0.843952	
Summary	Mal neo of lip oral cavity and pharynx (cancer register)	T	378957	799	378302	0.881	-0.12642	0.192659	0.604	1.29	0.511697	0.840961
Operations and Procedures	Diagnostic lower respiratory tract	T	378957	4809	374292	0.951	-0.05102	0.076393	0.819	1.1	0.511763	0.840961
Operations and Procedures	Diagnostic imaging of musculoskeletal system	T	378957	820	378281	0.883	-0.1241	0.189319	0.609	1.28	0.51216	0.849135
Operations and Procedures	Other non operations	T	378957	2978	376123	0.936	-0.06639	0.10142	0.767	1.14	0.512737	0.849057
Medication	Cicatrizations	T	378957	2968	376133	0.938	-0.06406	0.098027	0.774	1.14	0.513441	0.849536
Genitourinary	Female infertility (HES)	T	378957	923	378178	1.11	0.105418	0.161745	0.809	1.53	0.514559	0.849536
Medication	Antinflammatory agents and antiinfectives in combination	T	378957	1737	361754	0.974	-0.02627	0.040903	0.9	1.05	0.514527	0.849536
Family history	Other joint disorders (HES)	T	378957	30110	6394	0.9842	0.054337	0.066525	0.841	1.09	0.514545	0.849536
Operations and Procedures	Other excision of bone	T	378957	3701	375400	0.945	-0.05641	0.08662	0.798	1.12	0.51487	0.849536
ENT	Sleep apnoea (HES and self-reported)	T	378957	4559	374542	0.95	-0.05105	0.073842	0.815	1.11	0.51467	0.849536
Summary	Chronic lower respiratory diseases (HES)	T	378957	30351	348750	1.02	0.01984	0.030514	0.961	1.08	0.515577	0.85012
Eye	Other disorders of lens (HES)	T	378957	203	378988	1.23	0.210632	0.324557	0.653	2.33	0.516349	0.850229
Operations and Procedures	Primary repair of umbilical hernia	T	378957	3099	376002	0.94	-0.06178	0.095174	0.78	1.13	0.51624	0.850229
Infectious disease	Dermatophytosis (HES)	T	378957	227	378874	1.22	0.200454	0.309394	0.666	2.24	0.510755	0.850228
Symptoms	General sensations and perceptions (HES)	T	378957	472	378629	0.884	-0.16503	0.254537	0.515	1.4	0.516754	0.850229
Immuno-inflammation	Decubitus ulcer (HES)	T	378957	840	378261	0.887	-0.12045	0.186262	0.615	1.28	0.517855	0.850362
Operations and Procedures	Other operations on lip	T	378957	464	378637	1.16	0.144246	0.22357	0.745	1.79	0.518802	0.850362
Operations and Procedures	Harvest of tendon	T	378957	532	378569	0.856	-0.15523	0.240012	0.535	1.37	0.517777	0.850362
Eye	Diabetes related eye disease	T	124323	2369	120700	0.932	-0.06984	0.108173	0.754	1.15	0.518241	0.850362
Cardiovascular	Pericardial effusion (HES and self-reported)	T	378957	600	378501	0.866	-0.14345	0.222394	0.56	1.34	0.518901	0.850362
Mental health	Phobic anxiety disorders (HES)	T	378957	527	378574	1.14	0.134661	0.209198	0.759	1.72	0.519767	0.850624
Operations and Procedures	Removal of rodent ulcer basal cell carcinoma bcc (self-reported)	T	378957	957	378144	1.11	0.10071	0.156404	0.814	1.5	0.519635	0.850624
Summary	Glomerular diseases (HES)	T	378957	1942	377159	1.07	0.07227	0.112618	0.862	1.34	0.521048	0.851564
Cancer	Mal neo testis (cancer register)	T	378957	451	378650	1.16	0.147163	0.229624	0.739	1.82	0.520944	0.851564
Summary	Other joint disorders (HES)	T	378957	35549	343552	0.982	-0.01823	0.028742	0.928	1.04	0.525907	0.852572
Respiratory	Other interstitial pulmonary diseases (HES)	T	378957	930	378171	1.11	0.102407	0.160138	0.809	1.52	0.522504	0.852572
Genitourinary	Unspecified renal failure (HES)	T	378957	1276	378255	1.09	0.087916	0.138274	0.833	1.43	0.5249	0.852572
Symptoms	Fever of unknown origin (HES)	T	378957	3729	375372	1.05	0.052462	0.082269	0.897	1.24	0.523679	0.852572
Medication	Muscle relaxants centrally acting agents	T	378957	555	378546	0.861	-0.14933	0.233659	0.545	1.36	0.522771	0.852572
Operations and Procedures												

Neurosciences	Other mononeuropathies (HES)	T	378957	306	377975	0.823	-0.1951	0.321731	0.438	1.55	0.544248	0.863129
Operations and Procedures	Other operations on anus	T	378957	1643	377458	0.923	-0.07981	0.131829	0.713	1.2	0.544886	0.863573
Cardiovascular	Other cerebrovascular diseases (HES)	T	378957	2188	376913	0.934	-0.06815	0.113049	0.748	1.17	0.546599	0.865182
Genitourinary	Other noninflammatory disorders of cervix uteri (HES)	T	378957	1621	377480	1.08	0.073968	0.122791	0.846	1.37	0.546912	0.865182
Family history	Severe depression (family history)	T	378957	NA	NA	NA	0.004998	0.008298	-0.01127	0.021261	0.546979	0.865182
Operations and Procedures	Foot surgery (self-reported)	T	378957	7430	371671	1.04	0.035423	0.058938	0.923	1.16	0.547828	0.865956
Operations and Procedures	Bladder surgery (self-reported)	T	378957	2401	376700	1.06	0.060961	0.10164	0.871	1.3	0.548659	0.866452
Neurosciences	Diabetic neuropathiclers (HES and self-reported)	T	378957	546	378555	0.869	-0.14016	0.233803	0.55	1.37	0.548848	0.866432
Operations and Procedures	Photocoagulation of retina for detachment	T	378957	972	378129	0.902	-0.10327	0.17247	0.643	1.26	0.549319	0.866607
Symptoms	Polyuria (HES)	T	378957	3507	375594	1.05	0.050829	0.085049	0.891	1.24	0.550074	0.86693
Symptoms	Dizziness and giddiness (HES)	T	378957	4147	374954	1.05	0.046967	0.078619	0.898	1.22	0.550243	0.86693
Operations and Procedures	Excirption of lesion of other part of mouth	T	378957	688	378413	0.883	-0.124	0.208024	0.588	1.33	0.551111	0.867728
Musculoskeletal	Total BMD bone mineral density	T	4100	NA	NA	-0.05126	0.086307	-0.22042	0.117905	0.552587	0.869485	
Operations and Procedures	Operations on other articular cartilage	T	378957	1114	377987	1.09	0.087564	0.147856	0.817	1.46	0.553694	0.870111
Operations and Procedures	Connection of organ NOC	T	378957	354	378747	0.84	-0.17407	0.293928	0.472	1.49	0.553707	0.870111
Family history	Lung cancer (family history - mother)	T	354043	14282	339899	1.03	0.02569	0.043486	0.942	1.12	0.564568	0.871075
Metabolic	Thyroiditis (HES)	T	378957	275	377826	1.18	0.167257	0.284452	0.677	2.06	0.556533	0.872844
Symptoms	Unspecified jaundice (HES)	T	378957	839	378262	0.896	-0.10952	0.186212	0.622	1.29	0.55643	0.872844
Metabolic	Volume depletion (HES)	T	378957	2592	376509	1.06	0.05768	0.098346	0.874	1.28	0.557896	0.874412
Infectious disease	Other bacterial intestinal infections (HES)	T	378957	2315	376786	1.06	0.061103	0.104668	0.866	1.31	0.559372	0.875586
Operations and Procedures	Skin operation or plastic surgery (self-reported)	T	378957	3215	375886	1.05	0.051809	0.088675	0.885	1.25	0.559051	0.875586
Operations and Procedures	Other operations on joint	T	378957	520	378581	0.869	-0.14003	0.2401	0.543	1.39	0.559764	0.875631
Summary	Diseases of oral cavity salivary glands and jaws (HES)	T	378957	14224	364877	0.974	-0.02583	0.044374	0.893	1.06	0.560486	0.876191
Mental health	Unspecified dementia (HES)	T	378957	432	378669	1.14	0.133366	0.229427	0.729	1.79	0.561038	0.876485
Medication	Antinflammatory and antirheumatic products non steroids	T	378957	86308	292793	0.988	-0.01150	0.019967	0.951	1.03	0.561957	0.877352
Mental health	Probable Recurrent major depression severe 1	T	91467	6715	84800	1.04	0.036918	0.063724	0.916	1.18	0.562359	0.877411
Operations and Procedures	Removal of benign skin lesion (self-reported)	T	378957	629	378472	1.12	0.111884	0.193592	0.765	1.63	0.563308	0.877755
Operations and Procedures	Ventilation support	T	378957	2964	376137	0.945	-0.05627	0.097282	0.781	1.14	0.562962	0.877755
Operations and Procedures	Other operations on skin	T	378957	1061	378040	0.909	-0.09556	0.165531	0.657	1.26	0.563748	0.877873
Operations and Procedures	Graft to organ NOC	T	378957	624	378477	0.882	-0.12522	0.21729	0.576	1.35	0.564424	0.878358
Medication	Anti dementia drugs	T	378957	2265	376836	0.938	-0.05369	0.11102	0.755	1.17	0.565184	0.87996
Cancer	Chronic lymphocytic (self-reported)	T	378957	244	378857	0.813	-0.02645	0.359746	0.402	1.65	0.566052	0.87996
Summary	Other viral diseases (HES)	T	378957	1781	377320	1.07	0.067407	0.118325	0.848	1.35	0.568898	0.880272
Summary	Diseases of external ear (HES)	T	378957	1324	377777	1.08	0.076112	0.13572	0.827	1.41	0.574933	0.880272
Summary	Lung diseases due to external agents (HES)	T	378957	898	378203	1.1	0.092687	0.161476	0.795	1.51	0.572373	0.880272
Summary	HESCH Diseases of the blood forming organ immune mech BIN (HES)	T	378957	22345	365756	0.98	-0.02005	0.035664	0.914	1.05	0.574039	0.880272
Eye	Disorders of vitreous body (HES)	T	378957	1246	378755	1.08	0.077935	0.138234	0.824	1.42	0.573147	0.880272
Digestive system	Dentofacial anomalies (HES)	T	378957	538	378563	1.13	0.18075	0.209111	0.747	1.7	0.572312	0.880272
Digestive system	Abscess of anal and rectal regions (HES)	T	378957	1208	377893	1.09	0.081783	0.143444	0.819	1.44	0.568583	0.880272
Genitourinary	Other noninflammatory disorders of uterus except cervix (HES)	T	378957	4717	374384	0.958	-0.04273	0.076311	0.825	1.11	0.57552	0.880272
Gynaecology and Obstetrics	Single delivery by caesarean section (HES)	T	378957	504	378597	0.871	-0.13824	0.241675	0.542	1.4	0.575314	0.880272
Symptoms	Faecal incontinence (HES)	T	378957	1634	374746	1.07	0.069634	0.12342	0.842	1.37	0.572615	0.880272
Symptoms	Abnormalities of gait and mobility (HES)	T	378957	1676	377425	0.93	-0.07274	0.129793	0.721	1.2	0.5752	0.880272
Symptoms	Other lack of coordination (HES)	T	378957	322	378779	1.16	0.150161	0.264679	0.692	1.95	0.570487	0.880272
Medication	Hypnotics and sedatives	T	378957	3007	376094	1.05	0.052088	0.091497	0.881	1.26	0.569159	0.880272
Operations and Procedures	Spine or back surgery (self-reported)	T	378957	4637	374464	1.04	0.041843	0.074042	0.902	1.21	0.571986	0.880272
Family history	Bowel cancer (family history - mother)	T	354043	17920	336261	0.978	-0.02226	0.039607	0.905	1.06	0.574182	0.880272
Gynaecology and Obstetrics	Ever had hysterectomy womb removed	T	180479	14618	165925	0.975	-0.02546	0.04535	0.892	1.07	0.574516	0.880272
Operations and Procedures	Other operations on maxillary antrum	T	378957	2872	376229	0.946	-0.05557	0.098927	0.779	1.15	0.574303	0.880272
Operations and Procedures	Removal of other substance from skin	T	378957	434	378667	0.862	-0.14802	0.262962	0.515	1.44	0.573504	0.880272
Operations and Procedures	Diagnostic blood tests	T	378957	378	378273	1.15	0.14205	0.248448	0.708	1.88	0.567491	0.880272
Operations and Procedures	Release of contracture of joint	T	378957	1613	377488	1.07	0.069683	0.123387	0.842	1.37	0.572242	0.880272
Operations and Procedures	Excision of lesion of organ NOC	T	378957	2108	376993	1.06	0.061904	0.109278	0.859	1.32	0.571065	0.880272
Cardiovascular	Hypertension (HES and self-reported)	T	378957	98025	281076	0.989	-0.01107	0.019599	0.952	1.03	0.573207	0.880272
Cardiovascular	Pulse wave Arterial Stiffness index	T	124901	NA	NA	0.008098	0.014377	-0.02008	0.036277	0.573228	0.880272	
Cardiovascular	LV end systolic volume	T	3764	NA	NA	0.050852	0.089794	-0.12514	0.226847	0.571178	0.880272	
Cardiovascular	LVEDVi	T	3760	NA	NA	0.051063	0.089766	-0.12488	0.227005	0.569462	0.880272	
Other	Chest pain or discomfort	T	375050	59237	315955	0.987	-0.01291	0.02311	0.943	1.03	0.576761	0.881575
Neurosciences	Other neurological problem (HES and self-reported)	T	378957	8378	370723	1.03	0.03123	0.055814	0.925	1.15	0.577104	0.881575
Cancer	Non hodgkins lymphoma (self-reported)	T	378957	719	378382	0.895	-0.1113	0.200023	0.605	1.32	0.577902	0.882149
Operations and Procedures	General anaesthetia	T	378957	13536	365655	0.975	-0.02522	0.045365	0.892	1.07	0.578212	0.882149
Summary	Viral infections of the central nervous system (HES)	T	378957	233	378668	1.19	0.17129	0.309131	0.648	2.18	0.579509	0.882237
Cancer	Large bowel cancer colorectal cancer (self-reported)	T	378957	526	378755	1.12	0.16102	0.209321	0.745	1.69	0.579129	0.882237
Cancer	Hodgkins lymphoma hodgkins disease (self-reported)	T	378957	352	378749	1.15	0.141839	0.256132	0.698	1.9	0.579735	0.882237
Operations and Procedures	Other manipulation of joint	T	378957	2050	377051	1.06	0.060977	0.109957	0.857	1.32	0.570199	0.882237
Operations and Procedures	Open approach to contents of cranium	T	378957	800	378301	0.901	-0.10452	0.189405	0.621	1.31	0.581048	0.883677
Symptoms	Symptoms the circulatory and respiratory systems (HES)	T	378957	1000	378101	1.09	0.085932	0.156181	0.802	1.48	0.582177	0.884662
Other	Chest pain or discomfort walking normally	T	58703	10166	48566	1.03	0.030971	0.056363	0.924	1.15	0.582661	0.884662
Operations and Procedures	Perineal operations for prolapse of rectum	T	378957	257	378844	1.18	0.162551	0.295921	0.659	2.1	0.582797	0.884662
Gynaecology and Obstetrics	Lumpectomy (self-reported)	T	378957	12746	363655	0.975	-0.02581	0.047117	0.889	1.07	0.583811	0.884778
Operations and Procedures	Dupuytren's contracture surgery (self-reported)	T	378957	409	378692	1.14	0.128882	0.235731	0.717	1.8	0.583987	0.884778
Operations and Procedures	Diagnostic endoscopic examination of fallopian tube	T	378957	293	378808	1.17	0.155814	0.284799	0.669	2.04	0.584309	0.884778
Operations and Procedures	Approach to organ through artery	T	378957	284	378817	0.838	-0.17637	0.322406	0.446	1.58	0.584343	0.884778
Operations and Procedures	Other disorders involving the immune mechanism (HES)	T	378957	290	378811	0.84	-0.17424	0.32058	0.447	1.58	0.588491	0.886922
Gynaecology and Obstetrics	Maternal care for known or suspected abnormality of pelvic organs (HES)	T	378957	1384	377717	1.08	0.072463	0.134012	0.827	1.4	0.58699	0.886922
Cardiovascular	Aortic valve repair replacement (self-reported)	T	378957	561	378540	0.884	-0.1233	0.228031	0.565	1.38	0.587074	0.886922
Operations and Procedures	Secondary open reduction of fracture of bone	T	378957	1013	378088	0.913	-0.09105	0.167779	0.657	1.27	0.587364	0.886922
Metabolic	Adrenocortical insufficiency/adidns disease (HES and self-reported)	T	378957	349	378752	0.853	-0.15936	0.293983	0.479	1.52	0.587579</	

Cardiovascular	Rheumatic fever (HES and self-reported)	T	378957	3026	376075	1.05	0.04865	0.09125	0.876	1.25	0.607536	0.895024
Symptoms	Abnormal findings on diagnostic imaging of lung (HES)	T	378957	2263	376838	1.06	0.05397	0.105854	0.858	1.3	0.610155	0.897901
Summary	Number of operations self reported	T	378896	NA	NA	-0.00423	0.008316	-0.02053	0.012067	0.610754	0.898233	
Infectious disease	Viral warts (HES)	T	378957	643	378458	1.1	0.098314	0.193486	0.755	1.61	0.61137	0.898591
Eye	Other disorders of eye and adnexa (HES)	T	378957	430	378671	0.875	-0.13342	0.262998	0.523	1.47	0.611954	0.898901
Cardiovascular	Gestational hypertension/pre-eclampsia (HES and self-reported)	T	378957	2534	376567	1.05	0.050561	0.098992	0.865	1.28	0.612747	0.899517
Metabolic	Thyroid problem not cancer (HES and self-reported)	T	378957	1330	377771	1.07	0.068487	0.13562	0.821	1.4	0.61409	0.900794
Cardiovascular	Ventricular rate	T	8940	NA	NA	-0.02873	0.057027	-0.14051	0.08304	0.614365	0.900794	
Musculoskeletal	Osteomyelitis (HES)	T	378957	486	378615	0.883	-0.12428	0.247138	0.544	1.43	0.615061	0.9000
Operations and Procedures	Other endoscopic removal of calculus from ureter	T	378957	242	378859	0.835	-0.18085	0.359763	0.412	1.69	0.615185	0.9009
Digestive system	Peritonitis (HES)	T	378957	722	378379	1.1	0.092248	0.18387	0.765	1.57	0.615875	0.901363
Respiratory	Bronchiectasis (HES)	T	378957	1708	377393	0.938	-0.06396	0.127862	0.73	1.21	0.616922	0.902342
Operations and Procedures	Operations on septum of nose	T	378957	4412	374689	0.961	-0.03992	0.079885	0.822	1.12	0.617293	0.902342
ENT	Acute nasopharyngitis (HES)	T	378957	356	378745	1.14	0.12701	0.256052	0.687	1.88	0.619703	0.902578
Cancer	Larynx throat cancer (self-reported)	T	378957	289	378812	1.15	0.141319	0.284183	0.66	2.01	0.618991	0.902578
Operations and Procedures	Other operations on varicose vein of leg	T	378957	6971	372130	1.03	0.030515	0.06148	0.914	1.16	0.619695	0.902578
Operations and Procedures	Subcutaneous injection	T	378957	2578	376523	1.05	0.049001	0.098724	0.865	1.27	0.619655	0.902578
Immuno-inflammation	Allergy or anaphylactic reaction to drug (HES and self-reported)	T	378957	4200	374901	1.04	0.038755	0.077942	0.892	1.21	0.619028	0.902578
Immuno-inflammation	Rosacea (HES and self-reported)	T	378957	850	378251	0.913	-0.09132	0.183223	0.637	1.31	0.618207	0.902578
Operations and Procedures	Other operations on amniotic cavity	T	378957	308	378793	0.858	-0.15263	0.308198	0.469	1.57	0.620462	0.903138
Operations and Procedures	Creation of artificial opening into ileum	T	378957	1023	378078	1.08	0.076315	0.154439	0.797	1.46	0.621205	0.903568
Operations and Procedures	Instrumental correction of deformity of spine	T	378957	342	378759	0.865	-0.14489	0.294098	0.486	1.54	0.622528	0.903568
Cardiovascular	Primary hypertension (I20)	T	378957	416	378685	0.878	-0.12985	0.263282	0.524	1.47	0.621884	0.903568
Anthropometry	VAT visceral adipose tissue mass	T	4051	NA	NA	-0.04245	0.086141	-0.21129	0.126385	0.622147	0.903568	
Symptoms	Elevated blood glucose level (HES)	T	378957	625	378476	0.899	-0.10592	0.217302	0.588	1.38	0.625959	0.904984
Cancer	Mal neo kidney (cancer register)	T	378957	918	378183	0.918	-0.08574	0.175108	0.651	1.29	0.624387	0.904984
Operations and Procedures	Operations on canthus	T	378957	1131	377970	1.07	0.072132	0.147842	0.804	1.44	0.625621	0.904984
Operations and Procedures	Excision of redundant skin of eyelid	T	378957	1118	377983	1.07	0.072127	0.147914	0.804	1.44	0.625813	0.904984
Operations and Procedures	Other large intestine	T	378957	3469	375632	0.958	-0.04339	0.088664	0.804	1.14	0.625379	0.904984
Operations and Procedures	Curettage of uterus	T	378957	6842	372259	0.969	-0.03153	0.064446	0.854	1.1	0.624656	0.904984
Neurosciences	Cranial nerve problem/palsy (HES and self-reported)	T	378957	1916	377185	1.06	0.055741	0.113909	0.846	1.32	0.624592	0.904984
Cardiovascular	Mean carotid IMT intima medial thickness at 240 degrees	T	1843	NA	NA	0.061204	0.125737	-0.18524	0.307653	0.626403	0.904984	
Biological assays	Mean corpuscular haemoglobin	T	367719	NA	NA	0.004094	0.088416	-0.0124	0.020589	0.626614	0.904984	
Symptoms	Symptoms and signs involving emotional state (HES)	T	378957	584	378517	1.1	0.099247	0.20468	0.739	1.65	0.627756	0.905173
Operations and Procedures	Other periarticular division of bone	T	378957	263	378838	0.848	-0.16461	0.339392	0.436	1.65	0.627661	0.905173
Respiratory	FEV1 FVC ratio ever smoked only	T	175212	NA	NA	NA	-0.05494	0.012266	-0.02997	0.018086	0.627872	0.905173
Operations and Procedures	Other thoracic surgery (self-reported)	T	378957	1195	377906	0.928	-0.07437	0.15392	0.687	1.26	0.628974	0.906219
Operations and Procedures	Rectal or colon polypectomy (self-reported)	T	378957	1567	375734	1.06	0.060805	0.126173	0.83	1.36	0.629862	0.906414
Operations and Procedures	Extrication of lesion of palate	T	378957	297	378804	0.856	-0.15254	0.321901	0.456	1.61	0.629631	0.906414
Respiratory	Copd/Mapping/Loose prim/and Sec	T	244506	25872	218728	1.02	0.016771	0.034862	0.95	1.09	0.630458	0.90673
Symptoms	Speech disturbances (HES)	T	378957	1366	377735	0.934	-0.06854	0.143029	0.705	1.24	0.631676	0.90794
Genitourinary	Benign mammary dysplasia (HES)	T	378957	1624	377477	0.939	-0.03625	0.131044	0.727	1.21	0.632578	0.908179
Neurosciences	Mean time to correctly identify matches	T	376313	NA	NA	0.003984	0.008333	-0.01235	0.020317	0.632596	0.908179	
Medication	Other drugs for obstructive airway diseases inhalants	T	378957	29711	343990	0.985	-0.01483	0.03115	0.927	1.05	0.634119	0.909003
Operations and Procedures	Other autograft replacement of coronary artery	T	378957	496	378605	0.892	-0.11455	0.240587	0.556	1.43	0.633999	0.909003
Operations and Procedures	Preparation for external beam radiotherapy	T	378957	655	378446	1.09	0.090491	0.190234	0.754	1.59	0.634302	0.909003
Medication	Corticosteroids for systemic use plain	T	378957	6943	372158	1.03	0.029059	0.061235	0.913	1.16	0.635107	0.909615
Musculoskeletal	Acquired deformities of fingers and toes (HES)	T	378957	8762	370339	1.03	0.025882	0.054928	0.921	1.14	0.637501	0.910341
Summary	In situ neo (cancer register)	T	378957	8358	370743	0.973	-0.02707	0.057453	0.87	1.09	0.637503	0.910341
Operations and Procedures	Other operations on nose	T	378957	294	378807	0.859	-0.15212	0.321957	0.457	1.61	0.636571	0.910341
Operations and Procedures	Harvest of random pattern flap of skin from limb	T	378957	233	378868	0.844	-0.16964	0.360023	0.417	1.71	0.637497	0.910341
Medication	Vitamin B	T	376892	15815	362121	0.98	-0.01982	0.042051	0.903	1.06	0.637325	0.910341
Genitourinary	Glomerular disorders in diseases classified elsewhere (HES)	T	378957	293	378808	0.86	-0.15098	0.321989	0.457	1.62	0.631949	0.910322
Cancer	Carc in situ of skin (cancer register)	T	378957	1157	377944	1.07	0.068721	0.146456	0.804	1.43	0.63891	0.910532
Operations and Procedures	Drainage of subdural space	T	378957	236	378865	0.845	-0.16892	0.359986	0.417	1.71	0.638895	0.910532
Digestive system	Noninfective hepatitis (HES and self-reported)	T	378957	1195	377906	1.07	0.068021	0.144777	0.806	1.42	0.638477	0.910532
Cancer	Melanoma in situ (cancer register)	T	378957	1026	378705	1.07	0.07263	0.154049	0.794	1.45	0.639787	0.910589
Operations and Procedures	Other graft of bone	T	378957	696	378405	1.09	0.08432	0.186911	0.757	1.57	0.639495	0.910589
Summary	Other obstetric conditions not elsewhere classified (HES)	T	378957	1624	377477	0.94	-0.06148	0.131618	0.727	1.22	0.640434	0.910747
Operations and Procedures	Other diseases of the digestive system (HES)	T	378957	11473	367628	0.977	-0.0228	0.049142	0.888	1.08	0.642657	0.912384
Cardiovascular	Cardiac arrest (HES)	T	378957	863	378238	1.08	0.077917	0.168445	0.777	1.05	0.643675	0.912384
Cardiovascular	Venous surgery procedures (self-reported)	T	378957	246	378855	1.15	0.142603	0.308729	0.63	2.11	0.64415	0.912384
Operations and Procedures	Erc endoscopic retrograde cholangiopancreatogram (self-reported)	T	378957	341	378760	1.13	0.122058	0.264317	0.673	1.9	0.644238	0.912384
Gynaecology and Obstetrics	Ever had stillbirth spontaneous miscarriage or termination	T	201175	64150	137096	1.01	0.011322	0.024397	0.964	1.06	0.642626	0.912384
Operations and Procedures	Other operations on pilonidal sinus	T	378957	206	378895	1.17	0.158147	0.342126	0.6	2.29	0.643003	0.912384
Medication	Laxatives e.g Dulcolax Senokot	T	374624	1018	363950	0.977	-0.02348	0.050729	0.884	1.08	0.643427	0.912384
Summary	Musculoskeletal system and connective tissue (HES)	T	378957	844	378257	1.08	0.07788	0.170605	0.774	1.51	0.647998	0.914
Musculoskeletal	Myositis (HES)	T	378957	207	378894	0.838	-0.16762	0.384714	0.394	1.78	0.646169	0.914
Genitourinary	Salpingitis and oophoritis (HES)	T	378957	472	378629	1.11	0.102117	0.223697	0.714	1.72	0.648033	0.914
Operations and Procedures	Destruction of lesion of retina	T	378957	2270	376831	0.951	-0.05028	0.109778	0.767	1.18	0.646923	0.914
Operations and Procedures	Primary repair of femoral hernia	T	378957	527	378574	0.898	-0.10707	0.233935	0.568	1.42	0.647161	0.914
Operations and Procedures	Adjustment to length of tendon	T	378957	2142	376959	0.95	-0.05165	0.11304	0.761	1.19	0.64765	0.914
Metabolic	Graves disease (HES and self-reported)	T	378957	476	378625	0.893	-0.11304	0.247275	0.55	1.45	0.645736	0.914
Family history	Bowel cancer (family history - father)	T	338597	19587	319142	1.02	0.017031	0.03741	0.945	1.09	0.648918	0.914177
Neurosciences	Infection of nervous system (HES and self-reported)	T	378957	529	378572	0.899	-0.10653	0.233865	0.568	1.42	0.64873	0.914177
Medication	Other dermatological preparations	T	378957	20932	358169	1.02	0.016466	0.036339	0.947	1.09	0.650457	0.915423
Digestive system	Acute appendicitis (HES)	T	378957	2629	376472	1.05	0.044499	0.098237	0.862	1.27	0.650562	0.915423
Operations and Procedures	Excision of dental lesion of jaw	T	378957	624	378477	1.09	0.089062	0.197016	0.743	1.61	0.651229	0.915826
Eye	Disorders of lacrimal system (

Operations and Procedures	Burrhole approach to contents of cranium	T	378957	411	378690	1.11	0.101489	0.241304	0.69	1.78	0.674056	0.926706
Cancer	Lung cancer (self-reported)	T	378957	205	378896	0.851	-0.16148	0.384862	0.4	1.81	0.674785	0.926771
Metabolic	Hyperparathyroidism (HES and self-reported)	T	378957	788	378313	1.08	0.073536	0.175658	0.763	1.52	0.675486	0.927206
Cancer	Skin cancer (self-reported)	T	378957	1189	377912	1.06	0.059948	0.143531	0.801	1.41	0.67193	0.927647
Metabolic	Thyroxotoxicosis (HES)	T	378957	1663	377438	0.948	-0.053336	0.128837	0.736	1.22	0.678732	0.92822
Mental health	Sexual dysfunction not caused disorder or disease (HES)	T	378957	264	378837	0.871	-0.13979	0.339516	0.448	1.69	0.684471	0.92822
Neurosciences	Nerve root and plexus disorders (HES)	T	378957	316	378785	1.12	0.112181	0.273616	0.654	1.91	0.681809	0.92822
ENT	Other hearing loss (HES)	T	378957	2563	376538	0.959	-0.04207	0.102976	0.784	1.17	0.682899	0.92822
Cardiovascular	Sequelae of cerebrovascular disease (HES)	T	378957	1161	377940	1.06	0.060171	0.146349	0.797	1.41	0.680963	0.92822
Cardiovascular	Varicose veins of other sites (HES)	T	378957	460	378641	0.902	-0.10358	0.254752	0.547	1.49	0.684305	0.92822
Genitourinary	Inflammatory diseases of prostate (HES)	T	378957	1436	377665	0.944	-0.05764	0.13949	0.718	1.24	0.67943	0.92822
Medication	Agents against amoebiasis and other protozoal diseases	T	378957	660	378441	0.918	-0.08512	0.20818	0.611	1.38	0.682618	0.92822
Medication	Corticosteroids and antineflectives in combination 2	T	378957	6221	372880	1.03	0.02647	0.064676	0.905	1.17	0.682342	0.92822
Cardiovascular	Pacemaker defibrillator insertion (self-reported)	T	378957	680	378421	0.92	-0.0829	0.204152	0.617	1.37	0.684702	0.92822
Cancer	Hodgkin's disease (cancer register)	T	378957	245	378856	1.14	0.128321	0.308754	0.621	2.08	0.677697	0.92822
Operations and Procedures	Microsurgical repair of peripheral nerve	T	378957	222	378879	1.14	0.132145	0.323858	0.605	2.15	0.683253	0.92822
Operations and Procedures	Other therapeutic endoscopic operations on larynx	T	378957	206	378895	0.855	-0.15686	0.384739	0.402	1.82	0.683499	0.92822
Operations and Procedures	Examination of sigmoid colon	T	378957	2690	376411	1.04	0.040163	0.09778	0.859	1.26	0.681256	0.92822
Operations and Procedures	Forces cephalic delivery	T	378957	705	378396	1.08	0.076941	0.186088	0.75	1.56	0.679266	0.92822
Operations and Procedures	Exploration of other skin of head or neck	T	378957	445	378656	1.1	0.097463	0.234731	0.696	1.75	0.677987	0.92822
Operations and Procedures	Release of fascia	T	378957	204	378897	0.854	-0.15747	0.384847	0.402	1.82	0.682413	0.92822
Medication	Glucosamine	T	377076	73561	304289	0.991	-0.00876	0.021318	0.951	1.03	0.680989	0.92822
Metabolic	Thyroid radioablation therapy (HES and self-reported)	T	378957	2506	376595	0.959	-0.04233	0.104055	0.782	1.18	0.684155	0.92822
Gynaecology and Obstetrics	Disorder of adrenal gland (HES and self-reported)	T	378957	470	378631	0.903	-0.10239	0.247253	0.556	1.47	0.67878	0.92822
Gynaecology and Obstetrics	Ovarian cyst or cysts (HES and self-reported)	T	378957	6134	372967	0.973	-0.02763	0.066755	0.853	1.11	0.678922	0.92822
Medication	Antidiuretic agents peripherally acting	T	378957	4727	374374	0.97	-0.03075	0.075785	0.836	1.13	0.685179	0.928344
Cardiovascular	Carotid artery angioplasty stent (self-reported)	T	378957	333	378768	0.888	-0.11867	0.294382	0.499	1.58	0.686876	0.929076
Gynaecology and Obstetrics	Ovarian tubal surgery (self-reported)	T	378957	1138	377963	0.939	-0.06288	0.155938	0.692	1.27	0.686786	0.929076
Summary	Neo of uncertain or unknown behaviour (cancer register)	T	378957	2117	376984	1.04	0.0439	0.108748	0.844	1.29	0.686445	0.929076
Cancer	Car in situ of other digestive organs (cancer register)	T	378957	262	378839	1.13	0.118504	0.295806	0.63	2.01	0.687711	0.931035
Summary	Congenital malformations of the urinary system (HES)	T	378957	821	378280	1.07	0.06802	0.170302	0.763	1.5	0.690902	0.932955
Metabolic	Other hypothyroidism (HES)	T	378957	12869	366232	1.02	0.018198	0.045724	0.931	1.11	0.690639	0.932955
Gynaecology and Obstetrics	Gestational hypertension without significant proteinuria (HES)	T	378957	427	378674	0.903	-0.10177	0.256514	0.546	1.49	0.691562	0.933318
Digestive system	Irritable bowel syndrome (HES)	T	378957	5022	374079	0.971	-0.02922	0.073818	0.84	1.12	0.692118	0.933629
Musculoskeletal	Other disorders of bone density and structure (HES)	T	378957	998	378103	0.936	-0.06062	0.167887	0.674	1.3	0.694147	0.933668
Operations and Procedures	Neurostimulation of peripheral nerve	T	378957	545	378556	0.914	-0.08983	0.228082	0.585	1.43	0.6937	0.933668
NA	Ischaemic stroke	T	378957	3655	375446	0.966	-0.03408	0.086557	0.816	1.15	0.69378	0.933668
Genitourinary	Erectile dysfunction impotence (HES and self-reported)	T	378957	497	378604	0.909	-0.09487	0.240583	0.568	1.46	0.693233	0.933668
Musculoskeletal	Fracture metatarsal (HES and self-reported)	T	378957	436	378665	1.1	0.09245	0.234841	0.692	1.74	0.69387	0.933668
Immuno-inflammation	Other follicular disorders (HES)	T	378957	373	378728	1.11	0.100264	0.255788	0.67	1.83	0.695059	0.933852
Medication	Decongestants and other nasal preparations for topical use	T	378957	33775	345326	0.989	-0.01151	0.029345	0.933	1.05	0.694993	0.933852
Medication	Hemorrhoids and anal fissures for topical use	T	378957	11708	367393	1.02	0.018699	0.047852	0.928	1.12	0.695961	0.934543
Anthropometry	Visceral adipose tissue volume VAT	T	378957	801	NA	NA	-0.07798	0.199962	-0.46991	0.313943	0.696545	0.934806
Medication	Beta lactam antibiotics penicillins	T	378957	1102	377999	1.06	0.058641	0.150896	0.789	1.43	0.697556	0.935121
Operations and Procedures	Discectomy (self-reported)	T	378957	1381	377720	1.05	0.05281	0.134474	0.81	1.37	0.697438	0.935121
Operations and Procedures	Compensation for renal failure	T	378957	703	378398	0.925	-0.07767	0.200136	0.625	1.37	0.697952	0.935131
Medication	Angiotensin II antagonists combinations	T	378957	30598	348503	0.988	-0.01207	0.031154	0.929	1.05	0.698554	0.935451
Medication	Other gynecologicals	T	378957	52465	326636	1.01	0.009265	0.02419	0.963	1.06	0.701697	0.935415
Summary	Viral infections skin and mucous memb (HES)	T	378957	1422	377679	1.05	0.050935	0.133293	0.81	1.37	0.702367	0.935415
Summary	Bacterial viral and other infectious agents (HES)	T	378957	11829	367272	1.02	0.018151	0.047689	0.927	1.12	0.703491	0.935415
Metabolic	Deficiency of other B group vitamins (HES)	T	378957	664	378437	1.08	0.073999	0.193361	0.737	1.57	0.701942	0.935415
Gynaecology and Obstetrics	Other maternal diseases complicating pregnancy (HES)	T	378957	1582	377519	0.951	-0.05076	0.132682	0.733	1.23	0.702034	0.935415
Symptoms	Localized swelling mass and lump of skin and subcutaneous tissue (HES)	T	378957	1921	377180	0.955	-0.04559	0.11967	0.756	1.21	0.702356	0.935415
Symptoms	Symptoms cognitive functions and awareness (HES)	T	378957	2889	376212	1.04	0.035812	0.094155	0.862	1.25	0.703681	0.935415
Operations and Procedures	Plastic repair of mitral valve	T	378957	528	378573	1.08	0.081239	0.213561	0.714	1.65	0.703648	0.935415
Operations and Procedures	Neuropsychology test	T	378957	256	378845	0.879	-0.12901	0.339556	0.452	1.71	0.703988	0.935415
Eye	Eye trauma (HES and self-reported)	T	378957	816	378285	1.07	0.066781	0.175496	0.758	1.51	0.703552	0.935415
Neurosciences	Trigeminal neuralgia (HES and self-reported)	T	378957	464	378637	0.909	-0.05953	0.247351	0.56	1.48	0.699331	0.935415
Eye	Macular degeneration (HES and self-reported)	T	378957	2130	376971	0.958	-0.04308	0.125753	0.768	1.19	0.702226	0.935415
Other	Morning evening person chronotype	T	338480	NA	NA	-0.00336	0.008821	-0.02065	0.013929	0.703201	0.935415	
Cardiovascular	Mean carotid IMT intima medial thickness at 210 degrees	T	1850	NA	NA	-0.04795	0.123983	-0.29095	0.195061	0.698971	0.935415	
Cardiovascular	Other lymphatic vessels and lymph nodes (HES)	T	378957	601	378500	1.08	0.075954	0.200755	0.728	1.6	0.705150	0.935711
Digestive system	Other diseases of lip and oral mucosa (HES)	T	378957	2606	376495	0.962	-0.03894	0.102871	0.786	1.18	0.705275	0.935711
Operations and Procedures	Therapeutic endoscopic operations on uterus	T	378957	6827	372274	0.976	-0.02402	0.063521	0.862	1.11	0.703736	0.935711
Genitourinary	Cystic kidney disease (HES)	T	378957	414	378687	1.1	0.090913	0.241262	0.683	1.76	0.703605	0.936427
Biological assays	Nucleated red blood cell count	T	367058	NA	NA	-0.00316	0.008848	-0.01966	0.01334	0.707388	0.937347	
Musculoskeletal	Fracture upper arm humerus elbow (HES and self-reported)	T	378957	3361	375740	0.967	-0.03477	0.090218	0.81	1.15	0.71067	0.941179
Cardiovascular	Subarachnoid haemorrhage (HES)	T	378957	743	378358	1.07	0.067992	0.183732	0.747	1.53	0.711367	0.941584
Neurosciences	Multiple sclerosis (HES)	T	378957	1215	377886	1.05	0.052962	0.143401	0.796	1.4	0.711882	0.941653
Respiratory	Postprocedural respiratory disorders (HES)	T	378957	334	378767	0.898	-0.10778	0.294254	0.504	1.6	0.714155	0.941653
Gynaecology and Obstetrics	Postpartum haemorrhage (HES)	T	378957	1204	377897	1.05	0.053222	0.144808	0.794	1.4	0.713218	0.941653
Cancer	Cervical cancer (self-reported)	T	378957	1533	377568	1.05	0.0473	0.128253	0.815	1.35	0.712275	0.941653
Operations and Procedures	Colonoscopy sigmoidoscopy (self-reported)	T	378957	7510	371591	0.978	-0.02226	0.060548	0.869	1.1	0.713642	0.941653
Summary	Had major operations	T	172924	11364	62003	1.01	0.009582	0.026148	0.959	1.06	0.710404	0.941653
Operations and Procedures	Other examination of female genital tract	T	378957	3998	375103	0.97	-0.03043	0.083034	0.824	1.14	0.713988	0.941653
Digestive system	Unspecified appendicitis (HES)	T	378957	412	378689	0.908	-0.06915	0.263275	0.542	1.52	0.714958	0.942196
Medication	Calcium channel blockers and diuretics	T	378957	18780	360321	0.986	-0.01411	0.038961	0.913	1.06	0.71719	0.942262
Operations and Procedures	Closure of cornea	T	378957	204	378897	0.87	-					

ENT	Hear loss B	T	120977	NA	NA	NA	0.04957	0.014545	-0.02355	0.033466	0.733226	0.949189
Operations and Procedures	Repair of diaphragmatic hernia	T	378957	276	378825	0.898	-0.10779	0.322328	0.477	1.69	0.738063	0.950291
Metabolic	Thyroid radioablation therapy (self-reported)	T	378957	360	378741	0.91	-0.0941	0.282759	0.523	1.58	0.739287	0.95085
ENT	Chronic sinusitis (HES and self-reported)	T	378957	4361	374740	0.974	-0.02628	0.078934	0.834	1.14	0.739178	0.95085
Summary	Oed prot and hyptrn dis in preg chldbirth (HES)	T	378957	1199	377902	0.952	-0.04965	0.151531	0.707	1.28	0.743163	0.952697
Neurosciences	Other paralytic syndromes (HES)	T	378957	334	378767	0.908	-0.09678	0.29422	0.51	1.62	0.742207	0.952697
Symptoms	Oedema (HES)	T	378957	1490	377611	0.956	-0.04499	0.135432	0.733	1.25	0.742518	0.952697
Summary	Mal neo of mesothelial and soft tissue (cancer register)	T	378957	538	378563	0.928	-0.075	0.228155	0.593	1.45	0.74237	0.952697
Operations and Procedures	Endoscopic operations to increase capacity of bladder	T	378957	1067	378034	0.948	-0.05299	0.161504	0.691	1.3	0.742822	0.952697
Operations and Procedures	Other operations on penis	T	378957	452	378649	1.08	0.077189	0.234862	0.682	1.71	0.742417	0.952697
Operations and Procedures	Other operations on subcutaneous tissue	T	378957	494	378607	0.924	-0.07866	0.240375	0.577	1.48	0.743491	0.952697
Summary	Delivery (HES)	T	378957	2450	376651	0.966	-0.03445	0.107352	0.783	1.19	0.748261	0.95278
Haematology	Acute posthaemorrhagic anaemia (HES)	T	378957	226	378875	1.11	0.103539	0.323725	0.588	2.09	0.749093	0.95278
Genitourinary	Vulvovaginal ulceration and inflammation (HES)	T	378957	202	378899	1.12	0.10329	0.341402	0.572	2.18	0.747651	0.95278
Genitourinary	Erosion and ectropion of cervix uteri (HES)	T	378957	830	378271	0.943	-0.05817	0.180933	0.662	1.35	0.747839	0.95278
Genitourinary	Menopausal and other perimenopausal disorders (HES)	T	378957	9413	369688	1.02	0.017315	0.053625	0.916	1.13	0.746785	0.95278
Medication	Other antibacterials	T	378957	1343	377758	0.955	-0.04586	0.143071	0.722	1.26	0.748576	0.95278
Operations and Procedures	Achilles tendon repair (self-reported)	T	378957	613	378488	0.934	-0.06813	0.212809	0.616	1.42	0.748847	0.95278
Neurosciences	Neck shoulder pain for 3 months vs no pain	T	344799	58990	285942	1.01	0.00743	0.02319	0.963	1.05	0.748682	0.95278
Operations and Procedures	Other open operations on valve of heart	T	378957	301	378800	0.905	-0.09594	0.307443	0.496	1.65	0.746123	0.95278
Operations and Procedures	Diagnostic transluminal operations on coronary artery	T	378957	808	378293	0.942	-0.05975	0.186415	0.654	1.36	0.748574	0.95278
Operations and Procedures	Diagnostic transluminal operations on vein	T	378957	931	378170	1.05	0.053187	0.163886	0.765	1.45	0.745533	0.95278
Operations and Procedures	Diagnostic testing of genitourinary system	T	378957	578	378523	1.07	0.067699	0.208791	0.711	1.61	0.745754	0.95278
Eye	Retina problem (HES and self-reported)	T	378957	7219	371882	1.02	0.019224	0.060602	0.906	1.15	0.748918	0.95278
Biological assays	White blood cell leucocyte count	T	367171	NA	NA	NA	0.002733	0.008435	-0.0138	0.019266	0.745932	0.95278
Other	Snoring	T	352620	131409	221344	0.994	-0.00581	0.018225	0.959	1.03	0.749795	0.95282
Gynaecology and Obstetrics	Fibrocystic disease (HES and self-reported)	T	378957	1743	377358	0.961	-0.03989	0.125136	0.752	1.23	0.749916	0.95282
Medication	Vitamin b12 and folic acid	T	378957	8262	370839	0.982	-0.01823	0.057815	0.877	1.1	0.752531	0.953127
Gynaecology and Obstetrics	Labour and delivery complicated by fetal stress (HES)	T	378957	21493	357608	1.01	0.011406	0.036193	0.942	1.09	0.752664	0.953127
Mental health	Probable recurrent major depression moderate	T	58804	11697	47141	0.983	-0.01701	0.054066	0.884	1.09	0.753030	0.953127
Operations and Procedures	Other therapeutic transluminal operations on coronary artery	T	378957	858	378243	1.06	0.053583	0.170787	0.755	1.47	0.753718	0.953127
Operations and Procedures	Prosthetic replacement of head of femur using cement	T	378957	222	378879	0.893	-0.11313	0.36043	0.441	1.81	0.753616	0.953127
Respiratory	Respiratory failure (HES and self-reported)	T	378957	1951	377150	0.964	-0.03178	0.118243	0.764	1.21	0.757313	0.953127
Genitourinary	Renal/kidney failure (HES and self-reported)	T	378957	8356	370745	1.02	0.017887	0.056279	0.912	1.14	0.756016	0.953127
Musculoskeletal	Fracture patella knee (HES and self-reported)	T	378957	515	378586	0.929	-0.07349	0.233992	0.587	1.47	0.753463	0.953127
Operations and Procedures	Other operations on ventricle of brain	T	378957	227	378874	0.894	-0.1125	0.360157	0.441	1.81	0.754764	0.953764
Respiratory	GOLD tobac	T	18298	NA	NA	NA	-0.01153	0.036954	-0.08396	0.060898	0.755014	0.953764
Digestive system	Intestinal malabsorption (HES)	T	378957	1888	377213	0.964	-0.03717	0.119728	0.762	1.22	0.756216	0.954269
Genitourinary	Neuromuscular dysfunction of bladder (HES)	T	378957	1508	377593	1.04	0.040621	0.131059	0.806	1.35	0.756601	0.954269
Operations and Procedures	Operations on frontal sinus	T	378957	1944	377157	1.04	0.035805	0.151228	0.827	1.3	0.756003	0.954269
Medication	Antipropulsives	T	378957	2041	370760	0.965	-0.03527	0.115111	0.77	1.21	0.759299	0.954769
ENT	Otosclerosis (HES)	T	378957	275	378826	0.905	-0.09395	0.322356	0.481	1.7	0.757926	0.954769
Respiratory	Chronic sinusitis (HES)	T	378957	2225	376876	0.967	-0.03838	0.110955	0.778	1.2	0.760471	0.954769
Immuno-inflammation	Urticaria (HES)	T	378957	328	378773	1.09	0.084003	0.273388	0.636	1.86	0.758641	0.954769
Immuno-inflammation	Follicular cysts of skin and subcutaneous tissue (HES)	T	378957	7583	371518	1.02	0.018033	0.059164	0.907	1.14	0.760518	0.954769
Symptoms	Malaise and fatigue (HES)	T	378957	2616	376485	1.03	0.030342	0.099569	0.848	1.25	0.760565	0.954769
Digestive system	Oesophageal stricture (HES and self-reported)	T	378957	1781	377320	1.04	0.036804	0.119943	0.82	1.31	0.758961	0.954769
Cardiovascular	Aortic aneurysm (HES and self-reported)	T	378957	1220	377881	1.04	0.043481	0.142499	0.79	1.38	0.760267	0.954769
Other	Num/Cigarettes	T	111849	NA	NA	NA	0.00476	0.015477	-0.02558	0.035091	0.758596	0.954769
Gynaecology and Obstetrics	Cervix surgery (self-reported)	T	378957	1570	377531	1.04	0.038526	0.127241	0.81	1.33	0.762059	0.954569
Operations and Procedures	Other therapeutic transluminal operations on heart	T	378957	1372	377729	0.958	-0.04247	0.140413	0.728	1.26	0.762313	0.955469
Metabolic	Parathyroid gland problem not cancer (HES and self-reported)	T	378957	274	378827	1.09	0.08505	0.295471	0.613	1.95	0.761948	0.955469
Medication	Digestives incl enzymes	T	378957	255	378846	1.1	0.093133	0.308479	0.683	1.1	0.7643	0.955507
Summary	Influenza and pneumonia (HES)	T	378957	9013	370088	0.984	-0.01651	0.055066	0.883	1.1	0.7643	0.955507
Cardiovascular	Occulsion and stenosis not cerebral infarction (HES)	T	378957	928	378173	0.95	-0.05172	0.172778	0.677	1.33	0.764699	0.955507
Operations and Procedures	Clearance of external auditory canal	T	378957	325	378776	0.915	-0.08581	0.294377	0.514	1.63	0.76367	0.955507
Operations and Procedures	Total excision of bone	T	378957	1188	377913	0.956	-0.04497	0.150771	0.711	1.28	0.765516	0.955507
Operations and Procedures	Other open operations on joint	T	378957	1273	378282	0.957	-0.04363	0.145979	0.719	1.27	0.765047	0.955507
Medication	Ranitidine e g Zantac	T	374624	7205	367563	0.982	-0.0185	0.061906	0.869	1.11	0.765024	0.955507
Digestive system	Oesophageal disorder (HES and self-reported)	T	378957	9080	370211	0.92	0.016207	0.054269	0.914	1.13	0.765214	0.955507
Neurosciences	Polyneuropathy in diseases classified elsewhere (HES)	T	378957	353	378748	0.919	-0.08419	0.282866	0.528	1.6	0.765984	0.955601
Musculoskeletal	Muscle or soft tissue injuries (HES and self-reported)	T	378957	9366	369715	1.02	0.015804	0.053295	0.915	1.13	0.766861	0.956195
Medication	Antifungals for topical use	T	378957	3710	375391	0.975	-0.02552	0.085752	0.824	1.15	0.768705	0.957008
Respiratory	Other pleural conditions (HES)	T	378957	242	378859	0.905	-0.10009	0.339991	0.465	1.76	0.768452	0.957008
Cardiovascular	LVEFvI	T	3760	NA	NA	NA	0.026442	0.08913	-0.14959	0.202475	0.768439	0.957008
Operations and Procedures	Incision of capsule of lens	T	378957	1497	377604	0.961	-0.03932	0.134397	0.739	1.25	0.76985	0.957013
Anthropometry	Abdominal subcutaneous adipose tissue volume ASAT	T	378957	801	NA	NA	0.058453	0.199385	-0.33322	0.450129	0.769091	0.957013
Biological assays	Mean corpuscular volume	T	367220	NA	NA	NA	0.002464	0.008419	-0.01403	0.018897	0.769429	0.957013
Genitourinary	Renal failure not requiring dialysis (HES and self-reported)	T	378957	483	378618	0.932	-0.07009	0.240482	0.582	1.49	0.770713	0.957278
Summary	Other degenerative diseases of the nervous system (HES)	T	378957	907	378194	1.05	0.047765	0.166135	0.757	1.45	0.773725	0.958762
Summary	Dermatitis and eczema (HES)	T	378957	2862	376239	0.972	-0.02792	0.097624	0.803	1.18	0.774869	0.958762
Infectious disease	Zoster (HES)	T	378957	425	378676	1.07	0.069363	0.241336	0.668	1.72	0.773613	0.958762
Infectious disease	Viral infection of unspecified site (HES)	T	378957	1590	377511	1.04	0.036272	0.126977	0.808	1.33	0.77514	0.958762
Eye	Other inflammation of eyelid (HES)	T	378957	538	378563	1.06	0.06059	0.213397	0.7	1.61	0.77554	0.958762
Cardiovascular	Haemorrhoids (HES)	T	378957	21509	357592	1.01	0.01026	0.035885	0.942	1.08	0.774943	0.958762
Eye	Squint correction (self-reported)	T	378957	5064	374037	0.979	-0.02099	0.073016	0.849	1.13	0.773757	0.958762
Operations and Procedures	Other operations on eye	T	378957	768	378333	1.05	0.05161	0.180877	0.739	1.5	0.775380	0.958762
Operations and Procedures	Release of organ NOC	T	378957	896	378205	0.951	-0.0499	0.175123	0.675	1.		

Operations and Procedures	Brain surgery (self-reported)	T	378957	1560	377541	1.03	0.03148	0.127966	0.804	1.33	0.795607	0.964093
Musculoskeletal	Fracture jaw (HES and self-reported)	T	378957	790	378311	1.05	0.04681	0.180805	0.735	1.49	0.795412	0.964093
Immuno-inflammation	Hypertrophic disorders of skin (HES)	T	378957	1003	378098	1.04	0.04167	0.159747	0.762	1.43	0.796639	0.964479
Operations and Procedures	Excision of tendon	T	378957	253	378848	1.08	0.07947	0.308517	0.591	1.98	0.796726	0.964479
Immuno-inflammation	Blisteringdesquamating skin disorder (HES and self-reported)	T	378957	748	378353	1.05	0.047131	0.183704	0.731	1.5	0.797519	0.964954
Infectious disease	Viral agents as the cause of diseases classified to other chapters (HES)	T	378957	505	378596	0.942	-0.05991	0.234156	0.595	1.49	0.798065	0.96513
Medication	Peripheral vasodilators	T	378957	334	378767	1.07	0.064158	0.273295	0.624	1.82	0.814398	0.9652
Summary	Disorders of thyroid gland (HES)	T	378957	15440	363661	0.99	-0.0103	0.042451	0.911	1.08	0.808328	0.9652
Summary	Organic including symptomatic mental disorders (HES)	T	378957	1447	377654	1.03	0.032531	0.132398	0.797	1.34	0.805904	0.9652
Summary	Other disorders of the nervous system (HES)	T	378957	3742	375359	1.02	0.020741	0.083268	0.867	1.2	0.803291	0.9652
Summary	Respiratory diseases interstitium (HES)	T	378957	1501	376000	0.969	-0.03146	0.134349	0.745	1.26	0.814845	0.9652
Summary	Inflammatory diseases of female pelvic organs (HES)	T	378957	5417	373684	1.02	0.016903	0.069796	0.887	1.17	0.808646	0.9652
Summary	Congenital malformations of the nervous system (HES)	T	378957	249	378852	0.918	-0.0851	0.339739	0.472	1.79	0.802213	0.9652
Summary	Symptoms nervous and musculoskeletal systems (HES)	T	378957	4763	374338	0.982	-0.0181	0.07517	0.848	1.14	0.809702	0.9652
Summary	Symptoms cognition perception emotional state (HES)	T	378957	8138	370963	1.01	0.013745	0.057263	0.906	1.13	0.810303	0.9652
Eye	Conjunctivitis (HES)	T	378957	221	378880	0.914	-0.0904	0.36034	0.451	1.85	0.801903	0.9652
Respiratory	Nasal polyp (HES)	T	378957	2942	376159	0.976	-0.0242	0.096413	0.808	1.18	0.801827	0.9652
Immuno-inflammation	Other dermatitis (HES)	T	378957	1379	377722	0.968	-0.03285	0.140378	0.735	1.27	0.814951	0.9652
Musculoskeletal	Polyarthrosis (HES)	T	378957	3571	375530	0.98	-0.02057	0.087157	0.826	1.16	0.813402	0.9652
Genitourinary	Inflammatory disorders of breast (HES)	T	378957	430	378671	0.939	-0.06264	0.25511	0.57	1.55	0.806036	0.9652
Gynaecology and Obstetrics	Maternal care fetal abnormality and damage (HES)	T	378957	238	378863	0.922	-0.08074	0.341038	0.473	1.8	0.812845	0.9652
Symptoms	Abnormal involuntary movements (HES)	T	378957	819	378282	0.956	-0.04519	0.183361	0.667	1.37	0.805344	0.9652
Gynaecology and Obstetrics	Vaginal prolapse colposuspension (self-reported)	T	378957	3479	375622	0.979	-0.02167	0.088467	0.823	1.16	0.808565	0.9652
Eye	Retinal operation vitrectomy (self-reported)	T	378957	2253	376848	0.974	-0.02651	0.109207	0.786	1.21	0.808168	0.9652
Operations and Procedures	Male circumcision (self-reported)	T	378957	3497	375604	1.02	0.020506	0.08753	0.86	1.21	0.814771	0.9652
Gynaecology and Obstetrics	Ovarian cyst removal surgery (self-reported)	T	378957	4517	374584	0.982	-0.01864	0.077352	0.843	1.14	0.809525	0.9652
Operations and Procedures	Prostate biopsy (self-reported)	T	378957	258	378843	0.924	-0.07943	0.323119	0.49	1.74	0.805813	0.9652
Operations and Procedures	Other operations on rectum through anus	T	378957	648	378453	0.952	-0.049	0.204238	0.638	1.42	0.810396	0.9652
Operations and Procedures	Dilation of anal sphincter	T	378957	444	378657	1.06	0.057297	0.240841	0.661	1.7	0.811955	0.9652
Operations and Procedures	Urinary diversion	T	378957	327	378774	1.07	0.069769	0.273464	0.627	1.83	0.798621	0.9652
Operations and Procedures	Extrication of scrotum	T	378957	239	378862	1.08	0.07638	0.323468	0.573	2.04	0.810316	0.9652
Operations and Procedures	Surgical induction of labour	T	378957	2296	376805	0.974	-0.02592	0.110718	0.784	1.21	0.814894	0.9652
Operations and Procedures	Exploration of other skin of other site	T	378957	4464	374637	0.981	-0.01897	0.077855	0.842	1.14	0.807494	0.9652
Operations and Procedures	Rehabilitation for musculoskeletal disorders	T	378957	364	378737	1.06	0.061766	0.255964	0.644	1.76	0.809312	0.9652
Operations and Procedures	Closed reduction of fracture of bone and internal fixation	T	378957	2838	376263	0.976	-0.02452	0.097659	0.806	1.18	0.801789	0.9652
Operations and Procedures	Prosthetic replacement of other bone using cement	T	378957	559	378542	1.05	0.051737	0.208975	0.699	1.59	0.804464	0.9652
Operations and Procedures	Injection of radiocontrast material	T	378957	1644	377457	1.03	0.030272	0.125997	0.805	1.32	0.810312	0.9652
Operations and Procedures	Radiotherapy delivery	T	378957	2124	376977	0.973	-0.02778	0.111802	0.781	1.21	0.803742	0.9652
Operations and Procedures	Laser therapy to organ NOC	T	378957	2987	376114	0.978	-0.02231	0.094785	0.812	1.18	0.813957	0.9652
Operations and Procedures	Introduction of non removable material into organ NOC	T	378957	611	378490	0.95	-0.051	0.212925	0.626	1.44	0.810707	0.9652
Digestive system	Hepatitis (HES and self-reported)	T	378957	1662	377439	1.03	0.0312	0.152058	0.807	1.32	0.802987	0.9652
Genitourinary	Urinary frequency incontinence (HES and self-reported)	T	378957	11734	367367	1.01	0.01688	0.047861	0.921	1.11	0.807073	0.9652
ENT	Menieres disease (HES and self-reported)	T	378957	1305	377796	1.04	0.034761	0.13933	0.788	1.36	0.802981	0.9652
Musculoskeletal	Plantar fascitis (HES and self-reported)	T	378957	448	378653	1.06	0.057064	0.234671	0.668	1.68	0.807877	0.9652
Cardiovascular	Mitral regurgitation incompetence (HES and self-reported)	T	378957	2024	377077	0.973	-0.02755	0.115254	0.776	1.22	0.81109	0.9652
Other	Daytime dozing sleeping narcolepsy	T	377408	NA	NA	NA	0.00205	0.008315	-0.01427	0.018328	0.80715	0.9652
Biological assays	Eosinophil percentage	T	367073	NA	NA	NA	-0.002	0.008444	-0.01855	0.014552	0.812982	0.9652
Cancer	Mal neo rectosigmoid (cancer register)	T	378957	343	378758	0.936	-0.06589	0.283046	0.538	1.63	0.815925	0.965879
Genitourinary	Prostatitis (HES and self-reported)	T	378957	1555	377546	0.97	-0.03068	0.132459	0.748	1.26	0.816852	0.966501
Gynaecology and Obstetrics	Single spontaneous delivery (HES)	T	378957	1836	372625	1.03	0.02753	0.119818	0.813	1.3	0.818284	0.967478
Symptoms	Abnormal blood pressure reading without diagnosis (HES)	T	378957	2292	376809	1.02	0.024117	0.105756	0.833	1.26	0.819613	0.967478
Operations and Procedures	Fixation of retina	T	378957	1034	378067	1.04	0.035198	0.154414	0.765	1.4	0.819686	0.967478
Operations and Procedures	Excision of pilonidal sinus	T	378957	253	378848	0.925	-0.07733	0.339738	0.475	1.8	0.819019	0.967478
Operations and Procedures	Harvest of skin for graft	T	378957	2280	376821	1.02	0.02425	0.105806	0.833	1.26	0.818722	0.967478
Operations and Procedures	Other operations on internal nose	T	378957	2843	376258	1.02	0.021803	0.096073	0.847	1.23	0.82047	0.96793
Operations and Procedures	Excision of lesion of anus	T	378957	2708	376393	0.978	-0.0252	0.099913	0.804	1.19	0.821676	0.968484
ENT	Throat or larynx disorder (HES and self-reported)	T	378957	3484	375617	0.98	-0.01995	0.08853	0.824	1.17	0.821744	0.968484
Genitourinary	Other disorders of penis (HES)	T	378957	1896	377205	1.03	0.026298	0.11708	0.816	1.29	0.822729	0.968641
Eye	Blindness and low vision (HES)	T	378957	805	378296	1.04	0.038139	0.178045	0.733	1.47	0.830386	0.971371
Respiratory	Chronic rhinitis nasopharyngitis and pharyngitis (HES)	T	378957	770	378331	0.96	-0.04083	0.189544	0.662	1.39	0.829428	0.971371
Respiratory	Other chronic obstructive pulmonary disease (HES)	T	378957	7608	371493	1.01	0.012753	0.059627	0.901	1.14	0.830645	0.971371
Digestive system	Other diseases of appendix (HES)	T	378957	242	378859	0.928	-0.07425	0.339915	0.477	1.81	0.827083	0.971371
Genitourinary	Other congenital malformations of kidney (HES)	T	378957	214	378887	0.926	-0.07175	0.306552	0.457	1.88	0.830565	0.971371
ENT	Ear surgery (self-reported)	T	378957	6011	373090	1.01	0.014546	0.06631	0.891	1.16	0.826369	0.971371
Operations and Procedures	Total excision of colon and rectum	T	378957	212	378889	1.08	0.070325	0.340854	0.552	2.1	0.830359	0.971371
Operations and Procedures	Excision of bone	T	378957	3651	375450	1.02	0.018185	0.084374	0.863	1.2	0.829352	0.971371
Operations and Procedures	Other operations on tendon	T	378957	780	378321	0.96	-0.04037	0.186449	0.666	1.38	0.828563	0.971371
Operations and Procedures	Other total prosthetic replacement of hip joint	T	378957	1064	378037	0.966	-0.03482	0.157848	0.709	1.32	0.825426	0.971371
Operations and Procedures	Approach through thoracic cavity	T	378957	602	378499	0.955	-0.0461	0.212903	0.629	1.45	0.828563	0.971371
ENT	Dentures	T	377502	63135	314511	0.995	-0.00514	0.024041	0.929	1.04	0.826112	0.971371
Eye	Glaucoma (HES and self-reported)	T	378957	6262	372839	0.986	-0.01424	0.065242	0.868	1.12	0.827164	0.971371
Neurosciences	Fluid intelligence score	T	184451	NA	NA	NA	-0.002543	0.011757	-0.0205	0.025587	0.828735	0.971371
Biological assays	Potassium in urine	T	367300	NA	NA	NA	-0.00182	0.008452	-0.01839	0.014743	0.829212	0.971371
Summary	Noninflammatory disorders of female genital tract (HES)	T	378957	43955	335146	1.01	0.005846	0.027441	0.953	1.06	0.83133	0.971665
Symptoms	Signs involving the nervous and musculoskeletal systems (HES)	T	378957	2611	376490	1.02	0.021051	0.091698	0.841	1.24	0.831894	0.971888
Eye	Hordeolum and chalazion (HES)	T	378957	1665	377436	0.973	-0.027	0.127797	0.758	1.25	0.832702	0.971889
Haematology	Myeloproliferative disorder (HES and self-reported)	T	378957	455	378646	1.05	0.04958	0.234689	0.663	1.66	0.832685	0.971889
Musculoskeletal	Other osteochondropathies (HES)	T	378957	239	378862	0.931	-0.07103	0.340003	0.478	1.81	0.834531	0.97214
Genitourinary	Unspecified nephritic syndrome (HES)	T	378957</									

Operations and Procedures	Recession of muscle of eye	T	378957	270	378831	0.941	-0.06065	0.322482	0.5	1.77	0.85082	0.975807
Operations and Procedures	Diagnostic fibreoptic endoscopic examination of oesophagus	T	378957	1468	376733	0.976	-0.02403	0.135432	0.749	1.27	0.851948	0.975807
Operations and Procedures	Therapeutic fibreoptic gastrointestinal tract	T	378957	1244	377857	0.973	-0.02737	0.147545	0.729	1.3	0.852826	0.975807
Operations and Procedures	Other operations on other artery	T	378957	320	378781	0.944	-0.05786	0.294472	0.53	1.68	0.844239	0.975807
Operations and Procedures	Diagnostic transluminal operations on other artery	T	378957	397	378704	1.05	0.045669	0.255503	0.634	1.73	0.858141	0.975807
Operations and Procedures	Total excision of kidney	T	378957	1063	378038	0.97	-0.03092	0.159595	0.709	1.33	0.846358	0.975807
Operations and Procedures	Diagnostic endoscopic examination of ureter	T	378957	1627	377474	0.977	-0.0237	0.128852	0.759	1.26	0.85409	0.975807
Operations and Procedures	Therapeutic endoscopic operations on pleura	T	378957	310	378791	1.06	0.053653	0.283639	0.605	1.84	0.849964	0.975807
Operations and Procedures	Complex reconstruction of forefoot	T	378957	800	378301	0.966	-0.03471	0.183553	0.674	1.38	0.850015	0.975807
Operations and Procedures	External resuscitation	T	378957	3496	375605	1.02	0.016051	0.086209	0.858	1.2	0.852297	0.975807
Operations and Procedures	Cytology of organ NOC	T	378957	2554	376547	0.981	-0.01926	0.102928	0.802	1.2	0.851543	0.975807
Mental health	Ever unenthusiastic disinterested for a whole week	T	121342	44857	76548	0.994	-0.00575	0.030485	0.937	1.06	0.85034	0.975807
Medication	Zinc	T	377706	15460	362390	0.993	-0.0075	0.042171	0.914	1.08	0.858865	0.975807
Metabolic	Disorder or pituitary gland (HES and self-reported)	T	378957	409	378692	1.05	0.047435	0.2477946	0.645	1.7	0.848283	0.975807
Digestive system	Duodenal ulcer (HES and self-reported)	T	378957	4066	375035	1.02	0.015891	0.081068	0.867	1.19	0.844597	0.975807
Immuno-inflammation	Lichen sclerosis (HES and self-reported)	T	378957	542	378559	0.96	-0.04109	0.222918	0.62	1.49	0.853745	0.975807
Infectious disease	Rubella german measles (HES and self-reported)	T	378957	452	378649	0.957	-0.0405	0.240798	0.597	1.53	0.854847	0.975807
Cardiovascular	Cardiac index during PWA	T	7999	NA	NA	-0.01144	0.059948	-0.12894	0.106056	0.848633	0.975807	
Haematology	Vitamin B12 deficiency anaemia (HES)	T	378957	809	378292	1.03	0.031107	0.170847	0.728	1.46	0.861308	0.977339
Haematology	Other coagulation defects (HES)	T	378957	874	378227	1.03	0.029809	0.170477	0.738	1.44	0.861193	0.977339
Summary	Other and unspecified disorders of the circulatory system (HES)	T	378957	4939	374162	0.987	-0.01278	0.073699	0.855	1.14	0.862279	0.977543
Cardiovascular	Varicose ulcer (HES and self-reported)	T	378957	232	378869	0.943	-0.05901	0.340233	0.484	1.84	0.862299	0.977543
Symptoms	Nausea and vomiting (HES)	T	378957	10633	368468	0.991	-0.00869	0.050798	0.897	1.1	0.86419	0.979226
Summary	Visual disturbances and blindness (HES)	T	378957	3428	375673	1.01	0.014786	0.087342	0.855	1.2	0.865573	0.97927
Operations and Procedures	Other urological surgery (self-reported)	T	378957	990	378111	0.972	-0.02814	0.16572	0.703	1.35	0.865187	0.979527
Operations and Procedures	Laparoscopy (self-reported)	T	378957	6734	372367	0.989	-0.01074	0.063657	0.873	1.12	0.865959	0.979527
Operations and Procedures	Delivery of chemotherapy for neoplasm	T	378957	7579	371522	1.01	0.009917	0.05899	0.9	1.13	0.866489	0.979527
Cardiovascular	LV ejection fraction	T	3764	NA	NA	0.015104	0.089733	-0.16077	0.190979	0.866334	0.979527	
Immuno-inflammation	Dermatitis due to substances taken internally (HES)	T	378957	436	378665	1.04	0.041504	0.240942	0.649	1.67	0.867642	0.979911
Operations and Procedures	Other operations on heart	T	378957	733	378368	1.03	0.031165	0.186697	0.716	1.49	0.867427	0.979911
Cardiovascular	Diseases of capillaries (HES)	T	378957	604	378497	0.965	-0.03516	0.212846	0.636	1.47	0.868789	0.980746
Medication	Antipsoretics for topical use	T	378957	1197	377904	1.02	0.023783	0.14764	0.767	1.37	0.872026	0.981755
Operations and Procedures	Total prosthetic knee joint not using cement	T	378957	695	378406	1.03	0.030811	0.190054	0.711	1.5	0.871215	0.981755
Eye	Ever had eye surgery	T	84638	6217	78456	0.989	-0.01087	0.06688	0.868	1.13	0.870906	0.981755
Mental health	Manic bipolar disorder manic depression (HES and self-reported)	T	378957	1595	375706	1.02	0.020584	0.127911	0.794	1.31	0.871218	0.981755
Musculoskeletal	Fracture clavicle collar bone (HES and self-reported)	T	378957	1092	378009	0.975	-0.0255	0.157712	0.716	1.33	0.871549	0.981755
Eye	LogMAR final left	T	83932	NA	NA	-0.00281	0.017453	-0.03702	0.031394	0.8719	0.981755	
Cardiovascular	Cerebral aneurysm (HES and self-reported)	T	378957	545	378556	1.04	0.034781	0.217897	0.676	1.59	0.873179	0.982479
Musculoskeletal	Spontaneous rupture of synovium and tendon (HES)	T	378957	488	378613	0.964	-0.03704	0.234263	0.609	1.53	0.874382	0.983374
Medication	Other mineral supplements	T	378957	878	378223	0.973	-0.02737	0.175286	0.69	1.37	0.875922	0.984442
Musculoskeletal	Rheumatoid arthritis (HES and self-reported)	T	378957	6232	372869	0.99	-0.01026	0.06586	0.87	1.13	0.876149	0.984442
Cardiovascular	Other arterial surgery revascularisation procedures (self-reported)	T	378957	268	378833	0.952	-0.0496	0.32252	0.506	1.79	0.877783	0.9849
Operations and Procedures	Opening of skin	T	378957	3649	375452	0.987	-0.01327	0.086046	0.834	1.17	0.877462	0.9849
Cardiovascular	Cardiomyopathy (HES and self-reported)	T	378957	1272	377829	0.978	-0.0227	0.144659	0.737	1.3	0.876558	0.9849
Genitourinary	Cystitis (HES)	T	378957	2647	376454	0.985	-0.01518	0.100966	0.808	1.2	0.880504	0.985821
Gynaecology and Obstetrics	Maternal care for known or suspected malpresentation of fetus (HES)	T	378957	990	378111	0.976	-0.02477	0.164038	0.707	1.35	0.879966	0.985821
Operations and Procedures	Other operations on nail	T	378957	396	378705	1.04	0.03825	0.255439	0.63	1.71	0.880967	0.985821
Neurosciences	Chronicdegenerative neurological problem (HES and self-reported)	T	378957	4087	375014	1.01	0.012176	0.08	0.865	1.18	0.879033	0.985821
Musculoskeletal	Fracture skull head (HES and self-reported)	T	378957	2136	376965	0.983	-0.01702	0.113026	0.788	1.23	0.880287	0.985821
Respiratory	FEV1 FVC ratio ever smoked only strict	T	136671	NA	NA	-0.00208	0.013909	-0.02934	0.02518	0.88106	0.985821	
Operations and Procedures	Extrication of lesion of meninges of brain	T	378957	289	378812	0.955	-0.04581	0.07654	0.523	1.75	0.881623	0.985993
Operations and Procedures	Therapeutic endoscopic operations on ovary	T	378957	717	378384	0.972	-0.02864	0.193502	0.665	1.42	0.88189	0.986094
Gynaecology and Obstetrics	Abnormal smear cervix (HES and self-reported)	T	378957	1903	371798	1.02	0.017191	0.11634	0.81	1.28	0.882532	0.986094
Medication	Bile therapy	T	378957	233	378862	0.954	-0.04688	0.040017	0.49	1.86	0.880939	0.98634
Medication	Other agents acting on the renin angiotensin system	T	378957	16224	362877	0.994	-0.00561	0.041561	0.917	1.08	0.892561	0.98634
Medication	Antiseptics and disinfectants	T	378957	239	378862	0.954	-0.04688	0.040017	0.49	1.86	0.89039	0.98634
Summary	Episodic and paroxysmal disorders (HES)	T	378957	12991	366110	0.994	-0.00651	0.045976	0.908	1.09	0.887481	0.98634
Summary	Disorders of eyelid lacrimal system and orbit (HES)	T	378957	8748	370353	0.993	-0.00752	0.055606	0.89	1.11	0.892389	0.98634
Summary	Other acute lower respiratory infections (HES)	T	378957	7023	372078	1.01	0.007501	0.061692	0.893	1.14	0.903225	0.98634
Summary	Infections of the skin and subcutaneous tissue (HES)	T	378957	9696	369405	0.993	-0.00725	0.053019	0.895	1.1	0.891307	0.98634
Metabolic	Disorders of porphyrin and bilirubin metabolism (HES)	T	378957	367	378734	0.967	-0.03314	0.227771	0.567	1.65	0.90331	0.98634
Neurosciences	Other degenerative diseases of nervous system (HES)	T	378957	567	378554	0.971	-0.02908	0.217776	0.634	1.49	0.893744	0.98634
ENT	Other disorders of ear (HES)	T	378957	566	378535	1.03	0.027551	0.213133	0.677	1.56	0.897148	0.98634
Cardiovascular	Subsequent myocardial infarction (HES)	T	378957	663	378438	1.03	0.025302	0.196975	0.697	1.51	0.897792	0.98634
Cardiovascular	Endocarditis valve unspecified (HES)	T	378957	363	378738	0.962	-0.03854	0.272856	0.564	1.64	0.887686	0.98634
Digestive system	Ulcerative colitis (HES)	T	378957	2940	376161	0.989	-0.01155	0.095533	0.82	1.19	0.903776	0.98634
Musculoskeletal	Postprocedural musculoskeletal disorders (HES)	T	378957	412	378689	1.03	0.030481	0.24793	0.634	1.68	0.902153	0.98634
Gynaecology and Obstetrics	Obstructed labour malpresentation of fetus (HES)	T	378957	382	378719	0.963	-0.03761	0.26512	0.573	1.62	0.887199	0.98634
Symptoms	Other skin changes (HES)	T	378957	565	378536	1.03	0.025914	0.213143	0.676	1.56	0.903232	0.98634
Symptoms	Abnormal findings in specimens from female genital organs (HES)	T	378957	1312	377789	1.02	0.019136	0.139568	0.775	1.34	0.890946	0.98634
Medication	Sulfonamides and trimethoprim	T	378957	595	378506	0.971	-0.02927	0.122914	0.64	1.47	0.890641	0.98634
Medication	Hormone antagonists and related agents	T	378957	2999	376102	1.01	0.01291	0.093154	0.844	1.22	0.889776	0.98634
Medication	Antigout preparations	T	378957	4574	374527	0.989	-0.01081	0.077135	0.85	1.15	0.885523	0.98634
Medication	Chapter p Chapter X Diseases of the respiratory system BIN (HES)	T	378957	9049	370052	0.993	-0.00569	0.054877	0.892	1.11	0.897672	0.98634
Operations and Procedures	Umbilical hernia repair (self-reported)	T	378957	3357	357544	0.988	-0.01256	0.089279	0.829	1.18	0.88811	0.98634
Operations and Procedures	Anal surgery (self-reported)	T	378957	2357	357644	1.01	0.013654	0.105125	0.825	1.25	0.896657	0.98634
Operations and Procedures	Laparotomy nos (self-reported)	T	378957	2106	376995	1.01	0.013537	0.111117	0.815	1.26	0.903035	0.98634
Operations and Procedures	Inguinal hernia repair (self-reported)	T	378957	5531	375370	1.01	0.009895	0.068965	0.882	1.16	0.895891	

Musculoskeletal	Pyogenic arthritis (HES)	T	378957	335	378766	0.97	-0.03028	0.28314	0.557	1.69	0.914833	0.987823
Medication	Expectorants excl combinations with cough suppressants	T	378957	1117	377984	0.983	-0.01719	0.155941	0.724	1.33	0.912027	0.987823
Gynaecology and Obstetrics	Hysterectomy with oophorectomy (self-reported)	T	378957	668	378433	1.02	0.021349	0.196978	0.694	1.5	0.913691	0.987823
Gynaecology and Obstetrics	Intrauterine contraceptive device insertion removal (self-reported)	T	378957	624	378477	0.978	-0.0226	0.204647	0.655	1.46	0.912074	0.987823
Operations and Procedures	Excision of cervix uteri	T	378957	3167	375934	0.99	-0.01002	0.091673	0.827	1.18	0.912927	0.987823
Operations and Procedures	Reduction of fracture of other bone of face	T	378957	686	378415	1.02	0.021042	0.196672	0.695	1.5	0.914796	0.987823
Operations and Procedures	Other destruction of organ NOC	T	378957	2176	376925	0.988	-0.0187	0.110415	0.796	1.23	0.914363	0.987823
Immuno-inflammation	Allergy or anaphylactic reaction to food (HES and self-reported)	T	378957	1833	377268	1.01	0.012876	0.11903	0.802	1.28	0.91388	0.987823
Gynaecology and Obstetrics	Female infertility (HES and self-reported)	T	378957	1328	377773	1.02	0.015452	0.140173	0.772	1.34	0.912225	0.987823
Cardiovascular	Hyper trophic cardiomyopathy hcm hcm (HES and self-reported)	T	378957	265	378836	1.04	0.034847	0.308225	0.566	1.89	0.909985	0.987823
Cardiovascular	P duration	T	8938	NA	NA	NA	0.006255	0.057058	-0.10558	0.118089	0.912705	0.987823
Gynaecology and Obstetrics	Multiple gestation (HES)	T	378957	258	378843	1.03	0.032816	0.309643	0.563	1.9	0.915599	0.987982
Summary	Benign neo (cancer register)	T	378957	784	378371	0.981	-0.01931	0.183531	0.685	1.41	0.916211	0.987982
Neurosciences	Pain all over the body	T	378087	5847	372384	0.993	-0.00717	0.067985	0.869	1.13	0.915994	0.987982
Symptoms	Rash and other nonspecific skin eruption (HES)	T	378957	1635	377466	0.987	-0.01333	0.12785	0.768	1.27	0.916948	0.988335
Operations and Procedures	Harvest of flap of skin and fascia	T	378957	546	378555	1.02	0.022555	0.217862	0.667	1.57	0.917542	0.988533
Respiratory	Status asthmaticus (HES)	T	378957	233	378868	0.966	-0.03442	0.340195	0.496	1.88	0.919402	0.988551
Gynaecology and Obstetrics	Coronary angiogram (self-reported)	T	378957	2517	376584	1.01	0.010367	0.10217	0.827	1.23	0.919179	0.988551
Cancer	Mal neo cervix uteri (cancer register)	T	378957	384	37817	0.973	-0.02715	0.263748	0.58	1.63	0.91802	0.988551
Gynaecology and Obstetrics	Cervical erosion (HES and self-reported)	T	378957	898	378203	0.983	-0.01723	0.170753	0.703	1.37	0.919611	0.988551
Neurosciences	Number of incorrect matches in round	T	93547	NA	NA	NA	0.00167	0.016368	-0.03041	0.033751	0.918729	0.988551
Medication	Antihypertensives and diuretics in combination	T	378957	1142	377959	1.01	0.014457	0.150846	0.755	1.36	0.923646	0.988791
Summary	Polyneuropathies and peripheral nervous system (HES)	T	378957	1669	377432	0.989	-0.01104	0.125976	0.773	1.27	0.930196	0.988791
Summary	Other disorders of ear (HES)	T	378957	4112	374989	0.992	-0.0079	0.080459	0.847	1.16	0.92179	0.988791
Summary	Chondropathies (HES)	T	378957	1094	378007	0.985	-0.01472	0.155856	0.726	1.34	0.924745	0.988791
ENT	Other disorders of external ear (HES)	T	378957	883	378218	0.985	-0.01504	0.172769	0.702	1.38	0.930643	0.988791
Immuno-inflammation	Pilonidal cyst (HES)	T	378957	452	378649	0.978	-0.0225	0.247574	0.602	1.59	0.927597	0.988791
Musculoskeletal	Osteoporosis with pathological fracture (HES)	T	378957	834	378267	1.02	0.016587	0.17546	0.721	1.43	0.924686	0.988791
Genitourinary	Obstructive and reflux uropathy (HES)	T	378957	2412	376689	0.991	-0.00933	0.105106	0.806	1.22	0.929301	0.988791
Gynaecology and Obstetrics	Excessive vomiting in pregnancy (HES)	T	378957	202	378899	0.965	-0.03521	0.362019	0.475	1.96	0.925253	0.988791
Operations and Procedures	Testicular scrotal operation (self-reported)	T	378957	2430	376671	0.99	-0.0104	0.10602	0.804	1.22	0.921888	0.988791
Cancer	Follicular (cancer register)	T	378957	389	378712	1.02	0.024253	0.255577	0.621	1.69	0.924399	0.988791
Cancer	Carc in situ of breast (cancer register)	T	378957	1900	377201	1.01	0.010787	0.11699	0.804	1.27	0.926539	0.988791
Operations and Procedures	Diagnostic retrograde exam pancreatic duct	T	378957	208	378893	0.969	-0.03109	0.360809	0.478	1.97	0.913127	0.988791
Operations and Procedures	Diagnostic imaging of heart	T	378957	1244	377857	0.987	-0.01315	0.144707	0.743	1.31	0.927608	0.988791
Operations and Procedures	Diagnostic imaging of hepatobiliary system	T	378957	861	378240	0.984	-0.01593	0.175274	0.698	1.39	0.927598	0.988791
Operations and Procedures	Skeletal traction of bone	T	378957	210	378891	0.967	-0.03379	0.360703	0.477	1.96	0.925364	0.988791
Operations and Procedures	Other external fixation of bone	T	378957	667	378434	0.983	-0.01747	0.200302	0.664	1.46	0.930491	0.988791
Operations and Procedures	Approach to spine through back	T	378957	309	378792	1.03	0.02402	0.283615	0.588	1.79	0.928632	0.988791
Medication	Vitamin E	T	376892	11056	365980	1	0.004685	0.049357	0.912	1.11	0.924371	0.988791
ENT	Otosclerosis (HES and self-reported)	T	378957	416	378685	1.02	0.023396	0.247859	0.63	1.66	0.924780	0.988791
Infectious disease	Malaria (HES and self-reported)	T	378957	480	378621	0.979	-0.02129	0.234334	0.618	1.55	0.927618	0.988791
Digestive system	Malabsorption/celiac disease (HES and self-reported)	T	378957	2523	376578	0.991	-0.00931	0.102448	0.81	1.21	0.927619	0.988791
Infectious disease	Shingles (HES and self-reported)	T	378957	734	378367	0.983	-0.017	0.189762	0.678	1.43	0.928597	0.988791
Digestive system	Bowel intestinal obstruction (HES and self-reported)	T	378957	3937	375164	0.993	-0.0071	0.082213	0.845	1.17	0.931205	0.988791
Neurosciences	Benign neurooma (HES and self-reported)	T	378957	590	378511	1.02	0.019567	0.208652	0.677	1.53	0.925285	0.988791
Musculoskeletal	Fracture head neck (HES and self-reported)	T	378957	2134	376967	1.01	0.00965	0.111732	0.811	1.26	0.928937	0.988791
Musculoskeletal	OA under age 50	T	326966	14899	312194	1	0.003707	0.042807	0.923	1.09	0.930991	0.988791
Cardiovascular	Cardiac index	T	3764	NA	NA	NA	0.00846	0.089808	-0.16756	0.184485	0.924949	0.988791
Eye	Other retinal disorders (HES)	T	378957	3106	375995	0.992	-0.00777	0.091915	0.829	1.19	0.932615	0.988906
Eye	Current eye infection	T	85144	898	84281	0.986	-0.01442	0.171101	0.705	1.38	0.932821	0.988906
Eye	Blepharitis eyelid infection (HES and self-reported)	T	378957	653	378448	0.983	-0.01692	0.200416	0.664	1.46	0.932730	0.988906
Summary	Atrrophic affecting central nervous system (HES)	T	378957	368	378733	1.02	0.022086	0.263882	0.609	1.71	0.933299	0.989141
Eye	Glaucoma surgery trabeculectomy (self-reported)	T	378957	535	378566	1.02	0.01795	0.218035	0.664	1.56	0.934953	0.989625
Other	Chest pain or discomfort when walking uphill or hurrying	T	47239	12507	34751	0.996	-0.00449	0.055227	0.893	1.11	0.935145	0.989625
Operations and Procedures	Extrication of lesion of external ear	T	378957	1684	378177	0.991	-0.01011	0.125176	0.775	1.27	0.935616	0.989625
Operations and Procedures	Operations on aneurysm of cerebral artery	T	378957	201	378900	1.03	0.029802	0.361012	0.508	2.09	0.934209	0.989625
Operations and Procedures	Other autograft of bone	T	378957	1078	378023	0.987	-0.0127	0.157661	0.725	1.34	0.93581	0.989625
Genitourinary	Undescended testicle (HES and self-reported)	T	378957	210	378891	0.972	-0.02877	0.360858	0.479	1.97	0.936455	0.989873
Digestive system	Gingivitis and periodontal diseases (HES)	T	378957	766	378335	0.986	-0.0144	0.186536	0.684	1.42	0.93845	0.991547
Medication	Angiotensin II antagonists plain	T	378957	16106	362995	0.997	-0.00277	0.041485	0.919	1.08	0.946694	0.991558
Summary	Inflammatory diseases of the central nervous system (HES)	T	378957	536	378655	0.985	-0.01555	0.222849	0.636	1.52	0.944364	0.991958
Summary	HESCH Diseases of the respiratory system BIN (HES)	T	378957	55412	323689	1	0.001763	0.023668	0.956	1.05	0.940612	0.991958
Infectious disease	Diarrhoea presumed infectious (HES)	T	378957	5076	374025	0.995	-0.00404	0.072517	0.863	1.15	0.947254	0.991958
Metabolic	Postprocedural endocrine and metabolic disorders (HES)	T	378957	1206	377895	0.99	-0.00959	0.147684	0.742	1.32	0.948205	0.991958
Respiratory	Respiratory failure (HES)	T	378957	1845	377256	0.992	-0.00837	0.119927	0.784	1.25	0.94439	0.991958
Symptoms	Abdominal and pelvic pain (HES)	T	378957	28298	350803	1	0.002318	0.031773	0.942	1.07	0.941855	0.991958
Medication	Direct acting antivirals	T	378957	823	378278	1.01	0.01333	0.177972	0.715	1.44	0.940290	0.991958
Operations and Procedures	Elbow surgery (self-reported)	T	378957	2248	376853	1.01	0.007196	0.107972	0.815	1.24	0.946863	0.991958
Operations and Procedures	Operations on unspecified organ	T	378957	2194	376405	1.01	0.005282	0.072716	0.872	1.16	0.942097	0.991958
Neurosciences	Peripheral neuropathy (HES and self-reported)	T	378957	2013	377088	1.01	0.007683	0.113824	0.806	1.26	0.946187	0.991958
Cardiovascular	Lymphoedema (HES and self-reported)	T	378957	527	378574	0.984	-0.01615	0.222971	0.636	1.52	0.942259	0.991958
Respiratory	Respiratory infection (HES and self-reported)	T	378957	9656	369495	0.996	-0.00378	0.053085	0.898	1.11	0.943265	0.991958
Operations and Procedures	Tennis elbow lateral epicondylitis (HES and self-reported)	T	378957	796	378305	1.01	0.012318	0.180717	0.71	1.44	0.945656	0.991958
Musculoskeletal	Housemaids knee prepatellar bursitis (HES and self-reported)	T	378957	300	378801	1.02	0.019566	0.294881	0.572	1.82	0.947096	0.991958
Infectious disease	Scarlet fever scarlatina (HES and self-reported)	T	378957	435	378666	1.02	0.016834	0.241013	0.634	1.63	0.944303	0.991958
Anthropometry	Total thigh muscle volume	T	378957	758	NA	NA	-0.01302	0.020669	-0.41026	0.384206	0.948758	0.991958
Biological assays	Eosinophil count	T	367067	NA	NA	NA	-0.000					

Eye	Corneal hysteresis right	T	81141	NA	NA	-0.00082	0.017724	-0.03556	0.03392	0.963124	0.994359		
Summary	Palpousquamous disorders (HES)	T	378957	2604	376497	0.996	-0.00428	0.10141	0.816	1.21	0.966351	0.994377	
Medication	Aminoglycoside antibiotics	T	378957	622	378479	1.01	0.008528	0.204404	0.676	1.51	0.966721	0.994377	
Medication	Antifungatives	T	378957	1041	378060	0.993	-0.00684	0.159626	0.726	1.36	0.965818	0.994377	
Eye	Evidil surgery (self-reported)	T	378957	269	378832	1.01	0.012972	0.308099	0.554	1.85	0.966416	0.994377	
Operations and Procedures	Excision of rectum	T	378957	2290	376811	1	0.004267	0.106882	0.814	1.24	0.968155	0.995427	
Summary	HESCH Diseases of the ear and mastoid process (HES)	T	378957	8809	370292	0.998	-0.00202	0.055265	0.896	1.11	0.97078	0.995576	
Respiratory	Other disorders of nose and nasal sinuses (HES)	T	378957	5991	373110	1	0.002467	0.067155	0.879	1.14	0.970692	0.995576	
Symptoms	Other general symptoms and signs (HES)	T	378957	358	378743	0.99	-0.01024	0.272887	0.58	1.69	0.970071	0.995576	
Operations and Procedures	Breath tests	T	378957	412	378689	0.99	-0.00967	0.255248	0.601	1.63	0.969793	0.995576	
Operations and Procedures	Harvest of bone	T	378957	1453	377648	1	0.004922	0.134314	0.772	1.31	0.970767	0.995576	
Gynaecology and Obstetrics	Cervical intraepithelial neoplasia cin precan (HES and self-reported)	T	378957	1670	377431	0.995	-0.00476	0.125368	0.778	1.27	0.969696	0.995576	
Symptoms	Other abnormal findings in urine (HES)	T	378957	297	378804	1.01	0.010076	0.294931	0.567	1.8	0.972747	0.996745	
ENT	Nasal polyp surgery nasal polypectomy (self-reported)	T	378957	1137	377964	1.01	0.005179	0.150877	0.748	1.35	0.972617	0.996745	
Operations and Procedures	Vasectomy (self-reported)	T	378957	9426	369675	1	0.001711	0.054668	0.9	1.12	0.97503	0.997565	
Operations and Procedures	Other diagnostic imaging of vascular system	T	378957	2957	376144	0.997	-0.00296	0.094059	0.829	1.2	0.974927	0.997565	
Operations and Procedures	Diaphyseal division of bone	T	378957	396	378705	0.992	-0.00809	0.255565	0.601	1.64	0.974749	0.997565	
Operations and Procedures	Other intravenous injection	T	378957	5047	374054	0.998	-0.00226	0.072731	0.865	1.15	0.975204	0.997565	
Gynaecology and Obstetrics	Maternal care for related to pregnancy (HES)	T	378957	1641	377460	1	0.003788	0.128065	0.781	1.29	0.976044	0.998104	
Symptoms	Gangrene (HES)	T	378957	510	378591	0.993	-0.00662	0.228402	0.635	1.55	0.976881	0.998104	
Operations and Procedures	Drainage through perineal region	T	378957	1052	378049	1	0.004607	0.159648	0.735	1.37	0.976978	0.998104	
Digestive and Metabolic	Hiatus hernia (HES and self-reported)	T	378957	27678	351423	1	0.000911	0.032146	0.94	1.07	0.977388	0.998104	
Operations and Procedures	Other excision of skin	T	378957	205	378896	1.01	0.009782	0.360872	0.498	2.05	0.978375	0.998689	
Medication	Intestinal antiinflammatory agents	T	378957	25513	353588	1	0.0072	0.033174	0.938	1.07	0.982676	0.999046	
Medication	I v solution additives	T	378957	936	378165	0.997	-0.00302	0.168112	0.717	1.39	0.985322	0.999046	
Medication	Cardiac glycosides	T	378957	1042	378059	0.998	-0.00194	0.158089	0.732	1.36	0.990194	0.999046	
Medication	Corticosteroids plain	T	378957	34978	344123	1	0.000432	0.02875	0.946	1.06	0.988015	0.999046	
Summary	Disorders of choroid and retina (HES)	T	378957	6755	372346	1	-0.0005	0.062572	0.884	1.13	0.993655	0.999046	
Summary	Diseases of appendix (HES)	T	378957	3245	375856	0.999	-0.00066	0.090279	0.837	1.19	0.994192	0.999046	
Summary	HESCH Congen malfor deform and chrom abnormalities (HES)	T	378957	4981	374120	0.999	-0.00076	0.073033	0.866	1.15	0.991672	0.999046	
Mental health	Bipolar affective disorder (HES)	T	378957	888	378213	0.998	-0.00175	0.172729	0.712	1.4	0.991899	0.999046	
Neurosciences	Other headache syndromes (HES)	T	378957	459	378642	0.996	-0.0044	0.240677	0.621	1.6	0.985423	0.999046	
Neurosciences	Other diseases of spinal cord (HES)	T	378957	528	378573	1.01	0.005799	0.222933	0.65	1.56	0.979248	0.999046	
Neurosciences	Other disorders of CNS (HES)	T	378957	223	378878	1.01	0.006038	0.340478	0.516	1.96	0.985852	0.999046	
Respiratory	Other diseases of upper respiratory tract (HES)	T	378957	650	378451	1	0.002444	0.020042	0.677	1.48	0.990269	0.999046	
Operations and Procedures	Incisional hernia repair (self-reported)	T	378957	1461	376740	0.997	-0.0026	0.134342	0.767	1.3	0.984569	0.999046	
Operations and Procedures	Shoulder surgery (self-reported)	T	378957	5679	373422	0.999	-0.0011	0.068317	0.874	1.14	0.987117	0.999046	
Gynaecology and Obstetrics	Pelvic floor surgery (self-reported)	T	378957	271	378830	1.01	0.007805	0.308189	0.551	1.84	0.979795	0.999046	
Operations and Procedures	Removal of malignant melanoma (self-reported)	T	378957	716	378385	0.998	-0.00161	0.189868	0.688	1.45	0.993229	0.999046	
Cancer	Mal neo thyroid gland (cancer register)	T	378957	431	378670	0.996	-0.00387	0.247711	0.613	1.62	0.987523	0.999046	
Cancer	Benign neoplasm of meninges (cancer register)	T	378957	350	378751	0.994	-0.00616	0.270333	0.582	1.7	0.982054	0.999046	
Operations and Procedures	Excision of parathyroid gland	T	378957	695	378406	0.996	-0.00433	0.193221	0.682	1.45	0.982123	0.999046	
Operations and Procedures	Drainage of middle ear	T	378957	1751	377350	0.998	-0.00221	0.123162	0.784	1.27	0.985709	0.999046	
Operations and Procedures	Operations on unspecified nasal sinus	T	378957	717	378384	1	0.00253	0.190343	0.687	1.46	0.990689	0.999046	
Operations and Procedures	Surgery on apex of tooth	T	378957	1147	377954	1	0.003271	0.152392	0.744	1.35	0.982877	0.999046	
Operations and Procedures	Extrication of lesion of tongue	T	378957	690	378411	0.996	-0.00385	0.196577	0.678	1.46	0.984389	0.999046	
Operations and Procedures	Other operations on scrotum	T	378957	203	378898	1.01	0.007423	0.361088	0.496	2.04	0.983599	0.999046	
Operations and Procedures	Biopsy of cervix uteri	T	378957	1749	377352	1	0.001411	0.122625	0.787	1.27	0.990822	0.999046	
Operations and Procedures	Other open operations on bone	T	378957	605	378496	1	0.00241	0.208544	0.666	1.51	0.991427	0.999046	
Operations and Procedures	Harvest of other tissue	T	378957	784	378317	1	0.004346	0.183525	0.701	1.44	0.981108	0.999046	
Medication	Vitamin A	T	376892	7193	369843	1	0.000422	0.060985	0.888	1.13	0.994844	0.999046	
Medication	Selenium	T	377070	9070	368780	1	0.000621	0.054299	0.9	1.11	0.990871	0.999046	
Cardiovascular	Subdural haemorrhagehaematomata (HES and self-reported)	T	378957	380	378721	0.997	-0.00258	0.263736	0.595	1.67	0.992195	0.999046	
Metabolic	Hypothyroidismmyxoedema (HES and self-reported)	T	378957	22541	356560	1	0.000279	0.035547	0.933	1.07	0.993744	0.999046	
Eye	Eye infection (HES and self-reported)	T	378957	2800	376301	1	0.001864	0.097243	0.828	1.21	0.984711	0.999046	
Immuno-inflammation	Allergyhypersensitivityanaphylaxis (HES and self-reported)	T	378957	3101	376000	0.998	-0.0015	0.09281	0.832	1.2	0.98709	0.999046	
Immuno-inflammation	Hayfeverallergic rhinitis (HES and self-reported)	T	378957	22257	356844	1	0.00032	0.035386	0.933	1.07	0.992811	0.999046	
Musculoskeletal	Burns (HES and self-reported)	T	378957	765	378336	1	0.001869	0.186544	0.695	1.44	0.992002	0.999046	
Immuno-inflammation	Chronic fatigue syndrome (HES and self-reported)	T	378957	1921	377180	0.997	-0.00273	0.11744	0.792	1.26	0.98146	0.999046	
Infectious disease	Infectious mononucleosis glandular fever Epstein (HES and self-reported)	T	378957	517	378584	0.996	-0.00366	0.223039	0.644	1.54	0.98691	0.999046	
Musculoskeletal	Fracture nose (HES and self-reported)	T	378957	1043	378058	0.997	-0.00259	0.159672	0.729	1.36	0.987038	0.999046	
Summary	Other maternal disorders predominantly related to pregnancy (HES)	T	378957	2789	376312	1	-0.00038	0.100212	0.821	1.22	0.996992	0.999181	
Summary	Complications predominantly related to the puerperium (HES)	T	378957	557	378544	1	0.000905	0.21503	0.657	1.53	0.996643	0.999181	
Immuno-inflammation	Seborrhoeic keratosis (HES)	T	378957	2813	376288	1	-0.00031	0.096898	0.827	1.21	0.997472	0.999181	
Genitourinary	Calculus of lower urinary tract (HES)	T	378957	726	378375	1	-0.00039	0.189963	0.689	1.45	0.998351	0.999181	
Family history	Parkinson's disease (family history - mother)	T	378957	354043	5725	348456	1	-0.0002	0.067791	0.875	1.14	0.997615	0.999181
Operations and Procedures	Other internal fixation of bone	T	378957	5999	373102	1	0.000225	0.066589	0.878	1.14	0.997307	0.999181	
Operations and Procedures	Diagnostic endoscopic examination of other joint	T	378957	560	378541	0.999	-0.00067	0.217764	0.652	1.53	0.997554	0.999181	
Operations and Procedures	Other methods of operation on organ NOC	T	378957	1830	377271	1	-0.00038	0.120615	0.789	1.27	0.997494	0.999181	
Musculoskeletal	BIN combinedfractures	T	378957	28020	351081	1	-7.67e-05	0.031812	0.939	1.06	0.998076	0.999181	
Musculoskeletal	Fracture pelvis (HES and self-reported)	T	378957	555	378546	1	0.0003	0.217799	0.653	1.53	0.998903	0.999318	
Summary	Demyelinating diseases of the central nervous system (HES)	T	378957	1406	377695	1	2.26e-05	0.136707	0.765	1.31	0.999868	0.999868	

Ordered by FDR. The category "Summary" indicates cases were anyone with admission for any code in the block. * Lung function measures described as "strict" only include individuals with passed-QC spirometry (see reference 16 in the main manuscript). Strict measures were not included in Figure 1.

Table S3. Phenome-wide association study results for SERPINA1 Z allele homozygosity in UK Biobank

Category	Phenotype	Effect allele	N	Cases	Controls	OR	Beta	SE	L95	U95	P	FDR
Respiratory	Alpha1 antitrypsin deficiency (HES and self-reported)	T	379101	223	378878	293	5.67848	0.260676	175	488	3.32E-105	7.90E-102
Metabolic	Other metabolic disorders (HES)	T	379101	309	378792	194	5.27007	0.262003	116	325	5.50E-90	6.55E-87
Respiratory	Emphysema (HES and self-reported)	T	379101	1662	377439	52.5	3.96133	0.240719	32.8	84.2	7.56E-61	6.00E-58
Respiratory	Emphysema (HES)	T	379101	1571	377530	52.5	3.96161	0.245029	32.5	84.9	8.49E-50	5.06E-56
Respiratory	Chronic obstructive airways disease (COPD) (HES and self-reported)	T	379101	8796	370303	13.3	2.59138	0.219958	8.67	20.5	4.87E-32	2.32E-29
Respiratory	Emphysemachronic bronchitis (HES and self-reported)	T	379101	6338	372763	13.9	2.62844	0.226642	8.88	21.6	4.25E-31	1.69E-28
Respiratory	COPDMappingStrict*	T	190073	16733	173340	13.2	2.57861	0.24978	8.08	21.5	5.52E-25	1.88E-22
Respiratory	COPDMappingLoose* primAndSec	T	244600	25872	218728	8.81	2.17549	0.221711	5.7	13.6	9.97E-23	2.97E-20
Respiratory	FEV1 FVC ratio ever smoked only	T	175269	NA	NA	NA	-1.089	0.132374	-3.36835	-0.849447	5.43E-17	1.44E-14
Respiratory	FEV1 FVC ratio ever smoked only strict	T	136716	NA	NA	NA	-1.15924	0.148963	-1.45121	-0.867273	7.14E-15	1.70E-12
Summary	Chronic lower respiratory diseases (HES)	T	379101	30351	348750	4.36	1.47441	0.190988	3	6.33	1.32E-14	2.85E-12
Respiratory	FEV1 FVC ratio strict	T	221665	NA	NA	NA	-0.836435	0.110405	-1.05408	-0.618787	4.98E-14	9.88E-12
Respiratory	FEV1 FVC ratio	T	286167	NA	NA	NA	-0.706768	0.098487	-0.899803	-0.513733	7.17E-13	1.31E-10
Respiratory	Other chronic obstructive pulmonary disease (HES)	T	379101	7608	371493	7.23	1.97863	0.276163	4.21	12.4	7.79E-13	1.33E-10
Medication	Other drugs for obstructive airway diseases inhalants	T	379101	29711	349390	3.6	1.27976	0.199137	2.43	5.31	1.31E-10	2.07E-08
Family history	Chronic bronchitis emphysema (family history - sibling)	T	301029	8228	29801	5.67	1.74342	0.272396	3.32	9.66	1.93E-10	2.87E-08
Biological assays	Haemoglobin concentration	T	367863	NA	NA	NA	0.518894	0.084205	0.353852	0.683936	7.17E-10	1.00E-07
Respiratory	FEV1 percent pred	T	285936	NA	NA	NA	-0.598907	0.098453	-0.792774	-0.40684	1.11E-09	1.47E-07
Respiratory	FEV1 percent pred strict	T	221665	NA	NA	NA	-0.651361	0.11101	-0.868941	-0.433781	4.42E-09	5.54E-07
Summary	HESCH Diseases of the respiratory system BIN (HES)	T	379101	55412	323689	2.85	1.04713	0.180357	2	4.06	6.40E-09	7.62E-07
Medication	Adrenergics inhalants	T	379101	26289	352812	3.35	1.2098	0.211356	2.22	5.07	1.04E-08	1.18E-06
Respiratory	Other respiratory problems (HES and self-reported)	T	379101	5684	373417	5.63	1.72865	0.31691	3.03	10.5	4.91E-08	5.31E-06
Biological assays	Haematocrit percentage	T	367863	NA	NA	NA	0.455851	0.084203	0.290814	0.620888	6.17E-08	6.39E-06
Respiratory	Bring up phlegm sputum mucus on most days	T	95696	8125	87571	5.99	1.78964	0.337325	3.09	11.6	1.12E-07	1.11E-05
Respiratory	FEV1 ever smoked only	T	175269	NA	NA	NA	-0.700005	0.132125	-0.95897	-0.44104	1.17E-07	1.11E-05
Other	Wheeze or whistling in the chest in last year	T	371979	77179	294800	2.49	0.913788	0.174916	1.77	3.51	1.75E-07	1.60E-05
Respiratory	Bronchiectasis (HES and self-reported)	T	379101	2109	376992	8.57	2.34808	0.421477	3.75	19.6	3.46E-07	3.05E-05
Respiratory	PEF maximumValue	T	286167	NA	NA	NA	-0.494363	0.08939	-0.687207	-0.301519	5.05E-07	4.29E-05
Medication	Decongestants and other nasal preparations for topical use	T	379101	33775	345326	2.75	1.0132	0.205968	1.84	4.12	8.69E-07	7.13E-05
Operations and Procedures	Diagnostic imaging of chest	T	379101	2157	376944	7.82	2.05652	0.420494	3.43	17.8	1.00E-06	7.97E-05
Respiratory	PEF maximumValue strict	T	221665	NA	NA	NA	-0.532893	0.110972	-0.750398	-0.315388	1.57E-06	0.000121
Respiratory	Cough on most days	T	95696	13048	82648	4.65	1.53701	0.321706	2.48	8.74	1.77E-06	0.000132
Respiratory	Bronchiectasis (HES)	T	379101	1708	377393	8.78	2.17191	0.459648	3.56	21.6	2.30E-06	0.000166
Medication	Corticosteroids plain	T	379101	34978	344123	2.64	0.970822	0.205862	1.76	3.95	2.41E-06	0.000169
Respiratory	Respiratory disorders in diseases classified elsewhere (HES)	T	379101	201	378900	28.2	3.33759	0.710781	6.9	115	3.25E-06	0.000221
Respiratory	Pleurisy (HES and self-reported)	T	379101	1687	377414	8.21	2.10541	0.456218	3.36	20.1	3.93E-06	0.000226
Haematology	Other diseases of blood and blood forming organs (HES)	T	379101	563	378538	14.8	2.69252	0.586526	4.68	46.6	4.42E-06	0.000277
Eye	Optic neuritis (HES and self-reported)	T	379101	206	378895	26.9	3.29319	0.576162	6.61	110	4.32E-06	0.000277
Respiratory	FEV1 maximumValue	T	286167	NA	NA	NA	-0.449168	0.098291	-0.641819	-0.256517	4.88E-06	0.000298
Respiratory	FEV1 ever smoked only strict	T	136716	NA	NA	NA	-0.663217	0.148727	-0.954722	-0.371712	8.22E-06	0.000489
Operations and Procedures	Ureteric surgery (self-reported)	T	379101	604	378497	13.4	2.59432	0.585543	4.25	42.2	9.36E-06	0.000544
Medication	Adrenergics for systemic use	T	379101	22332	356769	2.83	1.04028	0.236892	1.78	4.5	1.13E-06	0.000389
Anthropometry	Standing height	T	378247	NA	NA	NA	-0.469259	0.10836	-0.686498	-0.25202	3.20E-06	0.000127
Biological assays	Red blood cell erythrocyte count	T	367863	NA	NA	NA	0.344496	0.082736	0.182334	0.506658	3.13E-05	3.01E-04
Biological assays	Mean sphered cell volume	T	361769	NA	NA	NA	0.337383	0.08503	0.170725	0.504041	7.25E-05	0.003754
Digestive system	Pancreatitis (HES and self-reported)	T	379101	2304	376797	6.07	1.80395	0.456482	2.48	14.9	7.76E-06	0.003929
Digestive system	Pancreatic disease (HES and self-reported)	T	379101	2413	376688	5.79	1.75608	0.456633	2.37	14.2	0.00012	0.005891
Respiratory	Pneumonia (HES and self-reported)	T	379101	13446	376565	2.98	1.09042	0.283694	1.71	5.19	0.000121	0.005891
Summary	Other diseases of the respiratory system (HES)	T	379101	4856	374245	4.1	1.41056	0.309023	1.9	8.82	0.000308	0.013848
Cardiovascular	Other disorders of veins (HES)	T	379101	415	378686	13.2	2.58366	0.715184	3.26	53.8	0.000303	0.013848
Digestive system	Acute pancreatitis (HES)	T	379101	1763	377338	6.29	1.83819	0.508416	2.32	17	0.0003	0.013848
Haematology	Polycythaemia vera (HES and self-reported)	T	379101	393	378708	13.3	2.58713	0.716571	3.26	54.1	0.000306	0.013848
Biological assays	Platelet count	T	367861	NA	NA	NA	-0.295848	0.084168	-0.460453	-0.130515	0.000447	0.019709
Biological assays	Platelet crit	T	367858	NA	NA	NA	-0.290828	0.084815	-0.455782	-0.125874	0.000549	0.023766
Respiratory	Other respiratory disorders (HES)	T	379101	2907	376194	4.8	1.56886	0.457732	1.96	11.8	0.000609	0.025207
Respiratory	Respiratory failure (HES and self-reported)	T	379101	1951	377150	5.79	1.75557	0.511366	2.12	15.8	0.000597	0.025207
Respiratory	Spontaneous pneumothorax/recurrent pneumothorax (HES and self-reported)	T	379101	1034	378067	7.46	2.00949	0.586653	2.36	23.6	0.000614	0.025207
Haematology	Myeloproliferative disorder (HES and self-reported)	T	379101	455	378646	11.6	2.44788	0.716259	2.84	47.1	0.000632	0.025495
Medication	Intestinal antiinflammatory agents	T	379101	25513	353588	2.28	0.822325	0.241521	1.42	3.65	0.000662	0.026278
Respiratory	Asthma (HES and self-reported)	T	379101	48549	303552	1.96	0.671757	0.200967	1.32	2.9	0.00083	0.023939
Operations and Procedures	Excision of lesion of organ NOC	T	379101	2108	376993	5.35	1.66746	0.507981	1.98	14.5	0.000959	0.036254
Cardiovascular	Cerebral aneurysm (HES and self-reported)	T	379101	545	378556	10.6	2.35938	0.714364	2.61	42.9	0.000957	0.036254
Summary	Metabolic disorders (HES)	T	379101	39911	339190	2.07	0.729215	0.221517	1.34	3.2	0.000995	0.036633
Respiratory	GOLD tobac	T	18309	NA	NA	NA	0.989849	0.080019	0.400244	1.57945	0.001	0.036633
Operations and Procedures	High cost neurology drugs	T	379101	1209	377892	6.77	1.91178	0.584733	2.15	21.3	0.001077	0.038869
Medication	Calcium	T	379101	6050	373051	3.62	1.28717	0.394623	1.67	7.85	0.001017	0.03948
Respiratory	Pneumonia organism unspecified (HES)	T	379101	526	378575	10	2.30443	0.716816	2.46	40.8	0.001305	0.054041
Cancer	Large bowel cancer colorectal cancer (self-reported)	T	379101	521	378580	9.81	2.28345	0.731933	2.42	39.8	0.001381	0.04699
Cardiovascular	Congenital malformations of cardiac septa (HES)	T	379101	2188	376913	5.09	1.62658	0.510896	1.87	13.8	0.001454	0.048747
Cardiovascular	Mitral valve prolapse (HES and self-reported)	T	379101	545	378556	9.68	2.26977	0.714999	2.38	39.3	0.001501	0.049635
Medication	Antacids	T	379101	6182	372919	3.45	1.23713	0.392166	1.6	7.43	0.001607	0.052421
Other	Birth weight	T	215536	NA	NA	NA	-0.335143	0.108465	-0.547734	-0.122552	0.002002	0.064426
Immuno-inflammation	Chronic skin ulcers (HES and self-reported)	T	379101	1331	377770	6.08	1.80545	0.586385	1.93	19.2	0.002077	0.065949
Cardiovascular	High cholesterol (HES and self-reported)	T	379101	62396	316705	0.362	-0.10528	0.330803	0.188	0.697	0.002374	0.074361
Summary	Other diseases of pleura (HES)	T	379101	6040	373061	3.21	1.16713	0.391468	1.49	6.92	0.002869	0.085874
Respiratory	Influenza and pneumonia (HES)	T	379101	9013	370088	2.8	1.03013	0.34725	1.42	5.53	0.003012	0.090748
Operations and Procedures	Extrication of nail bed	T	379101	679	378422	8.29	2.11473	0.713772	2.05	33.6	0.003049	0.090748
Summary	Diseases of male genital organs (HES)	T	379101	17819	361282	2.39	0.873052	0.296203	1.34	4.28	0.003024	0.091474

NA	Pediatric asthma under16yo (self-reported)	T	350577	15307	335270	2.17	0.776859	0.30488	1.2	3.95	0.010832	0.228235
Cardiovascular	Subarachnoid haemorrhage (HES and self-reported)	T	379101	936	378165	6.06	0.80223	0.71331	1.5	24.5	0.011518	0.240567
Symptoms	Voice disturbances (HES)	T	379101	934	378167	6.03	1.79672	0.713908	1.49	24.4	0.011844	0.245231
Cardiovascular	Atrial fibrillation (HES and self-reported)	T	379101	2928	376173	3.62	1.28638	0.512621	1.33	9.89	0.012093	0.248225
Operations and Procedures	Release of fascia	T	379101	204	378897	12.3	2.51273	1.00666	1.72	88.7	0.012557	0.255536
Haematology	Acute posthaemorrhagic anaemia (HES)	T	379101	226	378875	12	2.48906	1.00674	1.68	86.7	0.013421	0.270815
NA	Subarachnoid haemorrhage	T	379101	982	378119	5.8	1.75793	0.713351	1.43	23.5	0.013727	0.274655
Medication	Blood glucose lowering drugs excl insulins	T	379101	49513	329582	0.426	-0.854162	0.35093	0.214	0.847	0.014933	0.28219
Summary	Diseases of liver (HES)	T	379101	4603	374498	3.04	1.11156	0.456502	1.24	7.44	0.014894	0.28219
Operations and Procedures	Incision of eyelid	T	379101	241	378860	11.6	2.45288	1.00664	1.62	83.5	0.014798	0.28219
Operations and Procedures	Diagnostic microendoscopic examination of larynx	T	379101	246	378855	11.7	2.4635	1.00757	1.63	84.6	0.014942	0.28219
Operations and Procedures	Diagnostic echocardiography	T	379101	8855	370246	2.45	0.898065	0.367569	1.19	5.05	0.014556	0.28219
Respiratory	Pneumothorax (HES and self-reported)	T	379101	906	378195	5.69	1.73951	0.714283	1.4	23.1	0.014878	0.28219
Biological assays	Reticulocyte percentage	T	361768	NA	NA	NA	-0.208663	0.085114	-0.375487	-0.041839	0.014224	0.28219
Operations and Procedures	Incision of sclera	T	379101	216	378885	11.6	2.45135	1.00848	1.61	83.8	0.015069	0.282507
Other	DIED	T	379101	10919	368182	2.34	0.849427	0.350112	1.18	4.64	0.01526	0.283852
Genitourinary	Hyperplasia of prostate (HES)	T	379101	10244	368857	2.44	0.891336	0.369212	1.18	5.03	0.015772	0.291104
Neurosciences	Back pain for 3 months vs no pain	T	341531	65312	276219	0.494	-0.704411	0.29296	0.278	0.878	0.016196	0.296643
Genitourinary	Prostate problem not cancer (HES and self-reported)	T	379101	11913	367188	2.33	0.847397	0.353098	1.17	4.66	0.01604	0.298079
Digestive system	Other diseases of pancreas (HES)	T	379101	1002	378099	5.44	1.66933	0.713639	1.34	22	0.017613	0.306861
Immuno-inflammation	Ulcer of lower limb (HES)	T	379101	989	378112	5.45	1.68496	0.715154	1.34	22.1	0.017785	0.306861
Family history	Chronic bronchitis emphysema (family history - mother)	T	357529	20553	336976	1.96	0.671889	0.282553	1.13	3.41	0.01741	0.306861
Operations and Procedures	Other operations on peripheral nerve	T	379101	2062	377039	4	1.38601	0.584192	1.27	12.6	0.017667	0.306861
Operations and Procedures	Secondary open reduction of fracture of bone	T	379101	1013	378088	5.49	1.70272	0.713669	1.36	22.2	0.017039	0.306861
Operations and Procedures	Harvest of random pattern flap of skin from limb	T	379101	233	378868	10.9	2.38973	1.0073	1.52	78.6	0.017672	0.306861
Eye	LogMAR final right	T	84003	NA	NA	NA	-0.400333	0.168893	-0.731363	-0.069303	0.017772	0.306861
Infectious disease	Bacterial agents as the cause of diseases (HES)	T	379101	7935	371166	2.51	0.92068	0.389321	1.17	5.39	0.018047	0.309136
Immuno-inflammation	Nail disorders (HES)	T	379101	1050	378051	5.33	1.67291	0.71216	1.32	21.6	0.018997	0.32079
NA	Adult only asthma over16yo (self-reported)	T	367188	31918	335270	1.79	0.583046	0.248518	1.1	2.92	0.018972	0.32079
Summary	HESCH Certain infectious and parasitic diseases BIN (HES)	T	379101	2674	352387	1.83	0.603365	0.259367	1.1	3.04	0.020003	0.330736
Operations and Procedures	Percutaneous examination of bile duct	T	379101	260	378841	10.4	2.34286	1.00659	1.45	74.9	0.019937	0.330736
Cardiovascular	Cholesterol lowering medication	T	376222	64923	311299	0.507	-0.67952	0.291517	0.286	0.897	0.019755	0.330736
Operations and Procedures	Plastic operations on cornea	T	379101	258	378843	10.3	2.33678	1.006	1.44	74.3	0.020184	0.331498
Neurosciences	Parkinson s disease (HES)	T	379101	1054	378047	5.25	1.65783	0.71687	1.29	21.4	0.020745	0.332122
Respiratory	Pleural effusion (HES)	T	379101	4725	374376	2.89	1.66222	0.458139	1.18	7.1	0.020419	0.332122
Cardiovascular	Varicose vein surgery (self-reported)	T	379101	15382	363719	2.08	0.732684	0.316353	1.12	3.87	0.020677	0.332122
Operations and Procedures	Extripation of scrotum	T	379101	239	378862	10.3	2.33475	1.00989	1.43	74.7	0.020784	0.332122
Operations and Procedures	Recession of muscle of eye	T	379101	270	378831	10.2	2.32123	1.0059	1.42	73.2	0.021021	0.333667
Medication	Lipid modifying agents combinations	T	379101	72923	306178	0.54	-0.616855	0.268589	0.319	0.914	0.021639	0.341205
Operations and Procedures	Other diagnostic tests	T	379101	994	378107	5.08	1.62578	0.710474	1.25	20.6	0.0228	0.357155
Summary	Symptoms and signs involving the skin and subcutaneous tissue (HES)	T	379101	6510	372591	2.56	0.941261	0.417373	1.13	5.81	0.021241	0.366279
Cardiovascular	Nonrheumatic mitral valve disorders (HES)	T	379101	2168	376933	3.75	1.32291	0.586669	1.19	11.9	0.021437	0.366279
Digestive system	Other diseases of jaws (HES)	T	379101	301	378800	9.7	2.27191	1.00577	1.35	69.6	0.023892	0.366279
ENT	Dental tooth surgery (self-reported)	T	379101	999	378102	4.99	1.60748	0.71365	1.23	20.2	0.024292	0.366279
Operations and Procedures	Operations on canthus	T	379101	1131	377970	5.02	1.61357	0.713849	1.24	20.3	0.023794	0.366279
Respiratory	Pleural effusion (HES and self-reported)	T	379101	4887	374214	2.81	1.03192	0.458172	1.14	6.89	0.020308	0.366279
Mental health	Mental and behavioural disorders due to use of alcohol (HES)	T	379101	4907	374194	2.81	1.03424	0.460887	1.14	6.94	0.024831	0.366955
Operations and Procedures	Excision of gall bladder	T	379101	12079	367022	2.18	0.77793	0.346656	1.1	4.29	0.024826	0.366955
Operations and Procedures	Revisonal decompression operations on lumbar spine	T	379101	287	378814	9.54	2.25594	1.00626	1.33	68.6	0.024967	0.366955
Musculoskeletal	Bursitis (HES and self-reported)	T	379101	2169	376932	3.71	1.31186	0.584149	1.18	11.7	0.024719	0.366955
Operations and Procedures	Harvest of other multiple tissue	T	379101	281	378820	9.47	2.24849	1.00681	1.32	68.2	0.025531	0.372233
Musculoskeletal	Scoliosis (HES and self-reported)	T	379101	1135	377966	4.93	1.5954	0.71419	1.21	20	0.025639	0.372233
Cardiovascular	Other venouslymphatic disease (HES and self-reported)	T	379101	1107	377994	4.9	1.58949	0.713202	1.21	19.8	0.025836	0.372816
Operations and Procedures	Removal of epididymal cyst (self-reported)	T	379101	269	378832	9.28	2.22828	1.00716	1.29	66.8	0.026937	0.38594
Biological assays	High light scatter reticulocyte count	T	361768	NA	NA	NA	-0.186124	0.085104	-0.354928	-0.02132	0.027061	0.38594
Respiratory	Pyothorax (HES)	T	379101	288	378813	9.01	2.19815	1.00651	1.25	64.8	0.028967	0.407326
Operations and Procedures	Anaesthetic without surgery	T	379101	299	378802	8.99	2.19586	1.00618	1.25	64.8	0.029083	0.407326
Summary	Diseases of arteries arterioles and capillaries (HES)	T	379101	1083	378018	4.83	1.57402	0.712897	1.19	19.5	0.027228	0.386205
Operations and Procedures	Liver surgery (self-reported)	T	379101	6751	372350	2.51	0.918419	0.421749	1.1	5.73	0.029433	0.409819
Operations and Procedures	Therapeutic endoscopic operations on pleura	T	379101	310	378791	8.8	2.17437	1.00652	1.22	63.3	0.030509	0.416105
Respiratory	Empyema (HES and self-reported)	T	379101	299	378802	8.73	2.16647	1.00641	1.21	62.7	0.031345	0.428925
Digestive system	Incisional hernia (HES and self-reported)	T	379101	307	378794	8.69	2.16257	1.00593	1.21	62.4	0.03157	0.429531
Metabolic	Disorders of lipoprotein metabolism and other lipidaemias (HES)	T	379101	32636	346465	0.374	-0.984815	0.45795	0.152	0.92	0.032039	0.435566
Operations and Procedures	Gallstones removed (self-reported)	T	379101	315	378768	8.61	1.51352	1.00743	1.2	62	0.032562	0.435566
Medical health	Postnatal depression (HES and self-reported)	T	379101	311	378790	8.68	2.16119	1.01061	1.2	62.9	0.032477	0.435566
Neurosciences	Parkinsons disease (HES and self-reported)	T	379101	1191	377910	4.61	1.52717	0.716688	1.13	18.8	0.0331	0.440285
Respiratory	Unspecified acute lower respiratory infection (HES)	T	379101	6878	372223	2.44	0.890133	0.418963	1.07	5.54	0.033619	0.440342
Operations and Procedures	External resuscitation	T	379101	3496	376505	2.98	1.09119	0.513711	1.09	8.15	0.033659	0.440342
Other	Alcohol dependency (HES and self-reported)	T	379101	5185	373916	2.67	0.980374	0.460919	1.08	6.58	0.033424	0.440342
Operations and Procedures	Examination of oesophagus	T	379101	1296	377805	4.5	1.50464	0.714182	1.11	18.3	0.035134	0.457129
Family history	Chronic bronchitis emphysema (family history)	T	379101	NA	NA	NA	-0.174729	0.083176	0.011703	0.337755	0.035667	0.461543
Medication	Antipsoritics for topical use	T	379101	1197	377904	4.42	1.48526	0.714433	1.09	17.9	0.037358	0.473287
Cancer	Skin cancer (self-reported)	T	379101	1189	377912	4.43	1.48877	0.714906	1.09	18	0.037294	0.473287
Cardiovascular	Leg claudication intermittent claudication (HES and self-reported)	T	379101	2468	376633	3.43	1.23195	0.590667	1.08	10.9	0.037006	0.473287
Summary	HESCH Endocrine nutritional and metabolic diseases BIN (HES)	T	379101	66768	312333	1.51	0.410243	0.20997	1.02	2.23	0.041228	0.500838
Operations and Procedures	Partial excision of liver	T	379101	334	378767	7.75	2.04763	1.00633	1.08	55.7	0.041877	0.503578
Metabolic	Thyroid problem not cancer (HES and self-reported)	T	379101	1199	377902	4.46	1.49572	0.712875	1.08	18.4	0.038262	0.479601
Digestive system	Peptic ulcer site unspecified (HES)	T	379101	370	378731	7.66	2.03622	1.00834	1.06	17.4	0.041857	0.503578
Operations and Procedures	Other excision of appendix	T	379101	1270	377831	4.21	1.437					

Symptoms	Ascites (HES)	T	379101	1446	377655	3.8	1.33473	0.713333	0.939	15.4	0.061329	0.637662
Digestive system	Liver/biliary/pancreas problem (HES and self-reported)	T	379101	4283	374818	2.59	0.951177	0.508218	0.956	7.01	0.061263	0.637662
Infectious disease	Zoster (HES)	T	379101	425	378676	6.55	1.87905	1.00584	0.912	47	0.061742	0.63916
Biological assays	Immature reticulocyte fraction	T	361768	NA	NA	-0.158043	0.084985	-0.324614	0.008528	0.062935	0.648694	
Operations and Procedures	Incision of capsule of lens	T	379101	1497	377604	3.75	1.32261	0.715894	0.923	15.3	0.064675	0.660909
Mental health	Ever unenthusiastic disinterested for a whole week	T	121405	44857	76548	0.583	-0.539354	0.291694	0.329	1.03	0.064452	0.660909
Medication	Corticosteroids combinations with antibiotics	T	379101	20857	358244	1.71	0.556403	0.291184	0.966	3.03	0.065454	0.666006
Operations and Procedures	Image controlled operations on abdominal cavity	T	379101	419	378682	6.34	1.84663	1.00527	0.884	45.5	0.066217	0.670905
Digestive system	Unspecified appendicitis (HES)	T	379101	412	378689	6.26	1.83336	1.00541	0.872	44.9	0.068192	0.682461
Medication	Hormone antagonists and related agents	T	379101	2999	376102	2.93	1.07612	0.589661	0.923	9.32	0.068004	0.682461
Medication	Vitamin B	T	377036	15815	361221	0.164	-1.80782	0.992391	0.0234	1.15	0.068504	0.682461
Infectious disease	Whooping cough pertussis (HES and self-reported)	T	379101	415	378686	6.25	1.83319	1.00581	0.871	44.9	0.068365	0.682461
Musculoskeletal	Soft tissue disorders related to use overuse and pressure (HES)	T	379101	1500	377601	3.63	1.28852	0.712902	0.897	14.7	0.070694	0.695564
Digestive system	Bile duct disease (HES and self-reported)	T	379101	13856	365245	1.87	0.625991	0.3463	0.949	3.69	0.070661	0.695564
Cardiovascular	Primary hypertension (270)	T	379101	416	378685	6.18	1.82191	1.00683	0.859	44.5	0.070366	0.695564
Family history	High blood pressure (family history - father)	T	343592	74698	268894	0.649	-0.431596	0.239398	0.406	1.04	0.071414	0.698221
Operations and Procedures	Diagnostic endoscopic examination of lower bowel	T	379101	29456	349645	0.44	-0.82044	0.455291	0.18	1.07	0.071552	0.698221
ENT	Nasal sinus disorder (HES and self-reported)	T	379101	11324	367777	1.93	0.656002	0.364601	0.943	3.94	0.071982	0.699548
Cardiovascular	Other aneurysm (HES)	T	379101	436	378665	6.09	1.80716	1.00664	0.847	43.8	0.072616	0.702843
Mental health	Overall health rating	T	377441	NA	NA	0.149492	0.083363	-0.0139	0.312884	0.072931	0.703031	
Musculoskeletal	Fractured broken bones in last 5 years	T	377028	36458	340570	1.54	0.430829	0.24213	0.959	2.47	0.074105	0.70316
Operations and Procedures	Other operations on sympathetic nerve	T	379101	470	378631	6.04	1.79767	1.00501	0.842	43.3	0.073663	0.70316
Operations and Procedures	Other operations on maxillary antrum	T	379101	2872	376229	2.85	1.04613	0.584105	0.906	8.94	0.073295	0.70316
Digestive system	Gall bladder disease (HES and self-reported)	T	379101	13958	365143	1.86	0.618528	0.346352	0.941	3.66	0.071426	0.70316
Summary	Disorders of sclera cornea iris and ciliary body (HES)	T	379101	1464	377637	3.56	1.27061	0.713108	0.881	14.4	0.074784	0.70526
Operations and Procedures	Removal of repair material from skin	T	379101	460	378641	5.99	1.78799	1.00503	0.835	42.9	0.074938	0.70526
Respiratory	Other disorders of nose and nasal sinuses (HES)	T	379101	5991	373110	2.25	0.81111	0.456263	0.92	5.5	0.075446	0.707259
Neurosciences	Hip pain for 3 months vs no pain	T	362682	32691	329991	0.478	-0.737719	0.418358	0.211	1.09	0.077839	0.726799
Operations and Procedures	Other operations on internal nose	T	379101	2843	376258	2.8	1.03058	0.585191	0.889	8.82	0.078221	0.727517
Summary	Bacterial viral and other infectious agents (HES)	T	379101	11829	367272	1.9	0.642204	0.365104	0.929	3.89	0.078584	0.727522
Summary	Noninflammatory disorders of female genital tract (HES)	T	379101	43955	335146	0.534	-0.626863	0.357043	0.265	1.08	0.079130	0.727522
Musculoskeletal	Other deforming dorsopathies (HES)	T	379101	1558	377543	3.5	1.25329	0.713777	0.864	14.2	0.079112	0.727522
Eye	Retinal vascular occlusions (HES)	T	379101	466	378635	5.84	1.76482	1.00688	0.812	42	0.079643	0.727528
Operations and Procedures	Removal of other substance from skin	T	379101	434	378667	5.82	1.76109	1.00511	0.811	41.7	0.079795	0.727528
Summary	Had major operations	T	173367	111364	62003	1.6	0.469253	0.268941	0.944	2.71	0.081017	0.736262
Gynaecology and Obstetrics	Uterine problem (HES and self-reported)	T	379101	29689	349124	0.447	-0.805553	0.463947	0.18	1.11	0.08251	0.746984
Digestive system	Other diseases of gallbladder (HES)	T	379101	1619	377482	3.43	1.23335	0.713633	0.848	13.9	0.083822	0.755986
Operations and Procedures	Ventilation support	T	379101	2964	376137	2.75	1.01216	0.586358	0.872	8.68	0.084316	0.75757
Operations and Procedures	Total prosthetic replacement of hip joint using cement	T	379101	4901	374200	2.42	0.885797	0.513827	0.886	6.64	0.084723	0.758362
Haematology	Diseases of spleen (HES)	T	379101	463	378638	5.63	1.72816	1.00506	0.785	40.4	0.085529	0.762717
Genitourinary	Renal failure not requiring dialysis (HES and self-reported)	T	379101	483	378618	5.62	1.72568	1.00557	0.783	40.3	0.08614	0.765297
Digestive system	Other diseases of anus and rectum (HES)	T	379101	21218	357883	0.368	-0.999652	0.583888	0.117	1.16	0.086881	0.768643
Respiratory	FEV1 FVC ratio never smoked only	T	109851	NA	NA	-0.25205	0.147349	-0.540854	0.036754	0.087162	0.768643	
Summary	HESCH Diseases of the blood forming organ immune mech BIN (HES)	T	379101	22345	356756	1.64	0.497231	0.291836	0.928	2.91	0.088418	0.771145
Operations and Procedures	Operations on turbinate of nose	T	379101	2985	376116	2.71	0.96564	0.584849	0.862	8.52	0.088203	0.771145
Operations and Procedures	Primary fusion of other joint of spine	T	379101	465	378636	5.55	1.71407	1.00521	0.774	39.8	0.088150	0.771145
Symptoms	Rash and other nonspecific skin eruption (HES)	T	379101	1635	377466	3.35	1.20988	0.712829	0.829	13.6	0.088642	0.771305
Operations and Procedures	Diagnostic lower respiratory tract	T	379101	4809	374292	2.38	0.865439	0.509684	0.875	6.45	0.089509	0.771305
Operations and Procedures	Other diagnostic imaging of vascular system	T	379101	2957	376144	2.7	0.994041	0.585014	0.858	8.51	0.089286	0.771305
Biological assays	Microalbumin in urine	T	114256	NA	NA	-0.235276	0.138657	-0.507044	0.036492	0.089732	0.771305	
Respiratory	Nasal polyp (HES)	T	379101	2942	376159	2.69	0.990506	0.585259	0.855	8.48	0.090565	0.773486
Biological assays	White blood cell leukocyte count	T	367858	NA	NA	-0.142424	0.084172	-0.307402	0.022554	0.090635	0.773486	
Other	Getting up in morning	T	378063	NA	NA	-0.14059	0.083349	-0.303954	0.022774	0.09165	0.773486	
Neurosciences	Hip pain	T	378231	48240	329991	0.59	-0.527772	0.314409	0.319	1.09	0.093227	0.782628
Genitourinary	Enlarged prostate (HES and self-reported)	T	379101	13062	366039	1.86	0.620536	0.369825	0.901	3.84	0.093361	0.782828
Cardiovascular	Leg artery angioplasty stent (self-reported)	T	379101	443	378658	5.43	1.69178	1.01059	0.749	39.4	0.094192	0.783862
Operations and Procedures	Other operations on retina	T	379101	478	378603	5.37	1.67998	1.00633	0.746	38.6	0.095027	0.783862
Medication	Glucosamine	T	377850	73561	304289	0.665	-0.407606	0.243785	0.413	1.07	0.094526	0.783862
Cardiovascular	Angina (HES and self-reported)	T	379101	20423	358678	0.374	-0.984646	0.588132	0.118	1.18	0.094093	0.783862
Eye	Iritis (HES and self-reported)	T	379101	471	378622	5.35	1.67786	1.00487	0.747	38.4	0.094972	0.783862
Digestive system	Other diseases of liver (HES)	T	379101	3122	375979	2.64	0.970318	0.584492	0.839	8.3	0.096894	0.797605
Operations and Procedures	Other operations on fallopian tube	T	379101	950	378151	5.45	1.6949	1.02089	0.736	40.3	0.096871	0.797605
Biological assays	Reticulocyte count	T	361768	NA	NA	-0.14122	0.085132	-0.308078	0.025638	0.091746	0.797605	
Symptoms	Other symptoms and signs involving the digestive system and abdomen (HES)	T	379101	13806	365295	0.193	-0.164394	0.992317	0.0276	1.35	0.09587	0.794868
Symptoms	Nausea and vomiting (HES)	T	379101	10633	368468	1.9	0.640931	0.388402	0.887	4.06	0.098907	0.80123
Medication	Antinflammatory and antirheumatic products non steroids	T	379101	86308	329729	0.69	-0.370769	0.224347	0.445	1.07	0.098401	0.80123
Neurosciences	Peripheral nerve disorder (HES and self-reported)	T	379101	16736	362365	0.309	-1.17361	0.711969	0.0766	1.25	0.09927	0.80123
Digestive system	Anal problem (HES and self-reported)	T	379101	23889	355212	0.434	-0.835548	0.506408	0.161	1.17	0.098954	0.80123
Neurosciences	Knee pain for 3 months vs no pain	T	354701	62522	291719	0.644	-0.439752	0.267054	0.382	1.09	0.096624	0.801367
Summary	Symptoms nervous and musculoskeletal systems (HES)	T	379101	4763	374338	2.29	0.830502	0.508365	0.847	6.21	0.102328	0.802491
Cardiovascular	Angina pectoris (HES)	T	379101	3304	375797	2.56	0.941595	0.586937	0.812	8.1	0.108652	0.828805
Musculoskeletal	Other necrotizing vasculopathies (HES)	T	379101	542	378559	5.19	1.64674	1.00651	0.722	37.3	0.101823	0.82491
Cancer	Rodent ulcer (self-reported)	T	379101	540	378561	5.19	1.64728	1.00617	0.723	37.3	0.101593	0.82491
Operations and Procedures	Blood withdrawal	T	379101	3031	376070	2.6	0.956402	0.584281	0.828	8.18	0.101654	0.82491
Metabolic	Thyroid goitre (HES and self-reported)	T	379101	1793	377308	3.22	0.71623	0.714835	0.793	13.1	0.101911	0.82491
Operations and Procedures	Rectal sigmoid resection (self-reported)	T	379101	534	378567	5.15	1.63941	1.0054	0.718	37	0.102974	0.808372
Symptoms	Gangrene (HES)	T	379101	510	378591	5.14	1.63675	1.00567	0.716	36.9	0.103626	0.806319
Eye	Hordeolum and chalazion (HES)	T	379101	1665	377436	3.18	1.15741	0.712734	0.787	12.9	0.104397	0.807043
Medication	Drugs affecting bone structure and mineralization	T	3									

Operations and Procedures	Prosthetic replacement of other bone using cement	T	379101	559	378542	4.63	1.53302	1.00617	0.645	33.3	0.127603	0.88619	
Immuno-inflammation	Cellulitis (HES and self-reported)	T	379101	6668	372433	2	0.69377	0.456408	0.818	4.89	0.128766	0.891255	
Eye	Other disorders of cornea (HES)	T	379101	582	378519	4.59	1.52448	1.00507	0.641	32.9	0.129319	0.892056	
Cardiovascular	Diastolic blood pressure mean	T	357246	NA	NA	NA	0.129927	0.085729	-0.038101	0.297955	0.129631	0.892056	
Summary	HESCH Congen malfor deform and chrom abnormalities (HES)	T	379101	4981	374120	2.15	0.765167	0.507369	0.795	5.81	0.131527	0.89221	
Operations and Procedures	Endoscopic ultrasound examination of pancreas	T	379101	605	378496	4.57	1.51947	1.00507	0.637	32.8	0.130584	0.89221	
Operations and Procedures	Excision of nail	T	379101	608	378493	4.56	1.51693	1.00466	0.636	32.7	0.131069	0.89221	
Operations and Procedures	Injection of other substance into organ NOC	T	379101	1838	377263	2.93	1.07611	0.713388	0.725	11.9	0.131436	0.89221	
Immuno-inflammation	Allergy or anaphylactic reaction to food (HES and self-reported)	T	379101	1833	377268	2.93	1.0757	0.713014	0.725	11.9	0.131383	0.89221	
Medication	Iron	T	377850	11432	366418	0.26	-1.48783	0.991979	0.0323	1.58	0.13365	0.901475	
Cardiovascular	Mitral valve disease (HES and self-reported)	T	379101	3385	375716	2.41	0.880128	0.586735	0.763	7.62	0.133603	0.901475	
Operations and Procedures	Urethral catheterisation of bladder	T	379101	10309	368792	1.79	0.584905	0.39091	0.834	3.86	0.134584	0.905217	
Infectious disease	Other septicaemia (HES)	T	379101	3387	375714	2.39	0.872661	0.585169	0.76	7.54	0.135883	0.90991	
Mental health	Probable recurrent major depression moderate	T	58838	11697	47141	0.403	-0.09092	0.610408	0.122	1.33	0.136047	0.90991	
Other	Snoring	T	357253	131409	212344	1.3	0.264232	0.178399	0.918	1.85	0.138572	0.913961	
Operations and Procedures	Lung removal pneumonectomy lobectomy (self-reported)	T	379101	614	378487	4.44	1.49109	1.00585	0.619	31.9	0.138228	0.913961	
Operations and Procedures	Diagnostic endoscopic examination of ileum	T	379101	590	378511	4.45	1.49319	1.00462	0.621	31.9	0.137194	0.913961	
Eye	Retinal arteryven occlusion (HES and self-reported)	T	379101	614	378487	4.45	1.49307	1.00363	0.619	32	0.137881	0.913961	
Cardiovascular	Pericardial effusion (HES and self-reported)	T	379101	600	378501	4.43	1.48919	1.00543	0.618	31.8	0.138568	0.913961	
Operations and Procedures	Introduction of non removable material into organ NOC	T	379101	611	378490	4.44	1.4896	1.00701	0.616	31.9	0.139077	0.914758	
Symptoms	Hepatomegaly and splenomegaly (HES)	T	379101	590	378511	4.41	1.48395	1.00563	0.614	31.7	0.140039	0.918548	
Operations and Procedures	High cost immunosuppressant drugs	T	379101	602	378499	4.4	1.48072	1.00483	0.613	31.5	0.140584	0.919615	
Genitourinary	Diseases of Bartholin's gland (HES)	T	379101	665	378436	4.39	1.47931	0.99392	0.607	31.7	0.142744	0.93116	
Summary	Diabetes mellitus (HES)	T	379101	17982	361119	0.425	-0.856221	0.585735	0.135	1.34	0.143799	0.935479	
Haematology	Anaemia in chronic diseases classified elsewhere (HES)	T	379101	657	378444	4.33	1.46447	1.00553	0.603	31	0.145279	0.941434	
Musculoskeletal	Psoriatic and enteropathic arthropathies (HES)	T	379101	650	378451	4.31	1.46181	1.0046	0.602	30.9	0.145637	0.941434	
Operations and Procedures	Excision of organ NOC	T	379101	1832	377269	2.82	0.103636	0.712657	0.697	11.4	0.145886	0.94134	
Infectious disease	Candidiasis (HES)	T	379101	1983	377118	2.8	1.0283	0.710304	0.691	11.3	0.149295	0.956511	
ENT	Tonsillectomy adenoids (self-reported)	T	379101	59321	319780	0.682	-0.383031	0.265451	0.405	1.15	0.149036	0.956511	
Operations and Procedures	Open drainage of bladder	T	379101	606	378495	4.26	1.44876	1.00505	0.594	30.5	0.14945	0.956511	
Digestive system	Haemochromatosis (HES and self-reported)	T	379101	635	378466	4.26	1.44989	0.99861	0.592	30.7	0.149844	0.956511	
Operations and Procedures	Excision of dental lesion of jaw	T	379101	624	378477	4.2	1.43608	1.00454	0.587	30.1	0.152837	0.970433	
Operations and Procedures	Excision of sigmoid colon	T	379101	638	378463	4.22	1.43868	0.99539	0.587	30.2	0.152437	0.970433	
Summary	Other congenital malformations of the digestive system (HES)	T	379101	632	378469	4.19	1.43164	1.00495	0.584	30	0.154276	0.976945	
Operations and Procedures	Suture of organ NOC	T	379101	640	378461	4.16	1.42615	1.00454	0.581	29.8	0.155693	0.983302	
Immuno-inflammation	Pruritus (HES)	T	379101	705	378396	4.16	1.42475	1.00459	0.58	29.8	0.156121	0.983397	
Gynaecology and Obstetrics	Mastectomy (self-reported)	T	379101	3844	375255	2.31	0.83568	0.591532	0.724	7.35	0.157513	0.987445	
Musculoskeletal	Grip strength maximumValue	T	378322	NA	NA	NA	-0.117497	0.083142	-0.280455	0.045461	0.157593	0.987445	
Summary	HESCH Diseases of the eye and adnexa (HES)	T	379101	35574	343527	1.44	0.362717	0.257085	0.868	2.38	0.158279	0.98914	
Operations and Procedures	Other operations on spermatic cord	T	379101	598	378503	4.14	1.42065	1.00905	0.573	29.9	0.159158	0.98952	
Operations and Procedures	Other large intestine	T	379101	3469	376532	2.28	0.822278	0.58406	0.724	7.15	0.159171	0.98952	
Respiratory	Pleural plaque (HES)	T	379101	645	378456	4.11	1.4135	1.01329	0.564	30	0.163026	0.995679	
Eye	Eye surgery (self-reported)	T	379101	3495	375606	2.26	0.815711	0.583944	0.72	7.1	0.162444	0.995679	
Neurosciences	Stomach abdominal pain for 3 months vs no pain	T	357806	17535	340271	0.443	-0.814884	0.584247	0.141	1.39	0.163089	0.995679	
Operations and Procedures	Freeing of tendon	T	379101	632	378449	4.08	1.40652	1.00453	0.57	29.2	0.161643	0.995679	
Neurosciences	Back pain	T	378231	102012	276219	0.753	-0.284297	0.202874	0.506	1.12	0.161111	0.995679	
Metabolic	Type 2 diabetes (HES and self-reported)	T	379101	17351	361750	0.441	-0.819551	0.58602	0.14	1.39	0.161962	0.995679	
Gynaecology and Obstetrics	Vaginal prolapseuterine prolapse (HES and self-reported)	T	379101	11476	367625	0.243	-1.41275	0.10829	0.0337	1.76	0.16174	0.995679	
Medication	Stomatological preparations	T	379101	59623	319478	0.914	-0.089727	0.243209	0.568	1.47	0.172182	0.998648	
Medication	Drugs for peptic ulcer and gastro oesophageal reflux disease gord	T	379101	45634	333467	1.18	0.16366	0.248861	0.723	1.92	0.150771	0.998648	
Medication	Drugs for functional gastrointestinal disorders	T	379101	3769	375332	0.752	-0.284907	0.100434	0.105	5.38	0.176652	0.998648	
Medication	Propulsives	T	379101	1384	377171	2.06	0.72186	1.00443	0.287	14.7	0.172339	0.998648	
Medication	Antiemetics and antinauseants	T	379101	234	378867	0.000121	-0.901858	0.102851	0.481	2.2	0.194093	0.998648	
Medication	Bile therapy	T	379101	233	378865	0.00012	-0.902811	0.102821	0.462912	0.998648			
Medication	Drugs for constipation	T	379101	6110	372991	0.46	-0.777074	0.100437	0.0642	3.29	0.193911	0.998648	
Medication	Intestinal antiinfectives	T	379101	693	378408	0.000103	-0.918444	0.120214	4.82E-107	2.19E+98	0.19391	0.998648	
Medication	Antipropropulsives	T	379101	2041	377060	8.91E-05	-0.932607	0.73245	3.78E-67	2.10E+58	0.19872	0.998648	
Medication	Antibesity preparations excl diet products	T	379101	958	378143	7.51E-05	-0.947919	0.120415	2.38E-107	2.37E+98	0.97135	0.998648	
Medication	Digestives incl enzymes	T	379101	255	378846	9.96E-05	-0.924178	0.197586	0.560E-173	1.57E+64	0.962805	0.998648	
Medication	Multivitamin combinations	T	379101	19000	360101	1.03	-0.028753	0.388049	0.481	2.2	0.194093	0.998648	
Medication	Vitamin a and d incl combinations of the two	T	379101	10919	368182	0.522	-0.650789	0.175904	0.128	2.12	0.193327	0.998648	
Medication	Vitamin b1 plain and in combination with vitamin b6 and b12	T	379101	3169	375932	6.20E-05	-0.968835	0.731822	3.15E-67	1.22E+58	0.894678	0.998648	
Medication	Ascorbic acid vitamin c incl combinations	T	379101	6192	372909	1.81	0.592913	0.507561	0.669	4.89	0.242742	0.998648	
Medication	Other plain vitamin preparations	T	379101	4840	374261	4.11E-05	-0.10997	0.728733	3.83E-67	4.41E+57	0.899797	0.998648	
Medication	Other mineral supplements	T	379101	878	378223	8.93E-05	-0.932659	0.117646	6.16AE-105	6.4AE-105	0.124E+96	0.936833	0.998648
Medication	Antithrombotic agents	T	379101	59142	319959	0.812	-0.208092	0.255159	0.493	1.34	0.14764	0.998648	
Medication	Antifibrinolitics	T	379101	502	378599	8.14E-05	-0.941629	0.1766	3.42E-155	1.93E+146	0.957491	0.998648	
Medication	Iron preparations	T	379101	19982	359119	0.824	-0.193824	0.417581	0.363	1.87	0.162534	0.998648	
Medication	Vitamin b12 and folic acid	T	379101	8262	370389	0.343	-0.106999	0.100387	0.048	2.45	0.284885	0.998648	
Medication	Irrigating solutions	T	379101	1449	373652	5.24E-05	-0.985731	0.117344	0.254	1.7	0.242742	0.998648	
Medication	Iv solution additives	T	379101	936	378165	8.36E-05	-0.938894	0.11797	3.14E-105	2.23E+96	0.93657	0.998648	
Medication	Cardiac glycosides	T	379101	1042	378059	2.56	0.941801	1.00876	0.355	18.5	0.350498	0.998648	
Medication	Antiarrhythmics class i and iii	T	379101	1297	377804	2.05	0.715723	0.150113	0.286	14.7	0.473515	0.998648	
Medication	Cardiac stimulants excl cardiac glycosides	T	379101	304	378797	8.27E-05	-0.940081	0.196614	3.80E-172	1.90E+163	0.961865	0.998648	
Medication	Vasodilators used in cardiac diseases	T	379101	5385	373716	3.75E-05	-0.101915	0.693835	1.34E-64	1.05E+55	0.883977	0.998648	
Medication	Other cardiac preparations	T	379101	50254	328487	0.812	-0.208005	0.266936	0.481	1.37	0.353844	0.998648	
Medication	Antidiuretic agents centrally acting	T	379101	1115	377986	6.65E-05	-0.917191	0.119382	1.60E-106	2.77E+97	0.937588	0.998648	
Medication	Antidiuretic agents peripherally acting	T	37										

Medication	Estrogens	T	379101	10090	369011	0.85	-0.162924	0.590095	0.267	2.7	0.782473	0.998648
Medication	Progestogens	T	379101	2010	377091	1.64	0.4943	1.01399	0.225	12	0.625918	0.998648
Medication	Androgens and female sex hormones in combination	T	379101	421	378680	5.85E-05	-0.74627	194.714	1.06E-170	3.24E+161	0.960079	0.998648
Medication	Progestogens and estrogens in combination	T	379101	8666	370435	0.326	-1.11978	1.00927	0.0451	2.36	0.267215	0.998648
Medication	Other sex hormones and modulators of the genital system	T	379101	368	378733	9.92E-05	-9.21842	177.305	1.18E-155	8.35E+146	0.958535	0.998648
Medication	Urologicals	T	379101	6031	373070	3.00E-05	-10.4132	72.4913	5.91E-67	1.53E+57	0.885779	0.998648
Medication	Drugs used in benign prostatic hypertrophy	T	379101	6797	372304	0.359	-1.02343	1.00917	0.0497	2.6	0.310522	0.998648
Medication	Corticosteroids for systemic use plain	T	379101	6943	372158	1.16	0.147556	0.584069	0.369	3.64	0.800551	0.998648
Medication	Thyroid preparations	T	379101	21493	357608	0.915	-0.089022	0.392721	0.424	1.98	0.820673	0.998648
Medication	Antithyroid preparations	T	379101	334	378767	7.78E-05	-9.46088	196.772	2.49E-172	2.44E+163	0.961652	0.998648
Summary	Intestinal infectious diseases (HES)	T	379101	8022	371079	1.37	0.318309	0.507756	0.508	3.72	0.53073	0.998648
Summary	Other bacterial diseases (HES)	T	379101	4393	374708	1.84	0.61209	0.585039	0.585	5.8	0.296147	0.998648
Summary	Infections sexual mode of transmission (HES)	T	379101	253	378484	0.00011	-9.11253	197.003	2.24E-172	5.43E+163	0.963106	0.998648
Summary	Viral infections of the central nervous system (HES)	T	379101	233	378868	9.99E-05	-9.21125	199.143	3.06E-174	3.26E+165	0.963103	0.998648
Summary	Viral infections skin and mucous memb (HES)	T	379101	1422	377679	1.91	0.645779	1.00406	0.267	13.6	0.520115	0.998648
Summary	Viral hepatitis (HES)	T	379101	525	378576	4.81E-05	-9.94293	197.057	8.78E-173	2.63E+163	0.959758	0.998648
Summary	Other viral diseases (HES)	T	379101	1781	377320	1.53	0.426758	1.00391	0.214	11	0.670766	0.998648
Summary	Mycoses (HES)	T	379101	2468	376633	2.22	0.798837	0.712946	0.55	8.99	0.262512	0.998648
Summary	Nutritional anaemias (HES)	T	379101	7757	371344	1.8	0.585498	0.456011	0.735	4.39	0.199158	0.998648
Summary	Haemolytic anaemias (HES)	T	379101	276	378285	9.25E-05	-9.28837	197.535	6.62E-173	1.29E+164	0.962496	0.998648
Summary	Aplastic and other anaemias (HES)	T	379101	11319	367782	1.22	0.198057	0.45613	0.499	2.98	0.664134	0.998648
Summary	Coagulation defects purpura and other haemorrhagic conditions (HES)	T	379101	2426	376675	7.50E-05	-7.98787	73.2987	3.03E-67	1.85E+58	0.896901	0.998648
Summary	Certain disorders involving the immune mechanism (HES)	T	379101	976	378125	6.70E-05	-9.61048	120.763	1.07E-107	4.20E+98	0.936571	0.998648
Summary	Disorders of thyroid gland (HES)	T	379101	15440	363661	0.905	-0.099705	0.459064	0.368	2.23	0.280509	0.998648
Summary	Glucose regulation and pancreatic internal secretion (HES)	T	379101	831	378270	8.33E-05	-9.39551	119.694	1.08E-106	6.40E+97	0.937447	0.998648
Summary	Disorders of other endocrine glands (HES)	T	379101	2354	376747	1.15	0.140199	0.10392	0.161	8.23	0.889935	0.998648
Summary	Other nutritional deficiencies (HES)	T	379101	1249	377852	5.56E-05	-9.79699	120.802	8.25E-108	3.75E+98	0.935363	0.998648
Summary	Obesity and other hyperalimentation (HES)	T	379101	9921	369180	1.1	0.094774	0.507518	0.407	2.97	0.851864	0.998648
Summary	Organic including symptomatic mental disorders (HES)	T	379101	1447	377654	5.05E-05	-9.88948	115.32	3.47E-103	7.33E+93	0.931627	0.998648
Summary	Mental disorders due to psychoactive sub (HES)	T	379101	14024	365077	1.58	0.460355	0.366183	0.773	3.25	0.208691	0.998648
Summary	Schizophrenia, schizotypal and delusional disorders (HES)	T	379101	899	378202	7.56E-05	-9.48943	120.336	2.80E-107	2.05E+98	0.937146	0.998648
Summary	Mood affective disorders (HES)	T	379101	11549	367552	0.701	-0.354542	0.583751	0.223	2.2	0.436317	0.998648
Summary	Neurotic stress related and somatoform disorders (HES)	T	379101	6748	372353	0.34	-0.91529	1.00357	0.056	2.86	0.361752	0.998648
Summary	Behav syn assoc with phys disturb and phys fact (HES)	T	379101	424	378677	5.92E-05	-9.73418	197.241	7.54E-173	4.65E+163	0.960639	0.998648
Summary	Disorders of adult personality and behaviour (HES)	T	379101	350	378751	7.12E-05	-9.54961	196.777	2.28E-172	2.22E+163	0.961292	0.998648
Summary	Disorders of psychological development (HES)	T	379101	287	378184	8.05E-05	-9.4269	198.566	7.64E-174	8.49E+164	0.962135	0.998648
Summary	Inflammatory diseases of the central nervous system (HES)	T	379101	536	378565	4.52E-05	-10.052	1.19549	5.71E-175	3.57E+165	0.960002	0.998648
Summary	Atrophies affecting central nervous system (HES)	T	379101	368	378733	6.69E-05	-9.61265	197.447	5.69E-173	7.86E+163	0.961171	0.998648
Summary	Other degenerative diseases of the nervous system (HES)	T	379101	907	378194	2.99	-1.0953	1.00654	0.416	21.5	0.276516	0.998648
Summary	Demyelinating diseases of the central nervous system (HES)	T	379101	1406	377695	1.95	0.669318	1.00443	0.273	14	0.205748	0.998648
Summary	Episodic and paroxysmal disorders (HES)	T	379101	1291	366110	1.02	0.019298	0.455708	0.417	2.49	0.966222	0.998648
Summary	Polyneuropathies and peripheral nervous system (HES)	T	379101	166	377432	3.99E-05	-10.1294	119.826	4.01E-107	3.97E+97	0.932632	0.998648
Summary	Diseases of myoneur junction and muscle (HES)	T	379101	482	378619	5.07E-05	-9.88982	199.215	1.35E-174	1.91E+165	0.960406	0.998648
Summary	Cerebral palsy and other paralytic syndromes (HES)	T	379101	2036	377065	2.63	0.967368	0.713073	0.65	10.6	0.174902	0.998648
Summary	Other disorders of the nervous system (HES)	T	379101	3742	375359	4.77E-05	-9.95088	73.4486	1.44E-67	1.58E+58	0.892232	0.998648
Summary	Disorders of eyelid lacrimal system and orbit (HES)	T	379101	8748	370353	0.938	-0.063566	0.584837	0.299	2.95	0.91382	0.998648
Summary	Disorders of conjunctiva (HES)	T	379101	908	378193	7.52E-05	-9.49577	120.518	1.95E-107	2.90E+98	0.937197	0.998648
Summary	Disorders of lens (HES)	T	379101	18482	366019	1.37	0.316731	0.532973	0.687	2.74	0.369546	0.998648
Summary	Disorders of choroid and retina (HES)	T	379101	6755	372346	1.15	0.14139	0.585728	0.365	3.63	0.809252	0.998648
Summary	Glaucoma (HES)	T	379101	4048	375053	1.32	0.274603	0.714777	0.325	5.35	0.69898	0.998648
Summary	Disorders of vitreous body and globe (HES)	T	379101	1565	377536	1.6	0.467832	0.100507	0.223	11.4	0.641593	0.998648
Summary	Ocular muscles/corneal movement (HES)	T	379101	2672	376429	0.969	-0.031748	1.00412	0.135	6.93	0.974777	0.998648
Summary	Visual disturbances and blindness (HES)	T	379101	3428	375673	0.777	-0.25266	1.00368	0.109	5.55	0.801248	0.998648
Summary	Other disorders of eye and adnexa (HES)	T	379101	876	378225	7.66E-05	-9.47685	120.579	1.76E-107	3.34E+98	0.937355	0.998648
Summary	Diseases of external ear (HES)	T	379101	1324	377777	4.96E-05	-9.91224	120.745	8.22E-108	2.99E+98	0.934573	0.998648
Summary	Diseases of middle ear and mastoid (HES)	T	379101	2903	376198	0.934	-0.067886	0.03066	0.131	6.68	0.940674	0.998648
Summary	Diseases of inner ear (HES)	T	379101	1848	377253	3.69E-05	-10.2077	120.734	6.25E-108	2.18E+98	0.932621	0.998648
Summary	Other disorders of ear (HES)	T	379101	4112	374989	0.642	-0.442865	1.00396	0.0898	4.59	0.659127	0.998648
Summary	Chronic rheumatic heart diseases (HES)	T	379101	1969	377132	3.66E-05	-10.2165	117.166	6.75E-105	1.98E+95	0.930515	0.998648
Summary	Hypertensive disease (HES)	T	379101	70641	308497	0.922	-0.08116	0.227978	0.59	1.44	0.721841	0.998648
Summary	Ischaemic heart diseases (HES)	T	379101	27652	375144	0.643	-0.442215	0.39494	0.296	1.39	0.628241	0.998648
Summary	Pulmonary heart disease and diseases of pulmonary circulation (HES)	T	379101	3992	375109	2.0	0.693109	0.585203	0.635	6.3	0.326259	0.998648
Summary	Other forms of heart disease (HES)	T	379101	26042	352059	1.24	0.21531	0.30288	0.678	2.27	0.484912	0.998648
Summary	Diseases of veins lymphatic vessels (HES)	T	379101	35400	343701	1.16	0.144223	0.273377	0.676	1.97	0.597296	0.998648
Summary	Other and unspecified disorders of the circulatory system (HES)	T	379101	4939	374162	1.64	0.494876	0.585308	0.521	5.17	0.597834	0.998648
Summary	Acute upper respiratory infections (HES)	T	379101	2654	376447	6.94E-05	-9.57562	73.4857	1.95E-67	2.48E+58	0.896324	0.998648
Summary	Other diseases of upper respiratory tract (HES)	T	379101	13139	365962	1.44	0.367489	0.388204	0.675	3.09	0.343822	0.998648
Summary	Lung diseases due to external agents (HES)	T	379101	898	378203	2.97	0.108955	1.00702	0.413	21.4	0.279721	0.998648
Summary	Respiratory diseases interstitium (HES)	T	379101	1501	377600	1.81	0.593767	0.100568	0.252	13	0.554914	0.998648
Summary	Diseases of oral cavity salivary glands and jaws (HES)	T	379101	1424	364877	0.561	-0.578788	0.583604	0.179	1.76	0.32132	0.998648
Summary	Diseases of oesophagus stomach and duodenum (HES)	T	379101	55390	327371	1.1	0.098072	0.233605	0.698	1.74	0.674616	0.998648
Summary	Diseases of appendix (HES)	T	379101	3245	375856	1.61	0.473679	0.712504	0.397	6.49	0.506173	0.998648
Summary	Hernia (HES)	T	379101	42709	363692	0.772	-0.25931	0.249257	0.433	1.37	0.378191	0.998648
Summary	Noninfective enteritis and colitis (HES)	T	379101	17546	361555	0.764	-0.269145	0.455589	0.313	1.87	0.545679	0.998648
Summary	Other diseases of intestines (HES)	T	379101	59649	319452	0.739	-0.301971	0.260609	0.444	1.23	0.245594	0.998648
Summary	Diseases of peritoneum (HES)	T	379101	3415	3756							

Summary	Congenital malformations of eye ear face and neck (HES)	T	379101	307	378794	7.79E-05	-9.46057	198.918	3.71E-174	1.64E+165	0.962067	0.998648
Summary	Congenital malformations of genital organs (HES)	T	379101	628	378473	0.00011	-9.13109	120.445	3.29E-107	3.69E+98	0.939688	0.998648
Summary	Congenital malformations of the urinary system (HES)	T	379101	821	378280	7.89E-05	-9.44687	120.804	1.17E-107	5.34E+98	0.937669	0.998648
Summary	Congenital malformations musculoskeletal system (HES)	T	379101	711	378390	3.73	1.3165	1.00481	0.521	26.7	0.190128	0.998648
Summary	Other congenital malformations (HES)	T	379101	615	378486	0.000108	-9.13309	120.961	1.17E-107	9.95E+98	0.939814	0.998648
Summary	Symptoms circulatory and respiratory systems (HES)	T	379101	45652	333449	1.07	0.070645	0.253542	0.653	1.76	0.780528	0.998648
Summary	Symptoms and signs involving the digestive system and abdomen (HES)	T	379101	52090	327011	0.767	-0.26512	0.273615	0.449	1.31	0.332569	0.998648
Summary	Symptoms and signs involving the urinary system (HES)	T	379101	26525	352576	1.09	0.082935	0.316711	0.584	2.02	0.793426	0.998648
Summary	Symptoms cognition perception emotional state (HES)	T	379101	8138	370963	1.35	0.299731	0.508322	0.498	3.65	0.555427	0.998648
Summary	Symptoms and signs involving speech and voice (HES)	T	379101	2293	376808	2.37	0.860792	0.71316	0.584	9.57	0.227428	0.998648
Summary	General symptoms and signs (HES)	T	379101	41556	337545	1.11	0.107817	0.258863	0.671	1.85	0.677043	0.998648
Summary	Abnormal findings on examination of blood without diagnosis (HES)	T	379101	725	371806	1.45	0.369622	0.511881	0.531	3.95	0.470242	0.998648
Summary	Abnormal findings of urine without diagnosis (HES)	T	379101	652	378449	0.000106	-9.15415	120.162	2.24E-107	4.99E+98	0.939505	0.998648
Summary	Abn exm of fluids subst w/o diag (HES)	T	379101	1857	377244	4.03E-05	-10.1196	118.4	6.62E-106	2.45E+96	0.931888	0.998648
Summary	Abnormal findings on diagnostic imaging (HES)	T	379101	8914	370187	0.924	-0.078864	0.584628	0.294	2.91	0.892694	0.998648
Summary	HESCH Chapter IX Diseases of the circulatory system BIN (HES)	T	379101	117038	262063	0.93	-0.072119	0.190176	0.641	1.35	0.704521	0.998648
Summary	HESCH Diseases of the ear and mastoid process (HES)	T	379101	8809	370292	0.602	-0.506841	0.712051	0.149	2.43	0.476585	0.998648
Summary	HESCH Diseases of the nervous system (HES)	T	379101	36198	342903	0.871	-0.138663	0.301985	0.482	1.57	0.64611	0.998648
Summary	HESCH Mental and behavioural disorders (HES)	T	379101	29106	349995	1.02	0.024552	0.314288	0.554	1.9	0.937733	0.998648
Summary	HESCH Diseases of the musculo and connec tissue (HES)	T	379101	100763	278338	1.26	0.231302	0.183241	0.88	1.8	0.206846	0.998648
Summary	HESCH Diseases of the skin and subcutaneous tissue (HES)	T	379101	37154	341947	1.1	0.09225	0.273504	0.642	1.87	0.735898	0.998648
Summary	HESCH Diseases of the genitourinary system (HES)	T	379101	91318	287783	0.945	-0.056343	0.202953	0.635	1.41	0.781304	0.998648
Summary	HESCH Diseases of the digestive system (HES)	T	379101	137916	241185	1.08	0.074747	0.174499	0.765	1.52	0.668393	0.998648
Summary	HESCH Pregnancy childbirth and the puerperium (HES)	T	379101	12811	366290	0.583	-0.540169	0.75443	0.133	2.56	0.473994	0.998648
Infectious disease	Other bacterial intestinal infections (HES)	T	379101	2315	376785	8.33E-05	-9.39326	72.829	8.46E-67	8.20E+57	0.897376	0.998648
Infectious disease	Viral and other specified intestinal infections (HES)	T	379101	770	378331	9.02E-05	-9.31316	120.69	1.67E-107	4.88E+98	0.938491	0.998648
Infectious disease	Streptococcal septicaemia (HES)	T	379101	235	378866	0.000104	-9.17306	196.109	1.23E-171	8.76E+162	0.962691	0.998648
Infectious disease	Bacterial infection of unspecified site (HES)	T	379101	696	378405	3.9	1.36126	0.20056	0.544	28	0.175602	0.998648
Infectious disease	Herpesviral (HES)	T	379101	232	378869	0.000109	-9.12555	198.698	7.97E-174	1.49E+165	0.963369	0.998648
Infectious disease	Viral warts (HES)	T	379101	643	378458	0.000105	-9.16035	121.121	8.35E-108	1.32E+99	0.939714	0.998648
Infectious disease	Chronic viral hepatitis (HES)	T	379101	343	378758	7.65E-05	-9.47852	195.154	5.82E-171	1.00E+162	0.961263	0.998648
Infectious disease	Viral infection of unspecified site (HES)	T	379101	1590	377511	1.73	0.545373	0.00397	0.241	12.3	0.58692	0.998648
Infectious disease	Dermatophytosis (HES)	T	379101	227	378874	0.000109	-9.12585	195.35	5.64E-171	2.10E+162	0.96274	0.998648
Infectious disease	Streptococcus and staphylococcus (HES)	T	379101	3735	375366	0.69	-0.370845	1.00383	0.0965	4.94	0.711807	0.998648
Infectious disease	Viral agents as the cause of diseases classified to other chapters (HES)	T	379101	505	378596	5.45E-05	-9.16142	194.803	8.26E-171	3.60E+161	0.95981	0.998648
Infectious disease	Helicobacter pylori (HES)	T	379101	748	378353	0.000101	-9.20198	119.157	3.76E-106	2.70E+97	0.938444	0.998648
Haematology	Vitamin B12 deficiency anaemia (HES)	T	379101	809	378292	9.19E-05	-9.29465	119.45	1.93E-106	4.38E+97	0.937974	0.998648
Haematology	Other aplastic anaemias (HES)	T	379101	409	378692	6.32E-05	-9.66951	195.995	9.25E-172	4.31E+162	0.960652	0.998648
Haematology	Other anaemias (HES)	T	379101	10478	368623	1.05	0.046771	0.507939	0.387	2.84	0.926635	0.998648
Haematology	Other coagulation defects (HES)	T	379101	874	378227	7.64E-05	-9.47699	121.137	5.88E-108	9.93E+98	0.937624	0.998648
Haematology	Purpur and other haemorrhagic conditions (HES)	T	379101	1530	377571	4.42E-05	-10.0257	120.326	1.67E-107	1.17E+98	0.933596	0.998648
Haematology	Agranulocytosis (HES)	T	379101	2906	376193	6.39E-05	-9.6585	197.737	3.99E-67	1.02E+58	0.8848	0.998648
Haematology	Other disorders of white blood cells (HES)	T	379101	309	378792	8.27E-05	-9.40052	197.512	6.19E-173	1.10E+164	0.962039	0.998648
Immuno-inflammation	Sarcoidosis (HES)	T	379101	489	378612	4.91E-05	-9.92227	199.601	6.12E-175	3.93E+165	0.963053	0.998648
Immuno-inflammation	Other disorders involving the immune mechanism (HES)	T	379101	290	378811	8.84E-05	-9.33235	195.357	4.52E-171	1.73E+162	0.961893	0.998648
Metabolic	Other hypothyroidism (HES)	T	379101	12869	376232	0.425	-0.856415	0.714756	0.105	1.72	0.320842	0.998648
Metabolic	Thyrotoxicosis (HES)	T	379101	1663	377438	1.7	0.52781	1.00497	0.236	12.2	0.599443	0.998648
Metabolic	Thyroiditis (HES)	T	379101	275	378826	0.000105	-9.16501	191.143	1.18E-167	9.29E+158	0.961815	0.998648
Metabolic	Other disorders of thyroid (HES)	T	379101	357	378744	7.58E-05	-9.48765	195.033	7.31E-171	7.85E+161	0.961201	0.998648
Metabolic	Insulin dependent diabetes mellitus (HES)	T	379101	2572	376529	1.01	0.012314	0.00411	0.141	7.25	0.990216	0.998648
Metabolic	Non insulin dependent diabetes mellitus (HES)	T	379101	16601	362500	0.462	-0.771861	0.586076	0.147	1.46	0.187841	0.998648
Metabolic	Unspecified diabetes mellitus (HES)	T	379101	2120	376981	1.29	-0.253916	1.00534	0.18	9.25	0.800604	0.998648
Metabolic	Other disorders of pancreatic internal secretion (HES)	T	379101	829	378272	8.35E-05	-9.39126	119.701	1.07E-106	6.50E+97	0.937466	0.998648
Metabolic	Hyperparathyroidism of parathyroid gland (HES)	T	379101	752	378349	3.68	1.30232	0.05668	0.512	26.4	0.195335	0.998648
Metabolic	Hyperfunction of pituitary gland (HES)	T	379101	291	378180	8.58E-05	-9.36329	198.996	3.51E-174	2.10E+165	0.962471	0.998648
Metabolic	Hypofunction and other disorders of pituitary gland (HES)	T	379101	359	378742	6.88E-05	-9.58388	198.218	1.30E-173	3.63E+164	0.961437	0.998648
Metabolic	Other disorders of adrenal gland (HES)	T	379101	431	378670	5.83E-05	-9.70509	199.029	2.23E-174	1.52E+165	0.960927	0.998648
Metabolic	Ovarian dysfunction (HES)	T	379101	239	378862	5.87E-08	-16.6504	998925	0	Inf	0.988586	0.998648
Metabolic	Deficiency of other B group vitamins (HES)	T	379101	664	378437	0.000108	-9.13663	120.542	2.66E-107	4.36E+98	0.939581	0.998648
Metabolic	Vitamin D deficiency (HES)	T	379101	359	378742	7.42E-05	-9.50887	198.186	4.88E-173	3.71E+164	0.961733	0.998648
Metabolic	Deficiency of other nutrient elements (HES)	T	379101	216	378882	0.000108	-9.13344	198.418	1.37E-173	8.52E+164	0.963288	0.998648
Metabolic	Obesity (HES)	T	379101	9864	369237	1.11	0.100141	0.507522	0.409	2.99	0.843852	0.998648
Metabolic	Disorders of porphyrin and bilirubin metabolism (HES)	T	379101	367	378734	6.66E-05	-9.61673	196.748	2.23E-172	1.99E+163	0.961016	0.998648
Metabolic	Disorders of mineral metabolism (HES)	T	379101	1975	377126	1.38	0.324204	0.00474	0.193	9.91	0.746933	0.998648
Metabolic	Volume depletion (HES)	T	379101	2592	376509	2.13	0.75676	0.173645	0.526	8.63	0.288956	0.998648
Metabolic	Other disorders of fluid electrolyte and acid base balance (HES)	T	379101	4789	374312	1.72	0.543922	0.585776	0.547	5.43	0.353122	0.998648
Metabolic	Postprocedural endocrine and metabolic disorders (HES)	T	379101	1206	377895	2.3	0.834428	1.00548	0.321	16.5	0.406608	0.998648
Mental health	Dementia in Alzheimer's disease (HES)	T	379101	223	378878	5.03E-05	-9.88916	302.275	2.51E-262	1.01E+253	0.973877	0.998648
Mental health	Unspecified dementia (HES)	T	379101	432	378669	6.75E-05	-9.60267	184.899	2.76E-162	1.66E+153	0.958581	0.998648
Mental health	Delirium not induced by alcohol and other psychoactive substances (HES)	T	379101	538	378563	5.08E-05	-9.88789	188.995	3.51E-174	3.82E+156	0.958275	0.998648
Mental health	Other mental disorders due to brain damage (HES)	T	379101	212	378898	0.000119	-9.03281	195.125	6.62E-171	1.48E+162	0.963077	0.998648
Mental health	Mental and behavioural disorders due to use of tobacco (HES)	T	379101	10134	368967	0.802	-0.22039	0.584502	0.255	2.52	0.76132	0.998648
Mental health	Schizophrenia (HES)	T	379101	496	378605	5.04E-05	-9.89507	197.294	5.79E-173	4.39E+163	0.96	0.998648
Mental health	Bipolar affective disorder (HES)	T	379101	888	378213	7.55E-05	-9.4914	121.079	6.51E-108			

Eye	Disorders of orbit (HES)	T	379101	250	378851	9.87E-05	-9.22348	199.46	1.62E-174	6.00E+165	0.963117	0.998648
Eye	Conjunctivitis (HES)	T	379101	221	378880	0.000116	-9.0599	198.225	2.15E-173	6.28E+164	0.963545	0.998648
Eye	Other disorders of conjunctiva (HES)	T	379101	672	378429	0.000101	-9.19945	120.482	2.81E-107	3.64E+98	0.393136	0.998648
Eye	Keratitis (HES)	T	379101	236	378865	0.000103	-9.18234	199.145	3.14E-174	3.37E+165	0.963223	0.998648
Eye	Other disorders of iris and ciliary body (HES)	T	379101	272	378829	8.61E-05	-9.36047	197.285	1.01E-172	7.37E+163	0.962158	0.998648
Eye	Senile cataract (HES)	T	379101	7529	371572	1.47	0.387418	0.153961	0.538	4.03	0.450976	0.998648
Eye	Other cataract (HES)	T	379101	13094	366007	1.27	0.239654	0.423606	0.554	2.92	0.571566	0.998648
Eye	Other disorders of lens (HES)	T	379101	203	378898	0.000118	-9.04761	197.657	6.63E-173	2.09E+164	0.96349	0.998648
Eye	Retinal detachments and breaks (HES)	T	379101	2997	376104	0.821	-0.197786	1.00462	0.115	5.88	0.843925	0.998648
Eye	Other retinal disorders (HES)	T	379101	3106	375995	1.74	0.553908	0.715095	0.428	7.07	0.438579	0.998648
Eye	Retinal disorders in diseases classified elsewhere (HES)	T	379101	1229	377872	5.47E-05	-9.81361	118.642	5.60E-106	5.35E+96	0.934077	0.998648
Eye	Glaucoma (HES)	T	379101	4047	375054	1.32	0.276751	0.741777	0.325	5.35	0.569816	0.998648
Eye	Disorders of vitreous body (HES)	T	379101	1246	377885	2.03	0.7090123	0.100524	0.283	14.6	0.80456	0.998648
Eye	Disorders of globe (HES)	T	379101	389	378712	5.79E-05	-9.7596	196.481	3.27E-172	1.02E+163	0.960392	0.998648
Eye	Other disorders of optic (HES)	T	379101	285	378816	8.43E-05	-9.38099	197.893	2.99E-173	2.38E+164	0.962191	0.998648
Eye	Paralytic strabismus (HES)	T	379101	258	378843	9.18E-05	-9.2964	198.58	8.47E-174	9.94E+164	0.962661	0.998648
Eye	Other strabismus (HES)	T	379101	823	378728	8.16E-05	-9.4142	121.081	7.00E-108	9.50E+98	0.393082	0.998648
Eye	Disorders of refraction and accommodation (HES)	T	379101	1639	377462	1.56	0.446886	0.00489	0.218	11.2	0.565527	0.998648
Eye	Visual disturbances (HES)	T	379101	2695	376406	6.72E-05	-9.60795	73.3706	2.36E-67	1.91E+58	0.895814	0.998648
Eye	Blindness and low vision (HES)	T	379101	805	378296	3.34	1.20596	1.00467	0.466	23.9	0.230005	0.998648
Eye	Other disorders of eye and adnexa (HES)	T	379101	430	378671	5.93E-05	-9.7332	199.203	1.81E-174	2.18E+165	0.96103	0.998648
ENT	Otitis externa (HES)	T	379101	488	378613	5.04E-05	-9.89489	199.397	9.39E-175	2.71E+165	0.960422	0.998648
ENT	Other disorders of external ear (HES)	T	379101	883	378218	7.35E-05	-9.51802	120.327	2.77E-107	1.95E+98	0.396952	0.998648
ENT	Nonsuppurative otitis media (HES)	T	379101	959	378142	2.77	1.01845	1.00432	0.387	19.8	0.310552	0.998648
ENT	Suppurative and unspecified otitis media (HES)	T	379101	700	378401	9.91E-05	-9.2196	120.776	1.55E-107	6.35E+98	0.393152	0.998648
ENT	Cholesteatoma of middle ear (HES)	T	379101	393	378708	6.22E-05	-9.68453	199.242	1.57E-174	2.47E+165	0.961233	0.998648
ENT	Perforation of tympanic membrane (HES)	T	379101	870	378231	7.91E-05	-9.445	120.936	9.04E-108	6.92E+98	0.397749	0.998648
ENT	Other disorders of tympanic membrane (HES)	T	379101	333	378768	7.34E-05	-9.51901	199.383	1.41E-174	3.84E+165	0.961922	0.998648
ENT	Other disorders of middle ear and mastoid (HES)	T	379101	400	378701	6.26E-05	-9.67887	199.298	1.41E-174	2.77E+165	0.961266	0.998648
ENT	Otosclerosis (HES)	T	379101	275	378262	8.65E-05	-9.35548	199.283	2.01E-174	3.72E+165	0.962556	0.998648
ENT	Disorders of vestibular function (HES)	T	379101	871	378230	8.10E-05	-9.42128	120.121	4.56E-107	1.44E+98	0.397485	0.998648
ENT	Other diseases of inner ear (HES)	T	379101	734	378367	9.29E-05	-9.28422	120.813	1.35E-107	6.40E+98	0.398745	0.998648
ENT	Conductive and sensorineural hearing loss (HES)	T	379101	866	378235	7.70E-05	-9.4714	120.816	1.11E-107	5.34E+98	0.397514	0.998648
ENT	Other hearing loss (HES)	T	379101	2563	376538	1.02	0.02443	1.00469	0.143	7.34	0.980601	0.998648
ENT	Otalgia and effusion of ear (HES)	T	379101	479	378622	5.25E-05	-9.85486	199.157	1.56E-174	1.76E+165	0.960534	0.998648
ENT	Other disorders of ear (HES)	T	379101	566	378533	4.44E-05	-10.0232	198.834	2.49E-174	7.90E+164	0.395796	0.998648
Cardiovascular	Rheumatic mitral valve diseases (HES)	T	379101	286	378815	9.87E-05	-9.22372	159.292	1.14E-168	8.55E+159	0.961802	0.998648
Cardiovascular	Rheumatic tricuspid valve diseases (HES)	T	379101	262	378839	9.96E-05	-9.21442	195.011	1.00E-170	9.88E+161	0.962313	0.998648
Cardiovascular	Multiple valve diseases (HES)	T	379101	1492	377609	4.83E-05	-9.93741	116.909	1.48E-104	1.58E+95	0.93226	0.998648
Cardiovascular	Essential primary hypertension (HES)	T	379101	70382	308719	0.926	-0.076984	0.227978	0.592	1.45	0.735902	0.998648
Cardiovascular	Hypertensive renal disease (HES)	T	379101	1396	377705	4.99E-05	-9.90512	117.597	3.96E-105	6.29E+95	0.932874	0.998648
Cardiovascular	Acute myocardial infarction (HES)	T	379101	7305	371796	0.348	-10.05449	1.00602	0.0485	2.5	0.294556	0.998648
Cardiovascular	Subsequent myocardial infarction (HES)	T	379101	663	378438	4.03E-05	-10.1188	187.227	1.72E-164	9.47E+154	0.958899	0.998648
Cardiovascular	Other acute ischaemic heart diseases (HES)	T	379101	1278	377823	5.55E-05	-9.79883	116.337	5.20E-104	5.92E+94	0.932869	0.998648
Cardiovascular	Chronic ischaemic heart disease (HES)	T	379101	22951	356150	0.543	-0.610109	0.462592	0.219	1.35	0.187205	0.998648
Cardiovascular	Pulmonary embolism (HES)	T	379101	3296	378705	1.6	0.471255	0.71334	0.396	6.48	0.508845	0.998648
Cardiovascular	Other pulmonary heart diseases (HES)	T	379101	745	378356	3.59	1.27775	1.00631	0.499	25.8	0.204176	0.998648
Cardiovascular	Other diseases of pericardium (HES)	T	379101	973	378128	2.69	0.988	1.00513	0.375	19.3	0.325333	0.998648
Cardiovascular	Nonrheumatic aortic valve disorders (HES)	T	379101	2314	376787	1.14	0.12939	0.10642	0.158	8.18	0.897702	0.998648
Cardiovascular	Cardiomyopathy (HES)	T	379101	1163	377938	5.62E-05	-9.78609	119.887	3.02E-106	1.05E+97	0.393443	0.998648
Cardiovascular	Atrioventricular and left bundle branch block (HES)	T	379101	3286	378515	0.79	-0.236193	0.00611	0.11	5.67	0.814397	0.998648
Cardiovascular	Other conduction disorders (HES)	T	379101	1981	377120	2.62	0.962985	0.715097	0.645	10.6	0.178093	0.998648
Cardiovascular	Cardiac arrest (HES)	T	379101	863	378238	3.07	1.12288	1.00642	0.428	22.1	0.264543	0.998648
Cardiovascular	Paroxysmal tachycardia (HES)	T	379101	2977	376124	1.79	0.580289	0.711312	0.442	7.23	0.415793	0.998648
Cardiovascular	Atrial fibrillation and flutter (HES)	T	379101	13484	365617	1.61	0.47339	0.372336	0.774	3.33	0.203583	0.998648
Cardiovascular	Other cardiac arrhythmias (HES)	T	379101	2381	376720	7.84E-05	-9.45305	72.2306	2.35E+57	4.895876	0.998648	
Cardiovascular	Heart failure (HES)	T	379101	4854	374247	3.99E-05	-10.1296	69.9549	1.13E-64	1.40E+55	0.884868	0.998648
Cardiovascular	Complications and ill defined descriptions of heart disease (HES)	T	379101	3773	375238	1.41	0.346807	0.715589	0.348	5.75	0.627928	0.998648
Cardiovascular	Intracerebral haemorrhage (HES)	T	379101	660	378441	0.000104	-9.37099	118.276	2.18E-105	4.96E+96	0.931985	0.998648
Cardiovascular	Other nontraumatic intracranial haemorrhage (HES)	T	379101	336	378745	7.44E-05	-9.50572	193.041	3.56E-169	1.55E+160	0.960726	0.998648
Cardiovascular	Cerebral infarction (HES)	T	379101	2917	376184	1.85	0.61645	0.715023	0.456	7.52	0.38861	0.998648
Cardiovascular	Stroke not specified as haemorrhage or infarction (HES)	T	379101	968	378133	7.30E-05	-9.52544	117.354	9.32E-105	5.71E+95	0.935303	0.998648
Cardiovascular	Occlusion and stenosis not cerebral infarction (HES)	T	379101	928	378173	8.00E-05	-9.43314	115.013	1.01E-102	6.37E+93	0.934632	0.998648
Cardiovascular	Sequelae of cerebrovascular disease (HES)	T	379101	1161	377940	2.3	0.831502	0.00533	0.32	16.5	0.408185	0.998648
Cardiovascular	Atherosclerosis (HES)	T	379101	1127	377974	6.43E-05	-9.65269	115.032	7.31E-103	5.31E+93	0.933125	0.998648
Cardiovascular	Arterial embolism and thrombosis (HES)	T	379101	839	378262	8.70E-05	-9.3491	116.593	4.94E-104	1.53E+95	0.933089	0.998648
Cardiovascular	Other disorders of arteries and arterioles (HES)	T	379101	1296	377805	5.61E-05	-9.78899	118.6	2.12E-104	1.48E+95	0.933207	0.998648
Cardiovascular	Diseases of capillaries (HES)	T	379101	604	378497	0.000116	-9.05851	120.19	5.73E-107	2.36E+98	0.939921	0.998648
Cardiovascular	Phlebitis and thrombophlebitis (HES)	T	379101	3502	375959	1.5	0.408723	0.713135	0.372	6.09	0.566553	0.998648
Cardiovascular	Other venous embolism and thrombosis (HES)	T	379101	367	378734	6.64E-05	-9.6198	199.511	9.89E-175	4.46E+165	0.961543	0.998648
Cardiovascular	Varicose veins of lower extremities (HES)	T	379101	9985	369116	1.12	0.116379	0.507881	0.415	3.04	0.81756	0.998648
Cardiovascular	Haemorrhoids (HES)	T	379101	21509	357592	1.25	0.226939	0.328284	0.659	2.39	0.489384	0.998648
Digestive system	Oesophageal varices (HES)	T	379101	488	378613	5.18E-05	-9.86818	195.946	8.35E-172	3.21E+162	0.959881	0.998648
Digestive system	Varicose vein of other sites (HES)	T	379101	460	378641	5.64E-05	-9.78321	193.824	5.82E-170	5.46E+160	0.959744</td	

Digestive system	Duodenal ulcer (HES)	T	379101	2818	376283	1.92	0.654745	0.714426	0.474	7.81	0.359425	0.998648
Digestive system	Gastritis and duodenitis (HES)	T	379101	26187	352914	1.07	0.064288	0.329561	0.559	2.03	0.845337	0.998648
Digestive system	Dyspepsia (HES)	T	379101	10739	368632	1.03	0.030031	0.507889	0.381	2.79	0.952849	0.998648
Digestive system	Other diseases of stomach and duodenum (HES)	T	379101	6601	372500	1.27	0.239654	0.58462	0.404	4	0.681857	0.998648
Digestive system	Acute appendicitis (HES)	T	379101	2629	376472	0.986	0.014198	0.00385	0.138	7.05	0.988715	0.998648
Digestive system	Other diseases of appendix (HES)	T	379101	242	378859	1.00E-04	-9.2069	199.186	2.8E-174	3.55E+165	0.963122	0.998648
Digestive system	Inguinal hernia (HES)	T	379101	14392	364704	1.21	0.18674	0.398329	0.552	2.63	0.639207	0.998648
Digestive system	Femoral hernia (HES)	T	379101	558	378543	4.79E-05	-9.94704	196.59	2.18E-172	1.05E+163	0.959646	0.998648
Digestive system	Umbilical hernia (HES)	T	379101	3437	375664	0.721	-0.326648	1.00477	0.101	5.17	0.745108	0.998648
Digestive system	Ventral hernia (HES)	T	379101	3093	376008	5.86E-05	-9.7448	73.2314	2.70E-67	1.27E+58	0.894139	0.998648
Digestive system	Diaphragmatic hernia (HES)	T	379101	24453	354648	0.658	-0.418091	0.418612	0.29	1.5	0.317913	0.998648
Digestive system	Unspecified abdominal hernia (HES)	T	379101	276	378285	8.96E-05	-9.31964	196.604	3.98E-172	2.02E+163	0.962192	0.998648
Digestive system	Crohn's disease (HES)	T	379101	1547	377554	4.31E-05	-10.0528	121.218	2.85E-108	6.50E+98	0.933903	0.998648
Digestive system	Ulcerative colitis (HES)	T	379101	2940	376161	6.09E-05	-9.70647	73.3589	2.19E-67	1.69E+58	0.894735	0.998648
Digestive system	Other noninfective gastroenteritis and colitis (HES)	T	379101	14793	364308	0.92	-0.083645	0.455709	0.377	2.25	0.854368	0.998648
Digestive system	Vascular disorders of intestine (HES)	T	379101	936	378165	7.47E-05	-9.50222	118.86	4.98E-106	1.12E+97	0.936281	0.998648
Digestive system	Paralytic ileus and intestinal obstruction without hernia (HES)	T	379101	3590	375511	0.762	-0.271332	1.0042	0.107	5.46	0.787008	0.998648
Digestive system	Diverticular disease of intestine (HES)	T	379101	24930	354171	1.11	0.103033	0.331781	0.579	2.12	0.755526	0.998648
Digestive system	Irritable bowel syndrome (HES)	T	379101	5022	374079	1.13	0.119489	0.713248	0.278	4.56	0.866955	0.998648
Digestive system	Other functional intestinal disorders (HES)	T	379101	10172	368929	0.54	-0.616945	0.72208	0.134	2.18	0.386357	0.998648
Digestive system	Fissure and fistula of anal and rectal regions (HES)	T	379101	2863	376238	0.91	-0.094473	1.00401	0.127	6.51	0.952033	0.998648
Digestive system	Abscess of anal and rectal regions (HES)	T	379101	1208	377893	5.57E-05	-9.79516	119.396	1.30E-106	2.39E+97	0.934615	0.998648
Digestive system	Other diseases of intestine (HES)	T	379101	13086	366015	0.816	-0.202868	0.508795	0.301	2.21	0.690097	0.998648
Digestive system	Peritonitis (HES)	T	379101	722	378379	3.77	1.32644	1.00477	0.526	27	0.186788	0.998648
Digestive system	Other disorders of peritoneum (HES)	T	379101	2824	376277	1.96	0.671119	0.712703	0.484	7.91	0.436371	0.998648
Digestive system	Alcoholic liver disease (HES)	T	379101	799	378302	3.36	1.21056	1.0077	0.466	24.2	0.229632	0.998648
Digestive system	Hepatic failure (HES)	T	379101	298	378803	8.56E-05	-9.36573	196.459	5.05E-172	1.45E+163	0.961977	0.998648
Digestive system	Other inflammatory liver diseases (HES)	T	379101	623	378478	0.000112	-9.09595	120.386	3.76E-107	3.34E+98	0.393772	0.998648
Digestive system	Cholecystitis (HES)	T	379101	2442	376659	7.73E-05	-9.46812	73.0198	5.40E-67	1.11E+58	0.896831	0.998648
Digestive system	Other diseases of biliary tract (HES)	T	379101	1752	377349	3.95E-05	-10.139	119.958	3.06E-107	5.09E+97	0.932642	0.998648
Digestive system	Intestinal malabsorption (HES)	T	379101	1888	377213	3.51E-05	-10.257	120.633	7.25E-108	1.70E+98	0.93237	0.998648
Digestive system	Postprocedural disorders of digestive system (HES)	T	379101	1429	377672	1.85	0.614188	1.0043	0.258	13.2	0.540831	0.998648
Digestive system	Other diseases of digestive system (HES)	T	379101	848	376073	1.28	0.264647	0.507798	0.473	3.46	0.627446	0.998648
Immuno-inflammation	Cutaneous abscess furuncle and carbuncle (HES)	T	379101	2145	376956	1.25	0.220728	1.00396	0.174	8.92	0.825983	0.998648
Immuno-inflammation	Cellulitis (HES)	T	379101	6570	372531	1.61	0.77069	0.508198	0.595	4.36	0.347861	0.998648
Immuno-inflammation	Pilonidal cyst (HES)	T	379101	452	378469	5.75E-05	-9.7643	192.941	3.35E-169	9.87E+159	0.956363	0.998648
Immuno-inflammation	Other local infections of skin and subcutaneous tissue (HES)	T	379101	1106	377995	6.10E-05	-9.70391	120.457	1.78E-107	2.09E+98	0.395791	0.998648
Immuno-inflammation	Dermatitis due to substances taken internally (HES)	T	379101	436	378665	5.84E-05	-9.74799	198.916	2.79E-174	1.22E+165	0.960915	0.998648
Immuno-inflammation	Other dermatitis (HES)	T	379101	1379	377722	4.91E-05	-9.92178	120.983	5.11E-108	4.72E+98	0.934639	0.998648
Immuno-inflammation	Psoriasis (HES)	T	379101	2058	377043	1.31	0.266626	1.00406	0.182	9.34	0.790587	0.998648
Immuno-inflammation	Lichen planus (HES)	T	379101	501	378600	5.64E-05	-9.78273	196.969	1.22E-172	2.60E+163	0.960388	0.998648
Immuno-inflammation	Urticaria (HES)	T	379101	328	378773	7.69E-05	-9.47304	199.396	1.43E-174	4.12E+165	0.962108	0.998648
Immuno-inflammation	Other erythematous conditions (HES)	T	379101	481	378620	5.28E-05	-9.84945	198.611	4.59E-174	6.07E+164	0.960448	0.998648
Immuno-inflammation	Skin changes due to chronic exposure to nonionizing radiation (HES)	T	379101	2179	376922	8.62E-05	-9.35905	71.3434	1.61E-65	4.61E+56	0.895631	0.998648
Immuno-inflammation	Rosacea (HES)	T	379101	277	378824	9.31E-05	-9.282	197.559	6.56E-173	1.36E+164	0.962527	0.998648
Immuno-inflammation	Follicular cysts of skin and subcutaneous tissue (HES)	T	379101	7583	375118	0.354	-1.03957	1.00351	0.0495	2.53	0.300233	0.998648
Immuno-inflammation	Other follicular disorders (HES)	T	379101	373	378728	7.25E-05	-9.52556	193.283	1.32E-173	3.98E+164	0.961646	0.998648
Immuno-inflammation	Other disorders of pigmentation (HES)	T	379101	706	378395	9.46E-05	-9.26604	120.531	2.39E-107	3.75E+98	0.38722	0.998648
Immuno-inflammation	Seborhoeic keratosis (HES)	T	379101	2813	376288	0.976	-0.023973	1.00443	0.136	6.99	0.980958	0.998648
Immuno-inflammation	Corns and callouses (HES)	T	379101	257	378844	0.00011	-9.13907	194.93	1.29E-170	9.28E+161	0.962688	0.998648
Immuno-inflammation	Other epidermal thickening (HES)	T	379101	608	378493	4.21E-05	-10.0757	196.764	1.37E-172	1.30E+163	0.95916	0.998648
Musculoskeletal	Pyogenic arthritis (HES)	T	379101	335	378766	7.08E-05	-9.5556	198.119	1.61E-173	3.11E+164	0.961532	0.998648
Musculoskeletal	Seropositive rheumatoid arthritis (HES)	T	379101	529	378572	5.13E-05	-9.87741	195.746	1.22E-171	2.15E+162	0.957592	0.998648
Musculoskeletal	Other rheumatoid arthritis (HES)	T	379101	399	378512	4.99E-05	-9.90624	72.3742	1.23E-66	2.01E+57	0.891129	0.998648
Musculoskeletal	Gout (HES)	T	379101	2920	376181	1.75	0.560092	0.717425	0.429	7.14	0.43498	0.998648
Musculoskeletal	Other crystal arthropathies (HES)	T	379101	369	378732	6.62E-05	-9.62235	198.894	1.83E-171	5.27E+161	0.960624	0.998648
Musculoskeletal	Other arthritis (HES)	T	379101	10538	368563	0.803	-0.218842	0.058373	0.255	2.53	0.708389	0.998648
Musculoskeletal	Polyarthrosis (HES)	T	379101	3571	375300	0.833	-0.183293	1.00538	0.116	5.97	0.855338	0.998648
Musculoskeletal	Coxarthrosis (HES)	T	379101	10780	368321	1.28	0.24356	0.458933	0.519	3.14	0.595619	0.998648
Musculoskeletal	Gonarthrosis (HES)	T	379101	18217	360884	0.721	-0.327682	0.45696	0.294	1.76	0.473318	0.998648
Musculoskeletal	Arthrosis of first carpometacarpal joint (HES)	T	379101	1179	377922	2.42	0.883509	1.00573	0.337	17.4	0.379685	0.998648
Musculoskeletal	Other arthrosis (HES)	T	379101	14991	364110	0.734	-0.309906	0.509195	0.27	1.99	0.542777	0.998648
Musculoskeletal	Acquired deformities of fingers and toes (HES)	T	379101	373	378339	0.982	-0.018648	0.587282	0.31	3.1	0.974669	0.998648
Musculoskeletal	Other acquired deformities of limbs (HES)	T	379101	1540	377561	1.72	0.544803	1.00436	0.241	12.3	0.587518	0.998648
Musculoskeletal	Disorders of patella (HES)	T	379101	841	378260	3.03	1.10838	1.00467	0.423	21.7	0.26993	0.998648
Musculoskeletal	Internal derangement of knee (HES)	T	379101	13926	365175	1.31	0.26929	0.388118	0.612	2.8	0.487786	0.998648
Musculoskeletal	Other specific joint derangements (HES)	T	379101	2363	376738	2.22	0.79674	0.712578	0.549	8.97	0.26352	0.998648
Musculoskeletal	Other joint disorders (HES)	T	379101	11928	367173	1.14	0.128521	0.455565	0.466	2.78	0.77856	0.998648
Musculoskeletal	Systemic lupus erythematosus (HES)	T	379101	324	378777	9.35E-05	-9.27806	192.945	5.40E-169	1.62E+160	0.961647	0.998648
Musculoskeletal	Other systemic involvement of connective tissue (HES)	T	379101	1710	377391	4.33E-05	-10.0476	117.861	4.07E-105	4.12E+95	0.931828	0.998648
Musculoskeletal	Scoliosis (HES)	T	379101	942	378159	2.96	1.08655	1.00584	0.413	21.3	0.28032	0.998648
Musculoskeletal	Ankylosing spondylitis (HES)	T	379101	573	378528	4.30E-05	-10.0553	197.173	6.25E-173	2.95E+163	0.959322	0.998648
Musculoskeletal	Other inflammatory spondylopathies (HES)	T	379101	1156	377945	6.43E-05	-9.65244	119.845	6.22E-107	6.64E+97	0.395807	0.998648
Musculoskeletal	Spondylosis (HES)	T	379101	6891	372110	0.813	-0.207452	0.71323	0.201	3.29	0.771157	0.998648
Musculoskeletal	Other spondylopathies (HES)	T	3									

Genitourinary	Other disorders of kidney and ureter (HES)	T	379101	2178	376923	8.44E-05	-0.93804	72.1904	3.00E-66	2.38E+57	0.896614	0.998648
Genitourinary	Cystitis (HES)	T	379101	2647	376454	1.06	-0.060052	1.00453	0.148	7.61	0.95233	0.998648
Genitourinary	Neuromuscular dysfunction of bladder (HES)	T	379101	1508	377593	1.89	0.636192	1.0046	0.264	13.5	0.526552	0.998648
Genitourinary	Other disorders of bladder (HES)	T	379101	8086	371015	1.61	0.476428	0.45924	0.655	3.96	0.299536	0.998648
Genitourinary	Urethral stricture (HES)	T	379101	2967	376134	0.883	-0.124199	1.0044	0.123	6.32	0.901589	0.998648
Genitourinary	Other disorders of urethra (HES)	T	379101	692	378409	9.86E-05	-9.22396	119.861	9.25E-107	1.05E+98	0.938659	0.998648
Genitourinary	Other disorders of urinary system (HES)	T	379101	17515	361586	0.947	-0.054301	0.418736	0.417	2.15	0.896821	0.998648
Genitourinary	Inflammatory diseases of prostate (HES)	T	379101	1436	377665	1.7	0.515193	1.00952	0.235	12.3	0.598483	0.998648
Genitourinary	Other disorders of prostate (HES)	T	379101	1235	377866	5.88E-08	-16.6491	3547.2	0	Inf	0.956255	0.998648
Genitourinary	Hydrocele and spermatocele (HES)	T	379101	1221	377880	5.49E-08	-16.7175	3645.35	0	Inf	0.996341	0.998648
Genitourinary	Orchitis and epididymitis (HES)	T	379101	769	378332	3.18	1.15827	1.00798	0.442	23	0.250513	0.998648
Genitourinary	Redundant prepuce phimosis and paraphimosis (HES)	T	379101	1890	377211	3.53E-08	-17.1592	3654.34	0	Inf	0.96253	0.998648
Genitourinary	Other disorders of penis (HES)	T	379101	1896	377205	3.75E-05	-10.192	110.294	4.89E-99	2.87E+89	0.26374	0.998648
Genitourinary	Benign mammary dysplasia (HES)	T	379101	1624	377477	5.45E-05	-9.81817	110.889	2.22E-99	1.34E+90	0.929447	0.998648
Genitourinary	Inflammatory disorders of breast (HES)	T	379101	430	378671	7.26E-05	-9.52986	187.015	4.65E-164	1.13E+155	0.95936	0.998648
Genitourinary	Hypertrophy of breast (HES)	T	379101	719	378382	0.000106	-9.15208	119.215	3.53E-106	3.19E+97	0.938807	0.998648
Genitourinary	Unspecified lump in breast (HES)	T	379101	1403	377698	6.15E-05	-9.69727	112.239	1.77E-100	2.13E+91	0.93115	0.998648
Genitourinary	Other disorders of breast (HES)	T	379101	1110	377991	2.62	0.964691	1.00767	0.364	18.9	0.33833	0.998648
Genitourinary	Salpingitis and oophoritis (HES)	T	379101	472	378269	6.46E-08	-16.5548	5955.72	0	Inf	0.997782	0.998648
Genitourinary	Inflammatory disease of uterus except cervix (HES)	T	379101	260	378841	1.19E-07	-15.9463	5977.54	0	Inf	0.997871	0.998648
Genitourinary	Inflammatory disease of cervix uteri (HES)	T	379101	1044	378075	7.70E-08	-16.3796	3631.58	0	Inf	0.996401	0.998648
Genitourinary	Other female pelvic inflammatory diseases (HES)	T	379101	2493	376608	2.42	0.888342	0.179734	0.59	9.92	0.21966	0.998648
Genitourinary	Other inflammation of vagina and vulva (HES)	T	379101	690	378411	4.37E-08	-16.9467	6017.17	0	Inf	0.997753	0.998648
Genitourinary	Vulvovaginal ulceration and inflammation (HES)	T	379101	202	378899	5.91E-08	-16.6447	9824.75	0	Inf	0.998648	0.998648
Genitourinary	Endometriosis (HES)	T	379101	5557	375544	6.54E-08	-16.5429	2172.91	0	Inf	0.993926	0.998648
Genitourinary	Female genital prolapse (HES)	T	379101	10411	368690	0.269	-1.31134	1.00816	0.0374	1.94	0.19335	0.998648
Genitourinary	Noninflammatory ovary fallop (HES)	T	379101	4666	374435	4.69E-08	-16.8758	215.01	0	Inf	0.993864	0.998648
Genitourinary	Poly of female genital tract (HES)	T	379101	9793	369304	1.49	0.396364	0.464129	0.598	3.69	0.393107	0.998648
Genitourinary	Other noninflammatory disorders of uterus except cervix (HES)	T	379101	4717	374384	4.48E-08	-16.9215	2205.74	0	Inf	0.993879	0.998648
Genitourinary	Erosion and ectropion of cervix uteri (HES)	T	379101	830	378271	1.00E-07	-16.1114	3558.13	0	Inf	0.996387	0.998648
Genitourinary	Dysplasia of cervix uteri (HES)	T	379101	1404	377697	5.97E-08	-16.6338	3608.08	0	Inf	0.996322	0.998648
Genitourinary	Other noninflammatory disorders of cervix uteri (HES)	T	379101	1621	377480	1.78	0.57741	0.100785	0.247	12.8	0.566663	0.998648
Genitourinary	Other noninflammatory disorders of vagina (HES)	T	379101	1392	377709	6.08E-05	-9.70856	110.219	9.19E-99	4.02E+89	0.92809	0.998648
Genitourinary	Other noninflammatory disorders of vulva and perineum (HES)	T	379101	1719	377382	1.74	0.556652	1.00758	0.242	12.6	0.580629	0.998648
Genitourinary	Excessive frequent and irregular menstruation (HES)	T	379101	11974	367127	1.02	0.016792	0.520058	0.367	2.82	0.374247	0.998648
Genitourinary	Other abnormal uterine and vaginal bleeding (HES)	T	379101	3736	375365	1.67	0.511886	0.178185	0.408	6.83	0.476418	0.998648
Genitourinary	Pain with female genital (HES)	T	379101	3073	376028	7.53E-08	-16.4015	216.36	0	Inf	0.993956	0.998648
Genitourinary	Menopausal and other perimenopausal disorders (HES)	T	379101	9413	369688	0.607	-0.498599	0.179649	0.148	2.49	0.488412	0.998648
Genitourinary	Female infertility (HES)	T	379101	923	378178	5.84E-08	-16.6556	5491.54	0	Inf	0.99758	0.998648
Genitourinary	Postprocedural disorders of genitourinary system (HES)	T	379101	1063	378038	6.63E-05	-9.62311	118.654	6.63E-106	6.64E+96	0.935373	0.998648
Gynaecology and Obstetrics	Ectopic pregnancy (HES)	T	379101	264	378387	8.77E-08	-16.2489	8918.05	0	Inf	0.998546	0.998648
Gynaecology and Obstetrics	Other abnormal products of conception (HES)	T	379101	1191	377910	4.67E-05	-9.97171	165.918	2.74E-146	7.97E+136	0.952076	0.998648
Gynaecology and Obstetrics	Spontaneous abortion (HES)	T	379101	1258	377843	1.08E-07	-16.0433	333.68	0	Inf	0.996159	0.998648
Gynaecology and Obstetrics	Gestational hypertension without significant proteinuria (HES)	T	379101	427	378674	5.07E-08	-16.797	8807.67	0	Inf	0.998478	0.998648
Gynaecology and Obstetrics	Gestational hypertension with significant proteinuria (HES)	T	379101	289	378182	7.46E-08	-16.4105	8877.31	0	Inf	0.998525	0.998648
Gynaecology and Obstetrics	Unspecified maternal hypertension (HES)	T	379101	540	378563	1.10E-07	-16.0232	533.75	0	Inf	0.997603	0.998648
Gynaecology and Obstetrics	Haemorrhage in early pregnancy (HES)	T	379101	836	378265	7.74E-08	-16.3746	5369.23	0	Inf	0.997567	0.998648
Gynaecology and Obstetrics	Excessive vomiting in pregnancy (HES)	T	379101	202	378899	1.13E-07	-15.9969	8827.78	0	Inf	0.998554	0.998648
Gynaecology and Obstetrics	Infections of genitourinary tract in pregnancy (HES)	T	379101	212	378889	1.24E-07	-15.9038	8726.66	0	Inf	0.998546	0.998648
Gynaecology and Obstetrics	Maternal care for related to pregnancy (HES)	T	379101	1641	377460	1.03E-07	-16.0993	3231.98	0	Inf	0.996027	0.998648
Gynaecology and Obstetrics	Multiple gestation (HES)	T	379101	258	378483	8.59E-08	-16.2705	8796.48	0	Inf	0.99852	0.998648
Gynaecology and Obstetrics	Maternal care for known or suspected malpresentation of fetus (HES)	T	379101	990	378111	5.99E-08	-16.6309	5313.48	0	Inf	0.997503	0.998648
Gynaecology and Obstetrics	Maternal care for known or suspected abnormality of pelvic organs (HES)	T	379101	1384	377717	4.13E-08	-17.0026	5338.78	0	Inf	0.997459	0.998648
Gynaecology and Obstetrics	Maternal care fetal abnormality and damage (HES)	T	379101	238	378693	9.18E-08	-16.2035	889.25	0	Inf	0.998456	0.998648
Gynaecology and Obstetrics	Maternal care for other known or suspected fetal problems (HES)	T	379101	1716	377385	9.51E-08	-16.1682	3220.73	0	Inf	0.995995	0.998648
Gynaecology and Obstetrics	Other disorders of amniotic fluid and membranes (HES)	T	379101	236	378695	8.64E-08	-16.2647	8816.30	0	Inf	0.998527	0.998648
Gynaecology and Obstetrics	Premature rupture of membranes (HES)	T	379101	1011	378090	6.22E-08	-16.5924	5297.74	0	Inf	0.997493	0.998648
Gynaecology and Obstetrics	Placental disorders (HES)	T	379101	225	378786	1.09E-07	-16.0276	8711.78	0	Inf	0.998532	0.998648
Gynaecology and Obstetrics	Antepartum haemorrhage (HES)	T	379101	588	378513	1.00E-07	-16.1178	5324.11	0	Inf	0.997585	0.998648
Gynaecology and Obstetrics	False labour (HES)	T	379101	973	378128	6.47E-08	-16.5538	5290.43	0	Inf	0.997503	0.998648
Gynaecology and Obstetrics	Prolonged pregnancy (HES)	T	379101	1102	377999	5.49E-08	-16.7182	5323.05	0	Inf	0.997494	0.998648
Gynaecology and Obstetrics	Preterm delivery (HES)	T	379101	602	378499	1.04E-07	-16.0817	5350.17	0	Inf	0.997602	0.998648
Gynaecology and Obstetrics	Abnormalities of forces of labour (HES)	T	379101	405	378696	5.80E-08	-16.6636	8759.15	0	Inf	0.998482	0.998648
Gynaecology and Obstetrics	Long labour (HES)	T	379101	1773	377328	9.76E-08	-16.1427	3188.33	0	Inf	0.995956	0.998648
Gynaecology and Obstetrics	Obstructed labour malpresentation of fetus (HES)	T	379101	382	378719	6.38E-08	-16.5678	8800.67	0	Inf	0.998498	0.998648
Gynaecology and Obstetrics	Other obstructed labour (HES)	T	379101	309	378792	7.56E-08	-16.3792	8740.77	0	Inf	0.998503	0.998648
Gynaecology and Obstetrics	Labour and delivery complicated by fetal stress (HES)	T	379101	3031	376070	1.49	0.400899	1.03342	0.197	11.3	0.698065	0.998648
Gynaecology and Obstetrics	Labour and delivery complicated by umbilical cord complications (HES)	T	379101	570	378531	9.17E-08	-16.2042	5413.19	0	Inf	0.997612	0.998648
Gynaecology and Obstetrics	Perineal laceration during delivery (HES)	T	379101	4945	374156	0.896	-0.109482	1.03055	0.118	6.82	0.915761	0.998648
Gynaecology and Obstetrics	Postpartum haemorrhage (HES)	T	379101	1204	377897	5.25E-08	-16.7623	5295.99	0	Inf	0.997476	0.998648
Gynaecology and Obstetrics	Retained placenta and membranes without haemorrhage (HES)	T	379101	203	378894	1.01E-07	-16.1076	8886.16	0	Inf	0.998554	0.998648
Gynaecology and Obstetrics	Other complications of labour and delivery (HES)	T	379101	696	378405	9.05E-08	-16.2179	5336.12	0	Inf	0.997575	0.998648
Gynaecology and Obstetrics	Single spontaneous delivery (HES)	T	379101	1836	377265	8.55E-08	-16.2745	3233.88	0	Inf	0.995985	0.998648
Gynaecology and Obstetrics	Single delivery by caesarean section (HES)	T	379101	504	378597	1.00E-07	-16.1116	5393.15	0	Inf	0.997616	0.998648
Gynaecology and Obstetrics	Other maternal diseases complicating pregnancy (HES)	T	379101	1582	377519	3.15	1.14688	1.03119	0.417	23.8	0.260057	0.998648
Genitourinary	Cystic kidney disease (HES)	T	379101	414	378687	5.88E-05	-9.74063	198.465	6.81E-174	5.09E+164	0.960856	0.998648
Genitourinary	Other congenital											

Symptoms	Hyperhidrosis (HES)	T	379101	544	378557	4.62E-05	-9.9826	198.325	7.03E-174	3.04E+164	0.959856	0.998648
Symptoms	Symptoms and signs concerning food and fluid intake (HES)	T	379101	589	378325	0.934	-0.98165	0.712785	0.231	3.78	0.923813	0.998648
Symptoms	Other general symptoms and signs (HES)	T	379101	358	378743	7.45E-05	-9.50447	197.343	7.77E-173	7.15E+163	0.961587	0.998648
Symptoms	Unknown and unspecified causes of morbidity (HES)	T	379101	14557	364544	1.48	0.939145	0.364559	0.725	3.03	0.28085	0.998648
Symptoms	Abnormality of white blood cells (HES)	T	379101	236	378865	0.000109	-9.12305	199.132	3.41E-174	3.49E+165	0.963458	0.998648
Symptoms	Elevated blood glucose level (HES)	T	379101	625	378476	0.000114	-9.07554	119.747	1.34E-106	9.76E-97	0.39587	0.998648
Symptoms	Abnormal serum enzyme levels (HES)	T	379101	226	378875	0.000115	-9.06636	195.043	1.09E-170	1.22E+162	0.962925	0.998648
Symptoms	Other abnormal immunological findings in serum (HES)	T	379101	247	378854	0.000107	-9.1419	188.6	3.09E-165	3.71E+156	0.96134	0.998648
Symptoms	Other abnormal findings of blood chemistry (HES)	T	379101	5815	373286	1.81	0.592584	0.513176	0.662	4.95	0.248198	0.998648
Symptoms	Isolated proteinuria (HES)	T	379101	277	378824	9.17E-05	-9.29735	196.703	3.35E-172	2.51E+163	0.962301	0.998648
Symptoms	Other abnormal findings in urine (HES)	T	379101	297	378804	8.63E-05	-9.35712	197.875	3.17E-173	2.35E+164	0.962284	0.998648
Symptoms	Abnormal findings in specimens from female genital organs (HES)	T	379101	132	377893	6.32E-08	-16.5773	3623.52	0	Inf	0.99635	0.998648
Symptoms	Abnormal findings on diagnostic imaging of CNS (HES)	T	379101	319	378782	7.99E-05	-9.43512	198.884	4.06E-174	1.57E+165	0.962162	0.998648
Symptoms	Abnormal findings on diagnostic imaging of lung (HES)	T	379101	2263	376838	8.83E-05	-9.33463	71.7457	7.50E-66	1.04E+57	0.896482	0.998648
Symptoms	Abnormal findings on diagnostic imaging of other body structures (HES)	T	379101	2807	376294	0.952	-0.049551	1.00418	0.133	6.81	0.960645	0.998648
Symptoms	Abnormal result of function studies (HES)	T	379101	3857	375244	1.44	0.362982	0.712984	0.355	5.81	0.61068	0.998648
Other	Poisoning by nonopioid analgesics antipyretics and antirheumatics (HES)	T	379101	1567	377534	4.64E-05	-9.97714	119.569	7.72E-107	2.79E+97	0.9335	0.998648
Other	Poisoning by antiepileptic hypnotic antiparkinsonism drugs (HES)	T	379101	851	378250	8.19E-05	-9.40957	120.019	5.64E-107	1.19E+98	0.937509	0.998648
Other	Poisoning by psychotropic drugs (HES)	T	379101	1062	378039	7.03E-05	-9.56267	119.001	4.59E-106	1.39E+97	0.935953	0.998648
Other	Poisoning by diuretics and other drugs (HES)	T	379101	335	378766	8.26E-05	-9.40158	196.329	6.29E-172	1.09E+163	0.961806	0.998648
Other	Toxic effect of alcohol (HES)	T	379101	912	378189	8.25E-05	-9.40278	118.85	5.61E-106	1.21E+97	0.936941	0.998648
Medication	Tetracyclines	T	379101	2244	376877	1.24	0.216231	1.0039	0.174	8.88	0.829462	0.998648
Medication	Beta lactam antibiotics penicillins	T	379101	1102	377999	6.03E-05	-9.71545	121.151	4.52E-107	8.06E+98	0.936084	0.998648
Medication	Other beta lactam antibiotics	T	379101	374	378727	7.86E-05	-9.45126	192.94	4.59E-169	1.35E+160	0.960931	0.998648
Medication	Sulfonamides and trimethoprim	T	379101	595	378506	4.47E-05	-10.0159	197.714	2.35E-173	8.87E+163	0.959598	0.998648
Medication	Aminoglycoside antibiotics	T	379101	622	378479	0.000108	-9.13035	120.357	3.84E-107	3.05E+98	0.93935	0.998648
Medication	Combinations of antibiotics	T	379101	595	378506	0.000117	-9.05453	120.95	1.30E-107	1.05E+99	0.940325	0.998648
Medication	Other antibacterials	T	379101	1343	377758	5.26E-05	-9.85374	120.344	1.91E-107	1.44E+98	0.937472	0.998648
Medication	Antimycotics for systemic use	T	379101	389	378712	6.32E-05	-9.66922	198.809	3.72E-174	1.07E+165	0.96121	0.998648
Medication	Direct acting antivirals	T	379101	823	378276	3.04	-1.1027	1.00468	0.424	21.7	0.269113	0.998648
Medication	Antimetabolites	T	379101	2405	376696	8.01E-05	-9.43263	72.995	5.87E-65	1.09E+58	0.97181	0.998648
Medication	Other antineoplastic agents	T	379101	1117	377984	6.68E-05	-9.61331	119.682	8.90E-107	5.02E+97	0.93598	0.998648
Medication	Hormones and related agents	T	379101	576	378345	8.99E-05	-9.31647	119.948	7.11E-107	1.14E+98	0.93809	0.998648
Medication	Immunosuppressants	T	379101	3722	375379	0.73	-0.315269	1.00365	0.102	5.22	0.753429	0.998648
Medication	Antiinflammatory antirheumatic agents in combination	T	379101	53678	325423	0.803	-0.219909	0.265981	0.477	1.35	0.408358	0.998648
Medication	Topical products for joint and muscular pain	T	379101	62133	316968	0.779	-0.25024	0.247234	0.48	1.26	0.311463	0.998648
Medication	Muscle relaxants centrally acting agents	T	379101	555	378546	4.51E-05	-10.0074	199.404	8.27E-175	2.45E+165	0.959794	0.998648
Medication	Antigout preparations	T	379101	4574	374527	0.53	-0.634893	1.00766	0.0735	3.82	0.528653	0.998648
Medication	Other drugs for disorders of the musculo skeletal system	T	379101	2679	376422	7.63E-05	-9.48033	71.1345	2.15E-65	2.71E+56	0.893977	0.998648
Medication	Anesthetics general	T	379101	221	378880	0.000111	-9.10356	199.074	3.90E-174	3.17E+165	0.963526	0.998648
Medication	Opioids	T	379101	102622	276839	1.1	0.098727	0.186249	0.766	1.59	0.950605	0.998648
Medication	Other analgesics and antipyretics	T	379101	121055	250846	1.13	-0.118501	0.177269	0.795	1.59	0.503824	0.998648
Medication	Antimigraine preparations	T	379101	5449	376552	3.54E-05	-10.2479	71.2128	8.55E-66	1.47E+56	0.858575	0.998648
Medication	Antiepileptics	T	379101	6896	372205	1.18	0.164602	0.583682	0.376	3.71	0.775574	0.998648
Medication	Anticholinergic agents	T	379101	240	378861	0.000104	-9.16664	198.383	1.42E-173	7.69E+164	0.963145	0.998648
Medication	Dopaminergic agents	T	379101	1188	377913	2.32	0.839691	0.90456	0.323	16.6	0.403222	0.998648
Medication	Antipsychotics	T	379101	2900	376181	0.916	-0.08747	0.10362	0.128	6.55	0.30549	0.998648
Medication	Anxiolytics	T	379101	1664	377437	4.11E-05	-10.1	120.939	4.66E-108	3.62E+98	0.93443	0.998648
Medication	Hypnotics and sedatives	T	379101	3007	376094	1.85	0.614547	0.713172	0.457	7.48	0.388848	0.998648
Medication	Antidepressants	T	379101	29214	349887	1.04	0.04014	0.315019	0.561	1.93	0.898607	0.998648
Medication	Psycholeptics and psychoanaleptics in combination	T	379101	12227	366874	0.445	-0.810005	0.71283	0.11	1.8	0.255456	0.998648
Medication	Anti dementia drugs	T	379101	2265	376836	8.78E-05	-9.34078	72.0914	3.78E-66	2.04E+57	0.898608	0.998648
Medication	Drugs used in addictive disorders	T	379101	648	378453	0.000109	-9.12763	120.538	2.70E-107	4.36E+98	0.939638	0.998648
Medication	Antvertigo preparations	T	379101	1504	377597	4.89E-05	-9.92596	119.359	1.13E-106	1.95E-97	0.933724	0.998648
Medication	Agents against amoebiasis and other protozoal diseases	T	379101	660	378441	0.000105	-9.15705	120.877	1.35E-107	8.24E+98	0.939614	0.998648
Medication	Antimalarials	T	379101	3446	376565	5.86E-05	-9.74508	71.8869	3.77E-66	9.10E+56	0.892162	0.998648
Medication	Throat preparations	T	379101	49826	329275	0.821	-0.197469	0.267077	0.486	1.39	0.459582	0.998648
Medication	Expectorants excl combinations with cough suppressants	T	379101	1117	377984	6.91E-05	-9.58016	116.632	3.72E-104	1.28E+95	0.934529	0.998648
Medication	Cough suppressants excl combinations with expectorants	T	379101	2402	376699	8.12E-05	-9.49195	72.9549	6.44E-107	1.02E+58	0.937721	0.998648
Medication	Antihistamines for systemic use	T	379101	13321	365780	1.2	0.18222	0.417437	0.529	2.72	0.624529	0.998648
Medication	Antifungives	T	379101	4005	375096	2.06	0.722084	0.583841	0.656	6.47	0.216168	0.998648
Medication	Antinflammatory agents	T	379101	18165	360936	0.884	-0.128833	0.41773	0.39	2.01	0.768721	0.998648
Medication	Antiflammatory agents and antiinfectives in combination	T	379101	17347	361754	0.767	-0.265364	0.455816	0.314	1.87	0.56045	0.998648
Medication	Antiglaucoma preparations and miotics	T	379101	4850	374251	1.11	0.106394	0.71396	0.274	4.51	0.881538	0.998648
Medication	Mydratrics and cycloplegics	T	379101	287	378184	9.16E-05	-9.29771	198.607	8.02E-174	1.05E+165	0.962661	0.998648
Medication	Decongestants and antiallergics	T	379101	420	378681	6.08E-05	-9.70738	198.356	2.55E-174	1.44E+165	0.96109	0.998648
Medication	Surgical aids	T	379101	1057	378044	7.63E-05	-9.48039	116.704	3.49E-104	1.67E+95	0.935256	0.998648
Medication	Chapter p Chapter X Diseases of the respiratory system BIN (HES)	T	379101	9049	370052	1.57	0.448144	0.456081	0.64	3.83	0.325806	0.998648
Medication	Antineflectives	T	379101	1041	378060	6.66E-05	-9.61664	120.822	9.50E-108	4.67E+98	0.936562	0.998648
Medication	Corticosteroids	T	379101	6720	372831	1.28	0.245137	0.58406	0.407	4.01	0.674695	0.998648
Medication	Corticosteroids and antineflectives in combination 1	T	379101	5806	372925	1.39	0.329638	0.584049	0.443	4.37	0.527481	0.998648
Medication	Antineflectives	T	379101	956	378145	7.32E-05	-9.52206	120.717	1.28E-107	4.18E+98	0.937129	0.998648
Medication	Corticosteroids	T	379101	4111	374990	1.31	0.268545	0.712821	0.323	5.29	0.70637	0.998648
Medication	Corticosteroids and antineflectives in combination 2	T	379101	6221	372880	1.29	0.254503	0.584071	0.411	4.05	0.663026	0.998648
Medication	All other therapeutic products	T	379101	3575	375544	1.57	0.448109	0.713057	0.387	6.33	0	

ENT	Mouth salivary gland surgery (self-reported)	T	379101	2330	376771	7.94E-05	-9.44042	73.3989	2.64E-67	2.39E+58	0.89766	0.998648
Operations and Procedures	Renal kidney transplant (self-reported)	T	379101	252	378489	9.53E-05	-9.25888	198.356	1.36E-173	6.65E+164	0.96277	0.998648
Operations and Procedures	Percutaneous open kidney stone surgery lithotripsy (self-reported)	T	379101	2177	376924	8.22E-05	-9.40587	72.3246	2.24E-66	3.01E+57	0.896526	0.998648
Operations and Procedures	Prostate operation (self-reported)	T	379101	859	378242	3.32E-08	-17.2196	5708.95	0	Inf	0.997593	0.998648
Operations and Procedures	Radical prostatectomy (self-reported)	T	379101	1237	377864	1.93	0.659243	1.01356	0.265	14.1	0.51542	0.998648
Operations and Procedures	Transurethral resection of prostate tур (self-reported)	T	379101	1932	377169	2.67	0.980877	0.729818	0.638	11.1	0.178948	0.998648
Operations and Procedures	Testicular scrotal operation (self-reported)	T	379101	2430	376761	0.962	-0.038977	1.00768	0.133	6.93	0.891146	0.998648
Operations and Procedures	Removal of testicle orchidectomy (self-reported)	T	379101	1211	377890	5.88E-05	-9.74183	110.501	5.11E-99	6.75E+89	0.892749	0.998648
Operations and Procedures	Vasectomy (self-reported)	T	379101	9426	369679	1.26	0.228651	0.463981	0.506	3.12	0.622153	0.998648
Operations and Procedures	Other urological surgery (self-reported)	T	379101	990	378111	2.64	0.969225	1.00457	0.368	18.9	0.334637	0.998648
Metabolic	Thyroid surgery (self-reported)	T	379101	586	378515	4.57E-05	-9.99264	192.84	3.25E-169	6.44E+159	0.958673	0.998648
Metabolic	Thyroid radioablation therapy (self-reported)	T	379101	360	378741	7.85E-05	-9.45217	194.521	2.07E-170	2.98E+161	0.961244	0.998648
Metabolic	Parathyroidectomy (self-reported)	T	379101	531	378570	4.80E-05	-9.94363	194.571	1.15E-170	2.01E+161	0.959242	0.998648
Operations and Procedures	Bone surgery joint surgery (self-reported)	T	379101	3136	375965	5.52E-05	-9.80535	73.4398	1.69E-67	1.80E+58	0.893786	0.998648
Operations and Procedures	Muscle soft tissue surgery (self-reported)	T	379101	10926	368175	0.467	-0.76074	0.711989	0.116	1.89	0.285308	0.998648
Operations and Procedures	Hip replacement revision (self-reported)	T	379101	6037	373064	1.36	0.308711	0.587682	0.43	4.31	0.599373	0.998648
Operations and Procedures	Knee replacement revision (self-reported)	T	379101	4614	374487	0.574	-0.554633	1.00593	0.08	4.12	0.581385	0.998648
Operations and Procedures	Spine or back surgery (self-reported)	T	379101	4637	374464	1.11	0.10301	0.712368	0.274	4.48	0.88052	0.998648
Gynaecology and Obstetrics	Gynaecological surgery (self-reported)	T	379101	2168	376993	2.59	0.951003	0.718023	0.634	10.6	0.185346	0.998648
Gynaecology and Obstetrics	Bilateral oophorectomy (self-reported)	T	379101	15863	363238	1.13	0.125207	0.429906	0.488	2.63	0.770866	0.998648
Gynaecology and Obstetrics	Unilateral oophorectomy (self-reported)	T	379101	2254	376847	3.92E-05	-10.1469	110.3	5.06E-99	3.04E+89	0.892703	0.998648
Gynaecology and Obstetrics	Hysterectomy (self-reported)	T	379101	37549	341552	0.746	-0.293616	0.346683	0.378	1.47	0.397035	0.998648
Gynaecology and Obstetrics	Endometrial ablation (self-reported)	T	379101	1925	377176	4.49E-05	-10.0115	109.853	1.39E-98	1.45E+89	0.927385	0.998648
Gynaecology and Obstetrics	Vaginal prolapse colposuspension (self-reported)	T	379101	3479	375622	6.77E-08	-16.5088	217.72	0	Inf	0.939343	0.998648
Gynaecology and Obstetrics	Sterilisation (self-reported)	T	379101	16084	363017	0.897	-0.108583	0.464712	0.361	2.23	0.815252	0.998648
Gynaecology and Obstetrics	Intrauterine contraceptive device insertion removal (self-reported)	T	379101	624	378477	4.91E-05	-0.92167	179.032	1.98E-157	1.22E+148	0.955803	0.998648
Gynaecology and Obstetrics	Breast surgery (self-reported)	T	379101	1320	377783	6.72E-05	-9.6778	112.045	2.64E-100	1.48E+91	0.931160	0.998648
Gynaecology and Obstetrics	Lumpectomy (self-reported)	T	379101	12746	366355	0.66	0.415114	0.58865	0.208	2.1	0.481591	0.998648
Gynaecology and Obstetrics	Mammoplasty cosmetic operation on breast (self-reported)	T	379101	2699	376402	8.54E-05	-9.36827	67.3328	4.14E-62	1.76E+53	0.889344	0.998648
Cardiovascular	Venous surgery procedures (self-reported)	T	379101	246	378855	0.000107	-9.13857	197.792	4.65E-173	2.48E+164	0.961348	0.998648
Operations and Procedures	Hernia surgery (self-reported)	T	379101	2430	376671	1.01	0.006845	1.00548	0.14	7.23	0.94566	0.998648
Operations and Procedures	Umbilical hernia repair (self-reported)	T	379101	3357	375744	1.54	0.430596	0.712938	0.38	6.22	0.545862	0.998648
Operations and Procedures	Incisional hernia repair (self-reported)	T	379101	1461	377640	1.77	0.572506	1.00454	0.247	12.7	0.568732	0.998648
Operations and Procedures	Bladder surgery (self-reported)	T	379101	2401	376700	7.84E-05	-9.45362	72.6581	1.11E-66	5.52E+57	0.896479	0.998648
Operations and Procedures	Transurethral resection bladder tumour turb (self-reported)	T	379101	458	378643	5.83E-05	-9.74963	190.128	8.42E-167	4.04E+157	0.595103	0.998648
Operations and Procedures	Cystectomy (self-reported)	T	379101	1986	377115	9.05E-05	-9.30984	73.4485	2.73E-67	3.00E+58	0.891396	0.998648
Operations and Procedures	Urethral surgery (self-reported)	T	379101	686	378415	3.72	1.31833	1.00458	0.519	26.7	0.19094	0.998648
Metabolic	Thyroidectomy partial thyroidectomy (self-reported)	T	379101	3577	375524	1.58	0.454571	0.715364	0.388	6.4	0.525142	0.998648
Eye	Cataract extraction lens implant (self-reported)	T	379101	4095	375006	1.94	0.665061	0.586453	0.615	6.13	0.258211	0.998648
Eye	Glaucoma surgery trabeculectomy (self-reported)	T	379101	535	378566	4.71E-05	-9.6274	194.428	1.49E-170	1.49E+161	0.595133	0.998648
Eye	Retinal operation vitrectomy (self-reported)	T	379101	2253	376848	1.12	0.11655	1.00472	0.157	8.05	0.097651	0.998648
Operations and Procedures	Reduction or fixation of bone fracture (self-reported)	T	379101	17474	361627	1.47	0.38655	0.329028	0.772	2.81	0.240407	0.998648
Operations and Procedures	Other thoracic surgery (self-reported)	T	379101	1195	377906	2.12	0.749804	1.00449	0.296	15.2	0.455395	0.998648
Operations and Procedures	Stomach surgery (self-reported)	T	379101	2197	376904	1.24	0.214709	1.00451	0.173	8.88	0.307476	0.998648
Operations and Procedures	Oesophageal surgery (self-reported)	T	379101	447	378654	5.28E-05	-9.48981	195.972	8.08E-172	3.44E+162	0.595914	0.998648
Operations and Procedures	Pancreas surgery (self-reported)	T	379101	205	378984	0.000118	-9.04867	198.56	1.13E-173	1.22E+165	0.63652	0.998648
Operations and Procedures	Splenectomy (self-reported)	T	379101	791	378310	8.22E-05	-9.40568	120.918	9.71E-108	6.95E+98	0.397399	0.998648
Operations and Procedures	Cholecystectomy gall bladder removal (self-reported)	T	379101	14872	364229	0.558	-0.582852	0.586275	0.177	1.76	0.320144	0.998648
Operations and Procedures	Appendicectomy (self-reported)	T	379101	45428	333673	1.35	0.297854	0.232485	0.854	2.12	0.200132	0.998648
Operations and Procedures	Bowel resection (self-reported)	T	379101	706	378395	9.84E-05	-9.22653	120.279	4.07E-107	2.38E+98	0.938855	0.998648
Operations and Procedures	Anal surgery (self-reported)	T	379101	2357	376744	2.17	0.776097	0.71285	0.537	8.79	0.27675	0.998648
Operations and Procedures	Large bowel resection colostomy (self-reported)	T	379101	1039	378062	2.55	0.935675	1.00476	0.356	18.3	0.351729	0.998648
Operations and Procedures	Small bowel resection (self-reported)	T	379101	657	378444	0.000103	-9.18546	120.853	1.38E-107	7.64E+98	0.939415	0.998648
Operations and Procedures	Rectal or colon polypectomy (self-reported)	T	379101	1567	377534	1.74	0.555386	1.00488	0.243	12.5	0.508475	0.998648
Operations and Procedures	Colectomy hemicolecotomy (self-reported)	T	379101	1636	377465	1.63	0.468556	1.00405	0.227	11.7	0.62812	0.998648
Operations and Procedures	Other bowel surgery (self-reported)	T	379101	2282	376819	8.19E-05	-9.40967	73.1597	4.35E-67	1.54E+58	0.89766	0.998648
Operations and Procedures	Brain surgery (self-reported)	T	379101	1560	377541	4.15E-05	-10.0889	121.18	2.94E-108	5.87E+98	0.933649	0.998648
Operations and Procedures	Intracranial haematoma drainage (self-reported)	T	379101	205	378896	0.000123	-9.04056	196.703	4.9E-172	3.36E+163	0.963488	0.998648
Operations and Procedures	Spinal cord surgery (self-reported)	T	379101	508	378933	4.77E-05	-9.95088	199.073	1.68E-174	1.36E+165	0.961034	0.998648
Operations and Procedures	Peripheral nerve surgery (self-reported)	T	379101	794	378307	8.45E-05	-9.3786	121.114	6.80E-108	1.05E+99	0.398277	0.998648
Operations and Procedures	Pituitary surgery (self-reported)	T	379101	215	378884	0.00012	-9.0311	198.824	6.89E-174	2.08E+165	0.963777	0.998648
Operations and Procedures	Skin operation or plastic surgery (self-reported)	T	379101	3215	375886	0.806	-0.215827	1.00365	0.113	5.76	0.829734	0.998648
Operations and Procedures	Fertility treatment procedures (self-reported)	T	379101	966	378135	6.83E-05	-9.35741	110.994	2.86E-99	2.61E+90	0.932813	0.998648
Operations and Procedures	Caesarean section caesarian section (self-reported)	T	379101	19341	359760	1.06	0.059135	0.339847	0.485	2.32	0.882427	0.998648
ENT	Wisdom teeth surgery (self-reported)	T	379101	15032	364069	0.985	-0.014751	0.418893	0.434	2.24	0.971090	0.998648
ENT	Maxillo facial surgery (self-reported)	T	379101	2821	376280	6.19E-05	-9.69046	73.1792	3.16E-67	1.21E+58	0.894651	0.998648
Operations and Procedures	Oesophageal fundoplication hiatus hernia surgery (self-reported)	T	379101	906	378195	7.23E-05	-9.53448	120.513	1.89E-107	2.77E+98	0.936941	0.998648
Operations and Procedures	Haemoroidectomy piles surgery banding of piles (self-reported)	T	379101	6713	372388	0.389	-0.945444	1.00248	0.0543	2.78	0.346494	0.998648
Operations and Procedures	Pilonidal sinus surgery anal (self-reported)	T	379101	2174	376927	8.13E-05	-9.41697	72.3268	2.21E-66	2.99E+57	0.896408	0.998648
Operations and Procedures	Abdominal pelvic adhesion surgery (self-reported)	T	379101	1192	377909	5.99E-05	-9.73036	119.543	1.05E-106	3.42E+97	0.931576	0.998648
Operations and Procedures	Laparotomy nos (self-reported)	T	379101	2106	376995	1.3	0.265729	1.00425	0.182	9.34	0.791315	0.998648
Operations and Procedures	Nephrectomy kidney removed (self-reported)	T	379101	1533	377748	1.95	0.66788	1.00433	0.272	14	0.506052	0.998648
Operations and Procedures	Anterior posterior repair bladder uterus (self-reported)	T	379101	3518	375583	0.852	-0.159915	1.00877	0.118	6.16	0.870444	0.998648
Operations and Procedures	Knee surgery not replacement (self-reported)	T	379101	12555	366546	1.66	0.506956	0.365901	0.81	3.4	0.1659	0.998648
Operations and Procedures	Hip surgery not replacement (self-reported)	T	379101	1523	377578	1.65	0.50378					

Operations and Procedures	Lymph node surgery (self-reported)	T	379101	763	378338	3.49	1.25088	1.00561	0.487	25.1	0.213538	0.998648
Gynaecology and Obstetrics	Salpingectomy (self-reported)	T	379101	258	378483	1.16E-07	0.95972	6.003.6	0	Inf	0.997877	0.998648
Gynaecology and Obstetrics	Termination of pregnancy top (self-reported)	T	379101	945	378156	7.66E-08	-16.3842	3624.1	0	Inf	0.996393	0.998648
Gynaecology and Obstetrics	Cervical polyps removed (self-reported)	T	379101	370	378731	8.37E-05	-9.3883	181.533	2.50E-159	2.80E+150	0.958754	0.998648
Gynaecology and Obstetrics	Laser treatment cervix (self-reported)	T	379101	611	378490	4.81E-08	-16.8506	5958.21	0	Inf	0.997743	0.998648
Gynaecology and Obstetrics	Pelvic floor surgery (self-reported)	T	379101	271	378330	0.000116	-9.05849	182.661	3.82E-160	3.55E+151	0.960448	0.998648
Gynaecology and Obstetrics	Breast biopsy (self-reported)	T	379101	375	378726	7.89E-05	-9.44742	182.043	8.69E-160	7.16E+150	0.958611	0.998648
Cardiovascular	Ecg electrocardiogram (self-reported)	T	379101	201	378900	0.000129	-8.95617	197.416	1.17E-172	1.43E+164	0.963815	0.998648
Operations and Procedures	Cystoscopy (self-reported)	T	379101	345	378756	7.08E-05	-9.55553	197.161	1.06E-172	4.75E+163	0.961345	0.998648
Cardiovascular	Pacemaker insertion (self-reported)	T	379101	287	378814	8.66E-05	-9.3541	190.981	2.35E-167	3.19E+158	0.960936	0.998648
Cardiovascular	Cardiac ablation (self-reported)	T	379101	269	378832	8.58E-05	-9.3638	197.158	1.29E-172	5.72E+163	0.962112	0.998648
ENT	Typamic membrane surgery ear drum repair (self-reported)	T	379101	602	378493	0.000108	-9.13208	120.918	1.28E-107	9.15E+98	0.939799	0.998648
ENT	Rhinoplasty nose surgery (self-reported)	T	379101	2193	376900	7.80E-05	-9.45934	72.8527	7.55E-67	8.04E+57	0.986692	0.998648
ENT	Sinus surgery (self-reported)	T	379101	1301	377800	4.85E-05	-9.93289	120.767	7.71E-108	3.06E+98	0.934449	0.998648
ENT	Nasal polyp surgery nasal polypectomy (self-reported)	T	379101	1137	377964	5.74E-05	-9.76527	119.439	1.23E-106	2.68E+97	0.934838	0.998648
ENT	Tonsillectomy tonsil surgery (self-reported)	T	379101	17457	361644	0.841	-0.1734	0.418071	0.371	1.91	0.678316	0.998648
ENT	Adenoid surgery adenoidectomy (self-reported)	T	379101	2205	376896	7.53E-05	-9.49372	73.1843	3.81E-67	1.49E+58	0.9876785	0.998648
Operations and Procedures	Inguinal hernia repair (self-reported)	T	379101	5531	373570	1.78	0.579192	0.514596	0.651	4.89	0.260363	0.998648
Operations and Procedures	Femoral hernia repair (self-reported)	T	379101	326	378775	7.15E-05	-9.54569	196.954	1.60E-172	3.20E+163	0.961344	0.998648
Operations and Procedures	Urethral stricture surgery dilatation (self-reported)	T	379101	205	378896	0.00012	-9.02758	198.357	1.72E-173	8.40E+164	0.963699	0.998648
Operations and Procedures	Orchidopexy (self-reported)	T	379101	293	378808	8.08E-08	-16.3312	5990.82	0	Inf	0.997825	0.998648
Operations and Procedures	Spine fusion (self-reported)	T	379101	517	378584	4.84E-05	-10.0122	189.918	2.13E-174	9.42E+164	0.959867	0.998648
Eye	Eyelet surgery (self-reported)	T	379101	269	378382	8.81E-05	-9.33754	199.276	2.08E-174	3.73E+165	0.962627	0.998648
Operations and Procedures	Removal of benign skin lesion (self-reported)	T	379101	629	378472	0.000101	-9.2011	121.131	7.86E-108	1.30E+99	0.939451	0.998648
Operations and Procedures	Removal of rodent ulcer basal cell carcinoma bcc (self-reported)	T	379101	957	378144	2.77	-2.17816	1.0051	0.386	-19.8	0.311065	0.998648
Operations and Procedures	Skin graft (self-reported)	T	379101	649	378452	9.80E-05	-9.23031	120.694	1.80E-107	5.35E+98	0.93904	0.998648
Operations and Procedures	Mri magnetic resonance imaging (self-reported)	T	379101	522	378579	4.50E-05	-10.0083	199.192	1.25E-174	1.62E+165	0.959928	0.998648
Operations and Procedures	Ct scan (self-reported)	T	379101	307	378794	7.96E-05	-9.43912	198.573	4.75E-174	8.50E+164	0.962087	0.998648
Operations and Procedures	Bone scan (self-reported)	T	379101	213	378888	5.02E-05	-9.8896	314.914	4.37E-273	5.77E+263	0.974924	0.998648
Operations and Procedures	Ultrasound scan (self-reported)	T	379101	230	378671	0.000107	-9.31865	199.172	3.11E-174	3.71E+165	0.963403	0.998648
Operations and Procedures	Barium meal barium swallow (self-reported)	T	379101	221	378800	0.000107	-9.13992	198.145	2.32E-173	4.95E+164	0.963209	0.998648
Operations and Procedures	Biopsy (self-reported)	T	379101	275	378262	8.62E-05	-9.35887	199.236	2.20E-174	3.38E+165	0.962534	0.998648
Operations and Procedures	Prostate biopsy (self-reported)	T	379101	258	378843	3.86E-08	-17.071	950.79	0	Inf	0.988567	0.998648
Family history	Alzheimer s disease dementia (family history - father)	T	343592	15771	327821	0.479	-0.73157	0.584235	0.153	1.51	0.208263	0.998648
Family history	Parkinson s disease (family history - father)	T	338729	8344	303835	0.298	-1.20943	0.995627	0.0424	2.1	0.224466	0.998648
Family history	Severe depression (family history - father)	T	338729	12638	326091	0.792	-0.233072	0.508233	0.293	2.14	0.646526	0.998648
Family history	Prostate cancer (family history - father)	T	338729	25442	313287	0.869	-0.140782	0.345514	0.441	1.71	0.683672	0.998648
Family history	Stroke (family history - father)	T	343592	51929	292300	1.13	0.121414	0.233603	0.714	1.78	0.603242	0.998648
Family history	Lung cancer (family history - father)	T	338729	30466	308263	0.959	-0.042365	0.315719	0.516	1.78	0.893256	0.998648
Family history	Bowel cancer (family history - father)	T	338729	19587	319142	1.05	0.062845	0.364974	0.512	2.14	0.899085	0.998648
Family history	Chronic bronchitis emphysema (family history - father)	T	343592	37574	306018	1.17	0.158932	0.26793	0.693	1.98	0.530508	0.998648
Family history	Diabetes (family history - father)	T	343592	31628	311964	0.774	-0.256252	0.329701	0.406	1.48	0.437027	0.998648
Family history	Alzheimer s disease dementia (family history - mother)	T	357529	29815	327714	0.946	-0.055457	0.316575	0.509	1.76	0.86094	0.998648
Family history	Parkinson s disease (family history - mother)	T	354181	5725	348456	1.34	0.294448	0.584439	0.427	4.22	0.614392	0.998648
Family history	Severe depression (family history - mother)	T	354181	23297	303884	0.879	-0.128495	0.36482	0.43	1.8	0.72478	0.998648
Family history	Heart disease (family history - mother)	T	357529	69487	288402	0.807	-0.213964	0.233704	0.511	1.28	0.359912	0.998648
Family history	Stroke (family history - mother)	T	357529	49690	307839	1.06	0.057826	0.242353	0.657	1.71	0.812306	0.998648
Family history	Lung cancer (family history - mother)	T	354181	14282	338999	0.938	-0.064246	0.456116	0.384	2.29	0.887985	0.998648
Family history	Breast cancer (family history - mother)	T	350614	12118	338496	0.628	0.464939	0.584019	0.2	1.97	0.425973	0.998648
Family history	High blood pressure (family history - mother)	T	357529	106957	205652	0.841	-0.173638	0.1932	0.576	1.23	0.36878	0.998648
Family history	Diabetes (family history - mother)	T	357529	32328	325147	0.851	-0.161761	0.314356	0.459	1.58	0.606847	0.998648
Family history	Alzheimer s disease dementia (family history - sibling)	T	301029	1677	299352	3.48E-05	-10.2664	123.064	6.13E-110	1.97E+100	0.933515	0.998648
Family history	Parkinson s disease (family history - sibling)	T	301236	1576	299660	3.38E-05	-10.2946	124.634	7.24E-111	4.17E+101	0.934171	0.998648
Family history	Severe depression (family history - sibling)	T	301236	21287	279949	0.799	-0.224484	0.389536	0.372	1.71	0.564421	0.998648
Family history	Prostate cancer (family history - sibling)	T	301236	4736	296500	1.98	0.68026	0.513036	0.722	5.4	0.184851	0.998648
Family history	Stroke (family history - sibling)	T	301029	9517	291512	0.77	-0.261321	0.587049	0.244	2.43	0.565216	0.998648
Family history	Lung cancer (family history - sibling)	T	301236	6394	294842	0.748	-0.290672	0.176304	0.184	3.04	0.684894	0.998648
Family history	Bowel cancer (family history - sibling)	T	302326	7001	294235	1.02	0.017837	0.587543	0.322	3.22	0.975781	0.998648
Family history	Breast cancer (family history - sibling)	T	298653	4866	293787	3.06E-05	-10.3935	76.8364	1.21E-210	7.77E+60	0.8924	0.998648
Family history	High blood pressure (family history - sibling)	T	301029	61052	239977	0.996	-0.003754	0.252962	0.64	1.55	0.987645	0.998648
Family history	Diabetes (family history - sibling)	T	301029	24485	276544	0.994	-0.006021	0.331201	0.519	1.9	0.985496	0.998648
Mental health	Single episode of probable major depression	T	54642	7501	47141	1.21	0.189594	0.450399	0.5	2.92	0.673793	0.998648
Mental health	Probable recurrent major depression severe 2	T	54213	7072	47141	0.436	-0.83099	0.729194	0.104	1.82	0.254453	0.998648
Mental health	Bipolar I disorder	T	91515	595	90920	2.68E-05	-10.52559	208.411	1.06E-182	6.7972	0.95972	0.998648
Mental health	Bipolar II disorder	T	91515	531	90984	2.91E-05	-10.4442	208.973	3.83E-183	2.22E+173	0.960139	0.998648
Mental health	Probable Recurrent major depression severe 1	T	91515	6715	84000	0.54	-0.617052	0.72308	0.131	2.23	0.393456	0.998648
Mental health	Probable Recurrent major depression moderate	T	91515	11528	79987	0.445	-0.809761	0.595102	0.138	1.44	0.176495	0.998648
Mental health	Risk taking	T	365648	96122	269526	1.02	0.023915	0.193605	0.701	1.5	0.901691	0.998648
Mental health	Hearing aid user	T	376439	129804	246365	0.889	-0.117802	0.183884	0.62	1.27	0.521763	0.998648
Mental health	Seen a doctor GP for nerves anxiety tension or depression	T	377320	43632	333688	0.837	-0.177722	0.285133	0.482	1.45	0.528767	0.998648
Eye	Wears glasses or contact lenses	T	378528	337207	41321	0.752	-0.285564	0.267739	0.445	1.27	0.286162	0.998648
Eye	Other eye problems	T	377958	54312	323646	1.02	0.023358	0.236947	0.643	1.63	0.912743	0.998648
ENT	Hearing difficulty problems	T	363644	94775	268869	0.805	-0.216853	0.21039	0.533	1.22	0.302671	0.998648
ENT	Hearing difficulty problems with background noise	T	371480	140624	203856	0.825	-0.192618	0.181576	0.578	1.18	0.288777	0.998648
Other	Hair balding pattern	T	173279	117813	55465	0.795	-0.258894	0.24481	0.492	1.29	0.349584	0.998648
Other	Pattern 1 f	T	173279	55466	117813	1.26	0.228994	0.2481</				

Cancer	Carc in situ of skin (cancer register)	T	379101	1157	377944	6.84E-05	-9.58975	115.551	2.99E-103	1.56E+94	0.933859	0.998648
Cancer	Carc in situ of breast (cancer register)	T	379101	1900	377201	4.57E-05	-9.99368	109.987	1.09E-98	1.92E+89	0.927602	0.998648
Cancer	Carc in situ of cervix (cancer register)	T	379101	2991	376110	7.97E-08	-16.3448	2184.63	0	Inf	0.99403	0.998648
Cancer	Car in situ other genital (cancer register)	T	379101	466	378635	5.28E-05	-9.8487	194.977	5.69E-171	4.90E+161	0.959714	0.998648
Cancer	Carc in situ of other sites (cancer register)	T	379101	561	378540	4.93E-05	-9.91846	188.321	2.46E-165	9.88E+155	0.957996	0.998648
Cancer	Benign neoplasm of meninges (cancer register)	T	379101	350	378751	7.50E-05	-9.49746	195.508	2.85E-171	1.97E+162	0.961255	0.998648
Cancer	Neo of oral cavity and digestive (cancer register)	T	379101	341	378760	7.20E-05	-9.53877	196.017	1.01E-171	5.13E+162	0.961188	0.998648
Cancer	Neo of urinary organs (cancer register)	T	379101	723	378378	9.54E-05	-9.25725	116.187	1.20E-103	7.59E+94	0.936495	0.998648
Cancer	Neo of lymphoid haematopoietic (cancer register)	T	379101	292	378809	9.04E-05	-9.31178	195.435	3.97E-171	2.06E+162	0.961998	0.998648
Cancer	Neo of other sites (cancer register)	T	379101	206	378895	0.000109	-9.12172	198.301	1.74E-173	6.85E+164	0.963311	0.998648
Summary	Mal neo of lip oral cavity and pharynx (cancer register)	T	379101	799	378302	8.38E-05	-9.38767	119.648	1.19E-106	5.88E+97	0.937462	0.998648
Summary	Mal neo of digestive organs (cancer register)	T	379101	5957	373144	0.438	-0.82582	1.00505	0.0611	3.14	0.411511	0.998648
Summary	Mal neo of respiratory and intrathoracic organs (cancer register)	T	379101	2026	377075	3.73E-05	-10.1965	116.303	3.75E-104	3.71E+94	0.930136	0.998648
Summary	Melanoma and other mal neo of skin (cancer register)	T	379101	2611	376490	2	-0.695261	0.09721	0.496	8.1	0.329311	0.998648
Summary	Mal neo of mesothelial and soft tissue (cancer register)	T	379101	538	378563	4.70E-05	-9.96617	196.294	3.83E-172	5.76E+162	0.959507	0.998648
Summary	Mal neoplasm of breast (cancer register)	T	379101	10158	368943	1.47	-0.383264	0.465272	0.589	3.65	0.410086	0.998648
Summary	Mal neo of female genital organs (cancer register)	T	379101	2734	376367	1.08	-0.07513	1.00833	0.15	7.8	0.398725	0.998648
Summary	Mal neo of male genital organs (cancer register)	T	379101	7046	372055	0.1	-0.025753	0.596185	0.319	3.3	0.965545	0.998648
Summary	Mal neo of urinary tract (cancer register)	T	379101	1919	377182	1.31	-0.271644	1.00668	0.182	9.44	0.787282	0.998648
Summary	Mal neo of thyroid and other endocrine glands (cancer register)	T	379101	468	378633	5.61E-05	-9.78811	198.078	1.39E-173	2.27E+164	0.960588	0.998648
Summary	Mal neo of ill secondary unspecified (cancer register)	T	379101	433	378668	5.90E-05	-9.73818	197.188	8.34E-173	4.17E+163	0.960612	0.998648
Summary	Mal neo lymphoid haematopoietic (cancer register)	T	379101	3145	375956	0.83	-0.186345	1.00458	0.116	5.95	0.482541	0.998648
Summary	In situ neo (cancer register)	T	379101	8358	370743	0.332	-1.10248	1.00431	0.0464	2.38	0.27313	0.998648
Summary	Benign neo (cancer register)	T	379101	784	378317	8.49E-05	-9.37375	120.695	1.55E-107	4.64E+98	0.938094	0.998648
Summary	Neo of uncertain or unknown behaviour (cancer register)	T	379101	2117	376984	1.21	-0.192562	1.00474	0.169	8.69	0.480015	0.998648
Summary	Neoplasms BIN (cancer register)	T	379101	45225	333876	0.814	-0.205852	0.28377	0.467	1.42	0.468195	0.998648
Neurosciences	Facial pains for 3 months vs no pain	T	368676	3287	365389	5.70E-05	-9.7728	73.2772	2.40E-67	1.35E+58	0.893903	0.998648
Operations and Procedures	Excision of lesion of tissue of brain	T	379101	434	378667	5.50E-05	-9.80741	199.425	9.70E-175	3.12E+165	0.960777	0.998648
Operations and Procedures	Other operations on ventricle of brain	T	379101	227	378874	0.000109	-9.12603	199.041	4.07E-174	2.91E+165	0.963433	0.998648
Operations and Procedures	Extrication of lesion of meninges of brain	T	379101	289	378812	9.06E-05	-9.30919	197.083	1.57E-172	5.22E+163	0.962326	0.998648
Operations and Procedures	Drainage of subdural space	T	379101	236	378865	0.000108	-9.136	191.71	7.01E-168	1.66E+159	0.961991	0.998648
Operations and Procedures	Other operations on spinal cord	T	379101	218	378883	0.000115	-9.06845	198.811	6.77E-174	1.96E+165	0.963168	0.998648
Operations and Procedures	Therapeutic epidural injection	T	379101	4695	374406	3.89E-05	-10.1543	73.2697	1.67E-67	9.09E+57	0.88776	0.998648
Operations and Procedures	Therapeutic spinal puncture	T	379101	253	378848	0.000101	-9.20442	199.093	3.40E-174	2.98E+165	0.963126	0.998648
Operations and Procedures	Diagnostic spinal puncture	T	379101	487	374264	1.12	-0.110771	0.712366	0.277	4.51	0.876429	0.998648
Operations and Procedures	Operations on spinal nerve root	T	379101	2302	376799	1.16	-0.15257	0.10393	0.163	8.33	0.87208	0.998648
Operations and Procedures	Destruction of peripheral nerve	T	379101	243	378858	9.70E-05	-9.42038	198.249	1.71E-173	5.49E+164	0.962824	0.998648
Operations and Procedures	Extrication of lesion of peripheral nerve	T	379101	1390	377111	5.22E-05	-9.86011	118.991	2.70E-106	1.01E+97	0.93396	0.998648
Operations and Procedures	Microsurgical repair of peripheral nerve	T	379101	222	378879	0.000101	-9.20526	196.001	1.45E-171	6.94E+162	0.962541	0.998648
Operations and Procedures	Other repair of peripheral nerve	T	379101	526	378575	4.87E-05	-9.93076	197.763	2.23E-173	1.06E+164	0.959591	0.998648
Operations and Procedures	Release of entrapment of peripheral nerve at wrist	T	379101	8745	370356	0.304	-1.19069	1.00399	0.0425	2.18	0.23564	0.998648
Operations and Procedures	Release of entrapment of peripheral nerve at other site	T	379101	778	378323	8.37E-05	-9.38806	120.898	1.03E-107	6.81E+98	0.938104	0.998648
Operations and Procedures	Other release of peripheral nerve	T	379101	324	378777	7.56E-05	-9.48953	198.517	7.90E-174	7.24E+164	0.961874	0.998648
Operations and Procedures	Neurostimulation of peripheral nerve	T	379101	545	378556	4.77E-05	-9.95	197.293	5.49E-173	4.15E+163	0.959778	0.998648
Operations and Procedures	Neurophysiological operations	T	379101	2161	376940	8.73E-05	-9.34619	72.9227	7.38E-67	1.03E+58	0.989018	0.998648
Operations and Procedures	Excision of thyroid gland	T	379101	1898	377203	1.5	-0.406797	1.00503	0.209	10.8	0.685653	0.998648
Operations and Procedures	Excision of parathyroid gland	T	379101	695	378406	0.000104	-9.17512	117.958	4.05E-105	2.65E+96	0.938	0.998648
Operations and Procedures	Total excision of breast	T	379101	4061	375040	2.19	-0.782537	0.589738	0.688	6.95	0.184534	0.998648
Operations and Procedures	Other excision of breast	T	379101	9523	369578	1.24	-0.212441	0.515105	0.451	3.39	0.680029	0.998648
Operations and Procedures	Reconstruction of breast	T	379101	1391	377110	5.71E-08	-16.6781	3648.16	0	Inf	0.996352	0.998648
Operations and Procedures	Prosthesis for breast	T	379101	1450	377651	5.88E-05	-9.74162	110.435	5.82E-99	5.94E+89	0.932079	0.998648
Operations and Procedures	Other plastic operations on breast	T	379101	1690	377411	5.43E-05	-9.82109	110.347	6.39E-99	4.61E+89	0.929081	0.998648
Operations and Procedures	Biopsy of breast	T	379101	1566	377535	5.76E-05	-9.76246	110.694	3.43E-99	9.66E+89	0.929723	0.998648
Operations and Procedures	Incision of breast	T	379101	615	378486	5.03E-05	-9.8973	186.17	1.70E-163	1.49E+154	0.957602	0.998648
Operations and Procedures	Operations on duct of breast	T	379101	761	378340	3.87	-0.135212	1.00815	0.536	27.9	0.179858	0.998648
Operations and Procedures	Operations on nipple	T	379101	610	378491	5.15E-05	-9.87822	187.963	5.19E-165	5.12E+155	0.958108	0.998648
Operations and Procedures	Reconstruction of nipple and areola	T	379101	637	378464	5.00E-05	-9.90291	181.816	8.60E-160	2.91E+150	0.956563	0.998648
Operations and Procedures	Other operations on breast	T	379101	910	378191	9.71E-05	-9.24024	110.682	5.92E-99	1.59E+90	0.933466	0.998648
Operations and Procedures	Reconstruction of breast using abdominal flap	T	379101	275	378826	1.08E-07	-16.0414	597.555	0	Inf	0.97859	0.998648
Operations and Procedures	Operations on eyebrow	T	379101	613	378488	0.000112	-9.09931	120.216	5.23E-107	2.39E+98	0.939665	0.998648
Operations and Procedures	Extirpation of lesion of eyelid	T	379101	5517	375384	0.988	-0.02001	0.712516	0.245	3.99	0.985652	0.998648
Operations and Procedures	Excision of redundant skin of eyelid	T	379101	1118	377983	6.49E-05	-9.64338	118.739	5.49E-106	7.67E-96	0.935271	0.998648
Operations and Procedures	Reconstruction of eyelid	T	379101	382	378719	6.77E-05	-9.60077	196.541	3.40E-172	1.35E+163	0.96104	0.998648
Operations and Procedures	Correction of deformity of eyelid	T	379101	816	378285	3.21	-1.16599	1.00746	0.445	23.1	0.247126	0.998648
Operations and Procedures	Correction of ptosis of eyelid	T	379101	747	378354	3.53	-0.21631	1.00588	0.492	25.4	0.209864	0.998648
Operations and Procedures	Other operations on eyelid	T	379101	931	378170	2.99	-0.19959	1.00481	0.417	21.4	0.27552	0.998648
Operations and Procedures	Connection between lacrimal apparatus and nose	T	379101	711	378390	0.000105	-9.15894	118.418	1.67E-105	6.63E+96	0.93835	0.998648
Operations and Procedures	Operations on nasolacrimal duct	T	379101	416	378685	6.69E-05	-9.61261	196.252	5.92E-172	7.56E+162	0.960935	0.998648
Operations and Procedures	Other operations on lacrimal apparatus	T	379101	939	378162	7.67E-05	-9.4637	189.811	4.87E-106	1.24E+97	0.936556	0.998648
Operations and Procedures	Combined operations on muscles of eye	T	379101	370	378731	6.71E-05	-9.60594	199.584	8.66E-175	5.20E+165	0.961596	0.998648
Operations and Procedures	Other adjustment to muscle of eye	T	379101	211	378890	0.000117	-9.05179	199.101	3.90E-174	3.52E+165	0.963738	0.998648
Operations and Procedures	Extrication of lesion of conjunctiva	T	379101	351	378750	7.18E-05	-9.54164	198.577	6.67E-174	7.73E+164	0.961567	0.998648
Operations and Procedures	Closure of cornea	T	379101	204	378897	0.000122	-9.01187	198.676	9.33E-174	1.59E+165	0.963821	0.998648
Operations and Procedures	Buckling operations for attachment of retina	T	379101	659	378442	3.83	-1.34392	1.0053	0.534	27.5	0.181277	0.998648
Operations and Procedures	Filtering operations on iris	T	379101	833	37826							

Operations and Procedures	Other operations on lung	T	379101	801	378300	8.96E-05	-9.32049	118.44	1.36E-105	5.89E+96	0.932726	0.998648
Operations and Procedures	Diagnostic endoscopic examination of mediastinum	T	379101	587	378514	4.63E-05	-9.39782	195.222	3.09E-171	6.95E+161	0.959253	0.998648
Operations and Procedures	Excision of lesion of lip	T	379101	1563	377538	1.83	0.602413	1.00421	0.255	13.1	0.548583	0.998648
Operations and Procedures	Other repair of lip	T	379101	211	378890	0.00012	-9.02439	198.589	1.09E-173	1.33E+165	0.963755	0.998648
Operations and Procedures	Other operations on lip	T	379101	464	378637	5.52E-05	-9.80545	198.808	3.26E-174	9.34E+164	0.960663	0.998648
Operations and Procedures	Surgical removal of tooth	T	379101	5408	373693	0.485	-0.72275	1.00374	0.0679	3.47	0.471506	0.998648
Operations and Procedures	Simple extraction of tooth	T	379101	2335	376766	7.90E-05	-9.44656	73.4007	2.62E-67	2.38E+58	0.897596	0.998648
Operations and Procedures	Preprosthetic oral surgery	T	379101	274	378827	9.75E-05	-9.23565	198.494	1.07E-173	8.92E+164	0.962886	0.998648
Operations and Procedures	Surgery on apex of tooth	T	379101	1147	377954	6.38E-05	-9.65988	120.597	1.41E-107	2.88E+98	0.936157	0.998648
Operations and Procedures	Other operations on tooth	T	379101	286	378815	8.95E-05	-9.32172	198.89	4.50E-174	1.78E+165	0.962618	0.998648
Operations and Procedures	Excision of lesion of tongue	T	379101	690	378411	0.000101	-9.20507	120.905	1.22E-107	8.29E+98	0.939312	0.998648
Operations and Procedures	Incision of tongue	T	379101	994	378107	6.86E-05	-9.58722	120.84	9.45E-108	4.98E+98	0.936763	0.998648
Operations and Procedures	Excision of lesion of palate	T	379101	297	378804	8.87E-05	-9.33053	198.68	6.73E-174	1.17E+165	0.962543	0.998648
Operations and Procedures	Other operations on palate	T	379101	1051	378050	6.48E-05	-9.64345	118.999	3.30E-106	1.28E+97	0.935411	0.998648
Operations and Procedures	Excision of tonsil	T	379101	1168	377933	6.35E-05	-9.66455	118.605	6.98E-106	5.77E+96	0.935056	0.998648
Operations and Procedures	Other operations on tonsil	T	379101	503	378598	4.95E-05	-9.91365	198.619	4.23E-174	5.79E+164	0.960192	0.998648
Operations and Procedures	Excision of lesion of other part of mouth	T	379101	688	378413	0.000105	-9.16329	120.515	7.73E-107	4.03E+98	0.939391	0.998648
Operations and Procedures	Other operations on mouth	T	379101	1260	377841	5.72E-05	-9.76881	120.218	2.67E-107	1.23E+98	0.935236	0.998648
Operations and Procedures	Excision of salivary gland	T	379101	935	378166	7.17E-05	-9.54241	120.917	8.49E-108	6.06E+98	0.937099	0.998648
Operations and Procedures	Excision of oesophagus and stomach	T	379101	219	378882	0.00012	-9.02913	190.448	9.25E-167	1.55E+158	0.962187	0.998648
Operations and Procedures	Other therapeutic operations on oesophagus	T	379101	331	378770	7.58E-05	-9.48714	194.571	1.81E+170	3.18E+161	0.961111	0.998648
Operations and Procedures	Diagnostic fibreoptic endoscopic examination of oesophagus	T	379101	1468	377633	4.61E-05	-9.98492	120.287	1.88E-107	1.13E+98	0.933844	0.998648
Operations and Procedures	Other operations on oesophagus	T	379101	1839	377262	1.55	0.437119	1.00409	0.216	11.1	0.663316	0.998648
Operations and Procedures	Repair of diaphragmatic hernia	T	379101	276	378285	9.06E-05	-9.30889	198.656	7.21E-174	1.14E+165	0.962625	0.998648
Operations and Procedures	Antireflux operations	T	379101	820	378281	8.29E-05	-9.39749	121.062	7.39E-108	9.31E+98	0.938126	0.998648
Operations and Procedures	Other connection of stomach to jejunum	T	379101	256	378845	0.000106	-9.15058	197.751	4.98E-173	2.26E+164	0.963093	0.998648
Operations and Procedures	Artificial opening into stomach	T	379101	356	378745	7.06E-05	-9.55835	196.041	9.45E-172	5.28E+162	0.961113	0.998648
Operations and Procedures	Excision of lesion of upper gastrointestinal tract	T	379101	1015	378086	2.67	0.98182	0.00565	0.372	19.2	0.328915	0.998648
Operations and Procedures	Therapeutic fibreoptic gastrointestinal tract	T	379101	1244	377857	5.49E-05	-9.81003	119.568	9.15E-107	3.30E+97	0.93461	0.998648
Operations and Procedures	Examination of upper gastrointestinal tract	T	379101	65264	313837	0.91	-0.039923	0.233427	0.576	1.44	0.687414	0.998648
Operations and Procedures	Intubation of stomach	T	379101	329	378772	8.37E-05	-9.38787	194.159	1.93E-170	3.64E+161	0.96152	0.998648
Operations and Procedures	Artificial opening into jejunum	T	379101	294	378807	8.57E-05	-9.36458	194.078	5.38E-170	1.37E+161	0.961516	0.998648
Operations and Procedures	Excision of ileum	T	379101	732	378369	3.77	1.32688	0.00481	0.526	27	0.186569	0.998648
Operations and Procedures	Creation of artificial opening into ileum	T	379101	1023	378078	2.57	0.944013	0.00484	0.359	18.4	0.347493	0.998648
Operations and Procedures	Attention to artificial opening into ileum	T	379101	998	378103	2.61	0.958374	0.00748	0.364	18.7	0.340178	0.998648
Operations and Procedures	Emergency excision of appendix	T	379101	2570	376531	7.00E-05	-9.56688	73.3144	2.75E-67	1.78E+58	0.981976	0.998648
Operations and Procedures	Total excision of colon and rectum	T	379101	212	378889	0.00012	-9.03085	197.78	5.30E-173	2.70E+164	0.96355	0.998648
Operations and Procedures	Extended excision of right hemicolon	T	379101	250	378851	0.000101	-9.19899	194.321	3.94E-170	2.60E+161	0.962243	0.998648
Operations and Procedures	Other excision of right hemicolon	T	379101	1421	377680	4.85E-05	-9.93416	119.333	1.28E-106	1.84E+97	0.933655	0.998648
Operations and Procedures	Excision of left hemicolon	T	379101	330	377811	7.21E-05	-9.40756	193.43	1.83E-169	3.68E+160	0.96121	0.998648
Operations and Procedures	Other excision of colon	T	379101	242	378859	0.000103	-9.18372	197.606	6.40E-173	1.65E+164	0.962932	0.998648
Operations and Procedures	Other exteriorisation of colon	T	379101	934	378167	2.91	0.1072	0.00498	0.406	20.8	0.288272	0.998648
Operations and Procedures	Endoscopic extirpation of lesion of colon	T	379101	14469	366432	1.33	0.283029	0.00943	0.617	2.86	0.469082	0.998648
Operations and Procedures	Diagnostic endoscopic examination of colon	T	379101	48889	330212	0.881	-0.127092	0.266608	0.522	1.49	0.633575	0.998648
Operations and Procedures	Endoscopic of lower bowel	T	379101	3536	375565	5.19E-05	-9.86578	72.359	1.32E-66	2.04E+57	0.981549	0.998648
Operations and Procedures	Examination of sigmoid colon	T	379101	2690	376411	6.93E-05	-9.57668	73.1253	3.94E-67	1.22E+58	0.985805	0.998648
Operations and Procedures	Excision of rectum	T	379101	2290	376811	8.13E-05	-9.41722	72.1696	3.01E-66	2.20E+57	0.986181	0.998648
Operations and Procedures	Fixation of rectum for prolapse	T	379101	293	378808	6.97E-05	-9.24348	187.941	1.02E-164	9.21E+155	0.980774	0.998648
Operations and Procedures	Other operations on rectum through anus	T	379101	648	378453	0.000102	-9.18831	119.873	9.37E-107	1.12E+98	0.938892	0.998648
Operations and Procedures	Perineal operations for prolapse of rectum	T	379101	257	378844	0.000106	-9.15606	195.907	1.84E-171	6.07E+162	0.962723	0.998648
Operations and Procedures	Manipulation of rectum	T	379101	1760	377341	3.84E-05	-10.1665	120.949	4.27E-108	3.46E+98	0.933012	0.998648
Operations and Procedures	Other operations on rectum	T	379101	894	378207	8.86E-05	-9.3314	118.813	6.48E-106	1.21E+97	0.9374	0.998648
Operations and Procedures	Excision of lesion of anus	T	379101	2708	376393	1.99	0.688376	0.00721	0.493	8.04	0.333931	0.998648
Operations and Procedures	Destruction of haemorrhoid	T	379101	5384	373717	3.48E-05	-10.2659	73.2182	1.65E-67	7.35E+57	0.888495	0.998648
Operations and Procedures	Other operations on haemorrhoid	T	379101	276	378825	8.47E-05	-9.37609	197.718	4.24E-173	1.69E+164	0.962177	0.998648
Operations and Procedures	Dilation of anal sphincter	T	379101	444	378657	6.09E-05	-9.70622	188.801	3.65E-174	1.02E+165	0.96106	0.998648
Operations and Procedures	Other operations on perianal region	T	379101	1153	377948	5.77E-05	-9.75793	119.776	6.40E-107	5.21E+97	0.935058	0.998648
Operations and Procedures	Other operations on anus	T	379101	1643	377458	4.09E-05	-10.1048	121.145	3.09E-108	5.41E+98	0.933525	0.998648
Operations and Procedures	Drainage through perineal region	T	379101	1052	378049	6.53E-05	-9.63716	119.268	1.96E-106	2.18E+97	0.935599	0.998648
Operations and Procedures	Excision of pilonidal sinus	T	379101	253	378848	0.000105	-9.15736	191.993	3.94E-168	2.82E+159	0.961958	0.998648
Operations and Procedures	Other operations on pilonidal sinus	T	379101	206	378895	5.18E-05	-9.86828	314.748	6.23E-273	4.31E+263	0.974988	0.998648
Operations and Procedures	Other operations on bowel	T	379101	379	378722	7.29E-05	-9.52703	197.511	5.47E-173	9.71E+163	0.961529	0.998648
Operations and Procedures	Other puncture of liver	T	379101	403	378698	6.21E-05	-9.68716	199.223	1.63E-174	2.37E+165	0.961218	0.998648
Operations and Procedures	Other open operations on bile duct	T	379101	1260	377841	2.3	0.832438	0.00485	0.321	16.5	0.407432	0.998648
Operations and Procedures	Endoscopic incision of sphincter of Oddi	T	379101	1801	377300	3.97E-05	-10.1344	119.344	1.03E-106	1.54E+97	0.932326	0.998648
Operations and Procedures	Endoscopic retrograde placement of prosthesis in bile duct	T	379101	560	378541	4.64E-05	-9.97721	195.611	1.44E-171	1.49E+162	0.959321	0.998648
Operations and Procedures	Other therapeutic operations on bile duct	T	379101	284	378817	9.28E-05	-9.28532	196.342	6.88E-172	1.25E+163	0.962821	0.998648
Operations and Procedures	Examination of bile duct and pancreatic duct	T	379101	2192	376690	8.88E-05	-9.32955	72.433	1.96E-66	4.02E+57	0.897514	0.998648
Operations and Procedures	Diagnostic endoscopic retrograde examination of bile duct	T	379101	309	378792	8.61E-05	-9.35971	196.801	2.86E-172	2.85E+163	0.962067	0.998648
Operations and Procedures	Diagnostic retrograde exam pancreatic duct	T	379101	208	378893	0.000126	-9.87881	196.198	1.34E-171	1.19E+163	0.963941	0.998648
Operations and Procedures	Endoscopic ultrasound examination of bile duct	T	379101	228	378783	0.000117	-9.05018	197.201	1.62E-172	8.52E+163	0.963395	0.998648
Operations and Procedures	Total excision of spleen	T	379101	281	378820	8.56E-05	-9.36529	198.431	1.06E-173	6.93E+164	0.962357	0.998648
Operations and Procedures	Plastic repair of mitral valve	T	379101	528	378573	4.87E-05	-9.29275	192.812	3.49E-169	6.49E+159	0.958927	0.998648
Operations and Procedures	Plastic repair of aortic valve	T	379101	1074	378027	2.44	0.891593	0.00697				

Operations and Procedures	Other therapeutic transluminal operations on vein	T	379101	1371	377730	1.83	0.604975	1.00429	0.256	13.1	0.546914	0.998648
Operations and Procedures	Transplantation of kidney	T	379101	266	378835	9.08E-05	-0.920729	197.834	3.62E-173	2.28E+164	0.962477	0.998648
Operations and Procedures	Total excision of kidney	T	379101	1063	378038	6.32E-05	-9.66962	119.635	9.23E-107	4.32E+97	0.935558	0.998648
Operations and Procedures	Therapeutic endoscopic operations on calculus of kidney	T	379101	417	378684	5.95E-05	-7.72893	196.641	2.46E-172	1.44E+163	0.96054	0.998648
Operations and Procedures	Percutaneous puncture of kidney	T	379101	1437	377664	4.63E-05	-9.97998	120.048	3.01E-107	7.12E+97	0.933746	0.998648
Operations and Procedures	Extracorporeal fragmentation of calculus of kidney	T	379101	1421	377680	1.78	0.576125	1.00485	0.248	12.8	0.566413	0.998648
Operations and Procedures	Other operations on kidney	T	379101	281	378820	9.18E-05	-9.29576	197.132	1.45E-172	5.82E+163	0.96239	0.998648
Operations and Procedures	Urinary diversion	T	379101	327	378774	7.83E-05	-9.4553	193.641	1.15E-169	5.30E+160	0.961056	0.998648
Operations and Procedures	Therapeutic ureteroscopic operations on ureter	T	379101	1338	377763	5.01E-05	-9.90126	119.369	1.23E-106	2.04E+97	0.933894	0.998648
Operations and Procedures	Other endoscopic removal of calculus from ureter	T	379101	242	378859	0.000101	-9.19546	196.735	3.49E-172	2.96E+163	0.96272	0.998648
Operations and Procedures	Other therapeutic endoscopic operations on ureter	T	379101	1932	377169	9.27E-05	-9.28645	72.9141	7.97E-67	1.08E+58	0.898654	0.998648
Operations and Procedures	Diagnostic endoscopic examination of ureter	T	379101	1627	377474	1.61	0.47845	1.00441	0.225	11.6	0.633680	0.998648
Operations and Procedures	Extracorporeal fragmentation of calculus of ureter	T	379101	563	378538	4.20E-05	-10.0781	193.821	4.35E-170	4.04E+160	0.585531	0.998648
Operations and Procedures	Total excision of bladder	T	379101	315	378786	8.14E-05	-9.41617	190.968	2.27E-167	2.92E+158	0.960674	0.998648
Operations and Procedures	Other repair of bladder	T	379101	216	378885	0.000123	-9.00324	198.186	2.46E-173	6.16E+164	0.963766	0.998648
Operations and Procedures	Endoscopic extirpation of lesion of bladder	T	379101	2389	376712	8.09E-05	-9.42286	70.1885	1.45E-64	4.50E+55	0.89204	0.998648
Operations and Procedures	Endoscopic operations to increase capacity of bladder	T	379101	1067	378034	7.15E-05	-9.54628	118.755	5.86E-106	8.72E+96	0.93593	0.998648
Operations and Procedures	Other therapeutic endoscopic operations on bladder	T	379101	557	378544	4.57E-05	-9.99407	192.51	6.19E-16	3.37E+159	0.585597	0.998648
Operations and Procedures	Diagnostic endoscopic examination of bladder	T	379101	30109	348992	1.06	0.059458	0.304113	0.585	1.93	0.844993	0.998648
Operations and Procedures	Other operations on bladder	T	379101	1638	377463	1.6	0.468659	1.00512	0.223	11.5	0.61402	0.998648
Operations and Procedures	Abdominal operations to support outlet of female bladder	T	379101	1021	378080	8.57E-08	-16.2727	3625.47	0	Inf	0.996419	0.998648
Operations and Procedures	Vaginal operations to support outlet of female bladder	T	379101	3234	375867	6.82E-08	-16.5002	2210.83	0	Inf	0.994045	0.998648
Operations and Procedures	Therapeutic on outlet of female bladder	T	379101	299	378028	0.000112	-9.90286	182.002	1.34E-159	9.942E+150	0.960154	0.998648
Operations and Procedures	Open excision of prostate	T	379101	2046	377055	1.14	0.132379	1.0108	0.157	8.28	0.895803	0.998648
Operations and Procedures	Endoscopic resection of outlet of male bladder	T	379101	3901	375200	0.634	-0.454666	1.01268	0.087	4.61	0.652169	0.998648
Operations and Procedures	Other therapeutic on outlet of male bladder	T	379101	850	378251	2.95	1.080833	1.0102	0.407	21.3	0.284876	0.998648
Operations and Procedures	Other operations on outlet of male bladder	T	379101	6418	372683	1.56	0.445483	0.512329	0.562	4.34	0.392821	0.998648
Operations and Procedures	Therapeutic endoscopic operations on urethra	T	379101	2234	376867	8.13E-05	-9.41785	73.1155	4.71E-67	1.40E+58	0.87951	0.998648
Operations and Procedures	Diagnostic endoscopic examination of urethra	T	379101	369	378732	6.76E-05	-9.6026	190.288	7.13E-167	6.40E+157	0.959753	0.998648
Operations and Procedures	Other operations on urethra	T	379101	1489	377612	4.79E-05	-9.62057	120.029	3.24E-107	7.10E+97	0.933963	0.998648
Operations and Procedures	Operations on urethral orifice	T	379101	464	378637	5.35E-05	-9.83573	191.839	2.70E-168	1.06E+159	0.95911	0.998648
Operations and Procedures	Other operations on scrotum	T	379101	203	378898	4.36E-08	-16.9477	9907.79	0	Inf	0.998633	0.998648
Operations and Procedures	Other excision of testis	T	379101	508	378593	4.89E-08	-16.8326	6003.28	0	Inf	0.997763	0.998648
Operations and Procedures	Operations on hydrocele sac	T	379101	1029	378072	6.64E-08	-16.528	3643.01	0	Inf	0.99638	0.998648
Operations and Procedures	Operations on epididymis	T	379101	1069	378032	2.32	0.843436	1.007997	0.322	16.8	0.402725	0.998648
Operations and Procedures	Excision of vas deferens	T	379101	4286	374815	1.81	0.593321	0.606944	0.551	5.95	0.328295	0.998648
Operations and Procedures	Extirpation of lesion of penis	T	379101	221	378880	4.10E-08	-17.0106	9928.78	0	Inf	0.998633	0.998648
Operations and Procedures	Plastic operations on penis	T	379101	394	378707	6.28E-08	-16.5835	6024.54	0	Inf	0.997804	0.998648
Operations and Procedures	Operations on prepuce	T	379101	2323	376778	2.87E-08	-17.3681	3651.94	0	Inf	0.996205	0.998648
Operations and Procedures	Other operations on penis	T	379101	452	378649	5.62E-08	-16.6945	5965.72	0	Inf	0.997767	0.998648
Operations and Procedures	Other upper digestive tract	T	379101	488	378613	4.87E-05	-9.92945	197.272	5.84E-173	4.06E+163	0.958956	0.998648
Operations and Procedures	Branch of external carotid artery	T	379101	271	378380	1.00E-04	-9.20567	190.771	4.11E-167	2.45E+158	0.961506	0.998648
Operations and Procedures	Other leg region	T	379101	287	378814	9.70E-05	-9.24121	194.81	1.45E-170	6.49E+161	0.962165	0.998648
Operations and Procedures	Other lymph node	T	379101	2930	376171	0.962	-0.038861	1.00664	0.134	6.92	0.962025	0.998648
Operations and Procedures	Body region	T	379101	6404	372697	1.66	0.506208	0.508393	0.612	4.49	0.319393	0.998648
Operations and Procedures	Excision of bone	T	379101	3651	375450	0.717	-0.332121	1.0036	0.1	5.13	0.104697	0.998648
Operations and Procedures	Operations on Bartholin gland	T	379101	599	378502	5.13E-08	-16.7853	5974.92	0	Inf	0.997750	0.998648
Operations and Procedures	Excision of vulva	T	379101	1147	377954	2.64	0.970377	1.00797	0.366	19	0.35695	0.998648
Operations and Procedures	Other operations on vulva	T	379101	1300	377801	6.62E-08	-16.5305	3636.81	0	Inf	0.996373	0.998648
Operations and Procedures	Other operations on female perineum	T	379101	887	378214	9.98E-08	-16.2261	3651.73	0	Inf	0.996455	0.998648
Operations and Procedures	Extirpation of lesion of vagina	T	379101	675	378426	4.42E-08	-16.9353	6018.89	0	Inf	0.997755	0.998648
Operations and Procedures	Other repair of prolapse of vagina	T	379101	7298	371803	3.02E-08	-17.3141	2175.08	0	Inf	0.993649	0.998648
Operations and Procedures	Repair of vault of vagina	T	379101	1152	377949	7.65E-08	-16.3863	3589.57	0	Inf	0.996358	0.998648
Operations and Procedures	Other repair of vagina	T	379101	332	378769	9.17E-08	-16.2051	6003.23	0	Inf	0.997846	0.998648
Operations and Procedures	Exploration of vagina	T	379101	1868	377233	4.42E-08	-16.9355	3624.09	0	Inf	0.996271	0.998648
Operations and Procedures	Other operations on vagina	T	379101	544	378557	5.46E-08	-16.7241	6015.45	0	Inf	0.997782	0.998648
Operations and Procedures	Excision of cervix uteri	T	379101	317	375934	6.86E-08	-16.4947	2208.72	0	Inf	0.994041	0.998648
Operations and Procedures	Destruction of lesion of cervix uteri	T	379101	2136	376965	3.93E-08	-17.0532	3628.7	0	Inf	0.996265	0.998648
Operations and Procedures	Biopsy of cervix uteri	T	379101	1749	377352	4.65E-08	-16.8844	3626.55	0	Inf	0.996288	0.998648
Operations and Procedures	Other operations on cervix uteri	T	379101	247	378854	1.31E-07	-15.8444	5991.08	0	Inf	0.99789	0.998648
Operations and Procedures	Abdominal excision of uterus	T	379101	1552	377549	1.9	0.63972	1.0106	0.261	13.8	0.526916	0.998648
Operations and Procedures	Vaginal excision of uterus	T	379101	687	372724	1.28	0.24871	0.59037	0.403	4.08	0.673552	0.998648
Operations and Procedures	Other open operations on uterus	T	379101	2031	358770	0.998	-0.001677	0.398319	0.457	2.18	0.996641	0.998648
Operations and Procedures	Curretage of uterus	T	379101	1103	377998	2.51	0.919488	1.00851	0.347	18.1	0.361912	0.998648
Operations and Procedures	Other evacuation of contents of uterus	T	379101	2583	376518	5.80E-05	-9.75549	102.326	4.59E-92	7.33E+82	0.924047	0.998648
Operations and Procedures	Intruterine contraceptive device	T	379101	5122	373979	1.24	0.215659	0.722507	0.301	5.11	0.765331	0.998648
Operations and Procedures	Introduction of abortifacient into uterine cavity	T	379101	623	378478	9.76E-08	-16.142	5461.54	0	Inf	0.997642	0.998648
Operations and Procedures	Other vaginal operations on uterus	T	379101	1552	377549	1.9	0.63972	1.0106	0.261	13.8	0.526916	0.998648
Operations and Procedures	Therapeutic endoscopic operations on uterus	T	379101	379	376874	8.42E-08	-16.5457	322.372	0	Inf	0.990099	0.998648
Operations and Procedures	Diagnostic endoscopic examination of uterus	T	379101	2031	358770	0.998	-0.001677	0.398319	0.457	2.18	0.996113	0.998648
Operations and Procedures	Other operations on uterus	T	379101	433	378668	8.76E-08	-16.2502	5877.98	0	Inf	0.997974	0.998648
Operations and Procedures	Therapeutic endoscopic operations on ovary	T	379101	717	378384	4.85E-08	-16.8427	5838.83	0	Inf	0.997693	0.998648
Operations and Procedures	Other examination of female genital tract	T	379101	398	375103	1.52	0.14764	0.71785	0.372	6.2	0.560706	0.998648
Operations and Procedures	Other operations on amniotic cavity	T	379101	308	378793	5.06E-08	-16.7797	9097.69	0	Inf	0.998527	0.998648
Operations and Procedures	Surgical induction of labour	T	379101	2296	376805	8.05E-08	-16.3347	3184.06	0	Inf	0.995907	0.998648
Operations and Procedures	Other induction of labour	T	379101	2732	376369	6.21E-08	-16.5944	3188.66	0	Inf	0.995848	0.998648
Operations and Procedures	Elective caesarean delivery	T	379101	1697	377404	9.19E-08	-16.2029	3246.12	0	Inf	0.996017	0.998648
Operations and Procedures	Other caesarean delivery	T	379101	1946	377155	8.40E-08						

Operations and Procedures	Exploration of other skin of head or neck	T	379101	445	378656	5.55E-05	-9.79989	197.176	8.02E-173	3.83E+163	0.96036	0.998648
Operations and Procedures	Exploration of other skin of other site	T	379101	4464	374637	1.15	-9.03771	0.71279	0.285	4.65	0.843868	0.998648
Operations and Procedures	Other operations on skin	T	379101	1061	378040	7.20E-05	-9.53942	118.9	4.4E-106	1.17E+97	0.36054	0.998648
Operations and Procedures	Other operations on subcutaneous tissue	T	379101	494	378607	5.68E-05	-9.77547	196.548	2.82E-172	1.15E+163	0.960333	0.998648
Operations and Procedures	Other operations on nail bed	T	379101	686	378415	9.35E-05	-9.27768	119.953	7.32E-107	1.19E+98	0.93835	0.998648
Operations and Procedures	Other operations on nail	T	379101	396	378705	6.61E-05	-9.62469	198.596	5.91E-174	7.39E+164	0.961347	0.998648
Operations and Procedures	Opening of chest	T	379101	257	378844	0.000104	-9.17464	190.309	1.05E-166	1.02E+158		
Operations and Procedures	Primary repair of inguinal hernia	T	379101	13724	365377	1.27	0.2403	0.398174	0.583	2.78	0.546173	0.998648
Operations and Procedures	Repair of recurrent inguinal hernia	T	379101	1175	377926	6.23E-05	-9.68361	111.043	1.87E-99	2.07E+90	0.930508	0.998648
Operations and Procedures	Primary repair of femoral hernia	T	379101	527	378574	5.08E-05	-9.88847	196.368	3.58E-172	7.20E+162	0.959838	0.998648
Operations and Procedures	Primary repair of umbilical hernia	T	379101	3099	376002	5.63E-05	-9.78399	71.9634	3.12E-66	1.02E+57	0.891855	0.998648
Operations and Procedures	Primary repair of incisional hernia	T	379101	1622	377479	4.20E-05	-10.077	120.31	1.64E-107	1.08E+98	0.933248	0.998648
Operations and Procedures	Repair of recurrent incisional hernia	T	379101	225	378876	0.000112	-9.09778	197.929	3.70E-173	3.38E+164	0.963338	0.998648
Operations and Procedures	Repair of other hernia of abdominal wall	T	379101	1344	377757	4.90E-05	-9.9233	121.07	4.30E-108	5.59E+98	0.934676	0.998648
Operations and Procedures	Opening of abdomen	T	379101	940	378161	7.39E-05	-9.51264	120.734	1.25E-107	4.36E+98		
Operations and Procedures	Other operations on anterior abdominal wall	T	379101	600	378501	0.000112	-9.0928	121.044	0.04E-107	1.22E+99	0.940119	0.998648
Operations and Procedures	Open drainage of peritoneum	T	379101	297	378804	8.54E-05	-9.56855	199.068	3.03E-174	2.41E+165	0.962464	0.998648
Operations and Procedures	Operations on omentum	T	379101	1948	377153	4.22E-05	-10.0738	114.556	1.30E-102	1.37E+93	0.92926	0.998648
Operations and Procedures	Other open operations on peritoneum	T	379101	2184	376917	1.26	0.232692	1.00425	0.176	9.03	0.816766	0.998648
Operations and Procedures	Therapeutic endoscopic operations on peritoneum	T	379101	1599	377502	4.70E-05	-9.9576	117.985	1.74E-105	1.27E+96	0.932685	0.998648
Operations and Procedures	Diagnostic endoscopic examination of peritoneum	T	379101	4723	374378	0.658	-0.418743	0.00776	0.0913	4.74	0.677762	0.998648
Operations and Procedures	Other drainage of peritoneal cavity	T	379101	2011	377090	1.39	0.328408	1.00432	0.194	9.94	0.743671	0.998648
Operations and Procedures	Excision of other fascia	T	379101	2947	376154	6.49E-05	-9.6428	70.098	1.39E-64	3.03E+55	0.890587	0.998648
Operations and Procedures	Division of fascia	T	379101	394	378707	6.66E-05	-9.61678	192.229	1.57E-168	2.83E+159	0.9601	0.998648
Operations and Procedures	Excision of ganglion	T	379101	2429	376672	2.34	0.85135	0.712845	0.579	9.47	0.232361	0.998648
Operations and Procedures	Operations on bursa	T	379101	1825	377276	1.52	0.4157	0.100405	0.212	10.8	0.678585	0.998648
Operations and Procedures	Transposition of tendon	T	379101	795	378306	8.45E-05	-9.37919	120.988	8.68E-108	8.21E+98	0.938208	0.998648
Operations and Procedures	Excision of tendon	T	379101	253	378484	0.000102	-9.1932	198.422	1.28E-173	8.08E+164	0.963046	0.998648
Operations and Procedures	Primary repair of tendon	T	379101	2574	376527	0.979	-0.021592	1.00453	0.137	7.01	0.982851	0.998648
Operations and Procedures	Adjustment to length of tendon	T	379101	2142	376959	8.94E-05	-9.32242	72.4137	2.05E-66	3.90E+57	0.897565	0.998648
Operations and Procedures	Other operations on sheath of tendon	T	379101	2908	376193	0.929	0.070455	1.00415	0.13	6.65	0.94121	0.998648
Operations and Procedures	Other operations on tendon	T	379101	780	378321	3.43	1.23139	1.00437	0.478	24.5	0.20185	0.998648
Operations and Procedures	Excision of muscle	T	379101	476	378625	5.02E-05	-9.89952	199.436	8.66E-175	2.91E+165	0.960411	0.998648
Operations and Procedures	Repair of muscle	T	379101	2257	376844	8.08E-05	-9.42338	72.8034	8.63E-67	7.57E+57	0.897013	0.998648
Operations and Procedures	Biopsy of muscle	T	379101	421	378680	5.74E-05	-9.76497	199.531	8.22E-175	4.01E+165	0.960967	0.998648
Operations and Procedures	Other operations on muscle	T	379101	238	378683	0.000105	-9.16094	199.388	1.99E-174	5.55E+165	0.963354	0.998648
Operations and Procedures	Block dissection of lymph nodes	T	379101	517	373944	1.1	0.093985	0.714224	0.271	4.45	0.895703	0.998648
Operations and Procedures	Sampling of lymph nodes	T	379101	2952	376149	1.97	0.678013	0.717131	0.483	8.03	0.344428	0.998648
Operations and Procedures	Excision or biopsy of lymph node	T	379101	6160	372941	0.45	-0.797556	1.0043	0.0629	3.22	0.427112	0.998648
Operations and Procedures	Operations on sentinel lymph node	T	379101	1143	377958	2.52	0.92538	0.100749	0.35	18.2	0.35838	0.998648
Operations and Procedures	Other operations on soft tissue	T	379101	1277	377824	2.13	0.754538	0.00407	0.297	15.2	0.45247	0.998648
Operations and Procedures	Diagnostic imaging of central nervous system	T	379101	13682	365419	0.763	-0.270445	0.507886	0.282	2.06	0.594386	0.998648
Operations and Procedures	Diagnostic imaging of abdomen	T	379101	2458	376643	7.64E-05	-9.47919	72.8811	7.01E-67	8.33E+57	0.896516	0.998648
Operations and Procedures	Diagnostic imaging of pelvis	T	379101	1273	377828	2.04	0.74192	1.00418	0.285	14.6	0.769498	0.998648
Operations and Procedures	Diagnostic imaging of heart	T	379101	1444	377857	5.19E-05	-9.86662	119.733	6.25E-107	4.30E+97	0.934324	0.998648
Operations and Procedures	Diagnostic imaging of vascular system	T	379101	1073	378028	6.32E-05	-9.66972	120.403	2.05E-107	1.95E+98	0.935958	0.998648
Operations and Procedures	Diagnostic imaging of genitourinary system	T	379101	293	378808	9.48E-05	-9.26356	193.57	1.81E-169	5.58E+160	0.961831	0.998648
Operations and Procedures	Diagnostic imaging of musculoskeletal system	T	379101	820	378281	8.09E-05	-9.42266	120.905	9.80E-108	6.67E+98	0.93788	0.998648
Operations and Procedures	Diagnostic imaging of digestive tract	T	379101	243	378858	0.00012	-9.02635	195.271	7.28E-171	1.99E+162	0.963131	0.998648
Operations and Procedures	Diagnostic electrocardiography	T	379101	998	378103	2.8	0.102688	1.00602	0.389	20.1	0.306534	0.998648
Operations and Procedures	Neuropsychology tests	T	379101	256	378845	9.47E-05	-9.26494	198.9	4.67E-174	1.92E+165	0.962847	0.998648
Operations and Procedures	Breath tests	T	379101	412	378689	6.54E-05	-9.63567	198.422	8.22E-174	5.19E+164	0.961269	0.998648
Operations and Procedures	Diagnostic endocrinology	T	379101	1212	377889	5.73E-05	-9.7675	121.094	4.79E-108	6.84E+98	0.935712	0.998648
Operations and Procedures	Autonomic cardiovascular testing	T	379101	235	378666	0.000114	-9.0797	196.773	3.65E-173	3.58E+163	0.963196	0.998648
Operations and Procedures	Other diagnostic imaging of genitourinary system	T	379101	209	378892	0.000113	-9.08376	199.395	2.12E-174	6.07E+165	0.963664	0.998648
Operations and Procedures	Rehabilitation for musculoskeletal disorders	T	379101	364	378737	6.70E-05	-9.61331	161.146	7.27E-172	6.17E+162	0.960918	0.998648
Operations and Procedures	Rehabilitation for neurological disorders	T	379101	314	378787	7.61E-05	-9.48326	199.192	2.12E-174	2.74E+165	0.962028	0.998648
Operations and Procedures	Rehabilitation for other disorders	T	379101	724	378777	9.43E-05	-9.26877	118.209	2.25E-105	3.95E+96	0.937502	0.998648
Operations and Procedures	Reduction of fracture of other bone of face	T	379101	686	378415	0.000102	-9.18744	118.771	8.13E-106	1.29E+97	0.938342	0.998648
Operations and Procedures	Fixation of bone of face	T	379101	219	378882	0.000117	-9.05392	194.236	5.38E-170	2.54E+161	0.962822	0.998648
Operations and Procedures	Fixation of mandible	T	379101	258	378843	9.99E-05	-9.21141	196.339	7.45E-172	1.34E+163	0.96258	0.998648
Operations and Procedures	Primary decompression operations on cervical spine	T	379101	557	378544	4.22E-05	-10.072	199.077	1.47E-174	1.21E+165	0.95965	0.998648
Operations and Procedures	Primary decompression operations on lumbar spine	T	379101	2461	376640	1.06	0.054543	1.0042	0.148	7.56	0.956684	0.998648
Operations and Procedures	Primary excision of cervical intervertebral disc	T	379101	805	378296	8.13E-05	-9.46176	120.82	1.16E-107	5.68E+98	0.937876	0.998648
Operations and Procedures	Primary excision of lumbar intervertebral disc	T	379101	1796	377305	3.73E-05	-10.1958	120.879	2.93E+98	0.932781	0.998648	
Operations and Procedures	Stabilisation of spine	T	379101	284	378187	8.21E-05	-9.40747	198.659	6.49E-174	1.04E+165	0.962223	0.998648
Operations and Procedures	Instrumental correction of deformity of spine	T	379101	342	378759	7.02E-05	-9.56406	198.971	3.01E-174	1.64E+165	0.961662	0.998648
Operations and Procedures	Denervation of spinal facet joint of vertebra	T	379101	675	378426	9.59E-05	-9.25175	120.685	1.79E-107	5.14E+98	0.938894	0.998648
Operations and Procedures	Manipulation of spine	T	379101	218	378833	0.000116	-9.06228	198.258	2.01E-173	6.68E+164	0.963542	0.998648
Operations and Procedures	Other operations on intervertebral disc	T	379101	298	378803	8.51E-05	-9.37174	198.238	1.54E-173	4.72E+164	0.962924	0.998648
Operations and Procedures	Other operations on spine	T	379101	4622	374749	1.18	0.163894	0.716239	0.291	4.76	0.818106	0.998648
Operations and Procedures	Levels of spine	T	379101	6828	372273	1.17	0.152764	0.583858	0.371	3.66	0.793595	0.998648
Operations and Procedures	Complex reconstruction of forefoot	T	379101	800	378301	9.65E-05	-9.24595	116.793	3.70E-104	2.52E+95	0.936901	0.998648
Operations and Procedures	Complex reconstruction of hindfoot	T	379101	342	378759	7.14E-05	-9.547	198.342	1.05E-173	4.85E+164	0.961608	0.998648
Operations and Procedures	Total excision of bone	T	379101	1188	377913	2.31	0.83544	0.10566	0.321	16.6	0.406187	0

Operations and Procedures	Release of contracture of joint	T	379101	1613	377488	1.68	0.515959	1.00403	0.234	12	0.607332	0.998648
Operations and Procedures	Soft tissue operations on joint or toe	T	379101	2721	376380	7.96E-05	0.43885	70.0244	1.97E-64	3.21E+55	0.892775	0.998648
Operations and Procedures	Other open operations on joint	T	379101	1273	377828	5.26E-05	-0.8528	120.835	7.31E-108	3.78E+98	0.935013	0.998648
Operations and Procedures	Therapeutic endoscopic operations on semilunar cartilage	T	379101	12492	366609	1.47	0.387607	0.388189	0.688	3.15	0.318073	0.998648
Operations and Procedures	Therapeutic endoscopic operations on other articular cartilage	T	379101	3095	376005	0.798	-0.225154	1.00388	0.112	5.71	0.822536	0.998648
Operations and Procedures	Therapeutic endoscopic operations on other joint structure	T	379101	4753	374348	1.63	0.48922	0.583789	0.519	5.12	0.402026	0.998648
Operations and Procedures	Therapeutic endoscopic operations on cavity of knee joint	T	379101	4112	374989	0.615	-0.48689	1.00366	0.0859	4.39	0.627595	0.998648
Operations and Procedures	Therapeutic endoscopic operations on cavity of other joint	T	379101	583	378518	0.000113	-0.90175	120.844	1.54E-107	8.24E+98	0.940027	0.998648
Operations and Procedures	Diagnostic endoscopic examination of knee joint	T	379101	3016	376085	0.873	-0.13546	1.00368	0.122	6.24	0.89264	0.998648
Operations and Procedures	Diagnostic endoscopic examination of other joint	T	379101	560	378541	4.37E-05	-10.0374	199.027	1.68E-174	1.14E+165	0.959778	0.998648
Operations and Procedures	Operations on other articular cartilage	T	379101	1114	377987	5.80E-05	-9.75565	120.87	7.53E-108	4.46E+98	0.935671	0.998648
Operations and Procedures	Puncture of joint	T	379101	10120	368981	0.558	-0.584201	0.712233	0.138	2.25	0.412084	0.998648
Operations and Procedures	Other manipulation of joint	T	379101	2050	377051	9.22E-05	-0.92906	73.106	5.44E-67	1.56E+58	0.988582	0.998648
Operations and Procedures	Other operations on joint	T	379101	520	378581	4.78E-05	-0.94908	199.575	6.27E-175	3.64E+165	0.960241	0.998648
Operations and Procedures	Hybrid prosthetic replacement of hip joint	T	379101	286	378815	0.000113	-9.11909	191.643	8.12E-168	1.48E+159	0.962048	0.998648
Operations and Procedures	Replacement of hip joint	T	379101	1139	377962	5.87E-05	-9.74344	116.171	7.62E-104	4.52E+94	0.933159	0.998648
Operations and Procedures	Continuous infusion of therapeutic substance	T	379101	8393	370708	0.985	-0.015346	0.584833	0.313	3.1	0.597048	0.998648
Operations and Procedures	Injection of therapeutic substance	T	379101	1288	377813	5.71E-05	9.77077	119.167	2.09E-106	1.56E+97	0.934653	0.998648
Operations and Procedures	Injection of radiocontrast material	T	379101	1644	377457	4.15E-05	-10.0892	120.149	2.22E-107	7.78E+97	0.933078	0.998648
Operations and Procedures	Other blood transfusion	T	379101	4631	374470	1.17	0.154426	0.712759	0.289	4.72	0.828474	0.998648
Operations and Procedures	Other intravenous transfusion	T	379101	222	378789	0.000113	-0.98951	198.902	5.54E-174	2.30E+165	0.963551	0.998648
Operations and Procedures	Other intravenous injection	T	379101	5047	374054	3.61E-05	-10.2292	72.9444	2.92E-67	4.46E+57	0.88477	0.998648
Operations and Procedures	Subcutaneous injection	T	379101	2578	376523	1.05	0.046716	1.00397	0.146	7.5	0.962887	0.998648
Operations and Procedures	Other route of administration of therapeutic substance	T	379101	241	378860	0.000123	-9.0018	194.461	3.65E-170	4.16E+161	0.963078	0.998648
Operations and Procedures	Compensation for renal failure	T	379101	703	378398	3.71	1.31098	1.00358	0.517	26.6	0.192246	0.998648
Operations and Procedures	Immobilisation using plaster cast	T	379101	694	378407	0.000102	-9.39075	120.583	2.32E-107	4.48E+98	0.939245	0.998648
Operations and Procedures	Other operations on unspecified organ	T	379101	2194	376907	4.36E-05	-10.0404	108.296	2.86E-97	6.65E+87	0.926132	0.998648
Operations and Procedures	Radiotherapy delivery	T	379101	2124	376977	2.27	0.818235	0.715415	0.558	9.21	0.25274	0.998648
Operations and Procedures	Preparation for external beam radiotherapy	T	379101	655	378446	9.98E-05	-9.21252	120	7.13E-107	1.40E+98	0.938806	0.998648
Operations and Procedures	Procurement of drugs for chemotherapy for neoplasm in Bands 1 5	T	379101	5730	373371	3.06E-05	-10.3939	72.9295	2.55E-67	3.67E+57	0.886669	0.998648
Operations and Procedures	Procurement of drugs for chemotherapy for neoplasm in Bands 6 10	T	379101	4078	375023	1.25	0.224469	0.710382	0.309	5.06	0.579293	0.998648
Operations and Procedures	Delivery of chemotherapy for neoplasm	T	379101	759	371522	0.693	-0.367178	0.713045	0.171	2.8	0.506592	0.998648
Operations and Procedures	Delivery of oral chemotherapy for neoplasm	T	379101	560	378541	4.48E-05	-10.014	197.459	3.72E-173	5.39E+163	0.959553	0.998648
Operations and Procedures	High cost other cardiovascular drugs	T	379101	535	378566	4.77E-05	-9.94992	196.01	6.79E-172	3.36E+162	0.959515	0.998648
Operations and Procedures	High cost haematology and nutrition drugs	T	379101	606	378495	0.000112	-0.99895	120.331	4.17E-107	2.99E+98	0.939719	0.998648
Operations and Procedures	High cost musculoskeletal drugs	T	379101	570	378531	4.35E-05	-10.0435	199.133	1.36E-174	1.39E+165	0.959775	0.998648
Operations and Procedures	High cost ophthalmology drugs	T	379101	346	378755	6.84E-05	-9.37714	190.448	6.53E-167	1.10E+158	0.960703	0.998648
Operations and Procedures	High cost immunology drugs	T	379101	340	378761	6.98E-05	-9.56956	197.777	3.11E-173	1.57E+164	0.961409	0.998648
Operations and Procedures	Placement of prosthesis in organ NOC	T	379101	3165	375936	0.82	-0.198485	0.00596	0.114	5.89	0.843587	0.998648
Operations and Procedures	Attention to prosthesis in organ NOC	T	379101	299	376172	0.904	-0.0097	10.0396	0.126	6.47	0.919883	0.998648
Operations and Procedures	Obliteration of cavity of organ NOC	T	379101	637	378644	0.000104	-9.1738	119.619	1.56E-106	6.88E+97	0.938860	0.998648
Operations and Procedures	Laser therapy to organ NOC	T	379101	2987	376114	1.78	0.57789	0.713251	0.44	7.21	0.417814	0.998648
Operations and Procedures	Other destruction of organ NOC	T	379101	2176	376925	8.42E-05	-9.38207	73.0689	5.34E-67	1.33E+158	0.897832	0.998648
Operations and Procedures	Chemical destruction of lesion of organ NOC	T	379101	228	378873	0.000119	-9.0369	192.069	3.82E-168	3.69E+159	0.962462	0.998648
Operations and Procedures	Other destruction of lesion of organ NOC	T	379101	2552	376549	1.02	0.017224	1.00396	0.142	7.28	0.986312	0.998648
Operations and Procedures	Placement of stent in organ NOC	T	379101	1320	377811	5.10E-05	-9.88385	117.626	3.81E-105	6.83E+95	0.930308	0.998648
Operations and Procedures	Attention to stent in organ NOC	T	379101	390	378711	6.23E-05	-9.68349	197.955	1.96E-173	1.98E+164	0.960982	0.998648
Operations and Procedures	Connection of organ NOC	T	379101	354	378747	7.06E-05	-9.55861	197.464	8.58E+163	0.961392	0.998648	
Operations and Procedures	Release of organ NOC	T	379101	896	378205	3.07	1.12086	1.00441	0.428	22	0.264451	0.998648
Operations and Procedures	Biopsy of organ NOC	T	379101	7160	371941	0.739	-0.303132	0.710351	0.183	2.99	0.67075	0.998648
Operations and Procedures	Cytology of organ NOC	T	379101	2554	376547	2.21	0.791353	0.710304	0.545	8.93	0.267074	0.998648
Operations and Procedures	Drainage of organ NOC	T	379101	267	376474	6.77E-05	-9.60047	73.4522	2.03E-67	2.26E+58	0.89601	0.998648
Operations and Procedures	Other repair of organ NOC	T	379101	893	378208	2.95	1.08024	1.00433	0.411	21.1	0.28115	0.998648
Operations and Procedures	Graft to organ NOC	T	379101	624	378877	0.000107	-9.1403	121.005	1.07E-107	1.08E+99	0.939788	0.998648
Operations and Procedures	Re exploration of organ NOC	T	379101	217	378884	0.000108	-9.13138	199.089	3.68E-174	3.18E+165	0.963417	0.998648
Operations and Procedures	Puncture of organ NOC	T	379101	315	378786	8.26E-05	-9.40094	198.648	6.68E-174	1.02E+165	0.962524	0.998648
Operations and Procedures	Injection of therapeutic substance into organ NOC	T	379101	608	378493	0.000118	-9.46434	120.707	2.11E-107	6.59E-98	0.940259	0.998648
Operations and Procedures	Dilation of organ NOC	T	379101	512	375859	4.77E-05	-9.95115	197.954	1.50E-173	1.51E+164	0.959907	0.998648
Operations and Procedures	Examination of organ NOC	T	379101	581	378520	4.25E-05	-10.0668	198.743	2.85E-174	6.33E+164	0.959603	0.998648
Operations and Procedures	Open approach to contents of cranium	T	379101	800	378301	8.03E-05	-9.42931	120.995	8.16E-108	7.91E+98	0.937882	0.998648
Operations and Procedures	Burrhole approach to contents of cranium	T	379101	411	378690	5.98E-05	-9.72486	197.552	4.14E-173	8.63E+163	0.960730	0.998648
Operations and Procedures	Approach to spine through back	T	379101	309	378792	7.37E-05	-9.51558	198.285	1.21E-173	4.48E+164	0.961725	0.998648
Operations and Procedures	Approach through thoracic cavity	T	379101	602	378499	4.07E-05	-10.1101	195.137	3.20E-171	5.17E+161	0.95868	0.998648
Operations and Procedures	Approach through abdominal cavity	T	379101	6488	376213	1.75	0.557048	0.508635	0.644	4.73	0.273437	0.998648
Operations and Procedures	Opening into gastrointestinal tract	T	379101	207	378894	0.000126	-8.97718	196.854	4.33E-172	4.64E+163	0.963626	0.998648
Operations and Procedures	Approach to organ through other opening	T	379101	1441	377660	4.69E-05	-9.96745	120.735	7.93E-108	2.77E+98	0.932044	0.998648
Operations and Procedures	Approach to organ under image control	T	379101	45067	334034	1.19	0.173253	0.244236	0.737	1.92	0.478098	0.998648
Operations and Procedures	Harvest of skin for graft	T	379101	2280	376821	1.13	0.120812	0.20081	0.158	8.12	0.900833	0.998648
Operations and Procedures	Harvest of flap of skin and fascia	T	379101	546	378555	4.57E-05	-9.92948	199.548	6.33E-175	3.30E+165	0.960602	0.998648
Operations and Procedures	Harvest of tendon	T	379101	532	378569	4.66E-05	-9.93704	198.152	9.96E-174	2.18E+164	0.958958	0.998648
Operations and Procedures	Harvest of bone	T	379101	1453	377648	1.84	0.611691	0.100393	0.258	13.2	0.543237	0.998648
Operations and Procedures	Harvest of other tissue	T	379101	784	378317	8.47E-05	-9.37604	120.914	1.01E-107	7.11E+98	0.938191	0.998648
Operations and Procedures	Early operations NOC	T	379101	299	376112	6.09E-05	-9.70631	72.6669	8.50E-67	4.36E+57	0.893744	0.998648
Operations and Procedures	Late operations NOC	T	379101	5407	376949	3.29E-05	-10.3231	73.4071	1.08E-67	1.00E+58	0.88161	0.998648
Operations and Procedures	Facilitating operations NOC	T	379101	2533	376568	7.22E-05	-9.93539	69.9018				

Medication	Ranitidine e.g Zantac	T	374768	7205	367563	0.377	-0.974724	1.00369	0.0528	2.7	0.331481	0.998648
Medication	Omeprazole e.g Zanprol	T	374768	22414	352354	1.38	0.319202	0.315961	0.741	2.56	0.312372	0.998648
Medication	Latavox e.g Dulcolax Senokot	T	374768	10818	363950	1.05	0.050506	0.509566	0.387	2.86	0.921047	0.998648
Medication	Vitamin A	T	377036	7193	369843	0.363	-0.10391	1.00363	0.0507	2.59	0.312376	0.998648
Medication	Vitamin C	T	377036	32744	344292	0.872	-0.136743	0.339195	0.471	1.61	0.663122	0.998648
Medication	Vitamin D	T	377036	14603	362433	0.539	-0.617751	0.584856	0.171	1.7	0.290856	0.998648
Medication	Vitamin E	T	377036	11056	365980	0.716	-0.334382	0.584023	0.228	2.25	0.56695	0.998648
Medication	Folic acid or Folate Vit B9	T	377036	8174	368862	0.327	-1.11788	1.0038	0.0457	2.34	0.26543	0.998648
Medication	Multivitamins minerals	T	377036	81736	295300	1.09	0.082501	0.199003	0.735	1.6	0.67842	0.998648
Neurosciences	Headache	T	378231	81591	296640	1.1	0.092408	0.201149	0.739	1.63	0.645948	0.998648
Neurosciences	Facial pain	T	378231	12842	365389	0.422	-0.863658	0.712016	0.104	1.7	0.225139	0.998648
Neurosciences	Neck or shoulder pain	T	378231	92289	35942	0.874	-0.135117	0.20296	0.587	1.3	0.505582	0.998648
Neurosciences	Stomach or abdominal pain	T	378231	37960	340271	0.69	-0.371428	0.328525	0.362	1.31	0.258227	0.998648
Neurosciences	Knee pain	T	378231	86052	292179	0.762	-0.271308	0.217145	0.498	1.17	0.211057	0.998648
Neurosciences	Pain all over the body	T	378231	5847	372384	0.469	-0.757062	1.00365	0.0656	3.35	0.450663	0.998648
Medication	Fish oil including cod liver oil	T	377850	119641	258209	1.03	0.024893	0.181749	0.718	1.46	0.891062	0.998648
Medication	Calcium	T	377850	25583	352267	1.09	0.08213	0.334131	0.564	2.09	0.805835	0.998648
Medication	Zinc	T	377850	15460	362390	0.499	-0.695071	0.583819	0.159	1.57	0.233827	0.998648
Medication	Selenium	T	377850	9070	368780	1.17	0.154095	0.507733	0.431	3.16	0.761512	0.998648
Cardiovascular	Hypertension (HES and self-reported)	T	379101	98025	281076	1.03	0.033992	0.194949	0.706	1.52	0.861578	0.998648
Cardiovascular	Heart/cardiac problem (HES and self-reported)	T	379101	25675	353426	0.692	-0.367631	0.39514	0.319	1.5	0.352173	0.998648
Cardiovascular	Peripheral vascular disease (HES and self-reported)	T	379101	1859	377242	3.71E-05	-10.203	118.904	2.27E-106	6.05E+96	0.931624	0.998648
Cardiovascular	Venous thromboembolic disease (HES and self-reported)	T	379101	3983	375118	1.32	0.279195	0.713007	0.327	5.35	0.695373	0.998648
Cardiovascular	Essential hypertension (HES and self-reported)	T	379101	71076	308025	0.915	-0.087861	0.227943	0.585	1.43	0.696582	0.998648
Cardiovascular	Gestational hypertension/preeclampsia (HES and self-reported)	T	379101	2534	376567	3.74E-05	-10.1929	107.609	9.43E-97	1.49E+87	0.24536	0.998648
Cardiovascular	Heart attack/myocardial infarction (HES and self-reported)	T	379101	12068	367033	0.632	-0.458306	0.589614	0.199	2.01	0.436983	0.998648
Cardiovascular	Heart failure/pulmonary oedema (HES and self-reported)	T	379101	5221	373880	3.68E-05	-10.2089	70.1286	7.44E-65	1.82E+55	0.884257	0.998648
Cardiovascular	Heart arrhythmia (HES and self-reported)	T	379101	21190	357911	1.26	0.234766	0.333938	0.657	2.43	0.482041	0.998648
Cardiovascular	Heart valve problem/heart murmur (HES and self-reported)	T	379101	7532	371569	1.8	0.588838	0.457061	0.736	4.41	0.197637	0.998648
Cardiovascular	Cardiomyopathy (HES and self-reported)	T	379101	1272	377829	5.14E-05	-9.87492	119.709	2.27E-106	1.16E+97	0.933904	0.998648
Cardiovascular	Pericardial problem (HES and self-reported)	T	379101	1268	377833	0.206	0.721236	1.00492	0.287	14.7	0.47938	0.998648
Cardiovascular	Stroke (HES and self-reported)	T	379101	8571	370530	1.58	0.460568	0.458677	0.645	3.89	0.31532	0.998648
Cardiovascular	Transient ischaemic attack/tia (HES and self-reported)	T	379101	3570	375531	0.759	-0.275716	1.00566	0.106	5.45	0.783958	0.998648
Cardiovascular	Subdural haemorrhage/haematoma (HES and self-reported)	T	379101	380	378721	6.67E-05	-9.61519	194.83	9.58E-171	4.64E+161	0.960639	0.998648
Cardiovascular	Arterial embolism (HES and self-reported)	T	379101	762	378339	9.70E-05	-9.24103	115.869	2.28E-103	4.13E+94	0.936433	0.998648
Cardiovascular	Deep venous thrombosis/dvt (HES and self-reported)	T	379101	8917	370184	1.52	0.417009	0.456424	0.62	3.71	0.360904	0.998648
Respiratory	Interstitial lung disease (HES and self-reported)	T	379101	1083	378018	6.66E-05	-9.61722	116.837	2.34E-104	1.89E+95	0.934394	0.998648
Respiratory	Asbestosis (HES and self-reported)	T	379101	271	378380	4.11E-05	-10.093	286.554	4.95E-249	3.42E+239	0.71885	0.998648
Respiratory	Pulmonary fibrosis (HES and self-reported)	T	379101	789	378312	9.40E-05	-9.27219	116.115	1.36E-103	6.49E+94	0.936354	0.998648
ENT	Sleep apnoea (HES and self-reported)	T	379101	4559	374542	0.554	-0.591111	1.00432	0.0773	3.96	0.556149	0.998648
Digestive system	Oesophageal disorder (HES and self-reported)	T	379101	980	370201	1.19	0.171365	0.509036	0.438	3.22	0.376384	0.998648
Digestive system	Stomach disorder (HES and self-reported)	T	379101	701	734718	1.53	0.426665	0.508251	0.566	4.15	0.401204	0.998648
Digestive system	Other abdominal problem (HES and self-reported)	T	379101	3980	339211	1.09	0.089126	0.266277	0.648	1.84	0.738268	0.998648
Digestive system	Gastrooesophageal reflux/gord/gastric reflux (HES and self-reported)	T	379101	32601	346500	0.91	-0.094823	0.314802	0.491	1.69	0.763251	0.998648
Digestive system	Oesophagitis/barretts oesophagus (HES and self-reported)	T	379101	2021	368580	1.02	0.021674	0.508528	0.377	2.77	0.566004	0.998648
Digestive system	Oesophageal stricture (HES and self-reported)	T	379101	1781	377320	3.84E-05	-10.1665	118.796	2.91E-106	5.08E+96	0.9318	0.998648
Digestive system	Oesophageal varices (HES and self-reported)	T	379101	501	378600	5.05E-05	-9.89441	195.924	8.49E-172	3.00E+162	0.597723	0.998648
Digestive system	Gastric/stomach ulcers (HES and self-reported)	T	379101	6128	372973	0.898	-0.107482	0.713436	0.222	3.64	0.880249	0.998648
Digestive system	Gastritis/gastric erosions (HES and self-reported)	T	379101	21127	357974	1.06	0.06186	0.365356	0.52	2.18	0.865549	0.998648
Digestive system	Irritable bowel syndrome (HES and self-reported)	T	379101	2379	366722	0.665	-0.085654	0.584598	0.211	2.09	0.484626	0.998648
Digestive system	Hepatitis (HES and self-reported)	T	379101	1662	377439	4.08E-05	-10.107	120.708	7.28E-108	2.29E+98	0.93327	0.998648
Digestive system	Infective/inflammatory hepatitis (HES and self-reported)	T	379101	1240	377861	5.37E-05	-9.83251	120.723	9.30E-108	3.10E+98	0.935087	0.998648
Digestive system	Noninfective hepatitis (HES and self-reported)	T	379101	1195	377906	5.72E-05	-9.76918	120.754	9.32E-108	3.51E+98	0.935521	0.998648
Digestive system	Bile duct obstruction/ascending cholangitis (HES and self-reported)	T	379101	936	378165	7.12E-05	-9.54959	120.118	4.00E-107	1.26E+98	0.936633	0.998648
Digestive system	Cholelithiasis/gall stones (HES and self-reported)	T	379101	16555	362546	1.56	0.464678	0.346968	0.792	3.08	0.198165	0.998648
Digestive system	Cholecystitis (HES and self-reported)	T	379101	2791	376310	6.76E-05	-9.60143	72.9683	5.23E-67	8.75E+57	0.895314	0.998648
Digestive system	Peritonitis (HES and self-reported)	T	379101	1989	377112	2.7	0.991897	0.172938	0.667	10.9	0.161414	0.998648
Digestive system	Gastrointestinal bleeding (HES and self-reported)	T	379101	8293	370808	1.64	0.49299	0.456031	0.67	4	0.279677	0.998648
Genitourinary	Renal/kidney failure (HES and self-reported)	T	379101	8356	370745	0.958	-0.042568	0.586798	0.303	3.03	0.94217	0.998648
Genitourinary	Renal failure requiring dialysis (HES and self-reported)	T	379101	660	378441	0.000101	-9.19719	120.001	7.22E-107	1.42E+98	0.593809	0.998648
Genitourinary	Urinary tract infection/kidney infection (HES and self-reported)	T	379101	12655	366446	0.10	0.085028	0.456433	0.445	2.66	0.85222	0.998648
Genitourinary	Kidney stone/urter stone/bladder stone (HES and self-reported)	T	379101	6694	372407	2.62E-05	-10.5503	72.3144	7.29E-67	9.40E+56	0.880404	0.998648
Genitourinary	Ureteric obstruction/hydronephrosis (HES and self-reported)	T	379101	2626	376475	0.975	-0.010589	1.004209	0.138	7.08	0.991587	0.998648
Genitourinary	Bladder problem not cancer (HES and self-reported)	T	379101	10748	368353	1.23	0.208556	0.457707	0.502	3.02	0.648623	0.998648
Genitourinary	Urinary frequency/incontinence (HES and self-reported)	T	379101	11734	367367	0.953	-0.048116	0.508625	0.352	2.58	0.244746	0.998648
Genitourinary	Scrotal problem not cancer (HES and self-reported)	T	379101	1382	377179	4.83E-08	-16.8457	3466.67	0 Inf	0 Inf	0.963114	0.998648
Genitourinary	Testicular problems not cancer (HES and self-reported)	T	379101	1283	377818	1.9	0.640398	1.00749	0.263	13.7	0.250102	0.998648
Metabolic	Diabetes (HES and self-reported)	T	379101	15907	363194	0.482	-0.723971	0.585752	0.153	1.52	0.21687	0.998648
Metabolic	Gestational diabetes (HES and self-reported)	T	379101	363	378733	8.20E-05	-9.40836	185.127	1.21E-162	3.14E+153	0.956468	0.998648
Metabolic	Type 1 diabetes (HES and self-reported)	T	379101	2663	376438	0.978	-0.022031	1.00407	0.137	7	0.829424	0.998648
Metabolic	Hyperthyroidism/thyrotoxicosis (HES and self-reported)	T	379101	4020	375081	0.693	-0.366494	0.00496	0.0967	4.97	0.175348	0.998648
Metabolic	Hypothyroidism/mmyxoedema (HES and self-reported)	T	379101	22541	356560	0.734	-0.309824	0.421698	0.321	1.68	0.462519	0.998648
Metabolic	Thyroid radioablation therapy (HES and self-reported)	T	379101	2506	376595	1.98	0.688061	0.715262	0.488	8.06	0.338178	0.998648
Metabolic	Parathyroid/gland problem not cancer (HES and self-reported)	T	379101	274	378273	9.41E-05	-9.27164	196.535	4.78E-172	1.85E+163	0.962373	0.998648
Metabolic	Parathyroid hyperplasia/adenoma (HES and self-reported)	T	379101	419	378682</td							

Musculoskeletal	Paget disease (HES and self-reported)	T	379101	272	378829	9.44E-05	-9.26828	197.317	1.04E-172	8.60E+163	0.962536	0.998648
Musculoskeletal	Spine arthritisspondylitis (HES and self-reported)	T	379101	10404	368697	0.538	-0.620245	0.713146	0.133	2.18	0.384477	0.998648
Musculoskeletal	Prolapsed discplished disc (HES and self-reported)	T	379101	8220	370881	0.969	-0.031826	0.583617	0.309	3.04	0.956511	0.998648
Musculoskeletal	Ankylosing spondylitis (HES and self-reported)	T	379101	1308	377793	5.12E-05	-9.87941	120.329	1.94E-107	1.36E+98	0.934562	0.998648
Musculoskeletal	Myositismyopathy (HES and self-reported)	T	379101	338	378763	7.26E-05	-9.53044	199.339	1.51E-174	3.48E+165	0.961867	0.998648
Haematology	Low plateletplatelet disorder (HES and self-reported)	T	379101	1618	377483	4.18E-05	-10.0835	120.566	9.84E-108	1.77E+98	0.933347	0.998648
Haematology	Iron deficiency anaemia (HES and self-reported)	T	379101	8597	370504	1.62	0.479385	0.455903	0.661	3.95	0.293026	0.998648
Haematology	Pernicious anaemia (HES and self-reported)	T	379101	1499	377602	5.06E-05	-9.89228	119.144	1.93E-106	1.32E+97	0.933826	0.998648
Haematology	Aplastic anaemia (HES and self-reported)	T	379101	429	378672	6.01E-05	-9.71898	196.316	4.69E-172	7.70E+162	0.960515	0.998648
Gynaecology and Obstetrics	Gynaecological disorder not c (HES and self-reported)	T	379101	16832	362269	1.03	0.027452	0.427006	0.445	2.37	0.94874	0.998648
Gynaecology and Obstetrics	Ovarian cyst or cysts (HES and self-reported)	T	379101	6134	372967	3.41E-08	-17.194	2203.33	0	Inf	0.993774	0.998648
Gynaecology and Obstetrics	Polyzystic ovariespolycystic ovarian syndrome (HES and self-reported)	T	379101	580	378521	6.44E-08	-16.558	5715.8	0	Inf	0.997689	0.998648
Gynaecology and Obstetrics	Uterine fibroids (HES and self-reported)	T	379101	13674	365427	5.99E-06	-12.0252	109.115	7.89E-99	4.55E+87	0.912425	0.998648
Gynaecology and Obstetrics	Uterine polyps (HES and self-reported)	T	379101	8016	371085	1.43	0.352889	0.515108	0.521	3.93	0.486704	0.998648
Gynaecology and Obstetrics	Breast disease not cancer (HES and self-reported)	T	379101	3704	375397	0.795	-0.229754	1.00636	0.111	5.71	0.819412	0.998648
Gynaecology and Obstetrics	Fibrocystic disease (HES and self-reported)	T	379101	1743	377358	4.99E-05	-9.90514	111.372	7.88E-100	3.16E+90	0.929132	0.998648
Gynaecology and Obstetrics	Breast cysts (HES and self-reported)	T	379101	1673	377428	5.38E-05	-9.82981	110.975	1.85E-99	1.57E+90	0.929149	0.998648
Immuno-inflammation	Sarcoidosis (HES and self-reported)	T	379101	930	378171	6.70E-05	-9.61079	120.997	6.78E-108	6.62E+98	0.936661	0.998648
Musculoskeletal	Vasculitis (HES and self-reported)	T	379101	1756	377345	1.56	0.442687	1.00576	0.217	11.2	0.659828	0.998648
Immuno-inflammation	Connective tissue disorder (HES and self-reported)	T	379101	2304	376797	1.2	0.185095	1.00527	0.168	8.63	0.853915	0.998648
Immuno-inflammation	Allergyhypersensitivityanaphylaxis (HES and self-reported)	T	379101	3101	376000	0.902	-0.10319	1.00396	0.126	6.45	0.918135	0.998648
Musculoskeletal	Giant celltemporal arteritis (HES and self-reported)	T	379101	395	378706	7.48E-05	-9.50122	188.67	1.88E-165	2.97E+156	0.958834	0.998648
Musculoskeletal	Polymyalgia rheumatica (HES and self-reported)	T	379101	1540	377561	4.92E-05	-9.92014	114.771	9.92E-103	2.44E+93	0.931211	0.998648
Musculoskeletal	Systemic lupus erythematosissle (HES and self-reported)	T	379101	547	378554	5.51E-05	-9.806	192.993	2.90E-169	1.05E+160	0.959477	0.998648
Musculoskeletal	Sjogrens syndromesicca syndrome (HES and self-reported)	T	379101	614	378487	5.01E-05	-9.90225	189.163	4.79E-166	5.23E+156	0.958252	0.998648
Musculoskeletal	Sclerodermaesystemic sclerosis (HES and self-reported)	T	379101	201	378900	5.02E-05	-9.90029	318.111	8.29E-276	3.03E+266	0.975172	0.998648
Immuno-inflammation	Allergy or anaphylactic reaction to drug (HES and self-reported)	T	379101	4200	374901	4.39E-05	-10.0338	73.2011	2.15E-67	8.96E+57	0.890974	0.998648
Immuno-inflammation	Hayfeverallergic rhinitis (HES and self-reported)	T	379101	2257	356844	1.27	0.24143	0.31463	0.687	2.36	0.424875	0.998648
Neurosciences	Other demyelinating disease not multiple sclerosis (HES and self-reported)	T	379101	1324	377777	5.11E-05	-9.88262	120.269	2.15E-107	1.21E+98	0.934511	0.998648
Digestive system	Peptic ulcer (HES and self-reported)	T	379101	770	378331	3.61	1.28245	1.00625	0.502	25.9	0.202495	0.998648
Gynaecology and Obstetrics	Endometriosis (HES and self-reported)	T	379101	5960	373141	0.484	-0.724908	1.00833	0.0671	3.5	0.471280	0.998648
Gynaecology and Obstetrics	Female infertility (HES and self-reported)	T	379101	1328	377773	7.90E-08	-16.354	3489.95	0	Inf	0.962561	0.998648
Genitourinary	Other renalkidney problem (HES and self-reported)	T	379101	5423	376378	3.26E-05	-10.3324	72.9979	2.37E-67	4.46E+57	0.88744	0.998648
Musculoskeletal	Muscle or soft tissue injuries (HES and self-reported)	T	379101	9386	369715	0.561	-0.577867	0.71193	0.139	2.26	0.416969	0.998648
Musculoskeletal	Burns (HES and self-reported)	T	379101	765	378336	3.4	1.22441	1.00478	0.475	24.4	0.230303	0.998648
Other	Other substance abusedependency (HES and self-reported)	T	379101	10328	368773	0.786	-0.240826	0.584511	0.25	2.47	0.68033	0.998648
Respiratory	Bronchitis (HES and self-reported)	T	379101	3358	375743	1.6	0.468215	0.712538	0.395	6.45	0.51111	0.998648
ENT	Throat or larynx disorder (HES and self-reported)	T	379101	3484	375617	5.29E-05	-9.8474	73.4089	1.72E-67	1.62E+58	0.893288	0.998648
ENT	Earvestibular disorder (HES and self-reported)	T	379101	12078	367023	0.884	-0.122956	0.50765	0.327	2.39	0.80862	0.998648
ENT	Chronic sinusitis (HES and self-reported)	T	379101	4361	374740	0.604	-0.50413	1.00355	0.0845	4.32	0.615423	0.998648
ENT	Chronic laryngitis (HES and self-reported)	T	379101	1014	378087	6.94E-05	-9.57496	119.614	1.06E-106	4.56E+97	0.936198	0.998648
ENT	Vocal cord polyp (HES and self-reported)	T	379101	392	378709	6.72E-05	-9.60749	198.354	9.66E-174	4.68E+164	0.961369	0.998648
ENT	Otosclerosis (HES and self-reported)	T	379101	416	376865	5.78E-05	-9.75819	199.274	1.37E-174	2.44E+165	0.960944	0.998648
ENT	Menieres disease (HES and self-reported)	T	379101	1305	377796	5.31E-05	-9.8424	120.099	3.13E-107	9.03E+97	0.934685	0.998648
Genitourinary	Polyclastic kidney (HES and self-reported)	T	379101	1630	377471	4.13E-05	-10.0936	119.217	1.77E-106	1.25E+97	0.932527	0.998648
ENT	Thyroiditis (HES and self-reported)	T	379101	442	378569	6.33E-05	-9.66736	192.339	1.21E-168	3.30E+159	0.959912	0.998648
Metabolic	Hypopituitarism (HES and self-reported)	T	379101	446	378655	5.59E-05	-9.79206	198.972	2.39E-174	1.31E+165	0.960740	0.998648
Neurosciences	Other neurological problem (HES and self-reported)	T	379101	8378	370723	0.954	-0.046694	0.583762	0.304	3	0.932467	0.998648
Neurosciences	Myasthenia gravis (HES and self-reported)	T	379101	206	378895	0.000121	-9.01975	198.008	4.34E-173	4.27E+164	0.963667	0.998648
Infectious disease	Hiv/aids (HES and self-reported)	T	379101	309	378792	8.41E-05	-9.38333	183.133	1.09E-160	6.47E+151	0.959136	0.998648
Infectious disease	Tuberculosis tb (HES and self-reported)	T	379101	1905	377199	3.81E-05	-10.1761	117.845	1.86E-105	7.80E+95	0.931187	0.998648
Infectious disease	Malaria (HES and self-reported)	T	379101	480	378621	4.83E-05	-9.9388	198.499	5.22E-174	4.46E+164	0.960067	0.998648
Infectious disease	Helicobacter pylori (HES and self-reported)	T	379101	1773	377328	4.35E-05	-10.0436	118.938	2.49E-106	7.59E+96	0.932704	0.998648
Haematology	Clotting disorderexcessive bleeding (HES and self-reported)	T	379101	2706	376935	6.72E-05	-9.60717	73.3476	2.47E-67	1.83E+58	0.89579	0.998648
Haematology	Anaemia (HES and self-reported)	T	379101	17268	361833	1.46	0.377229	0.34526	0.741	2.87	0.274572	0.998648
Haematology	Pancytopenia (HES and self-reported)	T	379101	406	378695	6.36E-05	-9.66228	196.084	7.83E-172	5.17E+162	0.960699	0.998648
Haematology	Neutropeniahypopoenia (HES and self-reported)	T	379101	2972	376129	6.23E-05	-9.68284	73.029	3.85E-67	1.01E+58	0.894596	0.998648
Haematology	Hereditarygenetic haemato logical disorder (HES and self-reported)	T	379101	463	378638	5.33E-05	-9.83927	199.194	1.48E-174	1.92E+165	0.960604	0.998648
Immuno-inflammation	Eczemadermatitis (HES and self-reported)	T	379101	11296	367805	0.679	-0.387134	0.583653	0.216	2.13	0.307141	0.998648
Immuno-inflammation	Psoriasis (HES and self-reported)	T	379101	5583	373518	1.45	0.373993	0.583929	0.463	4.57	0.512862	0.998648
Immuno-inflammation	Blisteringdesquamating skin disorder (HES and self-reported)	T	379101	748	378353	8.70E-05	-9.35016	210.186	7.39E-108	1.02E+99	0.938447	0.998648
Digestive system	Malabsorptioncoeliac disease (HES and self-reported)	T	379101	2523	376578	7.17E-05	-9.54313	73.1688	3.74E-65	1.37E+58	0.896229	0.998648
Digestive system	Duodenal ulcer (HES and self-reported)	T	379101	4066	375003	1.34	0.291191	0.714662	0.33	5.43	0.683676	0.998648
Digestive system	Diverticular diseasediverticulitis (HES and self-reported)	T	379101	352570	1.03	0.038189	0.33178	0.54	1.98	0.981812	0.998648	
Digestive system	Colitisnot crohn or ulcerative colitis (HES and self-reported)	T	379101	15433	363668	1.06	0.059081	0.417574	0.468	2.4	0.878476	0.998648
Digestive system	Rectal or colon adenomapoly (HES and self-reported)	T	379101	28426	350855	1.15	0.140401	0.303818	0.637	2.09	0.635451	0.998648
Digestive system	Inflammatory bowel disease (HES and self-reported)	T	379101	4246	374855	4.21E-05	-10.0765	73.4694	1.22E-67	1.45E+58	0.89091	0.998648
Digestive system	Crohns disease (HES and self-reported)	T	379101	1817	377283	3.63E-05	-10.2229	121.214	2.40E-108	5.49E+98	0.932788	0.998648
Digestive system	Ulcerative colitis (HES and self-reported)	T	379101	3555	375546	5.06E-05	-9.89186	73.4131	1.64E-106	1.56E+58	0.892815	0.998648
Musculoskeletal	Rheumatoid arthritis (HES and self-reported)	T	379101	6232	372869	0.908	-0.056913	0.713038	0.224	3.67	0.891928	0.998648
Musculoskeletal	Osteoarthritis (HES and self-reported)	T	379101	58523	372057	0.818	-0.20446	0.256627	0.494	1.35	0.432436	0.998648
Musculoskeletal	Gout (HES and self-reported)	T	379101	6858	372243	0.712	-0.3397	0.071724	0.175	2.9	0.635625	0.998648
Musculoskeletal	Other joint disorder (HES and self-reported)	T	379101	9807	372							

Eye	Dry eyes (HES and self-reported)	T	379101	847	378254	3.42	1.23095	1.00648	0.476	24.6	0.22132	0.998648
Musculoskeletal	Disc problem (HES and self-reported)	T	379101	8039	371062	0.657	-0.420531	0.711772	0.163	2.65	0.556439	0.998648
Musculoskeletal	Disc degeneration (HES and self-reported)	T	379101	2914	376187	0.918	-0.085692	0.00386	0.128	6.57	0.931974	0.998648
Musculoskeletal	Back pain (HES and self-reported)	T	379101	14806	364295	0.722	-0.325414	0.507325	0.267	1.95	0.521243	0.998648
Musculoskeletal	Spinal stenosis (HES and self-reported)	T	379101	3421	375680	0.778	-0.250947	1.00453	0.109	5.57	0.80273	0.998648
Musculoskeletal	Joint pain (HES and self-reported)	T	379101	8344	370757	1.64	0.497514	0.455594	0.673	4.02	0.274828	0.998648
Musculoskeletal	Arthritis nos (HES and self-reported)	T	379101	13143	365958	0.849	-0.164097	0.50922	0.313	2.3	0.47262	0.998648
Musculoskeletal	Plantar fascitis (HES and self-reported)	T	379101	448	378653	5.43E-05	-9.82154	199.54	7.63E-175	3.86E+165	0.960743	0.998648
Musculoskeletal	Carpal tunnel syndrome (HES and self-reported)	T	379101	9101	370000	0.29	-1.23638	1.004	0.0406	2.08	0.218156	0.998648
Musculoskeletal	Fibromyalgia (HES and self-reported)	T	379101	1223	377878	6.14E-05	-9.69747	116.859	2.07E-104	1.82E+95	0.933864	0.998648
Musculoskeletal	Dupuytrens contracture (HES and self-reported)	T	379101	3300	375801	5.79E-05	-9.75647	70.0539	1.35E-64	2.48E+55	0.889236	0.998648
Musculoskeletal	Neck problem/injury (HES and self-reported)	T	379101	520	378581	4.52E-05	-10.0049	199.464	7.37E-175	2.77E+165	0.959952	0.998648
Immuno-inflammation	Acneane vulgaris (HES and self-reported)	T	379101	277	378284	9.29E-05	-9.28398	195.907	1.62E-171	5.34E+162	0.962203	0.998648
Immuno-inflammation	Lichen planus (HES and self-reported)	T	379101	627	378474	0.00012	-9.02506	119.344	3.11E-106	4.66E+97	0.93972	0.998648
Immuno-inflammation	Lichen sclerosis (HES and self-reported)	T	379101	542	378559	5.25E-05	-9.85497	190.223	6.29E-167	4.38E+157	0.958682	0.998648
Gynaecology and Obstetrics	Ovarian problem (HES and self-reported)	T	379101	4956	374145	4.41E-08	-16.9362	2192.04	0 Inf	0.993835	0.998648	
Gynaecology and Obstetrics	Cervical problem (HES and self-reported)	T	379101	6385	372716	0.442	-0.816537	1.00748	0.0613	3.18	0.471668	0.998648
Gynaecology and Obstetrics	Cervical intraepithelial neoplasia cin precan (HES and self-reported)	T	379101	1670	377431	4.95E-08	-16.8204	3614.32	0 Inf	0.996287	0.998648	
Gynaecology and Obstetrics	Cervical polyps (HES and self-reported)	T	379101	3066	376035	6.97E-08	-16.4797	2210.57	0 Inf	0.994052	0.998648	
Gynaecology and Obstetrics	Menorrhagia unknown cause (HES and self-reported)	T	379101	12816	366285	1.19	0.176032	0.468702	0.476	2.99	0.707235	0.998648
Gynaecology and Obstetrics	Pelvic inflammatory disease pid (HES and self-reported)	T	379101	4037	375064	1.46	0.381105	0.701956	0.358	5.99	0.956107	0.998648
Gynaecology and Obstetrics	Ectopic pregnancy (HES and self-reported)	T	379101	539	378562	5.78E-08	-16.6659	587.41	0 Inf	0.997736	0.998648	
Gynaecology and Obstetrics	Miscarriage (HES and self-reported)	T	379101	1976	377125	4.56E-08	-16.9027	3519.92	0 Inf	0.996169	0.998648	
Gynaecology and Obstetrics	Breast fibroadenoma (HES and self-reported)	T	379101	1450	377651	6.02E-05	-9.71793	111.226	1.26E-99	2.88E+90	0.930377	0.998648
Musculoskeletal	Raynauds phenomenon/disease (HES and self-reported)	T	379101	1315	377786	5.30E-05	-9.84471	111.957	4.12E-107	6.82E+97	0.934592	0.998648
Immuno-inflammation	Food intolerance (HES and self-reported)	T	379101	306	378795	7.84E-05	-9.4541	197.811	3.27E-173	1.88E+164	0.961881	0.998648
Immuno-inflammation	Urticaria (HES and self-reported)	T	379101	530	378571	4.73E-05	-9.95919	199.326	1.01E-174	2.21E+165	0.960150	0.998648
Infectious disease	Infectious mononucleosis glandular fever epste (HES and self-reported)	T	379101	517	378584	4.31E-05	-10.0527	197.975	1.30E-173	1.43E+164	0.955903	0.998648
Infectious disease	Measles morbillivirus (HES and self-reported)	T	379101	1296	377805	1.87	0.627701	1.00431	0.262	13.4	0.531968	0.998648
Infectious disease	Mumps epidemic parotitis (HES and self-reported)	T	379101	830	378271	2.9	0.6515	0.4603	0.405	20.8	0.289034	0.998648
Infectious disease	Rubella german measles (HES and self-reported)	T	379101	452	378649	4.95E-05	-9.91286	197.507	3.75E-173	6.55E+163	0.959971	0.998648
Infectious disease	Chickenpox (HES and self-reported)	T	379101	1557	377544	1.54	0.433447	1.00434	0.215	11	0.66603	0.998648
Infectious disease	Shingles (HES and self-reported)	T	379101	734	378367	3.65	1.29446	1.00492	0.509	26.2	0.197702	0.998648
Infectious disease	Herpes simplex (HES and self-reported)	T	379101	373	378728	6.59E-05	-9.62688	199.509	9.85E-175	4.41E+165	0.961515	0.998648
Infectious disease	Hepatitis c (HES and self-reported)	T	379101	331	378770	7.92E-05	-9.44345	194.792	1.23E-170	5.12E+161	0.961334	0.998648
Cardiovascular	Ischaemic stroke (HES and self-reported)	T	379101	2968	376133	1.82	0.598545	0.714984	0.448	7.39	0.402512	0.998648
Cardiovascular	Mitral regurgitation incompetence (HES and self-reported)	T	379101	2024	377077	2.65	0.973305	0.71497	0.652	10.7	0.173411	0.998648
Cardiovascular	Aortic valve disease (HES and self-reported)	T	379101	2405	376696	1.1	0.092737	1.00627	0.153	7.89	0.926572	0.998648
Cardiovascular	Pericarditis (HES and self-reported)	T	379101	1193	377900	2.17	0.774761	1.005	0.303	15.6	0.404761	0.998648
Cardiovascular	Varicose ulcer (HES and self-reported)	T	379101	232	378869	0.000109	-9.12827	195.625	3.28E-171	3.59E+162	0.962782	0.998648
Respiratory	Respiratory infection (HES and self-reported)	T	379101	9656	369445	1.72	0.514042	0.41975	0.757	3.9	0.195199	0.998648
Respiratory	Pleural plaques not known asbestos (HES and self-reported)	T	379101	690	378411	3.83	1.34379	1.01301	0.526	27.9	0.184666	0.998648
ENT	Tinnitus tinnitus (HES and self-reported)	T	379101	1088	378013	6.03E-05	-9.71655	120.024	4.11E-107	8.84E+97	0.935478	0.998648
ENT	Tonsilitis (HES and self-reported)	T	379101	3534	375671	4.87E-05	-9.93013	73.254	2.19E-67	1.08E+58	0.892150	0.998648
Digestive system	Constipation (HES and self-reported)	T	379101	971	369370	0.563	-0.573647	0.71221	0.14	2.28	0.420562	0.998648
Digestive system	Bowel intestinal perforation (HES and self-reported)	T	379101	387	378714	6.66E-05	-9.61692	197.703	3.43E-173	1.29E+164	0.961204	0.998648
Digestive system	Bowel intestinal infarction (HES and self-reported)	T	379101	264	378837	0.000101	-9.19561	196.723	3.57E-172	2.89E+163	0.962717	0.998648
Digestive system	Bowel intestinal obstruction (HES and self-reported)	T	379101	3937	375164	0.69	-0.370579	1.00393	0.0965	4.94	0.710233	0.998648
Digestive system	Rectal prolapse (HES and self-reported)	T	379101	1030	378071	7.18E-05	-9.54093	118.309	1.41E-105	3.66E+96	0.935725	0.998648
Digestive system	Alcoholic liver disease alcoholic cirrhosis (HES and self-reported)	T	379101	824	378277	3.25	1.17931	1.00763	0.451	23.4	0.241846	0.998648
Digestive system	Femoral hernia (HES and self-reported)	T	379101	643	378458	0.00011	-9.18081	119.528	1.98E-106	6.09E+97	0.939194	0.998648
Genitourinary	Diabetic nephropathy (HES and self-reported)	T	379101	242	378595	0.000103	-9.81819	194.167	5.42E-170	1.95E+161	0.962286	0.998648
Genitourinary	Nephritis (HES and self-reported)	T	379101	1824	377277	3.72E-05	-10.2004	119.378	8.98E-107	1.54E+97	0.931906	0.998648
Genitourinary	Glomerulonephritis (HES and self-reported)	T	379101	1746	377355	3.90E-05	-10.1526	119.351	9.93E-107	1.53E+97	0.93221	0.998648
Metabolic	Hyperparathyroidism (HES and self-reported)	T	379101	788	378313	3.49	1.25054	1.00558	0.487	25.1	0.213646	0.998648
Eye	Blepharitis eyelid infection (HES and self-reported)	T	379101	653	378448	0.000103	-9.18539	119.956	7.92E-107	1.33E+98	0.938965	0.998648
Mental health	Stress (HES and self-reported)	T	379101	662	378439	4.01	1.38982	1.00461	0.56	28.8	0.166528	0.998648
Mental health	Obsessive compulsive disorder ocd (HES and self-reported)	T	379101	208	378893	0.000112	-9.08086	198.055	2.89E-173	4.33E+164	0.963336	0.998648
Mental health	Insomnia (HES and self-reported)	T	379101	5225	373876	0.487	-0.718563	1.00414	0.0681	3.49	0.471821	0.998648
Musculoskeletal	Osteopenia (HES and self-reported)	T	379101	990	378111	8.11E-05	-9.42029	113.176	3.73E-101	1.76E+92	0.933664	0.998648
Musculoskeletal	Soft tissue inflammation (HES and self-reported)	T	379101	9317	369784	1.16	0.15037	0.507432	0.43	3.14	0.766973	0.998648
Musculoskeletal	Tendonitis tendinitis tenosynovitis (HES and self-reported)	T	379101	5613	373488	0.473	-0.794047	1.00364	0.0661	3.38	0.455253	0.998648
Musculoskeletal	Epicondylitis (HES and self-reported)	T	379101	745	378356	3.6	1.27889	1.00473	0.502	25.8	0.207211	0.998648
Musculoskeletal	Tennis elbow lateral epicondylitis (HES and self-reported)	T	379101	796	378305	3.35	1.20776	1.00457	0.467	24	0.22926	0.998648
Musculoskeletal	Housemaids knee prepatellar bursitis (HES and self-reported)	T	379101	300	378801	8.12E-05	-9.41845	194.804	1.23E-170	5.37E+161	0.961439	0.998648
Musculoskeletal	Fracture skull head (HES and self-reported)	T	379101	2136	376965	8.42E-05	-9.38224	72.6438	1.23E-66	5.77E+57	0.897236	0.998648
Musculoskeletal	Fracture jaw (HES and self-reported)	T	379101	790	378131	8.46E-05	-9.37793	118.276	1.77E-105	4.03E+96	0.936803	0.998648
Musculoskeletal	Fracture nose (HES and self-reported)	T	379101	1043	378058	6.12E-05	-9.70114	119.533	1.09E-106	3.43E+97	0.935316	0.998648
Musculoskeletal	Fracture face orbit eye socket (HES and self-reported)	T	379101	477	378624	4.96E-05	-9.91065	195.603	1.56E-171	1.58E+162	0.955951	0.998648
Musculoskeletal	Fracture neck cervical fracture (HES and self-reported)	T	379101	345	378756	6.74E-05	-9.60487	197.684	3.60E-173	1.26E+164	0.961248	0.998648
Musculoskeletal	Fracture clavicle collar bone (HES and self-reported)	T	379101	1092	378009	2.24	0.808323	1.00514	0.313	16.1	0.421287	0.998648
Musculoskeletal	Fracture shoulder scapula (HES and self-reported)	T	379101	2722	376379	1.96	0.674493	0.71267	0.486	7.94	0.343929	0.998648
Musculoskeletal	Fracture upper arm humerus elbow (HES and self-reported)	T	379101	3361	375740	1.57	0.451259	0.712555	0.389	6.35	0.526526	0.998648
Musculoskeletal	Fracture forearm wrist (HES and self-reported)	T	379101	8702	370399	0.932	-0.070292	0.58				

Musculoskeletal	Osteoarthritis knee	T	330411	18217	312194	0.716	-0.333397	0.458885	0.291	1.76	0.46751	0.998648
Musculoskeletal	Osteoarthritis knee or hip	T	339616	27422	312194	0.958	-0.043051	0.333117	0.499	1.84	0.897127	0.998648
Musculoskeletal	Osteoarthritis non load bearing joints	T	317066	4872	312194	0.551	-0.595158	0.100542	0.0769	3.96	0.53886	0.998648
Musculoskeletal	BN combinedFractures	T	379101	28020	351081	1.14	0.131443	0.301862	0.631	2.06	0.663244	0.998648
Cardiovascular	Pulse minimumValue	T	357246	NA	NA	NA	0.039048	0.085729	-0.128891	0.207077	0.64876	0.998648
Other	Sleep duration	T	376797	NA	NA	NA	0.016664	0.083626	-0.147244	0.180572	0.842051	0.998648
Other	Sleeplessness insomnia	T	378601	NA	NA	NA	0.088665	0.083279	-0.074561	0.251891	0.287021	0.998648
Other	Daytime dozing sleeping narcolepsy	T	377552	NA	NA	NA	-0.044199	0.083158	-0.207189	0.118792	0.595072	0.998648
Cardiovascular	Ventricular rate	T	8941	NA	NA	NA	0.600039	0.999205	-1.3584	2.55848	0.548162	0.998648
Cardiovascular	P duration	T	8939	NA	NA	NA	0.34455	0.99973	-1.61492	2.30402	0.730363	0.998648
Cardiovascular	QRS duration	T	8939	NA	NA	NA	-0.169224	0.999064	-2.12739	1.78894	0.865495	0.998648
Cardiovascular	Cardiac index during PWA	T	8000	NA	NA	NA	0.455614	0.999219	-1.50286	2.41408	0.648411	0.998648
Summary	Number of self reported non cancer illnesses	T	379040	NA	NA	NA	0.099992	0.083256	-0.063191	0.263174	0.29747	0.998648
Summary	Number of operations self reported	T	379040	NA	NA	NA	-0.029899	0.083296	-0.193159	0.133362	0.71964	0.998648
Summary	Number of treatments medications taken	T	379040	NA	NA	NA	0.1075	0.083261	-0.055692	0.270692	0.196662	0.998648
Family history	Father s age at death	T	278550	NA	NA	NA	0.082629	0.096508	-0.106527	0.271784	0.391894	0.998648
Other	Townsend deprivation index at recruitment	T	378649	NA	NA	NA	-0.058601	0.082809	-0.247907	0.076705	0.301271	0.998648
Neurosciences	Fluid intelligence score	T	184529	NA	NA	NA	0.06482	0.112999	-0.156658	0.286298	0.566218	0.998648
Neurosciences	Prospective memory result	T	126279	NA	NA	NA	-0.075415	0.124417	-0.319272	0.168443	0.544417	0.998648
ENT	Speech reception threshold SRT estimate left	T	114702	NA	NA	NA	0.063039	0.130992	-0.193706	0.319783	0.630345	0.998648
ENT	Speech reception threshold SRT estimate right	T	114815	NA	NA	NA	0.08644	0.130951	-0.170224	0.343104	0.509194	0.998648
Neurosciences	Mean time to correctly identify matches	T	376457	NA	NA	NA	0.037894	0.083199	-0.125176	0.200963	0.648776	0.998648
Family history	Alzheimer s disease dementia (family history)	T	379101	NA	NA	NA	-0.012237	0.08306	-0.175034	0.150561	0.882877	0.998648
Family history	Parkinson s disease (family history)	T	379101	NA	NA	NA	0.002697	0.083009	-0.160001	0.165395	0.740803	0.998648
Family history	Severe depression (family history)	T	379101	NA	NA	NA	0.036018	0.083117	-0.126891	0.198826	0.664769	0.998648
Family history	Prostate cancer (family history)	T	174719	NA	NA	NA	-0.049833	0.116354	-0.277887	0.178221	0.668441	0.998648
Family history	Heart disease (family history)	T	379101	NA	NA	NA	-0.112069	0.083269	-0.275276	0.051138	0.178346	0.998648
Family history	Stroke (family history)	T	379101	NA	NA	NA	0.075186	0.083158	-0.087804	0.238176	0.365925	0.998648
Family history	Lung cancer (family history)	T	379101	NA	NA	NA	0.044111	0.083151	-0.118865	0.207088	0.59577	0.998648
Family history	Bowel cancer (family history)	T	379101	NA	NA	NA	0.071277	0.082994	-0.091391	0.233944	0.390438	0.998648
Family history	Diabetes (family history)	T	379101	NA	NA	NA	0.004499	0.083122	-0.15842	0.167417	0.95684	0.998648
Mental health	Neuroticism score	T	307275	NA	NA	NA	-0.115042	0.090906	-0.293218	0.063134	0.205688	0.998648
Neurosciences	Number of incorrect matches in round	T	93587	NA	NA	NA	-0.028184	0.157776	-0.337424	0.281057	0.858228	0.998648
Anthropometry	Weight	T	377979	NA	NA	NA	-0.006043	0.083308	-0.169327	0.157241	0.942175	0.998648
Cardiovascular	Pulse wave Arterial Stiffness index	T	124962	NA	NA	NA	0.106462	0.128009	-0.144436	0.35736	0.405593	0.998648
Musculoskeletal	Falls in the last year	T	378169	NA	NA	NA	-0.025979	0.083366	-0.193186	0.133606	0.720836	0.998648
Anthropometry	Body fat percentage	T	372255	NA	NA	NA	0.101278	0.084023	-0.063408	0.265963	0.280672	0.998648
Anthropometry	Whole body fat mass	T	371851	NA	NA	NA	0.054896	0.084159	-0.110056	0.219849	0.514214	0.998648
Anthropometry	Whole body fat free mass	T	372439	NA	NA	NA	-0.067157	0.083966	-0.23173	0.097416	0.423818	0.998648
Anthropometry	Whole body water mass	T	372469	NA	NA	NA	-0.066664	0.083968	-0.231242	0.097914	0.427243	0.998648
Other	Relative age of first facial hair	T	168858	NA	NA	NA	-0.025601	0.117591	-0.256079	0.204877	0.827653	0.998648
Other	Relative age voice broke	T	161623	NA	NA	NA	-0.152158	0.120248	-0.387844	0.083528	0.20574	0.998648
Other	Age when periods started menarche	T	198489	NA	NA	NA	0.154358	0.121206	-0.083206	0.391922	0.202834	0.998648
Biological assays	Mean corpuscular volume	T	367861	NA	NA	NA	0.116624	0.084018	-0.048051	0.281298	0.165111	0.998648
Biological assays	Mean corpuscular haemoglobin concentration	T	367856	NA	NA	NA	0.032247	0.084169	-0.132724	0.197218	0.70163	0.998648
Biological assays	Red blood cell erythrocyte distribution width	T	367861	NA	NA	NA	0.039736	0.084211	-0.125318	0.20479	0.637027	0.998648
Biological assays	Mean platelet thrombocyte volume	T	367857	NA	NA	NA	0.081997	0.084223	-0.083079	0.247073	0.30269	0.998648
Biological assays	Platelet distribution width	T	367857	NA	NA	NA	0.039537	0.084213	-0.125521	0.204595	0.638782	0.998648
Biological assays	Monocyte count	T	367207	NA	NA	NA	0.107667	0.0845	-0.057953	0.273287	0.202605	0.998648
Biological assays	Neutrophil count	T	367207	NA	NA	NA	-0.103445	0.08458	-0.269066	0.062176	0.220879	0.998648
Biological assays	Eosinophil count	T	367207	NA	NA	NA	-0.042054	0.084486	-0.207646	0.135358	0.186469	0.998648
Biological assays	Basophil count	T	367207	NA	NA	NA	-0.053479	0.084186	-0.218484	0.111527	0.525271	0.998648
Biological assays	Nucleated red blood cell count	T	367198	NA	NA	NA	0.108471	0.084246	-0.056651	0.273593	0.197902	0.998648
Biological assays	Lymphocyte percentage	T	367213	NA	NA	NA	-0.108678	0.084522	-0.274443	0.056883	0.198094	0.998648
Biological assays	Neutrophil percentage	T	367213	NA	NA	NA	0.029618	0.084519	-0.136039	0.195276	0.726013	0.998648
Biological assays	Eosinophil percentage	T	367213	NA	NA	NA	0.020165	0.084508	-0.145471	0.1858	0.811405	0.998648
Biological assays	Basophil percentage	T	367213	NA	NA	NA	-0.110111	0.084511	-0.275752	0.05553	0.192604	0.998648
Biological assays	Nucleated red blood cell percentage	T	367195	NA	NA	NA	0.111997	0.084246	-0.053125	0.277119	0.183711	0.998648
Biological assays	Creatinine enzymatic in urine	T	368234	NA	NA	NA	-0.094377	0.08508	-0.261134	0.072379	0.267309	0.998648
Biological assays	Potassium in urine	T	367438	NA	NA	NA	-0.116307	0.085105	-0.283113	0.050499	0.171743	0.998648
Biological assays	Sodium in urine	T	367460	NA	NA	NA	-0.068134	0.085005	-0.234743	0.098476	0.422828	0.998648
Respiratory	FVC maximumValue	T	286167	NA	NA	NA	-0.117711	0.08921	-0.310203	0.074781	0.230697	0.998648
Respiratory	FVC maximumValue strict	T	221665	NA	NA	NA	-0.100342	0.110732	-0.317377	0.116693	0.364846	0.998648
Family history	Mother s age at death	T	223081	NA	NA	NA	-0.030213	0.104161	-0.234369	0.173942	0.771767	0.998648
Gynaecology and Obstetrics	Age started hormone replacement therapy HRT	T	71387	NA	NA	NA	-0.02596	0.20843	-0.434483	0.382563	0.90088	0.998648
Gynaecology and Obstetrics	Age at menopause last menstrual period	T	116962	NA	NA	NA	0.159462	0.154064	-0.142503	0.461427	0.30065	0.998648
Neurosciences	Incorrect matches summed	T	379101	NA	NA	NA	-0.051901	0.083239	-0.215049	0.111247	0.523942	0.998648
Cancer	Reported occurrences of cancer	T	61110	NA	NA	NA	0.131772	0.213688	-0.287056	0.5506	0.53744	0.998648
Cardiovascular	Systolic blood pressure mean	T	357243	NA	NA	NA	-0.028394	0.085724	-0.196412	0.139624	0.740474	0.998648
Neurosciences	Maximum digits remembered correctly	T	116653	NA	NA	NA	-0.024217	0.136049	-0.290873	0.242439	0.485782	0.998648
Mental health	Happiness	T	126053	NA	NA	NA	0.069017	0.125023	-0.176028	0.314062	0.580926	0.998648
Anthropometry	Waist circumference	T	378432	NA	NA	NA	0.002993	0.083315	-0.160304	0.16629	0.971341	0.998648
Anthropometry	Hip circumference	T	378389	NA	NA	NA	0.06803	0.083305	-0.095248	0.231308	0.414135	0.998648
Eye	LogMAR final left	T	83967	NA	NA	NA	-0.198471	0.168864	-0.529452	0.13251	0.239873	0.998648
Eye	Corneal hysteresis right	T	81176	NA	NA	NA	0.019504	0.168939	-0.311617	0.350624	0.908091	0.998648
Eye	Corneal resistance factor right	T	81176	NA	NA	NA	-0.130219	0.168999	-0.461457	0.201019	0.440983	0.998648
Eye	Intra ocular pressure corneal compensated left	T	81056	NA	NA	NA	-0.225632	0.169022	-0.556915	0.105651	0.181899	0.998648
Eye	Corneal hysteresis left	T	81056	NA	NA	NA	-0.028389	0.169003	-0.359634	0.302857	0.866601	0.998648
Eye	Corneal resistance factor left	T	81056	NA	NA	NA	-0.167155	0.169039	-0.498471	0.164161	0.322736	0.998648
Other	Overall acceleration average	T	81471	NA	NA	NA	-0.031229	0.164351	-0.353357	0.290899	0.849297	0.998648
Respiratory	FEV1 never smoked only	T	109851	NA	NA	NA	-0.173301	0.147134	-0.461684	0.115082	0.238859	0.998648
ENT	Hear loss B	T	121038	NA	NA	NA						

Table S4. Interactions between the *SERPINA1* Z allele and smoking status or sex in UK Biobank participants

Interaction	Genetic model	FEV ₁ (ml)			FEV ₁ /FVC			FVC (ml)			COPD		
		beta	se	p	beta	se	p	beta	se	p	OR	95% CI	p
Z*EVERSMK	Heterozygous	20.782	9.107	0.022	0.0044	0.0011	1.06x10 ⁻⁴	6.587	10.899	0.546	1.31	1.10-1.58	0.003
Z*EVERSMK	Recessive	192.066	103.651	0.064	0.045	0.013	5.06x10 ⁻⁴	60.088	124.033	0.628	1.46	0.51-4.28	0.484
Z*sex	Heterozygous	6.821	9.13	0.455	0.0042	0.0011	0.00021	-12.351	10.927	0.258	0.88	0.74-1.05	0.153
Z*sex	Recessive	57.606	100.578	0.567	0.026	0.013	0.041	-18.799	120.356	0.876	1.18	0.41-3.34	0.755

Results are based on linear (or logistic, in the case of COPD) regression adjusting for sex, age, age², height, ever-smoking, ancestry-based principal components, and genotyping array. The heterozygous or recessive genetic model was also included in the regression as shown. Males were coded as 1 and females as 2, so a positive interaction coefficient means there was a more positive coefficient in females compared to males and a negative interaction coefficient means there was a less positive coefficient in females compared to males. Ever-smoking status was coded 1 if the individual had ever-smoked and 2 if the individual had never smoked.

Table S5. Association of heterozygosity for the *SERPINA1* Z allele with height and lung function in individuals aged 8, 15, and 24

Age (years)	Height (cm)				FEV ₁ /FVC ^a			
	N	beta	se	p	N	beta	se	p
8	5,162	0.064	0.385	0.869	4,838	0.023	0.071	0.744
15	4,023	0.452	0.512	0.378	2,930	0.016	0.086	0.848
24	2,766	0.493	0.558	0.376	2,131	0.078	0.096	0.415

Data derived from study participants in the ALSPAC study. ^aAge, sex, and height adjusted Z scores

Table S6. Association between the *SERPINA1* Z allele and lung function traits in UK Biobank male and female never- and ever-smokers

Genetic model	Subgroup	FEV ₁ (ml)			FEV ₁ /FVC			FVC (ml)			COPD	
		beta	se	p	beta	se	p	beta	se	p	OR (95% CI)	p
Heterozygous	Male never-smokers	17.013	11.346	0.134	0.00087	0.0012	0.478	15.941	13.751	0.246	1.04 (0.84-1.28)	0.689
	Female never-smokers	20.493	6.251	0.001	0.0045	0.00086	1.75x10 ⁻⁷	10.265	7.72	0.184	0.73 (0.59-0.91)	0.005
	Male ever-smokers	-13.986	11.327	0.217	-0.0036	0.0013	7.55x10 ⁻³	1.672	13.204	0.899	1.16 (1.01-1.33)	0.028
	Female ever-smokers	9.974	8.142	0.221	0.00027	0.0012	0.821	9.896	9.682	0.307	1.16 (0.98-1.36)	0.081
Recessive	Male never-smokers	-184.651	111.011	0.096	-0.033	0.012	6.81x10 ⁻³	-155.016	134.511	0.249	5.26 (1.46-14.78)	0.004
	Female never-smokers	-158.256	67.643	0.019	-0.034	0.0093	2.20x10 ⁻⁴	-55.679	83.539	0.505	6.28 (2.07-15.50)	2.65x10 ⁻⁴
	Male ever-smokers	-422.885	133.09	0.0015	-0.106	0.016	1.84x10 ⁻¹¹	-103.271	155.115	0.506	8.37 (3.01-21.51)	1.64x10 ⁻⁵
	Female ever-smokers	-314.24	102.273	0.0021	-0.05	0.015	9.14x10 ⁻⁴	-258.857	121.59	0.033	10.77 (2.95-31.82)	5.60x10 ⁻⁵

Results are based on linear (or logistic, in the case of COPD) regression adjusting for age, age², height, ancestry-based principal components, and genotyping array. The heterozygous or recessive genetic model was also included in the regression as shown