SUPPLEMENTAL MATERIAL

Supplemental Methods

Machine learning analyses:

In the gradient boosting machine model, the dataset was split into three parts: training (60%), validation (20%), and a test set (20%). The GBM model was then trained using the default parameters of the machine learning platform (H2O 3.10.4.1): maximum number of trees (number of gradient boosting iterations): 50; maximum tree depth (number of interactions between variables in each tree): 5; learning rate: 0·1. Learning rate is used for reducing the impact of each consecutive tree to control for unstable iterations that may affect the accuracy of the model.¹ Performance was assessed by the receiver operating characteristic area under the curve (ROC-AUC), and error was assessed by the mean squared error (MSE).

Genotyping, quality control, and imputation:

The quality control (QC), phasing, and imputation was performed centrally and has been described in detail previously.² In brief, the release included 488,377 samples genotyped on the Applied Biosystems UK BiLEVE Axiom Array or the Applied Biosystems UK Biobank Axiom Array. After applied QC filters, a total of 487,442 samples and 670,739 autosomal markers were phased and used in imputation with a combined reference panel of the Haplotype Reference Consortium (HRC) 1.1, UK10K, and the 1000 Genomes Phase 3 panel. We included 10,972,370 markers belonging to the HRC 1.1 subset with a minor allele count \geq 20 in cases and controls and MaCH $r^2 \geq$ 0.8. In order to select for unrelated adults of European ancestry, individuals were removed based on genetic relatedness and were included if they self-reported as being white British, followed by confirmation of their ancestral background by principal components analysis. A sample of 337,536 individuals remained for analysis.

Pathway and functional analysis:

For functional annotation, FUMA³ (Functional Mapping and Annotation of Genome-wide association studies) and DEPICT⁴ (Data-driven Expression Prioritized Integration for Complex Traits) were used. In addition to extracting consequences on gene expression and function, FUMA prioritizes lead SNPs and potential causal genes by integrating data from 14 biological data repositories and tools. Details on how the FUMA platform was constructed may be found online (https://www.biorxiv.org/content/early/2017/02/20/110023). Briefly, the *SNP2GENE* function maps lead SNPs to genes based on LD patterns, consequences on gene function using ANNOVAR⁵ and eQTL analyses. The *GENE2FUNC* process then annotates the resulting prioritized genes with biological information based on previously associated diseases, drug targets, and molecular pathways. FUMA analysis was performed based on independent lead SNPs with $P < 5 \ge 10^{-8}$ using the default settings (FDR<0.05, r² ≥ 0.6 , LD window size ≤ 250 kB). DEPICT identifies enriched cell types, tissues, and pathways from associated loci by integrating data from a large number of microarrays (expression data from 77,840 samples), previously annotated gene sets, and associated biological pathways (molecular pathways, mouse gene knock-out studies).⁴ For DEPICT analysis, an FDR of 0.05 was applied as the cutoff-value for statistical significance.

Height and varicose veins: Mendelian randomization analysis

Of the 697 height-associated SNPs from the GIANT consortium⁶, 135 SNPs were excluded due to linkage disequilibrium with other SNPs, and 26 were excluded due to harmonizing issues. To minimize the potential impact of pleiotropy, we excluded outliers, heterogeneous variants and recognized GWAS hits for confounders, specifically for BMI and WHR (rs17391694, rs1055144 and rs11152213).^{7,8} MR analyses was performed with two separate instrumental variables: 1) excluding 24 potential pleiotropic variants, and 2) including all 536 independent lead variants from the GWAS for height.

Four separate MR methods were used to assess the causal relationship of height with varicose veins: standard inverse-variance weight (IVW) regression, maximum likelihood MR, weighted Median, and MR Egger regression. We also performed a leave-one-out sensitivity analysis to exclude any single SNP driving associations. Statistical power was estimated using the sample sizes, reported variance explained from the GIANT consortium⁶, and an alpha threshold of 0.05 for the calculated effect size of height on incident varicose veins.

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Supplemental Figure Legends

Supplemental Figure 1: Cox models relating varicose veins to BMI, waist-hip ratio, history of leg artery operation, birth weight of first child, age completed full time education, cellulitis and acute lymphangitis (ICD10: L03), other and unspecified soft tissue disorders; not elsewhere classified (ICD10: M79), non-pressure chronic ulcer of lower limb; not elsewhere classified (ICD10: L97), and history of major operation.

Supplemental Figure 2: Quantile-quantile (QQ) of the expected vs. observed log p-values for genome-wide association results for varicose veins.

Supplemental Figure 3: Regional plots of the 30 novel loci associated with varicose veins.

Supplemental Figure 4: Scatter and forest plot demonstrating the association between height and varicose veins. **Supplemental Figure 5:** Leave-one-out sensitivity analysis demonstrating that SNPs associated with height remain associated with varicose veins, implying a causal relationship

Supplemental Table 1. Candidate predictor variables in the gradient boost Variable	Variable group
ge deep-vein thrombosis (DVT, blood clot in leg) diagnosed	n_4012_0_0
npedance of leg (left)	n_23108_0_0
lad other major operations	n_2844_0_0
urgery on leg arteries (other than for varicose veins)	n_5529_0_0
tanding height	n_50_0_0
Jlcer of lower limb, not elsewhere classified (ICD-10: L97)	groupL97
Age at first live birth	$n_{2754_{0_{0}}}$
mpedance of leg (right))ther soft tissue disorders, not elsewhere classified (ICD-10: M79)	n_23107_0_0 groupM79
Sirth weight of first child	n 2744 0 0
Cellulitis (ICD-10: L03)	groupL03
Age completed full time education	n 845 0 0
lace of birth in UK - north co-ordinate	n 129 0 0
mpedance of arm (left)	n 23110 0 0
Other peripheral vascular diseases (ICD-10: I73)	groupI73
Comparative height size at age 10	n_1697_0_0
ob code	n_132_0_0
mpedance of arm (right)	n_23109_0_0
emale genital prolapse (ICD-10: N81)	groupN81
Jumber of days/week walked 10+ minutes	n_864_0_0
ge started wearing glasses or contact lenses	n_2217_0_0
age at recruitment	n_21022_0_0
runk fat percentage	n_23127_0_0
Iad major operations	n_2415_0_0
Venous complications in the puerperium (ICD-10: O87)	groupO87
Other dermatitis (ICD-10: L30)	groupL30
eg fat percentage (left)	n_23115_0_0
Average total household income before tax	n_738_0_0
Jumber of live births	n_2734_0_0
Age diabetes diagnosed	n_2976_0_0
Age started hormone-replacement therapy (HRT) Red blood cell (erythrocyte) distribution width	n_3536_0_0 m_30070_0_0
Place of birth in UK - east co-ordinate	n_30070_0_0 n_120_0_0
Platelet distribution width	n_130_0_0 n 30110 0 0
Duration of moderate activity	n 894 0 0
Leg fat percentage (right)	n 23111 0 0
Spherical power (left)	n 5085 0 0
Other arthritis (ICD-10: M13)	groupM13
Age at last live birth	n 2764 0 0
nterpolated Age of participant when non-cancer illness first diagnosed	n 20009 0 0
Age when last used oral contraceptive pill	n 2804 0 0
ntra-ocular pressure, Goldmann-correlated (left)	n 5263 0 0
Veuroticism score	n 20127 0 0
Neutrophill percentage	n 30200 0 0
mm asymmetry angle (right)	n_5109_0_0
Platelet crit	n_30090_0_0
White blood cell (leukocyte) count	n_30000_0_0
Ankle spacing width	n_3143_0_0
Aean time to correctly identify matches	n_20023_0_0
Polyarthrosis (ICD-10: M15)	groupM15
imm asymmetry index (right)	n_5158_0_0
Acquired deformities of fingers and toes (ICD-10: M20)	groupM20
nguinal hernia (ICD-10: K40)	groupK40
ime spent using computer	n_1080_0_0
Ankle spacing width (left)	n_4100_0_0
Forced vital capacity (FVC)	n_3062_0_0
JK Biobank assessment centre	n_54_0_0
mmature reticulocyte fraction	n_30280_0_0
Rirth weight	n_20022_0_0
Veight	n_21002_0_0
Corneal hysteresis (right)	n_5256_0_0 n_30010_0_0
ted blood cell (erythrocyte) count tefractometry result unreliable (right)	n_30010_0_0
	s_5091_0_0 n_20151_0_0
orced vital capacity (FVC), Best measure requency of walking for pleasure in last 4 weeks	n_20151_0_0
nternal derangement of knee (ICD-10: M23)	n_971_0_0 groupM23
Aonocyte percentage	n 30190 0 0
Age last used hormone-replacement therapy (HRT)	n 3546 0 0
Ip circumference	n_49_0_0
mm weak meridian (right)	n 5098 0 0
Reason for reducing amount of alcohol drunk	n 2664 0 0
Platelet count	n 30080 0 0
Cereal intake	n 1458 0 0
Alcohol intake frequency.	n 1558 0 0

Intra-ocular pressure, corneal-compensated (left)	n 5262 0 0
Diastolic blood pressure, manual reading	n 94 0 0
Vitiligo (ICD-10: L80)	groupL80
Calibration coefficients - y offset	n_90162_0_0
Time when initial screen shown	ts_4286_0_0
Duration screen displayed	n_4290_0_0
Systolic blood pressure, automated reading	n_4080_0_0
Arm fat percentage (right)	n_23119_0_0
op_skin_lesion Forced expiratory volume in 1-second (FEV1), predicted percentage	op_skin_lesion n_20154_0_0
Fraction acceleration <= 9 milli-gravities	n 90100 0 0
Age asthma diagnosed	n 3786 0 0
Other disorders of skin and subcutaneous tissue, not elsewhere classified (ICD-10: L98)	groupL98
Congenital malformations of cardiac septa (ICD-10: Q21)	groupQ21
Average acceleration 13:00 - 13:59	n_90040_0_0
Age started oral contraceptive pill	n_2794_0_0
3mm weak meridian (right) Average acceleration 07:00 - 07:59	n_5099_0_0 n_90034_0_0
Spherical power (right)	n 5084 0 0
Speech-reception-threshold (SRT) estimate (right)	n 20021_0_0
Benign neoplasm of eye and adnexa (ICD-10: D31)	groupD31
Bread type	n_1448_0_0
Reason for reducing amount of alcohol drunk (pilot)	n_10818_0_0
Leg fat-free mass (right)	n_23113_0_0
Mineral and other dietary supplements	n_6179_0_0
Age COPD (Chronic Obstructive Pulmonary Disease) diagnosed by doctor Sodium in urine acquisition time	n_22150_0_0 ts 30532_0_0
Haematocrit percentage	n 30030 0 0
Number of full sisters	n_1883_0_0
Heel bone mineral density (BMD) T-score, automated	n_78_0_0
Average weekly beer plus cider intake	n_1588_0_0
Mean corpuscular haemoglobin concentration	n_30060_0_0
Invitation to physical activity study, date sent	ts_110006_0_0
Calibration coefficients - x slope	n_90164_0_0
Qualifications Monocyte count	n_6138_0_0 n_30130_0_0
Other disorders of urinary system (ICD-10: N39)	groupN39
Calibration - maximum x stationary value	n 90173 0 0
Neutrophill count	n_30140_0_0
3mm strong meridian (left)	n_5135_0_0
Why stopped smoking	n_6157_0_0
Fraction acceleration <= 1300 milli-gravities	n_90151_0_0
Townsend deprivation index at recruitment Microalbumin in urine	n_189_0_0 n_30500_0_0
Average acceleration 20:00 - 20:59	n 90047_0_0
Umbilical hernia (ICD-10: K42)	groupK42
Obesity (ICD-10: E66)	groupE66
Number of days/week of moderate physical activity 10+ minutes	n_884_0_0
Time spent driving	n_1090_0_0
ECG/bike method for fitness test	n_6019_0_0
Types of physical activity in last 4 weeks Mouth/teeth dental problems	n_6164_0_0 n_6149_0_0
6mm strong meridian angle (right)	n_5106_0_0
Lymphocyte count	n_30120_0_0
High light scatter reticulocyte percentage	n_30290_0_0
Average acceleration 17:00 - 17:59	n_90044_0_0
Basophill count	n_30160_0_0
Father's age	n_2946_0_0
Peak expiratory flow (PEF) Intra-ocular pressure, corneal-compensated (right)	n_3064_0_0
Femoral hernia (ICD-10: K41)	n_5254_0_0 groupK41
Cereal type	n 1468 0 0
Forced expiratory volume in 1-second (FEV1), predicted	n_20153_0_0
Pulse wave reflection index	n_4195_0_0
Average acceleration 00:00 - 00:59	n_90027_0_0
Pulse rate, automated reading	n_102_0_0
Other arthrosis (ICD-10: M19) Heel Broadband ultrasound attenuation, direct entry	groupM19 n 3144 0 0
Osteoporosis without pathological fracture (ICD-10: M81)	n_3144_0_0 groupM81
Rash and other nonspecific skin eruption (ICD-10: R21)	groupR21
Number of cigarettes previously smoked daily	n_2887_0_0
Surgical operation and other surgical procedures as the cause of abnormal reaction of the patient, or of later complication, w	
Light smokers, at least 100 smokes in lifetime	n_2644_0_0
Which eye(s) affected by amblyopia (lazy eye)	n_5408_0_0
Index of best refractometry result (left) Age high blood pressure diagnosed	n_5276_0_0 n_2966_0_0
Age nign blood pressure diagnosed Job code - deduced	n_2966_0_0 n_20024_0_0

Handedness (chirality/laterality)	n 1707 0 0
Average weekly champagne plus white wine intake	n_1578_0_0
Smoked cigarette or pipe within last hour	n_3159_0_0
Age when attended assessment centre	n_21003_0_0
Age hay fever, rhinitis or eczema diagnosed Leg pain on walking : action taken	n_3761_0_0
Astigmatism angle (left)	n_5507_0_0 n 5089 0 0
Salad / raw vegetable intake	n 1299 0 0
Wear duration during 01:00 - 01:59	n_90061_0_0
Year of birth	n_34_0_0
Other and unspecified injuries of wrist and hand (ICD-10: S69)	groupS69
Fraction acceleration <= 8 milli-gravities Haemoglobin concentration	n_90099_0_0 n_30020_0_0
Corneal resistance factor (left)	n 5265 0 0
Number of treatments/medications taken	n_137_0_0
Microalbumin in urine acquisition time	ts_30502_0_0
Complications of procedures, not elsewhere classified (ICD-10: T81)	groupT81
Cooked vegetable intake Temperature maximum	n_1289_0_0 n_90195_0_0
Other hypothyroidism (ICD-10: E03)	groupE03
Other medical procedures as the cause of abnormal reaction of the patient, or of later complication, without mention of mis-	
Duration of walks	n_874_0_0
Heel bone mineral density (BMD), manual entry	n_3084_0_0
Vascular/heart problems diagnosed by doctor Wear duration during 07:00 - 07:59	n_6150_0_0 n_90067_0_0
Diabetes diagnosed by doctor	n_2443_0_0
Coffee type	n_1508_0_0
Waist circumference	n_48_0_0
Allergic contact dermatitis (ICD-10: L23)	groupL23
Age cataract diagnosed Leisure/social activities	n_4700_0_0
Trunk fat mass	n_6160_0_0 n_23128_0_0
Variation in diet	n_1548_0_0
3mm strong meridian (right)	n_5132_0_0
Forced expiratory volume in 1-second (FEV1)	n_3063_0_0
Processed meat intake	n_1349_0_0
Time to complete round 6mm weak meridian (left)	n_20133_0_0 n_5097_0_0
Years since last breast cancer screening / mammogram	n 2684 0 0
Salt added to food	n_1478_0_0
Erosion and ectropion of cervix uteri (ICD-10: N86)	groupN86
Sodium in urine	n_30530_0_0
Fraction acceleration <= 7 milli-gravities Unspecified lump in breast (ICD-10: N63)	n_90098_0_0 groupN63
Other diseases of digestive system (ICD-10: K92)	groupK92
Duration to complete numeric path (trail #1)	n_20156_0_0
Haemorrhoids (ICD-10: I84)	groupI84
Mean corpuscular volume	n_30040_0_0
When numeric memory test completed 6mm strong meridian angle (left)	ts_20138_0_0 n 5105 0 0
Total data readings	n 90187 0 0
Back pain for 3+ months	n_3571_0_0
Country of Birth (non-UK origin)	n_20115_0_0
Agranulocytosis (ICD-10: D70)	groupD70
Chest pain due to walking ceases when standing still Mean platelet (thrombocyte) volume	n_3616_0_0 n_30100_0_0
op hip replacement	op hip replacement
6mm asymmetry index (left)	n_5157_0_0
Fraction acceleration <= 100 milli-gravities	n_90127_0_0
Body mass index (BMI)	n_21001_0_0
Gastritis and duodenitis (ICD-10: K29)	groupK29 n 4689 0 0
Age glaucoma diagnosed Time from waking to first cigarette	n 3466 0 0
Comparative body size at age 10	n 1687 0 0
White blood cell (leukocyte) count device ID	s_30003_0_0
Error tolerance after calibration	n_90160_0_0
3mm regularity index (left)	n_5163_0_0
Urticaria (ICD-10: L50) Injury of unspecified body region (ICD-10: T14)	groupL50 groupT14
Worry too long after embarrassment	n_2000_0_0
Ever had hysterectomy (womb removed)	n_3591_0_0
Leg pain when walking uphill or hurrying	n_5474_0_0
Corneal hysteresis (left)	n_5264_0_0
Facial pains for 3+ months Pulse wave velocity (manual entry)	n_4067_0_0 n_4207_0_0
Fraction acceleration <= 3 milli-gravities	n_90094_0_0
Impedance of whole body	n_23106_0_0

Voor immigrated to UV (United Vingdom)	n 2650 0 0
Year immigrated to UK (United Kingdom) Other diseases of intestine (ICD-10: K63)	n_3659_0_0 groupK63
Average weekly spirits intake	n 1598 0 0
Started insulin within one year diagnosis of diabetes	n_2986_0_0
Chest pain or discomfort when walking uphill or hurrying	n_3751_0_0
Weight, manual entry	n_3160_0_0
Non-cancer illness year/age first occurred	n_87_0_0
Years since last cervical smear test Essential (primary) hypertension (ICD-10: I10)	n_2704_0_0
Vulvovaginal ulceration and inflammation in diseases classified elsewhere (ICD-10: N77)	groupI10 groupN77
Gastro-oesophageal reflux disease (ICD-10: K21)	groupK21
Arm fat mass (right)	n_23120_0_0
Father's age at death	n_1807_0_0
Mother's age at death	n_3526_0_0
No-wear time bias adjusted acceleration maximum	n_90091_0_0
Average acceleration 12:00 - 12:59	n_90039_0_0
Month of birth Duration of other exercises	n_52_0_0 n_3647_0_0
Duration of strenuous sports	n_1001_0_0
Age at hysterectomy	n 2824 0 0
Other disorders of skin and subcutaneous tissue related to radiation (ICD-10: L59)	groupL59
ECG, phase time	n_5986_0_0
Heel quantitative ultrasound index (QUI), manual entry (left)	n_4139_0_0
Pulse wave peak to peak time	n_4196_0_0
Reason for glasses/contact lenses	n_6147_0_0
Interpolated Age of participant when cancer first diagnosed FI5 : family relationship calculation	n_20007_0_0 n_4979_0_0
Average acceleration 21:00 - 21:59	n_4979_0_0 n_90048_0_0
Average acceleration 01:00 - 01:59	n 90028 0 0
Fraction acceleration <= 40 milli-gravities	n_90115_0_0
Fraction acceleration <= 85 milli-gravities	n_90124_0_0
Thyroiditis (ICD-10: E06)	groupE06
Age angina diagnosed	n_3627_0_0
High light scatter reticulocyte count	n_30300_0_0
Sleeplessness / insomnia Deficiency of other nutrient elements (ICD-10: E61)	n_1200_0_0 groupE61
Benign lipomatous neoplasm (ICD-10: D17)	groupE61 groupD17
Average weekly red wine intake	n 1568 0 0
Types of transport used (excluding work)	n_6162_0_0
Intra-ocular pressure, Goldmann-correlated (right)	n_5255_0_0
Dentofacial anomalies [including malocclusion] (ICD-10: K07)	groupK07
Migraine (ICD-10: G43)	groupG43
3mm weak meridian (left) Number of attempts	n_5096_0_0 n_4291_0_0
Average acceleration 05:00 - 05:59	n_90032_0_0
Fraction acceleration <= 4 milli-gravities	n 90095 0 0
Duration to entering value	n_20230_0_0
Fresh fruit intake	n_1309_0_0
Error tolerance before calibration	n_90159_0_0
Other maternal diseases classifiable elsewhere but complicating pregnancy, childbirth and the puerperium (ICD-10: O99)	groupO99
Calibration coefficients - mean temperature	n_90170_0_0 n 5134 0 0
6mm strong meridian (left) Cutaneous abscess, furuncle and carbuncle (ICD-10: L02)	groupL02
Ever had laser treatment for glaucoma or high eye pressure	n_5327_0_0
6mm regularity index (left)	n_5162_0_0
Pulse wave Arterial Stiffness index	n_21021_0_0
logMAR, final (right)	n_5201_0_0
Trunk predicted mass	n_23130_0_0
Cancer year/age first occurred	n_84_0_0
Number of symbol digit matches attempted Monday average acceleration	n_20195_0_0 n_90019_0_0
Atrial fibrillation and flutter (ICD-10: 148)	groupI48
Lymphocyte percentage	n 30180 0 0
Cough (ICD-10: R05)	groupR05
Snoring	n_1210_0_0
Pairs matching completion status	n_20244_0_0
Method of recording time when cancer first diagnosed	n_20012_0_0
Contra-indications for spirometry Which eye(s) affected by presbyopia	n_3088_0_0 n_5610_0_0
Inflammatory disease of uterus, except cervix (ICD-10: N71)	groupN71
Why reduced smoking	n 6158 0 0
Bread intake	n_1438_0_0
Reason for skipping spirometry	n_20042_0_0
Cheese intake	n_1408_0_0
Coxarthrosis [arthrosis of hip] (ICD-10: M16) Wear duration during 10:00 10:59	groupM16
Wear duration during 10:00 - 10:59 Total errors traversing numeric path (trail #1)	n_90070_0_0 n_20247_0_0
arresting numeric pair (aut # 1)	

n 90192 0 0 Temperature average Skin changes due to chronic exposure to nonionizing radiation (ICD-10: L57) groupL57 Acanthosis nigricans (ICD-10: L83) groupL83 Other interstitial pulmonary diseases (ICD-10: J84) groupJ84 op_icd op icd Duration to first press of snap-button in each round n 404 0 0 n_6144_0_0 Never eat eggs, dairy, wheat, sugar Body fat percentage n 23099 0 0 6mm weak meridian angle (right) n 5101 0 0 n_23112_0_0 Leg fat mass (right) Other venous embolism and thrombosis (ICD-10: I82) groupI82 n 20019 0 0 Speech-reception-threshold (SRT) estimate (left) Other disorders of gingiva and edentulous alveolar ridge (ICD-10: K06) groupK06 Happiness n 4526 0 0 Loneliness, isolation n 2020 0 0 n_20116_0_0 Smoking status Fraction acceleration <= 6 milli-gravities n 90097 0 0 Average weekly fortified wine intake n 1608 0 0 n 23114 0 0 Leg predicted mass (right) Average monthly fortified wine intake n_4451_0_0 Fraction acceleration <= 45 milli-gravities n 90116 0 0 n 4825 0 0 Noisy workplace Eosinophill percentage n 30210 0 0 Smoking/smokers in household n 1259 0 0 n_5086_0_0 Cylindrical power (left) Eosinophill count n 30150 0 0 Calibration coefficients - y slope n 90165 0 0 Fraction acceleration <= 25 milli-gravities n_90112_0_0 Intracerebral haemorrhage (ICD-10: I61) groupI61 n 22506 0 0 Tobacco smoking n_5108_0_0 3mm asymmetry angle (right) Creatinine (enzymatic) in urine n 30510 0 0 Whole body fat-free mass n 23101_0_0 n 23098 0 0 Weight Heel bone mineral density (BMD) (right) n_4124_0_0 n 4041 0 0 Gestational diabetes only Minimum carotid IMT (intima-medial thickness) at 150 degrees n_22673_0_0 Hypospadias (ICD-10: Q54) groupQ54 Frequency of stair climbing in last 4 weeks n 943 0 0 Other disorders of binocular movement (ICD-10: H51) groupH51 Mean corpuscular haemoglobin n 30050 0 0 n 20056 0 0 Reason for skipping visual acuity (right) n_2897_0_0 Age stopped smoking Bread type/intake (pilot) n 10776 0 0 Foreign body in alimentary tract (ICD-10: T18) groupT18 ts_20134_0_0 When pairs test completed Status asthmaticus (ICD-10: J46) groupJ46 Other disorders of carbohydrate metabolism (ICD-10: E74) groupE74 OCT measured (right) n 6070 0 0 Other congenital malformations of ear (ICD-10: Q17) groupQ17 Vascular syndromes of brain in cerebrovascular diseases (ICD-10: G46) groupG46 groupR25 Abnormal involuntary movements (ICD-10: R25) Fraction acceleration <= 35 milli-gravities n 90114 0 0 Other noninflammatory disorders of vagina (ICD-10: N89) groupN89 Symptoms and signs concerning food and fluid intake (ICD-10: R63) groupR63 Exposure to tobacco smoke at home n 1269 0 0 Doctor diagnosed chronic bronchitis n 22129 0 0 Heel broadband ultrasound attenuation (BUA), manual entry (left) n_4141_0_0 3mm cylindrical power (left) n 5119 0 0 n 2877 0 0 Type of tobacco previously smoked n 90043 0 0 Average acceleration 16:00 - 16:59 Non-butter spread type details n 2654 0 0 Age of primiparous women at birth of child n 3872 0 0 n_90080_0_0 Wear duration during 20:00 - 20:59 Rheumatic mitral valve diseases (ICD-10: I05) groupI05 FI7 : synonym n 5001 0 0 Open wound of abdomen, lower back and pelvis (ICD-10: S31) groupS31 Data recording errors n 90182 0 0 Reason for skipping grip strength (right) n 20043 0 0 ts_90003_0_0 Start of requested wear period Fraction acceleration <= 1500 milli-gravities n 90153 0 0 Other local infections of skin and subcutaneous tissue (ICD-10: L08) groupL08 Diseases of capillaries (ICD-10: I78) groupI78 Other anxiety disorders (ICD-10: F41) groupF41 Chronic tubulo-interstitial nephritis (ICD-10: N11) groupN11 n_21000_0_0 Ethnic background Age when periods started (menarche) n_2714_0_0

op_breast Trunk fat-free mass Diverticular disease of intestine (ICD-10: K57) op_brain Arm fat mass (left) Unspecified mental retardation (ICD-10: F79) Which eye(s) affected by other eye condition Systolic blood pressure, manual reading Urethritis and urethral syndrome (ICD-10: N34) Benign mammary dysplasia (ICD-10: N60) Long-standing illness, disability or infirmity Fracture of rib(s), sternum and thoracic spine (ICD-10: S22) Refractometry result unreliable (left) Ankle spacing width (right) Time screen exited Daytime dozing / sleeping (narcolepsy) Other and unspecified injuries of thorax (ICD-10: S29) Dermatophytosis (ICD-10: B35) Age emphysema diagnosed by doctor Date of attending assessment centre Other disorders of nose and nasal sinuses (ICD-10: J34) Age at menopause (last menstrual period) Endocarditis, valve unspecified (ICD-10: I38) Age chronic bronchitis diagnosed by doctor Abnormal findings on antenatal screening of mother (ICD-10: O28) Past tobacco smoking 6mm strong meridian (right) Non-follicular lymphoma (ICD-10: C83) Sample rate maximum Other erythematous conditions (ICD-10: L53) Exposure to tobacco smoke outside home Average acceleration 23:00 - 23:59 logMAR, final (left) Dyspepsia (ICD-10: K30) Benign neoplasm of breast (ICD-10: D24) Non-oily fish intake Other predominantly sexually transmitted diseases, not elsewhere classified (ICD-10: A63) Method of recording time when non-cancer illness first diagnosed Dislocation, sprain and strain of joints and ligaments at ankle and foot level (ICD-10: S93) Dermatitis due to substances taken internally (ICD-10: L27) Maternal smoking around birth Recent medication for bronchiectasis Keratitis (ICD-10: H16) Malignant neoplasm of liver and intrahepatic bile ducts (ICD-10: C22) 3mm cylindrical power angle (left) Longest period of depression Car occupant injured in other and unspecified transport accidents (ICD-10: V49) Years of bringing up phlegm/sputum/mucus on most days Readings exceeding +/-8 gravities after calibration Primarily systemic agents (ICD-10: Y43) Average monthly champagne plus white wine intake Average monthly spirits intake Duration of moderate physical activity (pilot) Abnormal serum enzyme levels (ICD-10: R74) Basophill percentage Body mass index (BMI) Heel bone mineral density (BMD) (left) Age stopped smoking cigarettes (current cigar/pipe or previous cigarette smoker) Duration of light DIY Likelihood of resuming smoking Cardiac murmurs and other cardiac sounds (ICD-10: R01) Age asthma diagnosed by doctor Health satisfaction Never eat eggs, dairy, wheat, sugar (pilot) Oesophageal varices (ICD-10: I85) Heel ultrasound method Average acceleration 19:00 - 19:59 Pain and other conditions associated with female genital organs and menstrual cycle (ICD-10: N94) 3mm regularity index (right) FI10 : arithmetic sequence recognition Number of full brothers Ever stopped smoking for 6+ months Reticulocyte percentage acquisition time Other eye problems Heel broadband ultrasound attenuation (left) Microalbumin in urine result flag Potassium in urine result flag

op_breast n 23129 0 0 groupK57 op_brain n_23124_0_0 groupF79 n_5877_0_0 n 93 0 0 groupN34 groupN60 n 2188 0 0 groupS22 s_5090_0_0 n 4119 0 0 ts 4289 0 0 n_1220_0_0 groupS29 groupB35 n 22148 0 0 ts_53_0_0 groupJ34 n 3581 0 0 groupI38 n 22149 0 0 groupO28 n 1249 0 0 n 5133 0 0 groupC83 n 90191 0 0 groupL53 n 1279 0 0 n 90050 0 0 n 5208 0 0 groupK30 groupD24 n 1339 0 0 groupA63 n 20013 0 0 groupS93 groupL27 n 1787 0 0 n 22174 0 0 groupH16 groupC22 n 5112 0 0 n_4609_0_0 groupV49 n 22505_0_0 n 90185 0 0 groupY43 n 4418 0 0 n 4440 0 0 n 10962 0 0 groupR74 n 30220 0 0 n 23104 0 0 n 4105 0 0 n_6194_0_0 n 1021 0 0 n 2936 0 0 groupR01 n 22147 0 0 n 4548 0 0 n_10855_0_0 groupI85 n 19 0 0 n_90046_0_0 groupN94 n 5160 0 0 n_20183_0_0 n_1873_0_0 n 2907 0 0 ts_30242_0_0 n 2227 0 0 n 4101 0 0 s_30505_0_0 s 30525 0 0

Calina in mina and the	- 20525 0 0
Sodium in urine result flag Creatinine (enzymatic) in urine acquisition time	s_30535_0_0 ts_30512_0_0
Potassium in urine acquisition time	ts 30522 0 0
Weight method	n_21_0_0
Spirometry method	n_23_0_0
Sex	n_31_0_0
Hand grip strength (left) Hand grip strength (right)	n_46_0_0 n_47_0_0
Heel bone ultrasound T-score, manual entry	n_77_0_0
Pulse rate (during blood-pressure measurement)	n_95_0_0
Birth weight known	n_120_0_0
Number of self-reported cancers	n_134_0_0
Number of self-reported non-cancer illnesses Number of times snap-button pressed	n_135_0_0
Number of days/week of vigorous physical activity 10+ minutes	n_403_0_0 n_904_0_0
Duration of vigorous activity	n_914_0_0
Duration walking for pleasure	n_981_0_0
Frequency of strenuous sports in last 4 weeks	n_991_0_0
Frequency of light DIY in last 4 weeks	n_1011_0_0
Frequency of friend/family visits Time spent watching television (TV)	n_1031_0_0 n_1070_0_0
Drive faster than motorway speed limit	n_1100_0_0
Sleep duration	n_1160_0_0
Getting up in morning	n_1170_0_0
Morning/evening person (chronotype)	n_1180_0_0
Nap during day Current tobacco smoking	n_1190_0_0 n_1239_0_0
Dried fruit intake	n_1319_0_0
Oily fish intake	n_1329_0_0
Poultry intake	n_1359_0_0
Lamb/mutton intake	n_1379_0_0
Pork intake	n_1389_0_0
Milk type used Spread type	n_1418_0_0 n_1428_0_0
Tea intake	n 1488 0 0
Coffee intake	n_1498_0_0
Hot drink temperature	n_1518_0_0
Water intake	n_1528_0_0
Major dietary changes in the last 5 years Alcohol usually taken with meals	n_1538_0_0 n_1618_0_0
Alcohol intake versus 10 years previously	n 1628 0 0
Country of birth (UK/elsewhere)	n_1647_0_0
Breastfed as a baby	n_1677_0_0
Adopted as a child	n_1767_0_0
Part of a multiple birth Father still alive	n_1777_0_0 n_1797_0_0
Mother still alive	n_1835_0_0
Mother's age	n_1845_0_0
Mood swings	n_1920_0_0
Miserableness	n_1930_0_0
Irritability Sensitivity / hurt feelings	n_1940_0_0 n_1950_0_0
Fed-up feelings	n_1960_0_0
Nervous feelings	n_1970_0_0
Worrier / anxious feelings	n_1980_0_0
Tense / 'highly strung'	n_1990_0_0
Suffer from 'nerves' Guilty feelings	n_2010_0_0 n_2030_0_0
Risk taking	n 2040 0 0
Frequency of depressed mood in last 2 weeks	n_2050_0_0
Frequency of unenthusiasm / disinterest in last 2 weeks	n_2060_0_0
Frequency of tenseness / restlessness in last 2 weeks	n_2070_0_0
Frequency of tiredness / lethargy in last 2 weeks Seen doctor (GP) for nerves, anxiety, tension or depression	n_2080_0_0 n_2090_0_0
Seen a psychiatrist for nerves, anxiety, tension or depression	n_2090_0_0 n_2100_0_0
Able to confide	n_2110_0_0
Overall health rating	n_2178_0_0
Wears glasses or contact lenses	n_2207_0_0
Hearing difficulty/problems Hearing difficulty/problems with background noise	n_2247_0_0
Falls in the last year	n_2257_0_0 n_2296_0_0
Weight change compared with 1 year ago	n_2206_0_0 n_2306_0_0
Wheeze or whistling in the chest in last year	n_2316_0_0
Chest pain or discomfort	n_2335_0_0
Relative age of first facial hair	n_2375_0_0
Relative age voice broke Hair/balding pattern	n_2385_0_0 n_2395_0_0
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Number of children fathered	n_2405_0_0
Cancer diagnosed by doctor Fractured/broken bones in last 5 years	n_2453_0_0 n_2463_0_0
Other serious medical condition/disability diagnosed by doctor	n 2473 0 0
Taking other prescription medications	n_2492_0_0
Frequency of heavy DIY in last 4 weeks	n_2624_0_0
Duration of heavy DIY	n_2634_0_0
Ever had breast cancer screening / mammogram	n_2674_0_0
Ever had cervical smear test Had menopause	n_2694_0_0 n_2724_0_0
Ever had stillbirth, spontaneous miscarriage or termination	n_2724_0_0 n_2774_0_0
Ever taken oral contraceptive pill	n_2784_0_0
Ever used hormone-replacement therapy (HRT)	n_2814_0_0
Bilateral oophorectomy (both ovaries removed)	n_2834_0_0
Age started smoking in former smokers	n_2867_0_0
Number of unsuccessful stop-smoking attempts General pain for 3+ months	n_2926_0_0
Fracture resulting from simple fall	n_2956_0_0 n_3005_0_0
Ordering of blows	n 3065 0 0
Foot measured for bone density	n_3081_0_0
Fractured heel	n_3082_0_0
Heel quantitative ultrasound index (QUI), manual entry	n_3083_0_0
Heel Broadband ultrasound attenuation (BUA), manual entry	n_3085_0_0
Caffeine drink within last hour Used an inhaler for chest within last hour	n_3089_0_0 n_3090_0_0
Number of measurements made	n_3137_0_0
Pregnant	n 3140 0 0
Heel quantitative ultrasound index (QUI), direct entry	n_3147_0_0
Heel bone mineral density (BMD)	n_3148_0_0
Hearing aid user	n_3393_0_0
Neck/shoulder pain for 3+ months	n_3404_0_0
Hip pain for 3+ months Age started smoking in current smokers	n_3414_0_0 n_3436_0_0
Type of tobacco currently smoked	n 3446 0 0
Number of cigarettes currently smoked daily (current cigarette smokers)	n 3456 0 0
Difficulty not smoking for 1 day	n_3476_0_0
Ever tried to stop smoking	n_3486_0_0
Wants to stop smoking	n_3496_0_0
Smoking compared to 10 years previous	n_3506_0_0
Chest pain or discomfort walking normally Frequency of other exercises in last 4 weeks	n_3606_0_0 n_3637_0_0
Age when last ate meat	n_3680_0_0
Time since last menstrual period	n 3700 0 0
Length of menstrual cycle	n_3710_0_0
Menstruating today	n_3720_0_0
Former alcohol drinker	n_3731_0_0
Stomach/abdominal pain for 3+ months Knee pain for 3+ months	n_3741_0_0 n_3773_0_0
Headaches for 3+ months	n_3799_0_0
Number of stillbirths	n 3829 0 0
Number of spontaneous miscarriages	n_3839_0_0
Number of pregnancy terminations	n_3849_0_0
Reason former drinker stopped drinking alcohol	n_3859_0_0
Age at bilateral oophorectomy (both ovaries removed) Age heart attack diagnosed	n_3882_0_0
Adopted father still alive	n_3894_0_0 n_3912_0_0
Adopted mother still alive	n_3942_0_0
Number of adopted brothers	n_3972_0_0
Number of adopted sisters	n_3982_0_0
Age emphysema/chronic bronchitis diagnosed	n_3992_0_0
Age pulmonary embolism (blood clot in lung) diagnosed	n_4022_0_0
Age stroke diagnosed Diastolic blood pressure, automated reading	n_4056_0_0 n_4079_0_0
Heel ultrasound method (left)	n_4079_0_0 n_4092_0_0
Fractured heel (left)	n 4093 0 0
Heel ultrasound method (right)	n_4095_0_0
Fractured heel (right)	n_4096_0_0
Heel quantitative ultrasound index (QUI), direct entry (left)	n_4104_0_0
Heel bone mineral density (BMD) T-score, automated (left)	n_4106_0_0 n_4120_0_0
Heel broadband ultrasound attenuation (right) Heel quantitative ultrasound index (QUI), direct entry (right)	n_4120_0_0 n_4123_0_0
Heel bone mineral density (BMD) T-score, automated (right)	n_4125_0_0 n_4125_0_0
Heel bone mineral density (BMD) T-score, manual entry (left)	n_4138_0_0
Heel bone mineral density (BMD), manual entry (left)	n_4140_0_0
Heel bone mineral density (BMD) T-score, manual entry (right)	n_4143_0_0
Heel quantitative ultrasound index (QUI), manual entry (right)	n_4144_0_0
Heel bone mineral density (BMD), manual entry (right)	n_4145_0_0

Heel broadband ultrasound attenuation (BUA), manual entry (right)	n_4146_0_0
Stiffness method	n_4186_0_0
Pulse rate	n_4194_0_0
Number entered by participant	s_4258_0_0
Digits entered correctly	n_4259_0_0
Completion status (left)	n_4268_0_0
Number of triplets attempted (left)	n_4269_0_0
Volume level set by participant (left)	n_4270_0_0
Completion status (right)	n_4275_0_0
Number of triplets attempted (right) Volume level set by participant (right)	n_4276_0_0
Completion status of numeric memory test	n_4277_0_0 n_4281_0_0
Maximum digits remembered correctly	n_4281_0_0 n_4282_0_0
Test completion status	n_4282_0_0 n_4287_0_0
Time to answer	n_4288_0_0
PM: initial answer	n 4292 0 0
PM: final answer	n 4293 0 0
Final attempt correct	n 4294 0 0
History of attempts	s 4295 0 0
Average monthly red wine intake	n 4407 0 0
Average monthly beer plus cider intake	n 4429 0 0
Average monthly intake of other alcoholic drinks	n 4462 0 0
Non-accidental death in close genetic family	n 4501 0 0
Work/job satisfaction	n_4537_0_0
Family relationship satisfaction	n_4559_0_0
Friendships satisfaction	n_4570_0_0
Financial situation satisfaction	n_4581_0_0
Ever depressed for a whole week	n_4598_0_0
Number of depression episodes	n_4620_0_0
Ever unenthusiastic/disinterested for a whole week	n_4631_0_0
Ever manic/hyper for 2 days	n_4642_0_0
Ever highly irritable/argumentative for 2 days	n_4653_0_0
Shortness of breath walking on level ground	n_4717_0_0
Leg pain on walking	n_4728_0_0
Cochlear implant	n_4792_0_0
Tinnitus Timi ing anguite / aui angui	n_4803_0_0
Tinnitus severity/nuisance	n_4814_0_0
Loud music exposure frequency Hearing test done	n_4836_0_0 n_4849_0_0
Attempted fluid intelligence (FI) test.	n_4924_0_0
FI1 : numeric addition test	n_4935_0_0
F12 : identify largest number	n 4946 0 0
F13 : word interpolation	n 4957 0 0
FI4 : positional arithmetic	n 4968 0 0
FI6 : conditional arithmetic	n 4990 0 0
FI8 : chained arithmetic	n_5012_0_0
Number of older siblings	n 5057 0 0
Cylindrical power (right)	n 5087 0 0
Astigmatism angle (right)	n_5088_0_0
3mm weak meridian angle (right)	n_5100_0_0
6mm weak meridian angle (left)	n_5102_0_0
3mm weak meridian angle (left)	n_5103_0_0
3mm strong meridian angle (left)	n_5104_0_0
3mm strong meridian angle (right)	n_5107_0_0
6mm asymmetry angle (left)	n_5110_0_0
3mm asymmetry angle (left)	n_5111_0_0
6mm cylindrical power angle (left)	n_5113_0_0
6mm cylindrical power angle (right)	n_5114_0_0
3mm cylindrical power angle (right)	n_5115_0_0
3mm cylindrical power (right)	n_5116_0_0
6mm cylindrical power (right)	n_5117_0_0
6mm cylindrical power (left) 3mm keratometry result unreliable (left)	n_5118_0_0 s 5136 0 0
6mm keratometry result unreliable (left)	s_5138_0_0
6mm keratometry result unreliable (right)	s 5139 0 0
3mm keratometry result unreliable (right)	s_5140_0_0
3mm asymmetry index unreliable (left)	s_5141_0_0
6mm asymmetry index unreliable (left)	s_5142_0_0
6mm asymmetry index unreliable (right)	s 5143 0 0
3mm asymmetry index unreliable (right)	s_5144_0_0
3mm regularity index unreliable (right)	s_5145_0_0
6mm regularity index unreliable (right)	s_5146_0_0
6mm regularity index unreliable (left)	s_5147_0_0
3mm regularity index unreliable (left)	s_5148_0_0
3mm regularity index for irregular astigmatism level (left)	n_5149_0_0
3mm asymmetry index for irregular astigmatism level (right)	n_5152_0_0
3mm asymmetry index for irregular astigmatism level (left)	n_5155_0_0

3mm asymmetry index (left)	n_5156_0_0
3mm asymmetry index (right)	n_5159_0_0
6mm regularity index (right)	n_5161_0_0
3mm regularity index for irregular astigmatism level (right) Ever had eye surgery	n_5164_0_0 n_5181_0_0
Both eyes present	n 5182 0 0
Current eye infection	n_5183_0_0
Visual acuity measured (right)	n_5185_0_0
Visual acuity measured (left)	n_5187_0_0
Auto-refraction method (right)	n_5189_0_0
Auto-refraction method (left)	n_5191_0_0
Intra-ocular pressure (IOP) method (right)	n_5194_0_0
Intra-ocular pressure (IOP) method (left) Index of best refractometry result (right)	n_5196_0_0 n_5221_0_0
3mm index of best keratometry results (right)	n_5237_0_0
6mm index of best keratometry results (right)	n_5251_0_0
Corneal resistance factor (right)	n_5257_0_0
Vertex distance (left)	n_5274_0_0
3mm index of best keratometry results (left)	n_5292_0_0
6mm index of best keratometry results (left)	n_5306_0_0
Ever had cataract surgery	n_5324_0_0
Ever had refractive laser eye surgery Ever had surgery for glaucoma or high eye pressure	n_5325_0_0 n 5326 0 0
Ever had sargery for gradeonia of high eye pressure	n 5328 0 0
Average weekly intake of other alcoholic drinks	n 5364 0 0
Longest period of unenthusiasm / disinterest	n_5375_0_0
Number of unenthusiastic/disinterested episodes	n_5386_0_0
Which eye(s) affected by injury or trauma resulting in loss of vision	n_5419_0_0
Age when loss of vision due to injury or trauma diagnosed	n_5430_0_0
Which eye(s) are affected by cataract	n_5441_0_0
Leg pain when standing still or sitting Leg pain in calf/calves	n_5452_0_0 n 5463_0_0
Leg pain the universes	n_5485_0_0
Leg pain when walking ever disappears while walking	n 5496 0 0
Leg pain on walking : effect of standing still	n_5518_0_0
Surgery/amputation of toe or leg	n_5540_0_0
FI9 : concept interpolation	n_5556_0_0
Length of longest manic/irritable episode	n_5663_0_0
Severity of manic/irritable episodes	n_5674_0_0
F110 : arithmetic sequence recognition F111 : antonym	n_5699_0_0 n 5779_0_0
F112 : square sequence recognition	n_5790_0_0
Which eye(s) affected by hypermetropia (long sight)	n 5832 0 0
Which eye(s) affected by myopia (short sight)	n_5843_0_0
Which eye(s) affected by astigmatism	n_5855_0_0
F113 : subset inclusion logic	n_5866_0_0
Which eye(s) affected by diabetes-related eye disease	n_5890_0_0
Age when diabetes-related eye disease diagnosed	n_5901_0_0
Which eye(s) affected by macular degeneration Age macular degeneration diagnosed	n_5912_0_0 n_5923_0_0
Which eye(s) affected by other serious eye condition	n_5934_0_0
Age other serious eye condition diagnosed	n_5945_0_0
Previously smoked cigarettes on most/all days	n_5959_0_0
ECG, heart rate	n_5983_0_0
ECG, trend phase name	s_5987_0_0
ECG, stage name	s_5988_0_0
ECG, phase name	s_5991_0_0
ECG, phase duration ECG, number of stages in a phase	n_5992_0_0 n_5993_0_0
Doctor restricts physical activity due to heart condition	n_6014_0_0
Chest pain felt during physical activity	n_6015_0_0
Chest pain felt outside physical activity	n_6016_0_0
Able to walk or cycle unaided for 10 minutes	n_6017_0_0
Completion status of test	n_6020_0_0
Program category	n_6024_0_0
Maximum workload during fitness test Maximum heart rate during fitness test	n_6032_0_0
Target heart rate achieved	n_6033_0_0 n 6034_0_0
Number of trend entries	n_6038_0_0
Duration of fitness test	n_6039_0_0
OCT measured (left)	n_6072_0_0
Glasses worn/required (right)	n_6074_0_0
Glasses wom/required (left)	n_6075_0_0
Which eye(s) affected by glaucoma Illness, injury, bereavement, stress in last 2 years	n_6119_0_0 n 6145_0_0
Eye problems/disorders	n_6143_0_0 n_6148_0_0
Fractured bone site(s)	n_6151_0_0

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Blood clot, DVT, bronchitis, emphysema, asthma, rhinitis, eczema, allergy diagnosed by doctor	n_6152_0_0
Medication for cholesterol, blood pressure, diabetes, or take exogenous hormones Medication for pain relief, constipation, heartburn	n_6153_0_0 n 6154 0 0
Vitamin and mineral supplements	n_6155_0_0
Manic/hyper symptoms	n_6156_0_0
Pain type(s) experienced in last month	n_6159_0_0
Medication for cholesterol, blood pressure or diabetes	n_6177_0_0
Number of cigarettes previously smoked daily (current cigar/pipe smokers)	n_6183_0_0
Which eye(s) affected by strabismus (squint)	n_6205_0_0
Medication for pain relief, constipation, heartburn (pilot)	n_10004_0_0
Medication for smoking cessation, constipation, heartburn, allergies (pilot) Mouth/teeth dental problems (pilot)	n_10005_0_0 n_10006_0_0
Vitamin and mineral supplements (pilot)	n_10007_0_0
Why stopped smoking (pilot)	n_10115_0_0
Type of progestan-only oral contraceptive used (pilot)	n_10132_0_0
Number of times snap-button pressed (pilot)	n_10141_0_0
Duration to first press of snap-button in each round (pilot)	n_10147_0_0
Words answer array (pilot)	n_10609_0_0
Word count (pilot)	n_10610_0_0
Number of words beginning with 'S' (pilot)	n_10612_0_0
Spirometry method (pilot) Illness, injury, bereavement, stress in last 2 years (pilot)	n_10711_0_0 n_10721_0_0
Qualifications (pilot)	n_10722_0_0
Vitamin supplements (pilot)	n_10723_0_0
Frequency of friend/family visits (pilot)	n_10740_0_0
Spread type (pilot)	n_10767_0_0
Hearing difficulty/problems (pilot)	n_10793_0_0
Ever stopped smoking for 6+ months (pilot)	n_10827_0_0
Gestational diabetes only (pilot)	n_10844_0_0
Reason former drinker stopped drinking alcohol (pilot) Other dietary supplements (pilot)	n_10853_0_0 n_10854_0_0
Average total household income before tax (pilot)	n 10877 0 0
Light smokers, at least 100 smokes in lifetime (pilot)	n 10895 0 0
Variation in diet (pilot)	n_10912_0_0
Duration of walks (pilot)	n_10953_0_0
Duration of vigorous physical activity (pilot)	n_10971_0_0
Cancer code, self-reported	n_20001_0_0
Non-cancer illness code, self-reported	n_20002_0_0
Treatment/medication code Interpolated Year when cancer first diagnosed	n_20003_0_0 n 20006_0_0
Interpolated Year when non-cancer illness first diagnosed	n 20008 0 0
Sitting height	n_20015_0_0
Fluid intelligence score	n_20016_0_0
Prospective memory result	n_20018_0_0
Reason for skipping weight	n_20041_0_0
Reason for skipping grip strength (left)	n_20044_0_0
Reason for skipping waist Reason for skipping hip measurement	n_20045_0_0
Reason for skipping standing height	n_20046_0_0 n 20047_0_0
Reason for skipping staticing height	n_20047_0_0 n_20048_0_0
Reason for skipping arterial stiffness	n_20051_0_0
Reason for skipping refractometry (left)	n_20052_0_0
Reason for skipping IOP (right)	n_20053_0_0
Reason for skipping IOP (left)	n_20054_0_0
Reason for skipping refractometry (right)	n_20055_0_0
Reason for skipping visual acuity (left) Reason for skipping ECG	n_20057_0_0
Reason ECG not completed	n_20058_0_0 n_20059_0_0
Reason at-rest ECG performed without bicycle	n 20060 0 0
Reason for skipping OCT (right)	n 20061 0 0
Reason for skipping OCT (left)	n_20062_0_0
Illnesses of father	n_20107_0_0
Illnesses of mother	n_20110_0_0
Illnesses of siblings	n_20111_0_0
Illnesses of adopted father Illnesses of adopted mother	n_20112_0_0 n 20113_0_0
Illnesses of adopted informer	n_20113_0_0 n_20114_0_0
Alcohol drinker status	n_20114_0_0 n_20117_0_0
Cascot confidence score	n_20121_0_0
Bipolar disorder status	n_20122_0_0
Bipolar and major depression status	n_20126_0_0
Number of fluid intelligence questions attempted within time limit	n_20128_0_0
Number of correct matches in round	n_20131_0_0
Number of incorrect matches in round Forced expiratory volume in 1-second (FEV1), Best measure	n_20132_0_0 n 20150 0 0
Reproducibility of spirometry measurement using ERS/ATS criteria	n 20152 0 0
Duration to complete alphanumeric path (trail #2)	n_20152_0_0 n_20157_0_0
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Number of symbol digit matches made correctly	n_20159_0_0
Ever smoked FI1 : numeric addition test	n_20160_0_0 n_20165_0_0
F12 : identify largest number	n_20165_0_0 n_20167_0_0
FI3 : word interpolation	n 20169 0 0
F14 : positional arithmetic	n 20171 0 0
FI5 : family relationship calculation	n_20173_0_0
FI6 : conditional arithmetic	n_20175_0_0
FI7 : synonym	n_20177_0_0
F18 : chained arithmetic	n_20179_0_0
FI9 : concept interpolation	n_20181_0_0 n 20185 0 0
F111 : antonym F112 : square sequence recognition	n_20185_0_0 n_20187_0_0
FI13 : subset inclusion logic	n 20189 0 0
Fluid intelligence score	n 20191 0 0
FI14 : alphanumeric substitution	n_20193_0_0
Code array presented	n_20196_0_0
Value entered	n_20229_0_0
Maximum digits remembered correctly	n_20240_0_0
Fluid intelligence completion status Symbol digit completion status	n_20242_0_0
Trail making completion status	n_20245_0_0 n_20246_0_0
Total errors traversing alphanumeric path (trail #2)	n 20248 0 0
Doctor diagnosed hayfever or allergic rhinitis	n_22126_0_0
Doctor diagnosed asthma	n_22127_0_0
Doctor diagnosed emphysema	n_22128_0_0
Doctor diagnosed COPD (chronic obstructive pulmonary disease)	n_22130_0_0
Doctor diagnosed cystic fibrosis	n_22131_0_0
Doctor diagnosed alpha-1 antitrypsin deficiency Doctor diagnosed sarcoidosis	n_22132_0_0 n_22133_0_0
Doctor diagnosed bronchiectasis	n_22133_0_0 n_22134_0_0
Doctor diagnosed idiopathic pulmonary fibrosis	n 22135 0 0
Doctor diagnosed fibrosing alveolitis/unspecified alveolitis	n_22136_0_0
Doctor diagnosed tuberculosis	n_22137_0_0
Doctor diagnosed silicosis	n_22138_0_0
Doctor diagnosed asbestosis	n_22139_0_0
Doctor diagnosed lung cancer (not mesothelioma)	n_22140_0_0
Doctor diagnosed mesothelioma of the lung Age hayfever or allergic rhinitis diagnosed by doctor	n_22141_0_0 n_22146_0_0
Age cystic fibrosis diagnosed by doctor	n_22140_0_0 n_22151_0_0
Age alpha-1 antitrypsin deficiency diagnosed by doctor	n 22152 0 0
Age sarcoidosis diagnosed by doctor	n_22153_0_0
Age bronchiectasis diagnosed by doctor	n_22154_0_0
Age idiopathic pulmonary fibrosis diagnosed by doctor	n_22155_0_0
Age fibrosing alveolitis/unspecified alveolitis diagnosed by doctor	n_22156_0_0
Age tuberculosis diagnosed by doctor	n_22157_0_0
Age silicosis diagnosed by doctor Age asbestosis diagnosed by doctor	n_22158_0_0 n_22159_0_0
Age lung cancer (not mesothelioma) diagnosed by doctor	n 22160 0 0
Age mesothelioma of the lung diagnosed by doctor	n_22161_0_0
Recent medication for hayfever or allergic rhinitis	n_22166_0_0
Recent medication for asthma	n_22167_0_0
Recent medication for emphysema	n_22168_0_0
Recent medication for chronic bronchitis Recent medication for COPD (Chronic Obstructive Pulmonary Disease)	n_22169_0_0
Recent medication for cystic fibrosis	n_22170_0_0 n_22171_0_0
Recent medication for alpha-1 antitrypsin deficiency	n_221772_0_0
Recent medication for sarcoidosis	n_22173_0_0
Recent medication for idiopathic pulmonary fibrosis	n_22175_0_0
Recent medication for fibrosing alveolitis/unspecified alveolitis	n_22176_0_0
Recent medication for tuberculosis	n_22177_0_0
Recent medication for silicosis	n_22178_0_0
Recent medication for asbestosis Recent medication for lung cancer (not mesothelioma)	n_22179_0_0 n_22180_0_0
Recent medication for mesothelioma of the lung	n 22180_0_0
Cough on most days	n 22502 0 0
Years of cough on most days	n_22503_0_0
Bring up phlegm/sputum/mucus on most days	n_22504_0_0
Age of stopping smoking	n_22507_0_0
Amount of tobacco currently smoked	n_22508_0_0
Minimum carotid IMT (intima-medial thickness) at 120 degrees Mean carotid IMT (intima-medial thickness) at 120 degrees	n_22670_0_0 n_22671_0_0
Maximum carotid IMT (intima-medial thickness) at 120 degrees	n 22672 0 0
Mean carotid IMT (intima-medial thickness) at 150 degrees	n_22674_0_0
Maximum carotid IMT (intima-medial thickness) at 150 degrees	n_22675_0_0
Minimum carotid IMT (intima-medial thickness) at 210 degrees	n_22676_0_0
Mean carotid IMT (intima-medial thickness) at 210 degrees	n_22677_0_0

Maximum carotid IMT (intima-medial thickness) at 210 degrees Minimum carotid IMT (intima-medial thickness) at 240 degrees Mean carotid IMT (intima-medial thickness) at 240 degrees Maximum carotid IMT (intima-medial thickness) at 240 degrees Quality control indicator for IMT at 120 degrees Quality control indicator for IMT at 150 degrees Quality control indicator for IMT at 210 degrees Quality control indicator for IMT at 240 degrees Whole body fat mass Whole body water mass Basal metabolic rate Leg fat mass (left) Leg fat-free mass (left) Leg predicted mass (left) Arm fat-free mass (right) Arm predicted mass (right) Arm fat percentage (left) Arm fat-free mass (left) Arm predicted mass (left) White blood cell (leukocyte) count acquisition route Red blood cell (erythrocyte) count device ID Red blood cell (erythrocyte) count acquisition route Haemoglobin concentration device ID Haemoglobin concentration acquisition route Haematocrit percentage device ID Haematocrit percentage acquisition route Mean corpuscular volume device ID Mean corpuscular volume acquisition route Mean corpuscular haemoglobin device ID Mean corpuscular haemoglobin acquisition route Mean corpuscular haemoglobin concentration device ID Mean corpuscular haemoglobin concentration acquisition route Red blood cell (erythrocyte) distribution width device ID Red blood cell (erythrocyte) distribution width acquisition route Platelet count device ID Platelet count acquisition route Platelet crit device ID Platelet crit acquisition route Mean platelet (thrombocyte) volume device ID Mean platelet (thrombocyte) volume acquisition route Platelet distribution width device ID Platelet distribution width acquisition route Lymphocyte count device ID Lymphocyte count acquisition route Monocyte count device ID Monocyte count acquisition route Neutrophill count device ID Neutrophill count acquisition route Eosinophill count device ID Eosinophill count acquisition route Basophill count device ID Basophill count acquisition route Nucleated red blood cell count Nucleated red blood cell count device ID Nucleated red blood cell count acquisition route Lymphocyte percentage device ID Lymphocyte percentage acquisition route Monocyte percentage device ID Monocyte percentage acquisition route Neutrophill percentage device ID Neutrophill percentage acquisition route Eosinophill percentage device ID Eosinophill percentage acquisition route Basophill percentage device ID Basophill percentage acquisition route Nucleated red blood cell percentage Nucleated red blood cell percentage device ID Nucleated red blood cell percentage acquisition route Reticulocyte percentage Reticulocyte percentage device ID Reticulocyte percentage acquisition route Reticulocyte count Reticulocyte count device ID Reticulocyte count acquisition route Mean reticulocyte volume Mean reticulocyte volume device ID Mean reticulocyte volume acquisition route

Mean sphered cell volume	n_30270_0_0
Mean sphered cell volume device ID	s_30273_0_0
Mean sphered cell volume acquisition route	n_30274_0_0
Immature reticulocyte fraction device ID	s_30283_0_0
Immature reticulocyte fraction acquisition route	n_30284_0_0
High light scatter reticulocyte percentage device ID	s_30293_0_0
High light scatter reticulocyte percentage acquisition route	n_30294_0_0
High light scatter reticulocyte count device ID	s_30303_0_0
High light scatter reticulocyte count acquisition route	n_30304_0_0
Acceleration data - cwa format Data problem indicator	s_90001_0_0
Overall acceleration average	n_90002_0_0
Standard deviation of acceleration	n_90012_0_0
Data quality, good wear time	n_90013_0_0
Data quality, good calibration	n_90015_0_0
Data quality, good canoration Data quality, calibrated on own data	n_90016_0_0 n_90017_0_0
Daylight savings crossover	n_90017_0_0 n_90018_0_0
Tuesday average acceleration	n 90020 0 0
Wednesday average acceleration	n_90021_0_0
Thursday average acceleration	n 90022_0_0
Friday average acceleration	n 90022_0_0
Saturday average acceleration	n 90024 0 0
Sunday average acceleration	n 90025 0 0
First weekday of wear	n 90026 0 0
Average acceleration 02:00 - 02:59	n 90029 0 0
Average acceleration 03:00 - 03:59	n 90030 0 0
Average acceleration 04:00 - 04:59	n 90031 0 0
Average acceleration 06:00 - 06:59	n 90033 0 0
Average acceleration 08:00 - 08:59	n_90035_0_0
Average acceleration 09:00 - 09:59	n 90036 0 0
Average acceleration 10:00 - 10:59	n_90037_0_0
Average acceleration 11:00 - 11:59	n_90038_0_0
Average acceleration 14:00 - 14:59	n_90041_0_0
Average acceleration 15:00 - 15:59	n_90042_0_0
Average acceleration 18:00 - 18:59	n_90045_0_0
Average acceleration 22:00 - 22:59	n_90049_0_0
Wear duration overall	n_90051_0_0
Non wear duration overall	n_90052_0_0
Wear duration during Monday	n_90053_0_0
Wear duration during Tuesday	n_90054_0_0
Wear duration during Wednesday	n_90055_0_0
Wear duration during Thursday	n_90056_0_0
Wear duration during Friday	n_90057_0_0
Wear duration during Saturday	n_90058_0_0
Wear duration during Sunday	n_90059_0_0
Wear duration during 00:00 - 00:59	n_90060_0_0
Wear duration during 02:00 - 02:59	n_90062_0_0
Wear duration during 03:00 - 03:59	n_90063_0_0
Wear duration during 04:00 - 04:59	n_90064_0_0
Wear duration during 05:00 - 05:59	n_90065_0_0
Wear duration during 06:00 - 06:59	n_90066_0_0
Wear duration during 08:00 - 08:59	n_90068_0_0
Wear duration during 09:00 - 09:59	n_90069_0_0
Wear duration during 11:00 - 11:59	n_90071_0_0
Wear duration during 12:00 - 12:59	n_90072_0_0
Wear duration during 13:00 - 13:59 Wear duration during 14:00 - 14:59	n_90073_0_0
	n_90074_0_0
Wear duration during 15:00 - 15:59 Wear duration during 16:00 - 16:59	n_90075_0_0 n_90076_0_0
Wear duration during 17:00 - 17:59	n_90076_0_0
Wear duration during 17:00 - 17:39 Wear duration during 18:00 - 18:59	n_90077_0_0
Wear duration during 19:00 - 19:59	n_90078_0_0 n 90079 0 0
Wear duration during 11:00 - 21:59	n_90081_0_0
Wear duration during 22:00 - 22:59 Wear duration during 22:00 - 22:59	n_90082_0_0
Wear duration during 23:00 - 23:59	n 90083_0_0
Unique hours of wear in a 24 hour cycle (scattered over multiple days)	n 90084_0_0
Unique minutes of wear in a 24 hour cycle (scattered over multiple days)	n 90085_0_0
Non wear episodes over 1 hour duration	n 90086 0 0
No-wear time bias adjusted average acceleration	n_90087_0_0
No-wear time bias adjusted acceleration standard deviation	n 90088 0 0
No-wear time bias adjusted acceleration median	n 90089 0 0
No-wear time bias adjusted acceleration minimum	n_90090_0_0
Fraction acceleration <= 1 milli-gravities	n_90092_0_0
Fraction acceleration <= 2 milli-gravities	n_90093_0_0
Fraction acceleration <= 5 milli-gravities	n_90096_0_0
Fraction acceleration <= 10 milli-gravities	n_90101_0_0
Fraction acceleration <= 11 milli-gravities	n_90102_0_0

	on acceleration <= 12 milli-gravities
	on acceleration <= 13 milli-gravities
	on acceleration <= 14 milli-gravities on acceleration <= 15 milli-gravities
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	on acceleration <= 175 milli-gravities
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	on acceleration <= 225 milli-gravities
	on acceleration <= 250 milli-gravities
Fracti	on acceleration <= 275 milli-gravities
	on acceleration <= 300 milli-gravities
Fracti	on acceleration <= 325 milli-gravities
Fracti	on acceleration <= 350 milli-gravities
Fracti	on acceleration <= 375 milli-gravities
Fracti	on acceleration <= 400 milli-gravities
Fracti	on acceleration <= 425 milli-gravities
Fracti	on acceleration <= 450 milli-gravities
Fracti	on acceleration <= 475 milli-gravities
Fracti	on acceleration <= 500 milli-gravities
	on acceleration <= 600 milli-gravities
	on acceleration <= 700 milli-gravities
	on acceleration <= 800 milli-gravities
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	on acceleration <= 1100 milli-gravities
	on acceleration <= 1200 milli-gravities
	on acceleration <= 1400 milli-gravities
	on acceleration <= 1600 milli-gravities
	on acceleration <= 1700 milli-gravities
	on acceleration <= 1800 milli-gravities
	on acceleration <= 1900 milli-gravities
	on acceleration <= 2000 milli-gravities
	ration coefficients - x offset
	ration coefficients - z offset
	ration coefficients - z slope
	ration coefficients - x temp
	ration coefficients - y temp
	ration coefficients - z temp ration - number of static points
	ration - minimum x stationary value
	ration - minimum x stationary value
	ration - maximum y stationary value
	ration - maximum y stationary value
	ration - maximum z stationary value
Devic	
	upted recording periods
	ion of interrupted recording periods
	ngs exceeding +/-8 gravities before calibration
	num readings exceeding +/-8 gravities before calibration in a 5 second epoch
	num readings exceeding +/-8 gravities after calibration in a 5 second epoch
	le rate average
-	le rate standard deviation
-	le rate minimum
-	erature standard deviation
-	erature minimum
	tion to physical activity study, acceptance
	fluid intelligence test completed
	trail making test completed
	symbol digit substitution test completed
When	
	blood cell (leukocyte) count acquisition time

n_90103_0_0 n_90104_0_0 n_90105_0_0 $n_90106_0_0$ n_90107_0_0 n_90108_0_0 n_90109_0_0 n_90110_0_0 n_90111_0_0 n_90113_0_0 n_90117_0_0 n_90118_0_0 n_90119_0_0 n_90120_0_0 n_90121_0_0 n_90122_0_0 n_90123_0_0 n_90125_0_0 $n_90126_0_0$ n_90128_0_0 n_90129_0_0 n_90130_0_0 n_90131_0_0 n_90132_0_0 n_90133_0_0 n_90134_0_0 n_90135_0_0 n_90136_0_0 n_90137_0_0 n_90138_0_0 n_90139_0_0 n_90140_0_0 n_90141_0_0 $n_90142_0_0$ n_90143_0_0 n_90144_0_0 n_90145_0_0 n_90146_0_0 n_90147_0_0 n_90148_0_0 n_90149_0_0 n_90150_0_0 n_90152_0_0 n_90154_0_0 n_90155_0_0 n_90156_0_0 n_90157_0_0 n_90158_0_0 n_90161_0_0 n_90163_0_0 n_90166_0_0 n_90167_0_0 n_90168_0_0 n_90169_0_0 n_90171_0_0 n_90172_0_0 n_90174_0_0 n_90175_0_0 n_90176_0_0 n_90177_0_0 n_90179_0_0 n_90180_0_0 n_90181_0_0 $n_90183_0_0$ n_90184_0_0 n_90186_0_0 n_90188_0_0 n_90189_0_0 n_90190_0_0 n_90193_0_0 n_90194_0_0 n_110005_0_0 ts_20135_0_0 ts_20136_0_0 ts_20137_0_0 ts_30002_0_0 ts_30012_0_0

Haemoglobin concentration acquisition time	ts 30022 0 0
Haematocrit acquisition time	ts 30032_0_0
Mean corpuscular volume acquisition time	ts_30042_0_0
Mean corpuscular haemoglobin acquisition time	ts_30052_0_0
Mean corpuscular haemoglobin concentration acquisition time	ts_30062_0_0
Red blood cell (erythrocyte) distribution width acquisition time Platelet count acquisition time	ts_30072_0_0 ts_30082_0_0
Platelet crit acquisition time	ts_30092_0_0
Mean platelet (thrombocyte) volume acquisition time	ts_30102_0_0
Platelet distribution width acquisition time	ts_30112_0_0
Lymphocyte count acquisition time	ts_30122_0_0
Monocyte count acquisition time Neutrophill count acquisition time	ts_30132_0_0
Eosinophill count acquisition time	ts_30142_0_0 ts_30152_0_0
Basophill count acquisition time	ts 30162 0 0
Nucleated red blood cell count acquisition time	ts_30172_0_0
Lymphocyte percentage acquisition time	ts_30182_0_0
Monocyte percentage acquisition time	ts_30192_0_0
Neutrophill percentage acquisition time Eosinophill percentage acquisition time	ts_30202_0_0 ts_30212_0_0
Basophill percentage acquisition time	ts 30222 0 0
Nucleated red blood cell percentage acquisition time	ts_30232_0_0
Reticulocyte count acquisition time	ts_30252_0_0
Mean reticulocyte volume acquisition time	ts_30262_0_0
Mean sphered cell volume acquisition time	ts_30272_0_0
Immature reticulocyte fraction acquisition time High light scatter reticulocyte percentage acquisition time	ts_30282_0_0 ts_30292_0_0
High light scatter reticulocyte count acquisition time	ts_30302_0_0
Start time of wear	ts_90010_0_0
End time of wear	ts_90011_0_0
Typhoid and paratyphoid fevers (ICD-10: A01)	groupA01
Other salmonella infections (ICD-10: A02) Shigellosis (ICD-10: A03)	groupA02 groupA03
Other bacterial intestinal infections (ICD-10: A04)	groupA04
Other bacterial foodborne intoxications, not elsewhere classified (ICD-10: A05)	groupA05
Amoebiasis (ICD-10: A06)	groupA06
Other protozoal intestinal diseases (ICD-10: A07)	groupA07
Viral and other specified intestinal infections (ICD-10: A08) Other gastroenteritis and colitis of infectious and unspecified origin (ICD-10: A09)	groupA08
Respiratory tuberculosis, bacteriologically and histologically confirmed (ICD-10: A15)	groupA09 groupA15
Respiratory tuberculosis, not confirmed bacteriologically or histologically (ICD-10: A16)	groupA16
Tuberculosis of nervous system (ICD-10: A17)	groupA17
Tuberculosis of other organs (ICD-10: A18)	groupA18
Miliary tuberculosis (ICD-10: A19)	groupA19
Plague (ICD-10: A20) Anthrax (ICD-10: A22)	groupA20 groupA22
Erysipeloid (ICD-10: A26)	groupA26
Leptospirosis (ICD-10: A27)	groupA27
Other zoonotic bacterial diseases, not elsewhere classified (ICD-10: A28)	groupA28
Infection due to other mycobacteria (ICD-10: A31)	groupA31
Listeriosis (ICD-10: A32) Diphtheria (ICD-10: A36)	groupA32 groupA36
Whooping cough (ICD-10: A37)	groupA37
Scarlet fever (ICD-10: A38)	groupA38
Meningococcal infection (ICD-10: A39)	groupA39
Streptococcal sepsis (ICD-10: A40)	groupA40
Other sepsis (ICD-10: A41) Actinomycosis (ICD-10: A42)	groupA41 groupA42
Bartonellosis (ICD-10: A44)	groupA42 groupA44
Erysipelas (ICD-10: A46)	groupA46
Other bacterial diseases, not elsewhere classified (ICD-10: A48)	groupA48
Bacterial infection of unspecified site (ICD-10: A49)	groupA49
Early syphilis (ICD-10: A51) Late syphilis (ICD-10: A52)	groupA51
Other and unspecified syphilis (ICD-10: A53)	groupA52 groupA53
Gonococcal infection (ICD-10: A54)	groupA54
Other sexually transmitted chlamydial diseases (ICD-10: A56)	groupA56
Anogenital herpesviral [herpes simplex] infection (ICD-10: A60)	groupA60
Unspecified sexually transmitted disease (ICD-10: A64)	groupA64
Yaws (ICD-10: A66) Pinta [carate] (ICD-10: A67)	groupA66 groupA67
Other spirochaetal infections (ICD-10: A69)	groupA69
Chlamydia psittaci infection (ICD-10: A70)	groupA70
Trachoma (ICD-10: A71)	groupA71
Other diseases caused by chlamydiae (ICD-10: A74)	groupA74
Typhus fever (ICD-10: A75) Spotted fever [tick-borne rickettsioses] (ICD-10: A77)	groupA75 groupA77

Q fever (ICD-10: A78)	groupA78
Acute poliomyelitis (ICD-10: A80)	groupA80
Atypical virus infections of central nervous system (ICD-10: A81)	groupA81
Other viral encephalitis, not elsewhere classified (ICD-10: A85)	groupA85
Unspecified viral encephalitis (ICD-10: A86)	groupA86
Viral meningitis (ICD-10: A87)	groupA87
Unspecified viral infection of central nervous system (ICD-10: A89)	groupA89
Dengue fever [classical dengue] (ICD-10: A90)	groupA90
Other mosquito-borne viral fevers (ICD-10: A92)	groupA92
Other arthropod-borne viral fevers, not elsewhere classified (ICD-10: A93)	groupA93
Unspecified arthropod-borne viral fever (ICD-10: A94) Herpesviral [herpes simplex] infections (ICD-10: B00)	groupA94 groupB00
Varicella [chickenpox] (ICD-10: B01)	groupB00 groupB01
Zoster [herpes zoster] (ICD-10: B02)	groupB02
Rubella [German measles] (ICD-10: B06)	groupB02
Viral warts (ICD-10: B07)	groupB07
Other viral infections characterized by skin and mucous membrane lesions, not elsewhere classified (ICD-10: B08)	groupB08
Unspecified viral infection characterized by skin and mucous membrane lesions (ICD-10: B09)	groupB09
Acute hepatitis A (ICD-10: B15)	groupB15
Acute hepatitis B (ICD-10: B16)	groupB16
Other acute viral hepatitis (ICD-10: B17)	groupB17
Chronic viral hepatitis (ICD-10: B18)	groupB18
Unspecified viral hepatitis (ICD-10: B19)	groupB19
Human immunodeficiency virus [HIV] disease resulting in infectious and parasitic diseases (ICD-10: B20)	groupB20
Human immunodeficiency virus [HIV] disease resulting in malignant neoplasms (ICD-10: B21)	groupB21
Human immunodeficiency virus [HIV] disease resulting in other specified diseases (ICD-10: B22)	groupB22
Human immunodeficiency virus [HIV] disease resulting in other conditions (ICD-10: B23)	groupB23
Unspecified human immunodeficiency virus [HIV] disease (ICD-10: B24)	groupB24
Cytomegaloviral disease (ICD-10: B25)	groupB25
Mumps (ICD-10: B26) Infectious mononucleosis (ICD-10: B27)	groupB26 groupB27
Viral conjunctivitis (ICD-10: B30)	groupB20
Other viral diseases, not elsewhere classified (ICD-10: B33)	groupB33
Viral infection of unspecified site (ICD-10: B34)	groupB34
Other superficial mycoses (ICD-10: B36)	groupB36
Candidiasis (ICD-10: B37)	groupB37
Histoplasmosis (ICD-10: B39)	groupB39
Blastomycosis (ICD-10: B40)	groupB40
Chromomycosis and phaeomycotic abscess (ICD-10: B43)	groupB43
Aspergillosis (ICD-10: B44)	groupB44
Cryptococcosis (ICD-10: B45)	groupB45
Mycetoma (ICD-10: B47)	groupB47
Other mycoses, not elsewhere classified (ICD-10: B48)	groupB48
Unspecified mycosis (ICD-10: B49)	groupB49
Plasmodium falciparum malaria (ICD-10: B50)	groupB50
Plasmodium vivax malaria (ICD-10: B51)	groupB51
Plasmodium malariae malaria (ICD-10: B52) Other parasitologically confirmed malaria (ICD-10: B53)	groupB52 groupB53
Unspecified malaria (ICD-10: B54)	groupB55
Leishmaniasis (ICD-10: B55)	groupB55
Chagas disease (ICD-10: B57)	groupB55
Toxoplasmosis (ICD-10: B58)	groupB58
Pneumocystosis (ICD-10: B59)	groupB59
Other protozoal diseases, not elsewhere classified (ICD-10: B60)	groupB60
Schistosomiasis [bilharziasis] (ICD-10: B65)	groupB65
Other fluke infections (ICD-10: B66)	groupB66
Echinococcosis (ICD-10: B67)	groupB67
Hookworm diseases (ICD-10: B76)	groupB76
Strongyloidiasis (ICD-10: B78)	groupB78
Enterobiasis (ICD-10: B80)	groupB80
Other intestinal helminthiases, not elsewhere classified (ICD-10: B81)	groupB81
Unspecified intestinal parasitism (ICD-10: B82)	groupB82
Other helminthiases (ICD-10: B83) Pediculosis and phthiriasis (ICD-10: B85)	groupB83
Scabies (ICD-10: B86)	groupB85 groupB86
Myiasis (ICD-10: B87)	groupB80 groupB87
Other infestations (ICD-10: B88)	groupB88
Sequelae of tuberculosis (ICD-10: B90)	groupB90
Sequelae of poliomyelitis (ICD-10: B91)	groupB90 groupB91
Sequelae of other and unspecified infectious and parasitic diseases (ICD-10: B94)	groupB94
Streptococcus and staphylococcus as the cause of diseases classified to other chapters (ICD-10: B95)	groupB95
Other specified bacterial agents as the cause of diseases classified to other chapters (ICD-10: B96)	groupB96
Viral agents as the cause of diseases classified to other chapters (ICD-10: B97)	groupB97
Other specified infectious agents as the cause of diseases classified to other chapters (ICD-10: B98)	groupB98
Other and unspecified infectious diseases (ICD-10: B99)	groupB99
Malignant neoplasm of lip (ICD-10: C00)	groupC00
Malignant neoplasm of base of tongue (ICD-10: C01)	groupC01

Melianation of the end war sifed and strange (ICD 10, CO2)	
Malignant neoplasm of other and unspecified parts of tongue (ICD-10: C02) Malignant neoplasm of gum (ICD-10: C03)	groupC02 groupC03
Malignant neoplasm of floor of mouth (ICD-10: C04)	groupC03
Malignant neoplasm of palate (ICD-10: C05)	groupC05
Malignant neoplasm of other and unspecified parts of mouth (ICD-10: C06)	groupC06
Malignant neoplasm of parotid gland (ICD-10: C07)	groupC07
Malignant neoplasm of other and unspecified major salivary glands (ICD-10: C08)	groupC08
Malignant neoplasm of tonsil (ICD-10: C09)	groupC09
Malignant neoplasm of oropharynx (ICD-10: C10) Malignant neoplasm of nasopharynx (ICD-10: C11)	groupC10 groupC11
Malignant neoplasm of piriform sinus (ICD-10: C12)	groupC12
Malignant neoplasm of hypopharynx (ICD-10: C13)	groupC13
Malignant neoplasm of other and ill-defined sites in the lip, oral cavity and pharynx (ICD-10: C14)	groupC14
Malignant neoplasm of oesophagus (ICD-10: C15)	groupC15
Malignant neoplasm of stomach (ICD-10: C16)	groupC16
Malignant neoplasm of small intestine (ICD-10: C17)	groupC17
Malignant neoplasm of colon (ICD-10: C18) Malignant neoplasm of rectosigmoid junction (ICD-10: C19)	groupC18 groupC19
Malignant neoplasm of rectum (ICD-10: C20)	groupC19 groupC20
Malignant neoplasm of neural (ICD-10: C20) Malignant neoplasm of anus and anal canal (ICD-10: C21)	groupC21
Malignant neoplasm of gallbladder (ICD-10: C23)	groupC23
Malignant neoplasm of other and unspecified parts of biliary tract (ICD-10: C24)	groupC24
Malignant neoplasm of pancreas (ICD-10: C25)	groupC25
Malignant neoplasm of other and ill-defined digestive organs (ICD-10: C26)	groupC26
Malignant neoplasm of nasal cavity and middle ear (ICD-10: C30)	groupC30
Malignant neoplasm of accessory sinuses (ICD-10: C31) Malignant neoplasm of larynx (ICD-10: C32)	groupC31 groupC32
Malignant neoplasm of trachea (ICD-10: C32) Malignant neoplasm of trachea (ICD-10: C33)	groupC32 groupC33
Malignant neoplasm of tradition (ICD-10: C34) Malignant neoplasm of bronchus and lung (ICD-10: C34)	groupC34
Malignant neoplasm of thymus (ICD-10: C37)	groupC37
Malignant neoplasm of heart, mediastinum and pleura (ICD-10: C38)	groupC38
Malignant neoplasm of other and ill-defined sites in the respiratory system and intrathoracic organs (ICD-10: C39)	groupC39
Malignant neoplasm of bone and articular cartilage of limbs (ICD-10: C40)	groupC40
Malignant neoplasm of bone and articular cartilage of other and unspecified sites (ICD-10: C41)	groupC41
Malignant melanoma of skin (ICD-10: C43) Other malignant neoplasms of skin (ICD-10: C44)	groupC43 groupC44
Mesothelioma (ICD-10: C45)	groupC45
Kaposi sarcoma (ICD-10: C46)	groupC46
Malignant neoplasm of peripheral nerves and autonomic nervous system (ICD-10: C47)	groupC47
Malignant neoplasm of retroperitoneum and peritoneum (ICD-10: C48)	groupC48
Malignant neoplasm of other connective and soft tissue (ICD-10: C49)	groupC49
Malignant neoplasm of breast (ICD-10: C50)	groupC50
Malignant neoplasm of vulva (ICD-10: C51) Malignant neoplasm of vagina (ICD-10: C52)	groupC51 groupC52
Malignant neoplasm of vagina (ICD-10: C52) Malignant neoplasm of cervix uteri (ICD-10: C53)	groupC52
Malignant neoplasm of corpus uteri (ICD-10: C54)	groupC54
Malignant neoplasm of uterus, part unspecified (ICD-10: C55)	groupC55
Malignant neoplasm of ovary (ICD-10: C56)	groupC56
Malignant neoplasm of other and unspecified female genital organs (ICD-10: C57)	groupC57
Malignant neoplasm of placenta (ICD-10: C58)	groupC58
Malignant neoplasm of penis (ICD-10: C60) Malignant neoplasm of prostate (ICD-10: C61)	groupC60
Malignant neoplasm of testis (ICD-10: C61) Malignant neoplasm of testis (ICD-10: C62)	groupC61 groupC62
Malignant neoplasm of other and unspecified male genital organs (ICD-10: C63)	groupC63
Malignant neoplasm of kidney, except renal pelvis (ICD-10: C64)	groupC64
Malignant neoplasm of renal pelvis (ICD-10: C65)	groupC65
Malignant neoplasm of ureter (ICD-10: C66)	groupC66
Malignant neoplasm of bladder (ICD-10: C67)	groupC67
Malignant neoplasm of other and unspecified urinary organs (ICD-10: C68) Malignant neoplasm of eye and adnexa (ICD-10: C69)	groupC68 groupC69
Malignant neoplasm of meninges (ICD-10: C09)	groupC09 groupC70
Malignant neoplasm of having (ICD-10: C71)	groupC71
Malignant neoplasm of spinal cord, cranial nerves and other parts of central nervous system (ICD-10: C72)	groupC72
Malignant neoplasm of thyroid gland (ICD-10: C73)	groupC73
Malignant neoplasm of adrenal gland (ICD-10: C74)	groupC74
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Open wound of forearm (ICD-10: S51)	groupS50 groupS51
Fracture of forearm (ICD-10: S52)	groupS52
Dislocation, sprain and strain of joints and ligaments of elbow (ICD-10: S53)	groupS53
Injury of nerves at forearm level (ICD-10: S54)	groupS54
Injury of blood vessels at forearm level (ICD-10: S55)	groupS55
Injury of muscle and tendon at forearm level (ICD-10: S56)	groupS56
Crushing injury of forearm (ICD-10: S57)	groupS57
Traumatic amputation of forearm (ICD-10: S58)	groupS58
Other and unspecified injuries of forearm (ICD-10: S59)	groupS59
Superficial injury of wrist and hand (ICD-10: S60)	groupS60
Open wound of wrist and hand (ICD-10: S61)	groupS61
Fracture at wrist and hand level (ICD-10: S62)	groupS62
Dislocation, sprain and strain of joints and ligaments at wrist and hand level (ICD-10: S63)	groupS63
Injury of nerves at wrist and hand level (ICD-10: S64)	groupS64
Injury of blood vessels at wrist and hand level (ICD-10: S65)	groupS65
Injury of muscle and tendon at wrist and hand level (ICD-10: S66)	groupS66
Crushing injury of wrist and hand (ICD-10: S67)	groupS67
Traumatic amputation of wrist and hand (ICD-10: S68)	groupS68
Superficial injury of hip and thigh (ICD-10: S70)	groupS70
Open wound of hip and thigh (ICD-10: S71)	groupS71
Fracture of femur (ICD-10: S72)	groupS72
Dislocation, sprain and strain of joint and ligaments of hip (ICD-10: S73)	groupS73
Injury of nerves at hip and thigh level (ICD-10: S74)	groupS74
Injury of blood vessels at hip and thigh level (ICD-10: S75)	groupS75
Injury of muscle and tendon at hip and thigh level (ICD-10: S76)	groupS76
Other and specified injuries of hip and thigh (ICD-10: S79)	groupS79
Superficial injury of lower leg (ICD-10: S80)	groupS80
Open wound of lower leg (ICD-10: S81)	groupS81
Fracture of lower leg, including ankle (ICD-10: S82)	groupS82
Dislocation, sprain and strain of joints and ligaments of knee (ICD-10: S83)	groupS83
Injury of nerves at lower leg level (ICD-10: S84)	groupS84
Injury of blood vessels at lower leg level (ICD-10: S85)	groupS85
Injury of muscle and tendon at lower leg level (ICD-10: S86)	groupS86
Crushing injury of lower leg (ICD-10: S87)	groupS87
Traumatic amputation of lower leg (ICD-10: S88)	groupS88
Other and unspecified injuries of lower leg (ICD-10: S89)	groupS89
Superficial injury of ankle and foot (ICD-10: S90)	groupS90
Open wound of ankle and foot (ICD-10: S91)	groupS91
Fracture of foot, except ankle (ICD-10: S92)	groupS92
Injury of nerves at ankle and foot level (ICD-10: S94)	groupS94
Injury of blood vessels at ankle and foot level (ICD-10: S95)	groupS95
Injury of muscle and tendon at ankle and foot level (ICD-10: S96)	groupS96
Crushing injury of ankle and foot (ICD-10: S97)	groupS97
Traumatic amputation of ankle and foot (ICD-10: S98)	groupS98
Other and unspecified injuries of ankle and foot (ICD-10: S99)	groupS99
Superficial injuries involving multiple body regions (ICD-10: T00)	groupT00
Open wounds involving multiple body regions (ICD-10: T01)	groupT01
Fractures involving multiple body regions (ICD-10: T02) Dislocations, sprains and strains involving multiple body regions (ICD-10: T03)	groupT02
Crushing injuries involving multiple body regions (ICD-10: T03)	groupT03 groupT04
Traumatic amputations involving multiple body regions (ICD-10: T05)	groupT04 groupT05
Other injuries involving multiple body regions, not elsewhere classified (ICD-10: T06)	groupT05
Unspecified multiple injuries (ICD-10: T07)	groupT00 groupT07
Fracture of spine, level unspecified (ICD-10: T08)	groupT07 groupT08
Other injuries of spine and trunk, level unspecified (ICD-10: T09)	group 108 group T09
Fracture of upper limb, level unspecified (ICD-10: T09)	groupT09
Other injuries of upper limb, level unspecified (ICD-10: T11)	groupT10 groupT11
Fracture of lower limb, level unspecified (ICD-10: T12)	groupT12
Other injuries of lower limb, level unspecified (ICD-10: T13)	groupT12 groupT13
Foreign body on external eye (ICD-10: T15)	groupT15
Foreign body in ear (ICD-10: T16)	groupT16
Foreign body in respiratory tract (ICD-10: T17)	groupT17
Foreign body in genitourinary tract (ICD-10: T19)	groupT19
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Burn and corrosion of head and neck (ICD-10: T20)	groupT20
Burn and corrosion of trunk (ICD-10: T21) Burn and corrosion of shoulder and upper limb, except wrist and hand (ICD-10: T22)	groupT21 groupT22
Burn and corrosion of wrist and hand (ICD-10: T23)	groupT23
Burn and corrosion of hip and lower limb, except ankle and foot (ICD-10: T24)	groupT24
Burn and corrosion of ankle and foot (ICD-10: T25)	groupT25
Burn and corrosion confined to eye and adnexa (ICD-10: T26)	groupT26
Burn and corrosion of respiratory tract (ICD-10: T27)	groupT27
Burn and corrosion of other internal organs (ICD-10: T28)	groupT28
Burns and corrosions of multiple body regions (ICD-10: T29)	groupT29
Burn and corrosion, body region unspecified (ICD-10: T30)	groupT30
Burns classified according to extent of body surface involved (ICD-10: T31)	groupT31
Corrosions classified according to extent of body surface involved (ICD-10: T32)	groupT32
Superficial frostbite (ICD-10: T33)	groupT33
Frostbite with tissue necrosis (ICD-10: T34) Frostbite involving multiple body regions and unspecified frostbite (ICD-10: T35)	groupT34 groupT35
Poisoning by systemic antibiotics (ICD-10: T36)	groupT36
Poisoning by other systemic anti-infectives and antiparasitics (ICD-10: T37)	groupT37
Poisoning by hormones and their synthetic substitutes and antagonists, not elsewhere classified (ICD-10: T38)	groupT38
Poisoning by nonopioid analgesics, antipyretics and antirheumatics (ICD-10: T39)	groupT39
Poisoning by narcotics and psychodysleptics [hallucinogens] (ICD-10: T40)	groupT40
Poisoning by anaesthetics and therapeutic gases (ICD-10: T41)	groupT41
Poisoning by antiepileptic, sedative-hypnotic and antiparkinsonism drugs (ICD-10: T42)	groupT42
Poisoning by psychotropic drugs, not elsewhere classified (ICD-10: T43)	groupT43
Poisoning by drugs primarily affecting the autonomic nervous system (ICD-10: T44)	groupT44
Poisoning by primarily systemic and haematological agents, not elsewhere classified (ICD-10: T45)	groupT45
Poisoning by agents primarily affecting the cardiovascular system (ICD-10: T46)	groupT46
Poisoning by agents primarily affecting the gastrointestinal system (ICD-10: T47) Poisoning by agents primarily acting on smooth and skeletal muscles and the respiratory system (ICD-10: T48)	groupT47 groupT48
Poisoning by topical agents primarily affecting skin and mucous membrane and by ophthalmological, otorhinolaryng	
Poisoning by directics and other and unspecified drugs, medicaments and biological substances (ICD-10: T50)	groupT50
Toxic effect of alcohol (ICD-10: T51)	groupT51
Toxic effect of organic solvents (ICD-10: T52)	groupT52
Toxic effect of halogen derivatives of aliphatic and aromatic hydrocarbons (ICD-10: T53)	groupT53
Toxic effect of corrosive substances (ICD-10: T54)	groupT54
Toxic effect of soaps and detergents (ICD-10: T55)	groupT55
Toxic effect of metals (ICD-10: T56)	groupT56
Toxic effect of other inorganic substances (ICD-10: T57)	groupT57
Toxic effect of carbon monoxide (ICD-10: T58)	groupT58
Toxic effect of other gases, fumes and vapours (ICD-10: T59) Toxic effect of pesticides (ICD-10: T60)	groupT59 groupT60
Toxic effect of noxious substances eaten as seafood (ICD-10: T61)	groupT61
Toxic effect of other noxious substances eaten as food (ICD-10: F01)	groupT62
Toxic effect of contact with venomous animals (ICD-10: T63)	groupT63
Toxic effect of other and unspecified substances (ICD-10: T65)	groupT65
Unspecified effects of radiation (ICD-10: T66)	groupT66
Effects of heat and light (ICD-10: T67)	groupT67
Hypothermia (ICD-10: T68)	groupT68
Other effects of reduced temperature (ICD-10: T69)	groupT69
Effects of air pressure and water pressure (ICD-10: T70)	groupT70
Asphyxiation (ICD-10: T71)	groupT71
Effects of other deprivation (ICD-10: T73)	groupT73
Maltreatment syndromes (ICD-10: T74) Effects of other external causes (ICD-10: T75)	groupT74 groupT75
Adverse effects, not elsewhere classified (ICD-10: T78)	groupT78
Certain early complications of trauma, not elsewhere classified (ICD-10: T79)	groupT79
Complications following infusion, transfusion and therapeutic injection (ICD-10: T80)	groupT80
Complications of cardiac and vascular prosthetic devices, implants and grafts (ICD-10: T82)	groupT82
Complications of genitourinary prosthetic devices, implants and grafts (ICD-10: T83)	groupT83
Complications of internal orthopaedic prosthetic devices, implants and grafts (ICD-10: T84)	groupT84
Complications of other internal prosthetic devices, implants and grafts (ICD-10: T85)	groupT85
Failure and rejection of transplanted organs and tissues (ICD-10: T86)	groupT86
Complications peculiar to reattachment and amputation (ICD-10: T87)	groupT87
Other complications of surgical and medical care, not elsewhere classified (ICD-10: T88)	groupT88
Sequelae of injuries of head (ICD-10: T90) Sequelae of injuries of neck and trunk (ICD-10: T91)	groupT90
Sequelae of injuries of upper limb (ICD-10: 191) Sequelae of injuries of upper limb (ICD-10: T92)	groupT91 groupT92
Sequelae of injuries of lower limb (ICD-10: T92) Sequelae of injuries of lower limb (ICD-10: T93)	groupT92 groupT93
Sequelae of injuries involving multiple and unspecified body regions (ICD-10: T94)	groupT94
Sequelae of burns, corrosions and frostbite (ICD-10: T95)	groupT95
Sequelae of poisoning by drugs, medicaments and biological substances (ICD-10: T96)	groupT96
Sequelae of toxic effects of substances chiefly nonmedicinal as to source (ICD-10: T97)	groupT97
Sequelae of other and unspecified effects of external causes (ICD-10: T98)	groupT98
Pedestrian injured in collision with pedal cycle (ICD-10: V01)	groupV01
Pedestrian injured in collision with two- or three-wheeled motor vehicle (ICD-10: V02)	groupV02
Pedestrian injured in collision with car, pick-up truck or van (ICD-10: V03)	groupV03
Pedestrian injured in collision with heavy transport vehicle or bus (ICD-10: V04)	groupV04

Pedestrian injured in collision with railway train or railway vehicle (ICD-10: V05)	groupV05
Pedestrian injured in collision with other nonmotor vehicle (ICD-10: V06)	groupV06
Pedestrian injured in other and unspecified transport accidents (ICD-10: V09)	groupV09
Pedal cyclist injured in collision with pedestrian or animal (ICD-10: V10)	groupV10
Pedal cyclist injured in collision with other pedal cycle (ICD-10: V11)	groupV11
Pedal cyclist injured in collision with two- or three-wheeled motor vehicle (ICD-10: V12)	groupV12
Pedal cyclist injured in collision with car, pick-up truck or van (ICD-10: V13)	groupV13
Pedal cyclist injured in collision with heavy transport vehicle or bus (ICD-10: V14)	groupV14
Pedal cyclist injured in collision with railway train or railway vehicle (ICD-10: V15)	groupV15
Pedal cyclist injured in collision with other nonmotor vehicle (ICD-10: V16)	groupV16 groupV17
Pedal cyclist injured in collision with fixed or stationary object (ICD-10: V17) Pedal cyclist injured in noncollision transport accident (ICD-10: V18)	groupV17 groupV18
Pedal cyclist injured in other and unspecified transport accidents (ICD-10: V19)	groupV19
Motorcycle rider injured in collision with pedestrian or animal (ICD-10: V20)	groupV20
Motorcycle rider injured in collision with pedal cycle (ICD-10: V21)	groupV21
Motorcycle rider injured in collision with two- or three-wheeled motor vehicle (ICD-10: V22)	groupV22
Motorcycle rider injured in collision with car, pick-up truck or van (ICD-10: V23)	groupV23
Motorcycle rider injured in collision with heavy transport vehicle or bus (ICD-10: V24)	groupV24
Motorcycle rider injured in collision with other nonmotor vehicle (ICD-10: V26)	groupV26
Motorcycle rider injured in collision with fixed or stationary object (ICD-10: V27)	groupV27
Motorcycle rider injured in noncollision transport accident (ICD-10: V28)	groupV28
Motorcycle rider injured in other and unspecified transport accidents (ICD-10: V29)	groupV29
Occupant of three-wheeled motor vehicle injured in collision with pedal cycle (ICD-10: V31)	groupV31
Occupant of three-wheeled motor vehicle injured in collision with car, pick-up truck or van (ICD-10: V33)	groupV33
Occupant of three-wheeled motor vehicle injured in collision with railway train or railway vehicle (ICD-10: V35)	groupV35
Occupant of three-wheeled motor vehicle injured in collision with fixed or stationary object (ICD-10: V37)	groupV37
Occupant of three-wheeled motor vehicle injured in noncollision transport accident (ICD-10: V38)	groupV38
Occupant of three-wheeled motor vehicle injured in other and unspecified transport accidents (ICD-10: V39)	groupV39
Car occupant injured in collision with pedestrian or animal (ICD-10: V40)	groupV40
Car occupant injured in collision with pedal cycle (ICD-10: V41)	groupV41
Car occupant injured in collision with two- or three-wheeled motor vehicle (ICD-10: V42)	groupV42
Car occupant injured in collision with car, pick-up truck or van (ICD-10: V43)	groupV43
Car occupant injured in collision with heavy transport vehicle or bus (ICD-10: V44)	groupV44
Car occupant injured in collision with railway train or railway vehicle (ICD-10: V45)	groupV45
Car occupant injured in collision with other nonmotor vehicle (ICD-10: V46)	groupV46
Car occupant injured in collision with fixed or stationary object (ICD-10: V47)	groupV47
Car occupant injured in noncollision transport accident (ICD-10: V48) Occupant of pick-up truck or van injured in collision with car, pick-up truck or van (ICD-10: V53)	groupV48
Occupant of pick-up truck of van injured in collision with eary pick-up truck of van (iCD-10: v53) Occupant of pick-up truck or van injured in collision with heavy transport vehicle or bus (ICD-10: v54)	groupV53 groupV54
Occupant of pick-up truck of van injured in collision with railway train or railway vehicle (ICD-10: V55)	groupV54 groupV55
Occupant of pick-up truck or van injured in collision with fixed or stationary object (ICD-10: V57)	groupV57
Occupant of pick-up truck or van injured in noncollision transport accident (ICD-10: V57)	groupV58
Occupant of pick-up truck or van injured in other and unspecified transport accidents (ICD-10: V59)	groupV59
Occupant of heavy transport vehicle injured in collision with car, pick-up truck or van (ICD-10: V63)	groupV63
Occupant of heavy transport vehicle injured in collision with heavy transport vehicle or bus (ICD-10: V64)	groupV64
Occupant of heavy transport vehicle injured in collision with railway train or railway vehicle (ICD-10: V65)	groupV65
Occupant of heavy transport vehicle injured in noncollision transport accident (ICD-10: V68)	groupV68
Occupant of heavy transport vehicle injured in other and unspecified transport accidents (ICD-10: V69)	groupV69
Bus occupant injured in collision with pedestrian or animal (ICD-10: V70)	groupV70
Bus occupant injured in collision with car, pick-up truck or van (ICD-10: V73)	groupV73
Bus occupant injured in collision with heavy transport vehicle or bus (ICD-10: V74)	groupV74
Bus occupant injured in collision with other nonmotor vehicle (ICD-10: V76)	groupV76
Bus occupant injured in collision with fixed or stationary object (ICD-10: V77)	groupV77
Bus occupant injured in noncollision transport accident (ICD-10: V78)	groupV78
Bus occupant injured in other and unspecified transport accidents (ICD-10: V79)	groupV79
Animal-rider or occupant of animal-drawn vehicle injured in transport accident (ICD-10: V80)	groupV80
Occupant of railway train or railway vehicle injured in transport accident (ICD-10: V81)	groupV81
Occupant of streetcar injured in transport accident (ICD-10: V82)	groupV82
Occupant of special vehicle mainly used on industrial premises injured in transport accident (ICD-10: V83) Occupant of special vehicle mainly used in agriculture injured in transport accident (ICD-10: V84)	groupV83
Occupant of special ventice mainly used in agriculture injured in transport accident (ICD-10: V84) Occupant of special construction vehicle injured in transport accident (ICD-10: V85)	groupV84 groupV85
Occupant of special all-terrain or other motor vehicle designed primarily for off-road use, injured in transport accident (ICI	• •
Traffic accident of specified type but victim's mode of transport unknown (ICD-10: V87)	groupV80 groupV87
Nontraffic accident of specified type but victim's mode of transport unknown (ICD-10: V88)	groupV88
Motor- or nonmotor-vehicle accident, type of vehicle unspecified (ICD-10: V89)	groupV89
Accident to watercraft causing drowning and submersion (ICD-10: V90)	groupV90
Accident to watercraft causing other injury (ICD-10: V91)	groupV91
Water-transport-related drowning and submersion without accident to watercraft (ICD-10: V92)	groupV92
Accident on board watercraft without accident to watercraft, not causing drowning and submersion (ICD-10: V93)	groupV93
Other and unspecified water transport accidents (ICD-10: V94)	groupV94
Accident to powered aircraft causing injury to occupant (ICD-10: V95)	groupV95
Accident to nonpowered aircraft causing injury to occupant (ICD-10: V96)	groupV96
Other specified air transport accidents (ICD-10: V97)	groupV97
Other specified transport accidents (ICD-10: V98)	groupV98
Unspecified transport accident (ICD-10: V99)	groupV99
Fall on and from stairs and steps (ICD-10: W10)	groupW10
Fall from cliff (ICD-10: W15)	groupW15

Other fall on same level (ICD-10: W18)	groupW18
Unspecified fall (ICD-10: W19) Foreign body or object entering through skin (ICD-10: W45)	groupW19
Inhalation and ingestion of food causing obstruction of respiratory tract (ICD-10: W79)	groupW45 groupW79
Exposure to uncontrolled fire in building or structure (ICD-10: X00)	groupX00
Exposure to excessive natural cold (ICD-10: X31)	groupX31
Accidental poisoning by and exposure to alcohol (ICD-10: X45)	groupX45
Exposure to unspecified factor (ICD-10: X59)	groupX59
Intentional self-poisoning by and exposure to narcotics and psychodysleptics [hallucinogens], not elsewhere classified (IC	CD-groupX62
Intentional self-poisoning by and exposure to other gases and vapours (ICD-10: X67)	groupX67
Intentional self-harm by hanging, strangulation and suffocation (ICD-10: X70)	groupX70
(intentional self-harm by rifle, shotgun and larger firearm discharge (ICD-10: X73)	groupX73
intentional self-harm by jumping from a high place (ICD-10: X80) Assault by sharp object (ICD-10: X99)	groupX80 groupX99
Neglect and abandonment (ICD-10: Y06)	groupX99 groupY06
Other maltreatment (ICD-10: Y07)	groupY07
Poisoning by and exposure to nonopioid analgesics, antipyretics and antirheumatics, undetermined intent (ICD-10: Y10)	groupY10
Poisoning by and exposure to narcotics and psychodysleptics [hallucinogens], not elsewhere classified, undetermined inte	nt groupY12
Poisoning by and exposure to other and unspecified drugs, medicaments and biological substances, undetermined intent (I	ICIgroupY14
Drowning and submersion, undetermined intent (ICD-10: Y21)	groupY21
Calling, jumping or pushed from a high place, undetermined intent (ICD-10: Y30)	groupY30
Jnspecified event, undetermined intent (ICD-10: Y34)	groupY34
Legal intervention (ICD-10: Y35)	groupY35
Deperations of war (ICD-10: Y36)	groupY36
Systemic antibiotics (ICD-10: Y40) Dther systemic anti-infectives and antiparasitics (ICD-10: Y41)	groupY40 groupY41
Hormones and their synthetic substitutes and antagonists, not elsewhere classified (ICD-10: Y42)	groupY42
Agents primarily affecting blood constituents (ICD-10: Y44)	groupY44
Analgesics, antipyretics and anti-inflammatory drugs (ICD-10: Y45)	groupY45
Antiepileptics and antiparkinsonism drugs (ICD-10: Y46)	groupY46
Sedatives, hypnotics and antianxiety drugs (ICD-10: Y47)	groupY47
Anaesthetics and therapeutic gases (ICD-10: Y48)	groupY48
Psychotropic drugs, not elsewhere classified (ICD-10: Y49)	groupY49
Central nervous system stimulants, not elsewhere classified (ICD-10: Y50)	groupY50
Drugs primarily affecting the autonomic nervous system (ICD-10: Y51)	groupY51
Agents primarily affecting the cardiovascular system (ICD-10: Y52)	groupY52
Agents primarily affecting the gastrointestinal system (ICD-10: Y53) Agents primarily affecting water-balance and mineral and uric acid metabolism (ICD-10: Y54)	groupY53
Agents primarily acting on smooth and skeletal muscles and the respiratory system (ICD-10: Y55)	groupY54 groupY55
Topical agents primarily affecting skin and mucous membrane and ophthalmological, otorhinolaryngological and dental d	e 1
Other and unspecified drugs and medicaments (ICD-10: Y57)	groupY57
Bacterial vaccines (ICD-10: Y58)	groupY58
Other and unspecified vaccines and biological substances (ICD-10: Y59)	groupY59
Unintentional cut, puncture, perforation or haemorrhage during surgical and medical care (ICD-10: Y60)	groupY60
Foreign object accidentally left in body during surgical and medical care (ICD-10: Y61)	groupY61
Failure in dosage during surgical and medical care (ICD-10: Y63)	groupY63
Other misadventures during surgical and medical care (ICD-10: Y65)	groupY65
Nonadministration of surgical and medical care (ICD-10: Y66)	groupY66
Unspecified misadventure during surgical and medical care (ICD-10: Y69)	groupY69
Anaesthesiology devices associated with adverse incidents (ICD-10: Y70)	groupY70
Cardiovascular devices associated with adverse incidents (ICD-10: Y71) Otorhinolaryngological devices associated with adverse incidents (ICD-10: Y72)	groupY71 groupY72
Gastroenterology and urology devices associated with adverse incidents (ICD-10: 172)	groupY73
General hospital and personal-use devices associated with adverse incidents (ICD-10: Y74)	groupY74
Neurological devices associated with adverse incidents (ICD-10: Y75)	groupY75
Obstetric and gynaecological devices associated with adverse incidents (ICD-10: Y76)	groupY76
Dphthalmic devices associated with adverse incidents (ICD-10: Y77)	groupY77
Radiological devices associated with adverse incidents (ICD-10: Y78)	groupY78
Orthopaedic devices associated with adverse incidents (ICD-10: Y79)	groupY79
Physical medicine devices associated with adverse incidents (ICD-10: Y80)	groupY80
General- and plastic-surgery devices associated with adverse incidents (ICD-10: Y81)	groupY81
Other and unspecified medical devices associated with adverse incidents (ICD-10: Y82)	groupY82
Sequelae of transport accidents (ICD-10: Y85)	groupY85
Sequelae of other accidents (ICD-10: Y86) Sequelae of intentional self-harm, assault and events of undetermined intent (ICD-10: Y87)	groupY86 groupY87
Sequelae with surgical and medical care as external cause (ICD-10: Y88)	group Y 87 group Y 88
Sequelae of other external causes (ICD-10: Y89)	group Y89
Evidence of alcohol involvement determined by blood alcohol level (ICD-10: Y90)	groupY90
Evidence of alcohol involvement determined by level of intoxication (ICD-10: Y91)	groupY91
Nosocomial condition (ICD-10: Y95)	groupY95
Work-related condition (ICD-10: Y96)	groupY96
Environmental-pollution-related condition (ICD-10: Y97)	groupY97
op_peripheral_nerve	op_peripheral_ne
	op_spinal_root
op_pituitary	op_pituitary
op_spinal_root op_pituitary op_thyroid op_parathyroid	

op_adrenal op_lens op_retina op_lung op_appendix op_colorectal op_liver op_gall_bladder op_pancreas op_cabg op_pci op_pacemaker op_aorta op_carotid_artery op_cerebral_artery $op_femoral_artery$ op_kidney op_extracorporal_kidney_stone op_bladder op_prostate op_uterus_adnexa op_knee_replacement

op_adrenal op_lens op_retina op_lung op_appendix op_colorectal op_liver op_gall_bladder op_pancreas op_cabg op_pci op_pacemaker op_aorta op_carotid_artery op_cerebral_artery op_femoral_artery op_kidney op_extracorporal_kidney_stone op_bladder op_prostate op_uterus_adnexa op_knee_replacement

Supplemental Table 2. Variable importance of the top 200 variables in the GBM model for varicose veins.

ariable	Importanc
Age deep-vein thrombosis diagnosed	127.66
Impedance of leg (left)	83.49
Had other major operations	62.33
Surgery on leg arteries	54.57
Standing height	47.72
Ulcer of lower limb, not elsewhere classified (ICD-10: M79)	39.51
Age at first live birth	36.04
Impedance of leg (right)	33.00
Other soft tissue disorders, not elsewhere classified	24.86
Birth weight of first child	22.59
Cellulitis (ICD-10: L03)	21.58
Age completed full time education	20.10
Place of birth in UK - north co-ordinate	19.96
Impedance of arm (left)	17.28
Other peripheral vascular diseases (ICD-10: 173)	15.85
Comparative height size at age 10	15.79
Job code	11.80
Impedance of arm (right)	11.40
Female genital prolapse (ICD-10: N81)	11.20
Number of days/week walked 10+ minutes	11.15
Age started wearing glasses or contact lenses	10.55
Age at recruitment	10.43
Trunk fat percentage	9.49
Had major operations	9.25
Venous complications in the puerperium (ICD-10: O88)	9.17
Other dermatitis (ICD-10: L30)	9.07
Leg fat percentage (left)	8.98
Average total household income before tax	8.42
Number of live births	8.24
Age diabetes diagnosed	8.16
Age started hormone-replacement therapy (HRT)	7.97
Red blood cell (erythrocyte) distribution width	7.54
Place of birth in UK - east co-ordinate	7.48
Platelet distribution width	7.42
Duration of moderate activity	7.06
Leg fat percentage (right)	6.91
Spherical power (left)	6.81
Other arthritis (ICD-10: M13)	6.78
Age at last live birth	6.77
Interpolated Age of participant when non-cancer illness first diagnosed	6.45
Age when last used oral contraceptive pill	6.43
Intra-ocular pressure, Goldmann-correlated (left)	6.35
Neuroticism score	6.20
Neurophill percentage	5.98
6mm asymmetry angle (right)	5.98
Platelet crit	5.87 5.85
White blood cell (leukocyte) count	
Ankle spacing width	5.68
Mean time to correctly identify matches	5.67
Polyarthrosis (ICD-10: M15)	5.53
6mm asymmetry index (right)	5.50
Acquired deformities of fingers and toes (ICD-10: M20)	5.38
Inguinal hernia (ICD-10: K40)	5.38
Time spent using computer	5.36
Ankle spacing width (left)	5.36
Forced vital capacity (FVC)	5.28
UK Biobank assessment centre	5.10
Immature reticulocyte fraction	5.08
Birth weight	4.96
Weight	4.86
Corneal hysteresis (right)	4.81
Red blood cell (erythrocyte) count	4.78
Refractometry result unreliable (right)	4.67
Forced vital capacity (FVC), Best measure	4.60
Frequency of walking for pleasure in last 4 weeks	4.55
Internal derangement of knee (ICD-10: M23)	4.44
Monocyte percentage	4.41
Age last used hormone-replacement therapy (HRT)	4.31
Hip circumference	4.15
6mm weak meridian (right)	4.12
Reason for reducing amount of alcohol drunk	4.12
Platelet count	4.02
Cereal intake	4.02
Alcohol intake frequency.	3.86

76 1	ntra-ocular pressure, corneal-compensated (left)	3.68
	Diastolic blood pressure, manual reading	3.65
	Vitigo (ICD-10: L80)	3.65
	Calibration coefficients - y offset	3.63
	Time when initial screen shown	3.61
	Duration screen displayed	3.59
	systelic blood pressure, automated reading	3.57
	Arm fat percentage (right)	3.56
	p skin lesion	3.53
	production restore a second (FEV1), predicted percentage	3.50
	raction acceleration <= 9 milli-gravities	3.46
	ge asthma diagnosed	3.45
	ther disorders of skin and subcutaneous tissue	3.44
	Congenital malformations of cardiac septa (ICD-10: Q21)	3.42
	verage acceleration 13:00 - 13:59	3.41
	Age started oral contraceptive pill	3.41
	mm weak meridian (right)	3.41
	verage acceleration 07:00 - 07:59	3.40
	pherical power (right)	3.39
	perch-reception-threshold (SRT) estimate (right)	3.34
	Benign neoplasm of eye and adnexa (ICD-10: D31)	3.27
	read type	3.26
	Reason for reducing amount of alcohol drunk (pilot	3.24
	eg fat-free mass (right)	3.17
	Mineral and other dietary supplements	3.16
	Age COPD (Chronic Obstructive Pulmonary Disease) diagnosed	3.14
	Sodium in urine acquisition time	3.10
	Haematocrit percentage	3.05
	Number of full sisters	3.04
	Heel bone mineral density (BMD) T-score, automated	2.99
	Average weekly beer plus cider intake	2.99
	Mean corpusular haemoglobin concentration	2.97
	Invitation to physical activity study, date sent	2.87
	Calibration coefficients - x slope	2.84
	Qualifications	2.83
	Vanovek cout	2.83
	Other disorders of urinary system (ICD-10: N39)	2.81
	Calibration - maximum x stationary value	2.80
	Neutrophil count	2.00
	3mm strong meridian (left)	2.77
	Why stopped smoking	2.74
	Fraction acceleration <= 1300 milli-gravities	2.73
	Townsend deprivation index at recruitment	2.69
	Microalbumin in urine	2.69
		2.64
	Average acceleration 20:00 - 20:59 Umbilical hernia (ICD-10: K42)	2.62
	Obesity (ICD-10: E66)	2.57
		2.57
	Number of days/week of moderate physical activity	2.32
	Time spent driving ECG/bike method for fitness test	2.49
	Types of physical activity in last 4 weeks Mouth/teeth dental problems	2.46
	•	2.46 2.43
	6mm strong meridian angle (right)	2.43
	Lymphocyte count High light scatter reticulocyte percentage	2.42
	Average acceleration 17:00 - 17:59	2.41
	Basophill count	2.39
	-	2.36
	Father's age Peak expiratory flow (PEF)	2.30
	Intra-ocular pressure, corneal-compensated (right)	2.35
	Femoral hernia (ICD-10: K41)	2.35 2.34
	Cereal type	
	Forced expiratory volume in 1-second (FEV1), predicted	2.33
	Pulse wave reflection index	2.30
	Average acceleration 00:00 - 00:59	2.29
	Pulse rate, automated reading	2.25
	Other arthrosis (ICD-10: M19)	2.19
	Heel Broadband ultrasound attenuation, direct entr	2.18
	Osteoporosis without pathological fracture (ICD-10: M81) Rich and other proprocification crustian (ICD-10: R21)	2.17
	Rash and other nonspecific skin eruption (ICD-10: R21)	2.17
	Number of cigarettes previously smoked daily Surgical operation and other surgical proceedures	2.17
	Surgical operation and other surgical procedures	2.17
	Light smokers, at least 100 smokes in lifetime	2.15
	Which eye(s) affected by amblyopia (lazy eye)	2.15
	Index of best refractometry result (left)	2.13
	Age high blood pressure diagnosed	2.11
132	Job code - deduced	2.11

153	Handedness (chirality/laterality)	2.09
	Average weekly champagne plus white wine intake	2.07
	Smoked cigarette or pipe within last hour	2.07
	Age when attended assessment centre	2.04
	Age hay fever, rhinitis or eczema diagnosed	2.04
	Leg pain on walking : action taken	2.00
	Astigmatism angle (left)	2.00
	Salad / raw vegetable intake	2.00
	Wear duration during 01:00 - 01:59	1.99
	Year of birth	1.99
	Other and unspecified injuries of wrist and hand	1.98
	Fraction acceleration <= 8 milli-gravities	1.97
	Haemoglobin concentration	1.96
	Corneal resistance factor (left)	1.96
		1.90
	Number of treatments/medications taken	
	Microalbumin in urine acquisition time	1.93
	Complications of procedures, not elsewhere classified	1.92
	Cooked vegetable intake	1.90
	Temperature maximum	1.90
	Other hypothyroidism (ICD-10: E03)	1.88
	Other medical procedures as cause of abnormal reaction of patient, or of later complication, without mention of misadventure at time of procedure (ICD-10: Y84)	1.87
	Duration of walks	1.86
	Heel bone mineral density (BMD), manual entry	1.85
	Vascular/heart problems diagnosed by doctor	1.85
	Wear duration during 07:00 - 07:59	1.85
	Diabetes diagnosed by doctor	1.85
	Coffee type	1.85
	Waist circumference	1.85
	Allergic contact dermatitis (ICD-10: L23)	1.84
	Age cataract diagnosed	1.84
	Leisure/social activities	1.84
	Trunk fat mass	1.83
	Variation in diet	1.83
	3mm strong meridian (right)	1.81
	Forced expiratory volume in 1-second (FEV1)	1.79
	Processed meat intake	1.79
	Time to complete round	1.78
	6mm weak meridian (left)	1.77
	Years since last breast cancer screening / mammogram	1.76
	Salt added to food	1.76
	Erosion and ectropion of cervix uteri (ICD-10: N86)	1.76
	Sodium in urine	1.75
	Fraction acceleration <= 7 milli-gravities	1.74
	Unspecified lump in breast (ICD-10: N63)	1.74
	Other diseases of digestive system (ICD-10: K92)	1.72
	Duration to complete numeric path (trail #1)	1.72
	Haemorrhoids (ICD-10: 184)	1.70
200	Mean corpuscular volume	1.68

	Variable	Age- and sex-adjusted	Fully adjusted**	Fully adjusted** + PC1-5
	variable	HR (95%CI)	HR (95%CI)	HR (95%CI)
	History of DVT	2.71 (2.28-3.23)	2.60 (2.18-3.11)	2.68 (1.95-3.68)
	Birth weight of first child	1.23 (1.05-1.44)	1.21 (1.03-1.42)	1.13 (0.85-1.51)
Traditional	Number of live births	1.12 (0.99-1.27)	1.12 (0.99-1.27)	1.10 (0.88-1.39)
	BMI	1.11 (1.00-1.24)	1.11 (0.99-1.24)	0.96 (0.78-1.18)
	Waist-hip ratio	1.10 (0.97-1.26)	1.01 (0.88-1.16)	1.07 (0.83-1.37)
	Leg bioimpedance	0.56 (0.51-0.63)	0.43 (0.39-0.50)	0.51 (0.41-0.63)
	Height	1.70 (1.48-1.96)	1.74 (1.51-2.01)	1.54 (1.19-1.99)
	Major operations	0.75 (0.69-0.82)	0.77 (0.70-0.84)	0.84 (0.71-0.98)
	Surgery on leg arteries	3.71 (2.46-5.62)	3.50 (2.30-5.33)	2.99 (1.34-6.67)
Novel	Ulceration of lower limb (ICD-10: L97)	4.65 (2.36-9.16)	3.00 (1.36-6.61)	6.18 (2.05-18.6)
	Other soft tissue disorders (ICD-10: M79)	2.01 (1.58-2.55)	1.66 (1.30-2.12)	1.73 (1.13-2.65)
	Cellulitis (ICD-10: L03)	2.09 (1.52-2.87)	1.79 (1.29-2.48)	1.90 (1.09-3.30)
	Smoking	1.04 (0.92-1.19)	1.04 (0.91-1.19)	1.23 (1.00-1.51)
	Systolic blood pressure	0.81 (0.72-0.90)	0.79 (0.71-0.88)	0.81 (0.67-0.99)
	Age completed full time education	0.80 (0.70-0.91)	0.82 (0.72-0.93)	0.85 (0.68-1.06)
51.1	Oral contraceptive use	0.67 (0.44-1.02)	0.68 (0.44-1.04)	0.83 (0.41-1.70)
Debated	Hormone replacement therapy	1.25 (1.04-1.49)	1.25 (1.04–1.50)	1.31 (0.96-1.81)
	Days per week walked >10 minutes	1.32 (1.18-1.47)	1.33 (1.19-1.48)	1.43 (1.18-1.75)
	Duration of moderate daily activity	1.00 (0.87-1.14)	1.00 (0.88-1.15)	1.22 (0.95-1.56)

Supplemental Table 3. Results from all 3 multivariable-adjusted Cox models.

DVT: deep vein thrombosis. BMI: body mass index. HR: hazard ratio. CI: confidence interval. PC: principal components. Associations between candidate variables and varicose veins are reported for as HR and 95% CI for the upper vs. lower quartile for continuous variables, or presence vs. absence for binary variables.

**Fully adjusted model includes age, gender, BMI, history of DVT, and waist-hip ratio. Pregnancy-specific factors, oral contraceptive use, and hormone replacement therapy were only assessed in female study participants.

Cox model	Variable	C-index
Both genders	Baseline (age and sex)	0.560
	History of DVT	0.575
	Leg impedance	0.645
	Major operation	0.584
	Leg artery operation	0.583
	Height	0.610
	Non-pressure chronic ulcer of lower limb, not elsewhere classified (ICD10: L97)	0.575
	Other and unspecified soft tissue disorders, not elsewhere classified (ICD10: M79)	0.578
	Cellulitis and acute lymphangitis (ICD10: L03)	0.577
	Age finished education	0.576
Female only	History of DVT	0.560
remate only	Leg impedance	0.500
	Major operation	0.570
	Leg artery operation	0.580
	Height	0.600
	Non-pressure chronic ulcer of lower limb, not elsewhere classified (ICD10: L97)	0.560
	Age at first live birth	0.560
	Other and unspecified soft tissue disorders, not elsewhere classified (ICD10: M79)	0.560
	Birth weight of first child	0.570
	Cellulitis and acute lymphangitis (ICD10: L03)	0.560
	Age finished education	0.560
Male only	History of DVT	0.57
	Leg impedance	0.66
	Major operation	0.58
	Leg artery operation	0.58
	Height	0.61
	Non-pressure chronic ulcer of lower limb, not elsewhere classified (ICD10: L97)	0.57
	Other and unspecified soft tissue disorders, not elsewhere classified (ICD10: M79)	0.57
	Cellulitis and acute lymphangitis (ICD10: L03)	0.57
	Age finished education	0.57

Supplemental Table 4. Predictive capacity of multivariable models of varicose veins.

SNP	CHR	Position (b37)	Effect a	lleleon-effect alle	EAF cases	EAF controls	beta	SE	P-value	MACH-Rsq	Nearby genes
rs11121615	1	1082557	7 T	С	0.64	0.69	-0.263	0.015	3.71E-65	0.99	CASZ1
											APRT,CBFA2T3,CDT1,CTU2,CYBA,GALNS,IL17C,LOC339059,LOC1001
											29697,LOC100289580,LOC101927793,MIR4722,MVD,PABPN1L,PIEZO1,F
rs2911463	16	8883554	5 A	G	0.65	0.69	-0.174	0.016	4.81E-29	0.98	NF166,SNAI3,SNAI3-AS1,TRAPPC2L,ZC3H18
rs2861819	2	6848922	1 C	G	0.69	0.65	0.159	0.016	1.40E-23	0.99	CNRIP1,PNO1,PPP3R1,WDR92
rs28558138	4	2681808	0 C	G	0.39	0.42	-0.135	0.015	5.00E-19	0.98	LOC105374546,STIM2,TBC1D19
											CTU2,CYBA,IL17C,LOC339059,LOC100289580,MIR4722,MVD,PIEZO1,R
rs8053350	16	8879440	3 A	G	0.53	0.56	-0.132	0.015	6.78E-19	0.99	NF166,SNAI3,SNAI3-AS1
rs3101725	5	12752401	8 C	Т	0.73	0.76	-0.143	0.017	8.93E-18	1	FBN2,LINC01184,SLC12A2
rs11135046	5	15823001	3 Т	G	0.51	0.54	-0.12	0.015	3.11E-16	1	EBF1
											BTN1A1,BTN2A1,BTN2A2,BTN2A3P,BTN3A1,BTN3A2,BTN3A3,HCG11.
											HFE,HIST1H1C,HIST1H1D,HIST1H1E,HIST1H1T,HIST1H2AC,HIST1H2A
											D,HIST1H2AE,HIST1H2BC,HIST1H2BD,HIST1H2BE,HIST1H2BF,HIST1F
											2BG,HIST1H2BH,HIST1H2BI,HIST1H3D,HIST1H3E,HIST1H3F,HIST1H3
											G,HIST1H4C,HIST1H4D,HIST1H4E,HIST1H4F,HIST1H4G,HIST1H4H,HM
rs7773004	6	2626775	5 G	А	0.47	0.49	-0.113	0.015	2.30E-14	1	GN4,LOC285819,LOC108783645
rs12625547	20	5015464	7 G	Т	0.15	0.18	-0.147	0.02	6.88E-13	0.99	NFATC2
rs236597	17	6823592	5 Т	С	0.72	0.74	-0.117	0.017	1.63E-12	0.98	KCNJ2,KCNJ2-AS1
rs7614922	3	12823822	2 C	G	0.16	0.14	0.14	0.02	3.67E-12	1	DNAJB8, DNAJB8-AS1, GATA2, GATA2-AS1, LINC01565, LOC90246, RPN1
rs73107980	12	4818760	1 Т	С	0.26	0.24	0.11	0.017	7.61E-11	0.98	HDAC7,RAPGEF3,SLC48A1,VDR
rs7469817	9	11829682	9 C	G	0.76	0.74	0.112	0.017	9.63E-11	1	DEC1,LOC101928775
rs2241173	17	7002844	5 G	А	0.55	0.58	-0.095	0.015	1.62E-10	0.99	LINC01152,LINC02095,LINC02097,LOC102723517,SOX9-AS1
											C20orf204,DNAJC5,LKAAEAR1,MIR647,MIR941-1,MIR941-1,MIR941-
											2,MIR941-2,MIR941-2,MIR941-3,MIR941-3,MIR941-3,MIR941-4,MIR941-
											4,MIR941-4,MIR941-5,MIR941-5,MIR941-
											5,MIR1914,MIR6813,OPRL1,PRPF6,RGS19,SAMD10,SOX18,TCEA2,UCK
rs816943	20	6267600	9 G	А	0.45	0.48	-0.094	0.015	1.98E-10	0.99	L1,UCKL1-AS1,ZNF512B
											HCG4B,HCG9,HLA-A,HLA-J,PPP1R11,RNF39,TRIM31,TRIM31-
rs1061539	6	2993755	5 C	Т	0.81	0.83	-0.113	0.019	1.59E-09	1	AS1,TRIM40,ZNRD1,ZNRD1ASP
rs1549063	13	10626408	3 Т	А	0.38	0.36	0.091	0.015	2.11E-09	1	
rs16828263	3		3 C	Т	0.0016	0.00056	1.118	0.19	4.37E-09	0.93	
rs9719461	7	63271	5 Т	С	0.68	0.66	0.092	0.016	7.36E-09	0.99	LOC101926963,LOC101927000,PRKAR1B
rs2263321	6	3134090	8 A	G	0.31	0.33	-0.091	0.016	8.42E-09	1.02	HLA-B,MICA,MICA-AS1,MIR6891
rs247749	5	7629673	5 C	Т	0.31	0.29	0.099	0.017	8.77E-09	0.86	AGGF1,CRHBP
rs75522736	6	13501592	1 G	А	0.14	0.16	-0.12	0.021	1.07E-08	1	
rs553399706	16	7461557	7 A	G	0.0017	0.00063	1.064	0.187	1.32E-08	0.92	GLG1,RFWD3
rs62512472	8	8759559	0 A	G	0.45	0.43	0.084	0.015	1.38E-08	0.99	CNGB3,CPNE3,RMDN1
											FGF21,FUT1,FUT2,IZUMO1,LOC105447645,MAMSTR,NTN5,RASIP1,SEC
rs584768	19	4921328	4 A	G	0.56	0.53	0.084	0.015	1.43E-08	1	1P
Not available	6			C	0.48	0.5	-0.083	0.015	1.82E-08	1	RSPO3
rs2089657	2			C	0.2	0.21	-0.104	0.019	2.41E-08	0.99	LBH
rs12594708	15			C	0.065	0.076	-0.165	0.03	3.72E-08	0.98	
rs186005582	6			C	0.001	0.00029	1.341	0.245	4.24E-08	0.85	LINC02549
rs192647746	4	18276036		A	0.0024	0.0011	0.863	0.158	4.73E-08	0.92	TEMN3-AS1

Supplemental Table 5. Genetic loci associated with varicose veins with genome wide significance at P < 5.0 E-8

Supplemental Table 6. SNPs associated with varicose veins that reached genome-wide significance.

SNP	CHR P	Position (b37)	Effect allele	Other allele	EAF	beta	SE	P-value	MACH-Rsq
rs11121615	1	10825577	Т	С	0.69	-0.2628	0.0154	3.71E-65	0.99
rs36083532	1	10839085	Т	С	0.69	-0.2315	0.0155	2.88E-50	0.98
rs7519604	1	10824835	С	Т	0.76	-0.2333	0.0164	5.12E-46	0.99
rs10864469	1	10825334	С	А	0.76	-0.2332	0.0164	5.96E-46	0.99
rs7512641	1	10822171	А	Т	0.74	-0.2306	0.0162	1.02E-45	0.98
rs10864470	1	10831408	Т	С	0.71	-0.22	0.0157	1.69E-44	0.99
rs58064215	1	10833232	G	С	0.71	-0.2169	0.0156	8.74E-44	1
rs12031981	1	10834579	С	Т	0.73	-0.2173	0.016	4.42E-42	0.99
rs2235699	1	10820215	А	G	0.73	-0.2171	0.0162	3.92E-41	0.96
rs6540948	1	10823786	А	Т	0.76	-0.2111	0.0166	3.06E-37	0.99
rs205472	1	10832322	А	G	0.75	-0.2071	0.0163	5.04E-37	0.99
rs205474	1	10832861	Т	С	0.75	-0.2067	0.0163	7.08E-37	1
rs6668047	1	10828179	А	G	0.75	-0.2066	0.0164	2.29E-36	0.98
rs2073017	1	10822808	С	Т	0.79	-0.2049	0.0173	2.12E-32	0.98
rs205476	1	10833717	А	G	0.78	-0.1984	0.017	1.32E-31	0.99
rs205477	1	10833820	Т	С	0.78	-0.1979	0.017	1.89E-31	0.99
rs11121616	1	10830428	С	Т	0.13	0.2328	0.0202	7.85E-31	0.99
rs172228	1	10831218	С	G	0.15	0.2189	0.0192	3.95E-30	1
rs2911463	16	88835545	А	G	0.69	-0.1744	0.0156	4.81E-29	0.98
rs9933309	16	88844932	С	Т	0.7	-0.1722	0.0155	1.48E-28	1
rs9932423	16	88846849	А	С	0.31	0.1712	0.0155	2.18E-28	1
rs2002833	16	88842117	А	G	0.67	-0.1696	0.0154	2.42E-28	0.99
rs2911460	16	88842700	G	А	0.68	-0.168	0.0154	1.49E-27	0.99
rs2932690	16	88842953	А	G	0.68	-0.1665	0.0154	2.82E-27	0.99
rs6660242	1	10845840	А	G	0.7	-0.1676	0.0156	9.29E-27	0.99
rs6698228	1	10842566	А	G	0.67	-0.1628	0.0157	2.37E-25	0.96
rs475596	16	88846951	С	G	0.62	-0.1536	0.0149	7.32E-25	1
rs2861819	2	68489221	С	G	0.66	0.159	0.0159	1.40E-23	0.99
rs13019043	2	68492786	G	А	0.66	0.159	0.0159	1.42E-23	0.99
rs6546357	2	68379038	Α	G	0.64	0.1567	0.0157	1.76E-23	1
rs2608604	16	88849421	G	Α	0.62	-0.149	0.0149	1.79E-23	1
rs4671205	2	68379388	А	G	0.64	0.1566	0.0157	1.83E-23	1
rs10195757	2	68493582	С	Т	0.66	0.1586	0.0159	1.89E-23	0.99
rs6742014	2	68385955	Т	С	0.64	0.1563	0.0157	2.11E-23	1
rs6712038	2	68492887	А	G	0.66	0.1584	0.0159	2.18E-23	0.99
rs12713637	2	68490970	А	Т	0.66	0.1583	0.0159	2.32E-23	0.99
rs6546366	2	68489667	С	Α	0.66	0.1583	0.0159	2.37E-23	0.99
rs6759433	2	68495463	А	G	0.66	0.1583	0.0159	2.46E-23	0.99
rs6546368	2	68498832	С	Т	0.66	0.1584	0.0159	2.67E-23	0.99
rs7594568	2	68476861	А	G	0.66	0.158	0.0159	2.69E-23	1
rs4671887	2	68475595	А	С	0.66	0.1579	0.0159	2.79E-23	1
rs12468533	2	68457573	Т	С	0.66	0.1579	0.0159	2.83E-23	1
rs6546364	2	68475068	А	С	0.66	0.1579	0.0159	2.84E-23	1

rs4671888	2	68477248	С	Т	0.66	0.1579	0.0159	2.87E-23	1
rs7579440	2	68498508	С	Т	0.66	0.1582	0.0159	2.90E-23	0.99
rs1947025	2	68478919	G	А	0.66	0.1579	0.0159	2.96E-23	1
rs2278788	2	68376556	С	Т	0.64	0.1559	0.0157	3.02E-23	1
rs6546363	2	68467910	С	А	0.66	0.1578	0.0159	3.10E-23	1
rs5018482	2	68377612	С	А	0.64	0.1558	0.0157	3.33E-23	1
rs12329083	2	68481719	Т	А	0.66	0.1577	0.0159	3.34E-23	0.99
rs7569914	2	68487109	G	А	0.66	0.1577	0.0159	3.37E-23	0.99
rs1375371	2	68463612	А	G	0.66	0.1576	0.0159	3.51E-23	1
rs6546362	2	68463321	Т	С	0.66	0.1576	0.0159	3.51E-23	1
rs6711175	2	68457280	А	G	0.66	0.1574	0.0159	3.68E-23	1
rs7576010	2	68473457	G	А	0.66	0.1574	0.0159	3.76E-23	1
rs10208241	2	68446936	Т	С	0.65	0.1572	0.0159	3.90E-23	1
rs6721447	2	68472242	С	А	0.66	0.1573	0.0159	4.02E-23	1
rs930653	2	68464271	Т	А	0.66	0.1573	0.0159	4.02E-23	1
rs6546356	2	68369938	Т	С	0.64	0.1553	0.0157	4.80E-23	1
rs4671877	2	68399190	Т	С	0.65	0.1567	0.0159	4.88E-23	1
rs8052370	16	88837298	Т	С	0.61	-0.1482	0.015	5.49E-23	0.98
rs12476697	2	68457854	G	А	0.66	0.1568	0.0159	5.89E-23	1
rs6730444	2	68458420	G	Т	0.66	0.1567	0.0159	5.93E-23	1
rs12105301	2	68448365	G	А	0.66	0.1565	0.0159	6.24E-23	1
rs10445033	16	88840462	А	G	0.61	-0.1474	0.015	7.04E-23	0.99
rs4671884	2	68448235	G	А	0.66	0.1562	0.0159	7.55E-23	1
rs10191352	2	68418868	Т	А	0.66	0.1561	0.0159	8.51E-23	1
rs2122126	2	68417717	С	А	0.66	0.1561	0.0159	8.61E-23	1
rs4671874	2	68355640	С	G	0.64	0.1548	0.0158	8.66E-23	0.99
rs2044693	2	68385097	G	А	0.64	0.1544	0.0157	8.74E-23	1
rs6761378	2	68420070	Т	G	0.66	0.1561	0.0159	8.76E-23	1
rs13004649	2	68425417	А	G	0.66	0.1561	0.0159	8.77E-23	1
rs12713635	2	68423530	А	G	0.66	0.1561	0.0159	8.80E-23	1
rs6757863	2	68419487	А	G	0.66	0.1561	0.0159	8.82E-23	1
rs4671878	2	68422771	А	G	0.66	0.1561	0.0159	8.85E-23	1
rs9677635	2	68421049	А	G	0.66	0.1561	0.0159	8.91E-23	1
rs12052801	2	68423218	А	G	0.66	0.1561	0.0159	8.92E-23	1
rs6719706	2	68429632	Т	С	0.66	0.156	0.0159	9.04E-23	1
rs11693063	2	68410372	А	С	0.66	0.1559	0.0159	9.41E-23	1
rs6546358	2	68411414	А	G	0.66	0.1559	0.0159	9.45E-23	1
rs1115793	2	68411962	А	G	0.66	0.1559	0.0159	9.52E-23	1
rs6757991	2	68410660	G	Т	0.66	0.1558	0.0159	9.62E-23	1
rs7573449	2	68435932	А	G	0.66	0.1559	0.0159	9.94E-23	1
rs6736178	2	68433831	А	G	0.66	0.1558	0.0159	1.08E-22	1
rs12713636	2	68435431	G	С	0.66	0.1557	0.0159	1.09E-22	1
rs7599591	2	68412906	А	С	0.66	0.1557	0.0159	1.11E-22	1
rs6758449	2	68437108	G	А	0.66	0.1557	0.0159	1.14E-22	1
rs6757906	2	68354727	А	С	0.64	0.1543	0.0158	1.17E-22	0.99

rs6738957	2	68439960	Т	С	0.66	0.1556	0.0159	1.18E-22	1
rs7572554	2	68435280	Т	С	0.66	0.1556	0.0159	1.19E-22	1
rs7574378	2	68430925	Т	С	0.66	0.1556	0.0159	1.19E-22	1
rs7577586	2	68431259	А	G	0.66	0.1556	0.0159	1.20E-22	1
rs2861815	2	68438829	А	G	0.66	0.1556	0.0159	1.20E-22	1
rs2861816	2	68439237	G	А	0.66	0.1556	0.0159	1.21E-22	1
rs2861814	2	68438614	Т	С	0.66	0.1555	0.0159	1.23E-22	1
rs10192179	2	68443835	Т	А	0.66	0.1556	0.0159	1.24E-22	1
rs4296409	2	68439168	А	С	0.66	0.1555	0.0159	1.25E-22	1
rs10191980	2	68443651	G	А	0.66	0.1555	0.0159	1.25E-22	1
rs3961804	2	68400098	А	G	0.66	0.1553	0.0159	1.37E-22	1
rs10190515	2	68400956	А	G	0.66	0.1552	0.0159	1.41E-22	1
rs12691190	2	68401557	G	А	0.66	0.1552	0.0159	1.43E-22	1
rs1060842	2	68402012	Т	G	0.66	0.1552	0.0159	1.44E-22	1
rs8052231	16	88837243	Т	С	0.6	-0.1461	0.015	2.01E-22	0.98
rs6716271	2	68398919	С	G	0.66	0.1547	0.0159	2.06E-22	1
rs10197082	2	68402830	С	G	0.66	0.1547	0.0159	2.16E-22	0.99
rs10173197	2	68402835	G	А	0.66	0.1547	0.0159	2.16E-22	0.99
rs6753107	2	68360500	G	А	0.64	0.1532	0.0157	2.21E-22	0.99
rs1037242	2	68404828	А	G	0.66	0.1544	0.0159	2.51E-22	1
rs17035680	1	10825686	С	Т	0.069	0.259	0.0267	3.03E-22	0.97
rs6540949	1	10823873	С	Т	0.82	-0.1781	0.0184	3.10E-22	1
rs12713633	2	68396196	G	А	0.66	0.1537	0.0159	3.92E-22	1
rs6756198	2	68394184	Т	С	0.66	0.1536	0.0159	4.22E-22	1
rs6540950	1	10824329	С	Т	0.82	-0.1773	0.0184	4.46E-22	1
rs10173501	2	68395631	А	G	0.66	0.153	0.0159	6.27E-22	1
rs4671876	2	68395913	G	А	0.66	0.1529	0.0159	6.45E-22	1
rs7340307	2	68393144	А	Т	0.66	0.1528	0.0159	6.92E-22	1
rs2902065	2	68482327	G	А	0.67	0.154	0.0161	9.22E-22	0.99
rs10182832	2	68394984	С	Т	0.66	0.1524	0.0159	9.59E-22	1
rs205488	1	10827135	С	Т	0.84	-0.1826	0.0193	2.62E-21	0.99
rs12709104	16	88757940	А	G	0.9	-0.2125	0.0228	1.25E-20	0.98
rs4671204	2	68354964	Т	С	0.63	0.1452	0.0156	1.53E-20	0.99
rs9972645	16	88796658	G	Α	0.91	-0.2217	0.0239	1.77E-20	0.99
rs837763	16	88853729	Т	С	0.55	-0.1363	0.0147	2.00E-20	1
rs11076698	16	88752693	G	Т	0.91	-0.2192	0.0237	2.31E-20	0.99
rs8060579	16	88751667	С	G	0.91	-0.2182	0.0237	3.29E-20	0.99
rs7193436	16	88748736	С	Т	0.91	-0.2182	0.0237	3.74E-20	0.99
rs551118	16	88856084	G	С	0.58	-0.1379	0.015	4.04E-20	0.97
rs6500488	16	88753865	G	А	0.91	-0.2171	0.0236	4.06E-20	0.99
rs7586731	2	68363899	Т	С	0.64	0.1436	0.0156	4.08E-20	0.99
rs7560014	2	68363903	G	А	0.64	0.1433	0.0156	4.97E-20	0.99
rs2926776	16	88858602	G	А	0.58	-0.1372	0.015	6.82E-20	0.96
rs2968478	16	88858646	G	Т	0.58	-0.1365	0.015	1.11E-19	0.96
rs11076699	16	88756812	Т	G	0.91	-0.2192	0.0242	1.24E-19	0.98

rs745326	16	88755245	G	С	0.91	-0.2172	0.0241	1.88E-19	0.98
rs8060640	16	88744430	С	G	0.91	-0.2123	0.0237	2.81E-19	1
rs28558138	4	26818080	С	G	0.42	-0.1353	0.0152	5.00E-19	0.98
rs3826076	16	88780518	G	А	0.89	-0.1976	0.0222	5.16E-19	1
rs2306046	16	88781419	G	А	0.89	-0.1973	0.0222	6.13E-19	1
rs4238679	16	88742688	С	G	0.91	-0.2108	0.0237	6.41E-19	1
rs8050715	16	88780923	G	С	0.89	-0.197	0.0222	6.49E-19	1
rs8053350	16	88794403	А	G	0.56	-0.1315	0.0148	6.78E-19	0.99
rs8048897	16	88744470	G	Т	0.91	-0.2096	0.0237	8.72E-19	1
rs7205626	16	88780472	С	Т	0.89	-0.1965	0.0222	8.76E-19	1
rs8060966	16	88777329	G	А	0.89	-0.1926	0.0218	9.68E-19	0.99
rs6700327	1	10815673	G	Т	0.85	-0.1806	0.0204	1.00E-18	0.91
rs2290902	16	88782676	G	А	0.89	-0.1957	0.0222	1.16E-18	0.99
rs861400	16	88862343	G	С	0.57	-0.1322	0.015	1.42E-18	0.96
rs4401037	16	88786967	Т	С	0.89	-0.1928	0.0219	1.44E-18	1
rs8053135	16	88810129	G	А	0.88	-0.1856	0.0212	1.77E-18	0.99
rs4671892	2	68503920	G	А	0.68	0.143	0.0163	1.84E-18	0.97
rs4433802	16	88784964	G	А	0.89	-0.1933	0.0221	2.06E-18	0.99
rs8043637	16	88781125	С	Т	0.89	-0.1929	0.0221	2.24E-18	0.99
rs8044367	16	88783374	G	А	0.89	-0.1932	0.0223	3.91E-18	1
rs4597303	16	88763561	С	Т	0.92	-0.2131	0.0246	3.97E-18	0.98
rs4598894	16	88776141	А	G	0.89	-0.1914	0.0221	4.67E-18	1
rs11076702	16	88774569	С	А	0.89	-0.1915	0.0221	5.32E-18	0.99
rs837756	16	88862568	С	G	0.58	-0.1309	0.0151	5.33E-18	0.95
rs6500491	16	88783521	С	Т	0.89	-0.1917	0.0223	7.36E-18	1
rs4238685	16	88775220	С	Т	0.89	-0.1907	0.0222	7.73E-18	0.99
rs11076701	16	88774525	G	А	0.89	-0.1901	0.0221	8.12E-18	0.99
rs3101725	5	127524018	С	Т	0.76	-0.1431	0.0167	8.93E-18	1
rs4390574	16	88776297	С	Т	0.89	-0.1886	0.022	1.17E-17	1
rs12991777	2	68351332	С	Т	0.64	0.1339	0.0157	1.29E-17	0.99
rs12928751	16	88864102	С	Т	0.57	-0.1285	0.0151	1.51E-17	0.96
rs4782430	16	88792047	G	Α	0.88	-0.1818	0.0214	1.68E-17	1
rs4782429	16	88792097	G	А	0.88	-0.1817	0.0214	1.83E-17	1
rs790154	5	127501235	G	Α	0.76	-0.1417	0.0167	1.96E-17	1
rs790155	5	127498380	Т	С	0.76	-0.1416	0.0167	1.97E-17	1
rs2861798	2	68349183	G	Т	0.64	0.1327	0.0157	2.36E-17	1
rs251393	5	127533085	С	Т	0.78	-0.1452	0.0172	2.87E-17	0.99
rs2250127	5	127388844	А	G	0.25	0.1397	0.0165	3.16E-17	0.99
rs1868402	2	68409037	А	G	0.71	0.141	0.0167	3.23E-17	1
rs8048714	16	88809773	С	G	0.87	-0.1741	0.0207	3.51E-17	0.99
rs8059794	16	88787388	Т	С	0.88	-0.1786	0.0212	3.61E-17	1
rs7201439	16	88808862	Т	С	0.87	-0.1739	0.0206	3.63E-17	1
rs34576922	5	127364103	G	С	0.25	0.1393	0.0165	3.71E-17	0.99
rs4238687	16	88788903	G	Т	0.88	-0.1787	0.0212	4.09E-17	1
rs17764730	5	127357526	Т	С	0.25	0.1392	0.0166	4.15E-17	0.99

rs2340973	16	88773396	А	G	0.89	-0.1872	0.0223	4.18E-17	0.99
rs3749748	5	127350549	Т	С	0.25	0.1391	0.0165	4.27E-17	0.99
rs6888037	5	127406259	Т	G	0.75	-0.1387	0.0166	5.36E-17	0.99
rs6860245	5	127367998	С	G	0.25	0.1385	0.0165	5.39E-17	0.99
rs6500495	16	88808743	G	А	0.87	-0.1724	0.0207	7.49E-17	1
rs8043924	16	88787704	С	G	0.88	-0.1764	0.0212	7.64E-17	1
rs9935872	16	88788477	G	А	0.88	-0.1769	0.0212	8.25E-17	1
rs6734622	2	68350891	G	А	0.65	0.1302	0.0157	9.73E-17	1
rs7599687	2	68348011	Т	С	0.63	0.1284	0.0156	1.62E-16	0.99
rs10445034	16	88840564	Т	С	0.24	-0.1489	0.0181	1.95E-16	0.98
rs4520817	16	88785126	G	А	0.57	-0.1209	0.0148	2.63E-16	1
rs1108141	16	88841065	G	Т	0.24	-0.1465	0.0179	2.74E-16	0.98
rs11135046	5	158230013	Т	G	0.54	-0.1203	0.0147	3.11E-16	1
rs205485	1	10815702	Т	G	0.11	0.1867	0.0229	3.15E-16	0.9
rs4620939	16	88785072	С	G	0.57	-0.1205	0.0148	3.26E-16	1
rs8057031	16	88783449	G	С	0.56	-0.1199	0.0147	3.50E-16	1
rs1560637	5	127448066	С	А	0.75	-0.135	0.0166	3.72E-16	1
rs2617617	5	127455008	Т	С	0.75	-0.135	0.0166	3.77E-16	1
rs9327468	5	127441861	А	С	0.75	-0.135	0.0166	3.81E-16	1
rs6889311	5	127431285	G	А	0.75	-0.135	0.0166	3.81E-16	1
rs1112956	5	127433798	G	А	0.75	-0.135	0.0166	3.82E-16	1
rs2409110	5	127433047	Т	А	0.75	-0.135	0.0166	3.84E-16	1
rs2568928	5	127487603	G	А	0.76	-0.1352	0.0166	3.94E-16	1
rs7734927	5	127453735	А	Т	0.75	-0.1347	0.0166	4.34E-16	1
rs1368298	5	158204425	G	А	0.45	0.1197	0.0147	4.36E-16	1
rs1993878	5	127476971	А	С	0.75	-0.1344	0.0166	5.22E-16	1
rs8056374	16	88790147	Т	G	0.88	-0.1728	0.0213	5.35E-16	0.99
rs12332693	5	158227898	А	G	0.55	-0.1194	0.0147	5.48E-16	1
rs31864	5	158220193	G	А	0.45	0.1189	0.0147	6.71E-16	1
rs776912	1	10847784	А	Т	0.83	-0.1545	0.0192	7.43E-16	0.97
rs7404939	16	88807896	А	G	0.12	0.1719	0.0213	7.66E-16	1
rs1003136	5	127347815	А	G	0.36	0.1204	0.0151	1.38E-15	1
rs28540272	5	127348899	G	А	0.37	0.1199	0.0151	1.64E-15	1
rs34145453	5	127347013	G	А	0.37	0.1197	0.015	1.74E-15	1
rs6500489	16	88772046	С	Т	0.9	-0.185	0.0233	1.84E-15	0.99
rs17764688	5	127346879	С	Т	0.37	0.1195	0.0151	2.18E-15	1
rs7184427	16	88804734	G	Α	0.85	-0.1547	0.0196	2.59E-15	0.98
rs67237947	16	88854779	Т	С	0.23	-0.1457	0.0185	2.86E-15	0.97
rs1432679	5	158244083	Т	С	0.55	-0.1159	0.0147	3.56E-15	1
rs4238686	16	88788934	G	А	0.53	-0.1158	0.0147	3.88E-15	0.99
rs2272443	16	88854008	Т	С	0.23	-0.1438	0.0184	5.15E-15	0.98
rs4782432	16	88783738	G	А	0.88	-0.1674	0.0215	6.25E-15	0.99
rs8048125	16	88751207	С	Т	0.68	-0.12	0.0156	1.27E-14	0.99
rs35897671	5	127349745	Т	С	0.35	0.117	0.0152	1.58E-14	1
rs11121627	1	10856692	Т	С	0.59	-0.1193	0.0156	1.79E-14	0.91

rs62048221	16	88846552	Т	С	0.23	-0.1388	0.0181	1.91E-14	1
rs73251033	16	88844636	А	G	0.23	-0.1392	0.0182	1.94E-14	1
rs7773004	6	26267755	G	А	0.49	-0.1125	0.0147	2.30E-14	1
rs73251038	16	88845931	Т	С	0.24	-0.1354	0.0177	2.32E-14	1
rs6933139	6	26327394	Т	А	0.46	-0.1132	0.0149	2.44E-14	1
rs59404182	16	88852866	G	А	0.2	-0.1483	0.0195	2.59E-14	0.97
rs6456713	6	26325843	G	А	0.46	-0.1128	0.0148	2.96E-14	1
rs1053860	6	26325228	Т	С	0.46	-0.1128	0.0148	2.96E-14	1
rs9393700	6	26309380	А	G	0.46	-0.1127	0.0148	2.98E-14	1
rs3778279	6	26325463	С	Т	0.46	-0.1128	0.0148	2.98E-14	1
rs994379	6	26305407	С	G	0.46	-0.1127	0.0148	3.04E-14	1
rs251391	5	127538116	Т	С	0.75	-0.1253	0.0165	3.06E-14	0.99
rs6917995	6	26327814	С	Т	0.49	-0.1121	0.0148	3.17E-14	1
rs6932584	6	26327081	С	А	0.46	-0.1126	0.0149	3.48E-14	0.99
rs12929576	16	88749261	С	Т	0.65	-0.1152	0.0152	3.50E-14	0.99
rs6932727	6	26327087	А	С	0.46	-0.1126	0.0149	3.57E-14	0.99
rs251390	5	127538346	А	G	0.75	-0.125	0.0165	3.88E-14	0.99
rs1155207	6	26328365	G	А	0.49	-0.112	0.0148	3.92E-14	0.99
rs251389	5	127541877	С	А	0.75	-0.1247	0.0165	4.35E-14	1
rs251216	5	127543280	G	А	0.75	-0.1246	0.0165	4.38E-14	1
rs2968482	16	88844433	С	Т	0.3	-0.1244	0.0165	4.67E-14	1
rs2926770	16	88844527	G	А	0.3	-0.1234	0.0165	6.50E-14	1
rs72813547	16	88855969	G	С	0.17	0.1423	0.0191	9.61E-14	0.96
rs7710925	5	158245634	С	А	0.6	-0.11	0.0148	1.24E-13	1
rs251214	5	127544738	Т	С	0.74	-0.121	0.0164	1.52E-13	1
rs6658023	1	10847340	С	Т	0.77	-0.1249	0.0169	1.53E-13	0.99
rs776911	1	10847158	А	С	0.77	-0.1243	0.0169	1.86E-13	0.99
rs79582484	16	88846218	А	G	0.26	-0.127	0.0173	2.26E-13	1
rs76327864	16	88849754	А	G	0.12	-0.1744	0.0239	2.97E-13	0.99
rs59096032	1	10838556	А	С	0.054	0.2152	0.0296	3.79E-13	1
rs12077574	1	10829971	А	G	0.063	0.2048	0.0282	3.88E-13	0.98
rs6500500	16	88829231	G	А	0.64	-0.1106	0.0153	4.59E-13	0.98
rs61459102	16	88847547	А	С	0.23	-0.1298	0.0179	4.70E-13	1
rs10864471	1	10849645	G	А	0.065	0.202	0.0279	4.74E-13	0.97
rs61203850	16	88847516	А	G	0.23	-0.1297	0.0179	4.89E-13	1
rs6500486	16	88723629	Т	С	0.13	0.1483	0.0205	4.91E-13	0.99
rs56825100	16	88847343	Т	С	0.23	-0.1296	0.0179	5.07E-13	1
rs4782309	16	88721538	Т	С	0.13	0.148	0.0205	5.21E-13	1
rs3923192	4	26819467	G	А	0.48	-0.1075	0.0149	5.34E-13	0.98
rs6500485	16	88723042	А	G	0.13	0.1474	0.0205	5.73E-13	1
rs57258486	16	88847738	А	G	0.24	-0.1293	0.0179	5.80E-13	1
rs10056564	5	158261256	Т	С	0.6	-0.1069	0.0149	6.24E-13	1
rs12625547	20	50154647	G	Т	0.17	-0.1466	0.0204	6.88E-13	0.99
rs761124	1	10856053	Т	G	0.8	-0.1263	0.0176	7.79E-13	1
rs8048658	16	88751528	G	Т	0.7	-0.1134	0.0158	8.11E-13	0.99

rs1737617	1	10850798	А	G	0.78	-0.123	0.0172	8.94E-13	1
rs1152727	1	10857567	С	А	0.8	-0.1268	0.0178	1.01E-12	0.99
rs1152726	1	10857455	С	Т	0.8	-0.1263	0.0177	1.09E-12	0.99
rs8046018	16	88719980	Т	G	0.13	0.1459	0.0205	1.20E-12	1
rs1017828	16	88720611	А	G	0.63	-0.107	0.0151	1.27E-12	1
rs6716006	2	68516891	G	А	0.7	0.116	0.0164	1.32E-12	1
rs251387	5	127547180	С	Т	0.74	-0.1163	0.0164	1.32E-12	1
rs1480333	16	88720678	А	G	0.63	-0.1067	0.0151	1.42E-12	1
rs4671894	2	68517936	G	А	0.7	0.1158	0.0164	1.44E-12	1
rs236597	17	68235925	Т	С	0.74	-0.1167	0.0165	1.63E-12	0.98
rs251213	5	127545605	Т	С	0.74	-0.1158	0.0164	1.68E-12	1
rs181850	5	127547487	С	Т	0.74	-0.1157	0.0164	1.74E-12	1
rs251386	5	127547298	G	А	0.74	-0.1157	0.0164	1.75E-12	1
rs2617621	5	127546266	С	А	0.74	-0.1157	0.0164	1.76E-12	1
rs185177	5	127547810	G	А	0.74	-0.1157	0.0164	1.77E-12	1
rs1292700	1	10850045	G	Т	0.78	-0.1203	0.0171	2.00E-12	1
rs57374020	16	88847523	С	Т	0.24	-0.1259	0.0179	2.05E-12	1
rs36693	5	127548700	С	Т	0.74	-0.115	0.0164	2.29E-12	1
rs12935454	16	88721012	А	G	0.61	-0.1046	0.015	2.65E-12	1
rs3787184	20	50157837	G	А	0.17	-0.1428	0.0204	2.82E-12	0.98
rs11954193	5	158256118	G	А	0.6	-0.1037	0.0149	3.01E-12	1
rs236548	17	68231252	А	G	0.75	-0.115	0.0165	3.38E-12	0.99
rs236530	17	68217471	Т	С	0.75	-0.1154	0.0166	3.51E-12	0.98
rs236533	17	68219033	G	А	0.75	-0.1153	0.0166	3.57E-12	0.98
rs7614922	3	128238222	С	G	0.14	0.1401	0.0202	3.67E-12	1
rs10061900	5	158253542	С	Т	0.6	-0.1033	0.0149	3.83E-12	1
rs17715000	5	158259583	С	Т	0.6	-0.1033	0.0149	3.85E-12	1
rs57392066	5	158258461	Т	С	0.6	-0.1031	0.0149	4.08E-12	1
rs35168311	5	158257533	С	Т	0.6	-0.1031	0.0149	4.14E-12	1
rs36694	5	127548955	А	С	0.74	-0.1135	0.0164	4.23E-12	1
rs12926212	16	88719877	G	С	0.61	-0.1036	0.015	4.48E-12	1
rs10072741	5	158259024	С	Т	0.6	-0.1029	0.0149	4.60E-12	1
rs10070743	5	158258048	С	Т	0.6	-0.1029	0.0149	4.65E-12	1
rs17714952	5	158257153	А	G	0.6	-0.1028	0.0149	4.67E-12	1
rs1368297	5	158255046	А	Т	0.6	-0.1028	0.0149	4.69E-12	1
rs10067225	5	158257355	Т	А	0.6	-0.1028	0.0149	4.71E-12	1
rs10068867	5	158257560	G	Α	0.6	-0.1028	0.0149	4.73E-12	1
rs55779000	5	158256616	G	Α	0.6	-0.1028	0.0149	4.77E-12	1
rs9880192	3	128297569	С	G	0.41	-0.1047	0.0151	4.82E-12	0.99
rs6546370	2	68524491	G	Α	0.69	0.1127	0.0163	4.94E-12	0.99
rs11135047	5	158255975	Т	С	0.6	-0.1026	0.0149	5.05E-12	1
rs6546355	2	68353300	G	А	0.72	0.1153	0.0167	5.18E-12	1
rs10067607	5	158261475	С	Т	0.6	-0.1025	0.0149	5.61E-12	1
rs236526	17	68214336	Т	А	0.75	-0.1145	0.0166	5.71E-12	0.98
rs36700	5	127551273	G	А	0.74	-0.1128	0.0164	5.88E-12	1

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n19982 5 158254904 A C 0.6 -0.102 0.0149 6.851-12 re073575 3 128394555 A G 0.5 -0.1017 0.0148 7.387-12 0. rs1121617 1 10842021 G A 0.26 -0.1174 0.0148 7.387-12 0. rs12006 5 127550659 A C 0.74 -0.1117 0.0164 1.001-11 0. rs76712 5 127550659 A C 0.51 -0.0996 0.0147 1.288-11 0. rs76717 20 50158275 A C 0.74 -0.1107 0.0164 1.328-11 0. rs021277 20 50158673 T C 0.74 -0.107 0.0164 1.358-11 0. rs021277 20 50158673 T C 0.74 -0.1013 0.0164 1.368-11 0. rs236564 17 683877957 A	rs36697	5	127549613	G	А	0.74	-0.1127	0.0164	6.08E-12	1
nds27 5 1275052 G T 0.74 0.1124 0.0164 6.99F-12 cr371357 3 12850535 A G 0.1017 0.0148 7.38F-12 0. rs11121617 1 10842021 G A 0.26 -0.1174 0.0164 9.92E-12 0.1175 0.0164 1.00E-11 0.0164 1.00E-11 0.0164 1.00E-11 0.0164 1.00E-11 0.0164 1.00E-11 0.0164 1.23E-11 0.0175 0.5155353 1.2756059 A C 0.013 -0.1566 0.0221 1.23E-11 0.0175 0.0144 1.33E-11 0.0175 0.0148 1.33E-11 0.0175 0.0141 1.33E-11 0.0175 0.0163 1.2155-11 0.0164 1.24E-11 0.0175 0.0163 1.0155 0.0221 2.01E-11	rs36698	5	127549749	А	Т	0.74	-0.1125	0.0164	6.63E-12	1
nc271375 3 122294355 A G 0.5 -0.107 0.0148 7.38E-12 0. ns1121617 1 10842021 G A 0.74 -0.1117 0.0164 9.42E-12 ns45916 5 127560659 A C 0.74 -0.1117 0.0164 1.00E-11 0. ns4712 5 127550833 C G 0.74 -0.1117 0.0164 1.01E-11 0. ns4711 5 127559833 T C 0.46 0.0996 0.0148 1.36E-11 0. ns602127 20 5056873 T C 0.46 0.0998 0.0148 1.36E-11 0. ns602127 20 5056873 T C 0.47 -0.1013 0.0156 1.69E-11 0. ns602127 20 5055873 A G 0.74 -0.1010 0.0164 1.29E-11 0. ns4782413 16 88303500 C	rs11949842	5	158254804	А	С	0.6	-0.102	0.0149	6.85E-12	1
n1121017 1 1044021 G A 0.26 01174 0.0172 8.257-12 1s132906 5 12751840 C 0.74 -0.1116 0.0164 1.00E-11 0.0 1s3711 5 12751013 C G 0.74 -0.1117 0.0164 1.00E-11 0.0 1s1616394 16 88812279 A C 0.13 -0.0566 0.0231 1.29E-11 0.0 n36711 5 127559833 T C 0.44 -0.1107 0.0164 1.32E-11 r6021277 20 50156873 T C 0.46 0.0998 0.0148 1.36E-11 0.0 r81306290 16 88803500 C G 0.13 -0.1552 0.0231 1.91E-11 0.0 r4782043 16 88803500 C G 0.13 -0.1553 0.0323 2.01E-11 r536705 5 127555698 A C 0.74 -0.1095	rs40527	5	127550252	G	Т	0.74	-0.1124	0.0164	6.99E-12	1
is152006 5 127551840 C T 0.74 -0.117 0.0164 9.42E-12 rs42916 5 127560659 A C 0.74 -0.1117 0.0164 1.01E-11 0.0151 rs56712 5 125261133 C G 0.74 -0.1117 0.0164 1.01E-11 0.0151 rs11646394 16 8881279 A C 0.51 -0.0996 0.0147 1.28E-11 0.0156 rs6021277 20 0.0156873 T C 0.74 -0.1018 0.0165 1.68E-11 0.0 rs623654 17 68277256 T G 0.75 -0.1018 0.0164 1.98E-11 0.0 rs73656 5 15826402 G A G 0.74 -0.109 0.0164 1.98E-11 0.0 rs747049 16 88803500 C G 0.74 -0.109 0.0164 2.28E-11 0.0 rs75706 5 12755498 A G 0.13 -0.1553 0.0164 2.28E-11 0.0	rs2713575	3	128294355	А	G	0.5	-0.1017	0.0148	7.38E-12	0.98
n-2916S12756059AC0.74-0.1160.01641.00E-110.0n367125122561133CG0.74-0.1170.01641.01E-110.n166394168881279AC0.13-0.15660.02311.28E-110.n587115127559333TC0.44-0.1170.01641.32E-110.n5807168881279AG0.47-0.1180.01651.66E-110.n530701688871797AG0.75-0.11130.01651.69E-110.n4782409168880500CG0.13-0.15520.22111.99E-110.n4782409168880500CG0.13-0.15520.02111.94E-110.n57050512755648AC0.74-0.10990.01641.94E-110.n57070512755444GA0.74-0.10950.01632.01E-110.n570715127552590AG0.74-0.10960.01642.32E-110.n57072512755444GA0.74-0.10960.01642.32E-110.n571715512756231AG0.74-0.10960.01642.32E-110.n56714512756238AG0.74-0.10960.01642.32E-110.n567135	rs11121617	1	10842021	G	А	0.26	-0.1174	0.0172	8.25E-12	1
nsh712 5 1275(113) C G 0.74 -0.1117 0.0164 1.01E-11 0.017 ns1715065 5 158261163 T C 0.51 -0.0996 0.0147 1.28E-11 0.0184 ns16602127 20 0.515873 T C 0.74 0.0164 0.0231 1.29E-11 0.0 ns302366 16 8871797 A G 0.37 -0.1048 0.0165 1.65E-11 0.0 ns30564 17 68237256 T G 0.37 -0.1048 0.0165 1.65E-11 0.0 ns36706 5 1285864020 G A 0.6 -0.1011 0.0164 1.94E-11 0.0 ns4782409 16 8880170 A G 0.13 -0.1553 0.0232 2.01E-11 0.0 ns47056 5 12755509 A G 0.74 -0.1096 0.0164 2.32E-11 0.0 ns36705 5 127552446 G A 0.74 -0.1095 0.0164 2.32E-11 0.0	rs152906	5	127551840	С	Т	0.74	-0.1117	0.0164	9.42E-12	1
in 1715065 5 158261163 T C 0.51 -0.0996 0.0147 1.28E-11 rs1166394 16 8812279 A C 0.13 -0.1566 0.0231 1.29E-11 0. rs6711 5 127559833 T C 0.74 -0.107 0.0164 1.32E-11 0. rs6721 20 50156873 T C 0.46 0.0998 0.0148 1.36E-11 0.0 rs13306296 16 683717957 A G 0.37 -0.113 0.0165 1.65E-11 0.0 rs74704968 5 158264020 G A 0.6 -0.101 0.0149 1.86E-11 0.0 rs74782413 16 8880170 A G 0.13 -0.1553 0.0232 2.01E-11 0.0 rs74782413 16 8880176 A G 0.74 -0.1095 0.0164 2.22E-11 0.0 rs747824647 5 12755446	rs42916	5	127560659	А	С	0.74	-0.1116	0.0164	1.00E-11	0.99
is 1164394 16 88812279 A C 0.13 -0.1566 0.0231 1.22E-11 0. rs36711 5 127559833 T C 0.74 -0.1107 0.0164 1.32E-11 0. rs6021277 20 05156873 T C 0.46 0.0998 0.0148 1.36E-11 0. rs33654 17 68217256 T G 0.75 -0.1113 0.0165 1.69E-11 0. rs4704968 5 158264020 G A 0.6 -0.1001 0.0149 1.86E-11 0. rs47782413 16 88803500 C G 0.13 -0.153 0.0232 2.01E-11 1. rs36706 5 12755498 A G 0.74 -0.1096 0.0164 2.21E-11 1. rs36701 5 12755448 G A 0.74 -0.1096 0.0164 2.32E-11 0. rs36714 5 127552331	rs36712	5	127561133	С	G	0.74	-0.1117	0.0164	1.01E-11	0.99
rs36711 5 127559833 T C 0.74 -0.107 0.0164 1.32E-11 rs6021277 20 50156873 T C 0.46 0.0998 0.0148 1.36E-11 0. rs1300296 16 68717957 A G 0.37 -0.1013 0.0165 1.65E-11 0. rs326564 17 68237256 T G 0.75 -0.1113 0.0165 1.69E-11 0. rs4704968 5 158264020 G A C 0.74 -0.1099 0.0164 1.94E-11 0. rs4782413 16 8880170 A G 0.74 -0.1095 0.0164 2.01E-11 rs36705 5 12755446 G A 0.74 -0.1096 0.0164 2.21E-11 rs36710 5 12755237 A T 0.74 -0.1098 0.0164 2.39E-11 0. rs36716 5 127552585 A G	rs17715065	5	158261163	Т	С	0.51	-0.0996	0.0147	1.28E-11	1
rs6021277 20 50168873 T C 0.46 0.0998 0.0148 1.36E-11 0. rs13306296 16 88717957 A G 0.37 -0.1048 0.0156 1.65E-11 0. rs236564 17 68237256 T G 0.75 -0.1013 0.0165 1.65E-11 0. rs4782409 16 88803500 C G 0.13 -0.1553 0.0231 1.91E-11 0. rs4782403 16 88803700 C 0.74 -0.1099 0.0164 1.94E-11 0. rs4782413 16 8880170 A G 0.74 -0.1096 0.0164 2.216E-11 0. rs36705 5 127552466 G A 0.74 -0.1096 0.0164 2.22E-11 0. rs36714 5 12755233 A T 0.74 -0.1098 0.0164 2.39E-11 0. rs36715 5 12755239 T<	rs11646394	16	88812279	А	С	0.13	-0.1566	0.0231	1.29E-11	0.99
is13306296 16 8877957 A G 0.37 -0.1048 0.0156 1.65E-11 0. rs23664 17 68237256 T G 0.75 -0.1113 0.0165 1.69E-11 0. rs470496 5 15826402 G A 0.6 -0.1001 0.0149 1.86E-11 0. rs4782409 16 8880170 C G 0.13 -0.1552 0.0231 1.91E-11 0. rs4782413 16 8880170 A G 0.13 -0.1553 0.0232 2.01E-11 0. rs4782413 16 8880170 A G 0.74 -0.1095 0.0163 2.01E-11 0. rs4762413 5 127552590 A G 0.74 -0.1096 0.0164 2.32E-11 0. rs36710 5 127552723 A T 0.46 0.0985 0.0147 2.42E-11 0. rs36718 20 S0156198 A T 0.46 0.0985 0.0144 2.37E-11 0. <	rs36711	5	127559833	Т	С	0.74	-0.1107	0.0164	1.32E-11	1
rs236564 17 68237256 T G 0.75 -0.1113 0.0165 1.69E-11 0. rs4704968 5 158264020 G A 0.6 -0.101 0.0149 1.86E-11 0. rs4782409 16 88803500 C G 0.13 -0.1552 0.0231 1.91E-11 0. rs36706 5 127556698 A C 0.74 -0.1099 0.0164 1.94E-11 rs36705 5 127559444 G A 0.74 -0.1096 0.0164 2.21E-11 rs36710 5 127559444 G A 0.74 -0.1096 0.0164 2.32E-11 0. rs36714 5 127552331 G A 0.74 -0.1098 0.0164 2.32E-11 0. rs36715 5 12756280 A G 0.74 -0.1098 0.0164 2.32E-11 0. rs36715 5 12756280 A G	rs6021277	20	50156873	Т	С	0.46	0.0998	0.0148	1.36E-11	0.99
rs4704968 5 15824020 G A 0.6 -0.101 0.0149 1.86E-11 rs4782409 16 88803500 C G 0.13 -0.1552 0.0231 1.91E-11 0. rs47606 5 127556989 A C 0.74 -0.1099 0.0163 2.01E-11 rs476417 5 127552590 A G 0.74 -0.1095 0.0163 2.01E-11 rs36705 5 127559444 G A 0.74 -0.1095 0.0164 2.22E-11 rs36710 5 12755231 G A 0.74 -0.1098 0.0164 2.32E-11 0. rs36714 5 12755233 G A 0.74 -0.1098 0.0164 2.39E-11 0. rs36714 5 12755280 A G 0.74 -0.1096 0.0164 2.39E-11 0. rs36715 5 12755280 A G 0.73 -0.1093	rs13306296	16	88717957	А	G	0.37	-0.1048	0.0156	1.65E-11	0.98
rs4782409 16 88803500 C G 0.13 -0.1552 0.0231 1.91E-11 0. rs36706 5 12755698 A C 0.74 -0.1099 0.0164 1.94E-11 rs35706 5 127552590 A G 0.74 -0.1095 0.0163 2.01E-11 rs35705 5 127554486 G A 0.74 -0.1095 0.0164 2.20E-11 rs36702 5 127552723 A T 0.74 -0.1094 0.0164 2.32E-11 rs36714 5 12755273 A T 0.46 0.0985 0.0147 2.42E-11 rs36714 5 127562880 A G 0.74 -0.1096 0.0164 2.39E-11 0.0 rs36715 5 127562880 A G 0.74 -0.1096 0.0164 2.9E-11 0.0 rs36715 5 127562880 A G 0.74 -0.1086 0.0163<	rs236564	17	68237256	Т	G	0.75	-0.1113	0.0165	1.69E-11	0.99
rs36706 5 127556698 A C 0.74 -0.1099 0.0164 1.94E-11 rs4782413 16 88801770 A G 0.13 -0.1553 0.0222 2.01E-11 rs2546147 5 12755590 A G 0.74 -0.1095 0.0164 2.01E-11 rs36700 5 12755944 G A 0.74 -0.1096 0.0164 2.22E-11 rs36710 5 127552723 A T 0.74 -0.1094 0.0164 2.32E-11 0. rs36714 5 12756231 G A 0.74 -0.1094 0.0164 2.39E-11 0. rs36715 5 127562880 A G 0.74 -0.1096 0.0164 2.39E-11 0. rs36715 5 12755289 A G 0.74 -0.1086 0.0163 2.93E-11 0. rs2617611 5 127552529 T C 0.76 -0.1122 <td>rs4704968</td> <td>5</td> <td>158264020</td> <td>G</td> <td>А</td> <td>0.6</td> <td>-0.1001</td> <td>0.0149</td> <td>1.86E-11</td> <td>1</td>	rs4704968	5	158264020	G	А	0.6	-0.1001	0.0149	1.86E-11	1
rs4782413 16 88801770 A G 0.13 -0.1553 0.0232 2.01E-11 rs2540147 5 12755280 A G 0.74 -0.1095 0.0163 2.01E-11 rs36705 5 127554446 G A 0.74 -0.1095 0.0164 2.22E-11 rs36702 5 12755213 A T 0.74 -0.1094 0.0164 2.32E-11 rs36714 5 12755231 G A 0.74 -0.1096 0.0164 2.32E-11 0. rs36715 5 127562810 A T 0.46 0.0985 0.0147 2.42E-11 0. rs36715 5 12756280 A G 0.74 -0.1096 0.0164 2.57E-11 0. rs36701 5 12755289 T C 0.76 -0.1122 0.0169 2.96E-11 0. rs236567 17 68216128 C A 0.77 -0.1093	rs4782409	16	88803500	С	G	0.13	-0.1552	0.0231	1.91E-11	0.99
rs2546147 5 127552590 A G 0.74 -0.1095 0.0163 2.01E-11 rs36705 5 127554486 G A 0.74 -0.1095 0.0164 2.16E-11 rs36710 5 127552723 A T 0.74 -0.1095 0.0164 2.22E-11 rs36714 5 127552723 A T 0.74 -0.1098 0.0164 2.32E-11 0.017 rs36714 5 12755280 A G 0.74 -0.1098 0.0164 2.37E-11 0.0 rs36715 5 12755280 A G 0.73 -0.1086 0.0163 2.93E-11 0.0 rs367815 16 88800176 T G 0.73 -0.1086 0.0163 2.93E-11 0.0 rs36701 5 12755289 T C 0.76 -0.1122 0.0169 2.96E-11 0.75 rs36701 5 12755289 A G 0.74 -0.1086 0.0163 3.81E-11 0.0 rs36733 5	rs36706	5	127556698	А	С	0.74	-0.1099	0.0164	1.94E-11	1
rs36705 5 127554486 G A 0.74 -0.1096 0.0164 2.16E-11 rs36710 5 127559444 G A 0.74 -0.1095 0.0164 2.22E-11 rs36702 5 127552723 A T 0.74 -0.1098 0.0164 2.32E-11 0. rs36714 5 127552723 A T 0.46 0.0985 0.0164 2.39E-11 0. rs36715 5 127562880 A G 0.74 -0.1096 0.0164 2.57E-11 0. rs638538 17 68216128 C A 0.73 -0.1086 0.0163 2.93E-11 0. rs638538 17 68216128 C A 0.75 -0.1086 0.0163 3.08E-11 0. rs26761 17 68242546 G A 0.75 -0.1093 0.0165 3.81E-11 0. rs1427933 5 15184710 G C	rs4782413	16	88801770	А	G	0.13	-0.1553	0.0232	2.01E-11	1
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	rs2546147	5	127552590	А	G	0.74	-0.1095	0.0163	2.01E-11	1
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	rs36705	5	127554486	G	А	0.74	-0.1096	0.0164	2.16E-11	1
rs36714 5 127562531 G A 0.74 -0.1098 0.0164 2.39E-11 0. rs3787185 20 50156198 A T 0.46 0.0985 0.0147 2.42E-11 1 rs36715 5 127562880 A G 0.74 -0.1096 0.0164 2.57E-11 0. rs36714 5 12755280 A G 0.73 -0.1086 0.0163 2.93E-11 0. rs36701 5 127552529 T C 0.76 -0.1122 0.0169 2.96E-11 0. rs2617613 5 12755259 A G 0.74 -0.1086 0.0163 3.08E-11 0. rs26567 17 68242546 G A 0.75 -0.1093 0.0165 3.81E-11 0. rs1427933 5 158184710 G C 0.37 0.0993 0.015 3.94E-11 0. rs16424443 16 88807608	rs36710	5	127559444	G	А	0.74	-0.1095	0.0164	2.22E-11	1
rs3787185 20 50156198 A T 0.46 0.0985 0.0147 2.42E-11 rs36715 5 127562880 A G 0.74 -0.1096 0.0164 2.57E-11 0. rs1649478 16 88800176 T G 0.13 -0.1543 0.0232 2.76E-11 0. rs36701 5 127552529 T C 0.76 -0.1026 0.0163 2.93E-11 0. rs2617613 5 127552589 A G 0.74 -0.1086 0.0163 3.08E-11 0. rs236567 17 68242546 G A 0.75 -0.1093 0.0165 3.81E-11 0. rs427933 5 158184710 G C 0.37 0.0993 0.015 3.94E-11 0. rs152728 1 10859513 G A 0.77 -0.1091 0.0166 4.97E-11 0. rs3163 5 12820492 G	rs36702	5	127552723	А	Т	0.74	-0.1094	0.0164	2.32E-11	1
rs36715 5 127562880 A G 0.74 -0.1096 0.0164 2.57E-11 0. rs11649478 16 88800176 T G 0.13 -0.1543 0.0232 2.76E-11 0. rs638538 17 68216128 C A 0.73 -0.1086 0.0163 2.93E-11 0. rs6385701 5 12755259 T C 0.76 -0.1122 0.0163 3.08E-11 0. rs2617613 5 12755259 A G 0.74 -0.1086 0.0163 3.08E-11 0. rs26567 17 68242546 G A 0.75 -0.1093 0.0165 3.81E-11 0. rs1427933 5 158184710 G C 0.37 0.0993 0.015 3.94E-11 0. rs1152728 1 10859513 G A 0.17 -0.1349 0.0205 5.10E-11 0. rs3163 5 127561432 <td>rs36714</td> <td>5</td> <td>127562531</td> <td>G</td> <td>А</td> <td>0.74</td> <td>-0.1098</td> <td>0.0164</td> <td>2.39E-11</td> <td>0.99</td>	rs36714	5	127562531	G	А	0.74	-0.1098	0.0164	2.39E-11	0.99
rs11649478 16 88800176 T G 0.13 -0.1543 0.0232 2.76E-11 0. rs638538 17 68216128 C A 0.73 -0.1086 0.0163 2.93E-11 0. rs36701 5 127552529 T C 0.76 -0.1122 0.0169 2.96E-11 0. rs26567 17 68242546 G A 0.77 -0.1086 0.0163 3.08E-11 0. rs1427933 5 158184710 G C 0.37 0.0993 0.015 3.94E-11 0. rs1152728 1 10859513 G A 0.71 -0.1091 0.0166 4.97E-11 0. rs1164443 16 8880872 A G 0.17 -0.1349 0.0205 5.10E-11 0. rs31863 5 158220492 G A 0.31 0.0166 6.32E-11 0. rs3790156 5 127561432 G	rs3787185	20	50156198	А	Т	0.46	0.0985	0.0147	2.42E-11	1
rs638538 17 68216128 C A 0.73 -0.1086 0.0163 2.93E-11 0. rs36701 5 127552529 T C 0.76 -0.1122 0.0169 2.96E-11 1 rs2617613 5 127552589 A G 0.74 -0.1086 0.0163 3.08E-11 0. rs236567 17 68242546 G A 0.75 -0.1093 0.0165 3.81E-11 0. rs1427933 5 158184710 G C 0.37 0.0993 0.015 3.94E-11 0. rs750739 16 8807608 G A 0.17 -0.1352 0.0205 5.10E-11 0. rs1152728 1 10859513 G A 0.71 -0.1349 0.0205 5.10E-11 0. rs31663 5 158220492 G A 0.31 0.1023 0.0156 5.47E-11 0. rs32028667 2 68809748 G A 0.65 0.1022 0.0156 6.35E-11 0. <	rs36715	5	127562880	А	G	0.74	-0.1096	0.0164	2.57E-11	0.99
rs36701 5 12755259 T C 0.76 -0.1122 0.0169 2.96E-11 rs2617613 5 127552589 A G 0.74 -0.1086 0.0163 3.08E-11 0. rs236567 17 68242546 G A 0.75 -0.1093 0.0165 3.81E-11 0. rs1427933 5 158184710 G C 0.37 0.0993 0.015 3.94E-11 0. rs15750739 16 88807608 G A 0.71 -0.1091 0.0166 4.97E-11 0. rs1152728 1 10859513 G A 0.71 -0.1091 0.0166 4.97E-11 0. rs31863 5 15820492 G A 0.31 0.1023 0.0156 5.47E-11 0. rs2028667 2 68509748 G A 0.65 0.1022 0.0156 6.35E-11 0. rs50158123 16 88797110 G <td>rs11649478</td> <td>16</td> <td>88800176</td> <td>Т</td> <td>G</td> <td>0.13</td> <td>-0.1543</td> <td>0.0232</td> <td>2.76E-11</td> <td>0.99</td>	rs11649478	16	88800176	Т	G	0.13	-0.1543	0.0232	2.76E-11	0.99
rs2617613 5 127552589 A G 0.74 -0.1086 0.0163 3.08E-11 0. rs236567 17 68242546 G A 0.75 -0.1093 0.0165 3.81E-11 0. rs1427933 5 158184710 G C 0.37 0.0993 0.015 3.94E-11 0. rs750739 16 88807608 G A 0.17 -0.1352 0.0205 4.52E-11 0. rs1152728 1 10859513 G A 0.71 -0.1091 0.0166 4.97E-11 0. rs11644433 16 8880872 A G 0.17 -0.1349 0.0205 5.10E-11 0. rs31863 5 158220492 G A 0.31 0.1023 0.0156 5.47E-11 0. rs2028667 2 68509748 G A 0.65 0.1022 0.0156 6.35E-11 0. rs50158123 16 88797110<	rs638538	17	68216128	С	А	0.73	-0.1086	0.0163	2.93E-11	0.98
rs236567 17 68242546 G A 0.75 -0.1093 0.0165 3.81E-11 0. rs1427933 5 158184710 G C 0.37 0.0993 0.015 3.94E-11 1. rs750739 16 88807608 G A 0.17 -0.1352 0.0205 4.52E-11 0. rs1152728 1 10859513 G A 0.71 -0.1091 0.0166 4.97E-11 0. rs11644443 16 88808872 A G 0.17 -0.1349 0.0205 5.10E-11 0. rs31863 5 127561432 G A 0.77 -0.1109 0.0169 6.02E-11 0. rs2028667 2 68509748 G A 0.65 0.1022 0.0156 6.35E-11 0. rs51518123 16 88797110 G C 0.25 -0.1145 0.0175 6.62E-11 0. rs251217 5 127491565 A G 0.25 -0.1145 0.0175 6.62E-11 0.	rs36701		127552529	Т	С	0.76	-0.1122	0.0169	2.96E-11	1
rs1427933 5 158184710 G C 0.37 0.0993 0.015 3.94E-11 rs750739 16 88807608 G A 0.17 -0.1352 0.0205 4.52E-11 rs1152728 1 10859513 G A 0.71 -0.1091 0.0166 4.97E-11 0. rs11644433 16 8880872 A G 0.17 -0.1349 0.0205 5.10E-11 0. rs31863 5 158220492 G A 0.31 0.1023 0.0156 5.47E-11 0. rs306713 5 127561432 G A 0.65 0.1022 0.0156 6.35E-11 0. rs2028667 2 68509748 G A 0.65 0.1022 0.0156 6.35E-11 0. rs56158123 16 88797110 G C 0.25 -0.1145 0.0175 6.62E-11 0. rs251217 5 127512064 G A	rs2617613	5	127552589	А	G	0.74	-0.1086	0.0163	3.08E-11	1
rs7507391688807608GA0.17-0.13520.02054.52E-11rs1152728110859513GA0.71-0.10910.01664.97E-110.rs11644431688808872AG0.17-0.13490.02055.10E-11rs318635158220492GA0.310.10230.01565.47E-11rs367135127561432GA0.77-0.11090.01696.02E-110.rs2028667268509748GA0.650.10220.01566.35E-110.rs7901565127491565AG0.55-0.09620.01476.54E-110.rs2512175127512064GA0.54-0.09620.01476.79E-110.rs16461931688797307AG0.25-0.11420.01757.17E-110.rs731079801248187601TC0.240.10960.01687.61E-110.rs23409811688797471CT0.25-0.1140.01757.73E-110.	rs236567	17	68242546			0.75			3.81E-11	0.99
rs1152728110859513GA0.71-0.10910.01664.97E-110.0rs11644431688808872AG0.17-0.13490.02055.10E-11rs318635158220492GA0.310.10230.01565.47E-11rs367135127561432GA0.77-0.11090.01696.02E-110.0rs2028667268509748GA0.650.10220.01566.35E-110.0rs7901565127491565AG0.55-0.09620.01476.54E-110.0rs561581231688797110GC0.25-0.11450.01756.62E-110.0rs2512175127512064GA0.54-0.09620.01476.79E-110.0rs7116461931688797307AG0.25-0.11420.01757.17E-110.0rs731079801248187601TC0.240.10960.01687.61E-110.0rs23409811688797471CT0.25-0.1140.01757.73E-110.0	rs1427933	5	158184710	G	С	0.37	0.0993	0.015	3.94E-11	1
rs11644431688808872AG0.17-0.13490.02055.10E-11rs318635158220492GA0.310.10230.01565.47E-11rs367135127561432GA0.77-0.11090.01696.02E-110.rs2028667268509748GA0.650.10220.01566.35E-110.rs7901565127491565AG0.55-0.09620.01476.54E-110.rs561581231688797110GC0.25-0.11450.01756.62E-110.rs2512175127512064GA0.54-0.09620.01476.79E-110.rs116461931688797307AG0.25-0.11420.01757.17E-110.rs731079801248187601TC0.240.10960.01687.61E-110.rs23409811688797471CT0.25-0.1140.01757.73E-110.	rs750739	16	88807608		А	0.17	-0.1352	0.0205	4.52E-11	1
rs318635158220492GA0.310.10230.01565.47E-11rs367135127561432GA0.77-0.11090.01696.02E-110.rs2028667268509748GA0.650.10220.01566.35E-110.rs7901565127491565AG0.55-0.09620.01476.54E-110.rs561581231688797110GC0.25-0.11450.01756.62E-110.rs2512175127512064GA0.54-0.09620.01476.79E-110.rs116461931688797307AG0.25-0.11420.01757.17E-110.rs731079801248187601TC0.240.10960.01687.61E-110.rs23409811688797471CT0.25-0.1140.01757.73E-110.	rs1152728	1		G	А	0.71		0.0166	4.97E-11	0.92
rs36713 5 127561432 G A 0.77 -0.1109 0.0169 6.02E-11 0. rs2028667 2 68509748 G A 0.65 0.1022 0.0156 6.35E-11 0. rs790156 5 127491565 A G 0.55 -0.0962 0.0147 6.54E-11 0. rs56158123 16 88797110 G C 0.25 -0.1145 0.0175 6.62E-11 0. rs251217 5 127512064 G A 0.54 -0.0962 0.0147 6.79E-11 0. rs11646193 16 88797307 A G 0.25 -0.1142 0.0175 7.17E-11 0. rs73107980 12 48187601 T C 0.24 0.1096 0.0168 7.61E-11 0. rs2340981 16 88797471 C T 0.25 -0.114 0.0175 7.73E-11 0.	rs11644443	16	88808872	А	G		-0.1349	0.0205	5.10E-11	1
rs2028667 2 68509748 G A 0.65 0.1022 0.0156 6.35E-11 rs790156 5 127491565 A G 0.55 -0.0962 0.0147 6.54E-11 0. rs56158123 16 88797110 G C 0.25 -0.1145 0.0175 6.62E-11 0. rs251217 5 127512064 G A 0.54 -0.0962 0.0147 6.79E-11 0. rs11646193 16 88797307 A G 0.25 -0.1142 0.0175 7.17E-11 0. rs73107980 12 48187601 T C 0.24 0.1096 0.0168 7.61E-11 0. rs2340981 16 88797471 C T 0.25 -0.114 0.0175 7.73E-11 0.	rs31863	5	158220492	G	А	0.31	0.1023	0.0156	5.47E-11	1
rs7901565127491565AG0.55-0.09620.01476.54E-110.rs561581231688797110GC0.25-0.11450.01756.62E-110.rs2512175127512064GA0.54-0.09620.01476.79E-110.rs116461931688797307AG0.25-0.11420.01757.17E-110.rs731079801248187601TC0.240.10960.01687.61E-110.rs23409811688797471CT0.25-0.1140.01757.73E-110.	rs36713	5	127561432		А	0.77	-0.1109	0.0169	6.02E-11	0.99
rs56158123 16 88797110 G C 0.25 -0.1145 0.0175 6.62E-11 0. rs251217 5 127512064 G A 0.54 -0.0962 0.0147 6.79E-11 0. rs11646193 16 88797307 A G 0.25 -0.1142 0.0175 7.17E-11 0. rs73107980 12 48187601 T C 0.24 0.1096 0.0168 7.61E-11 0. rs2340981 16 88797471 C T 0.25 -0.114 0.0175 7.73E-11 0.	rs2028667	2	68509748	G	А	0.65		0.0156	6.35E-11	1
rs2512175127512064GA0.54-0.09620.01476.79E-110.rs116461931688797307AG0.25-0.11420.01757.17E-110.rs731079801248187601TC0.240.10960.01687.61E-110.rs23409811688797471CT0.25-0.1140.01757.73E-110.	rs790156		127491565	А	G	0.55	-0.0962	0.0147	6.54E-11	1
rs116461931688797307AG0.25-0.11420.01757.17E-110.rs731079801248187601TC0.240.10960.01687.61E-110.rs23409811688797471CT0.25-0.1140.01757.73E-110.	rs56158123	16	88797110	G	С	0.25	-0.1145	0.0175	6.62E-11	0.99
rs731079801248187601TC0.240.10960.01687.61E-110.rs23409811688797471CT0.25-0.1140.01757.73E-110.	rs251217	5	127512064	G	А	0.54	-0.0962	0.0147	6.79E-11	0.99
rs2340981 16 88797471 C T 0.25 -0.114 0.0175 7.73E-11 0.	rs11646193	16	88797307	А		0.25		0.0175	7.17E-11	0.99
	rs73107980	12				0.24			7.61E-11	0.98
rs11540837 16 88770730 G A 0.33 0.1031 0.0150 7.77E.11	rs2340981	16	88797471	С	Т	0.25	-0.114	0.0175	7.73E-11	0.99
1511547657 10 6677757 G A 0.55 -0.1051 0.0157 7.77E-11	rs11549837	16	88779739	G	А	0.33	-0.1031	0.0159	7.77E-11	1

rs12102880	16	88796897	Т	G	0.25	-0.1139	0.0175	8.15E-11	0.99
rs8062812	16	88814456	Т	С	0.18	-0.1298	0.02	8.94E-11	0.99
rs2340983	16	88797628	G	А	0.25	-0.114	0.0176	9.15E-11	0.99
rs7469817	9	118296829	С	G	0.74	0.1121	0.0173	9.63E-11	1
rs112759862	16	88814210	А	G	0.17	-0.1307	0.0202	1.01E-10	0.99
rs11645303	16	88814504	А	G	0.17	-0.1308	0.0202	1.02E-10	0.99
rs77376965	16	88800477	А	G	0.14	-0.1417	0.0219	1.04E-10	1
rs550269	16	88881635	С	Т	0.85	-0.1304	0.0202	1.09E-10	0.96
rs3795239	3	128296223	С	Т	0.44	-0.0968	0.015	1.14E-10	0.98
rs34908386	16	88800913	Т	С	0.14	-0.1413	0.0219	1.19E-10	1
rs7469165	9	118296322	С	G	0.74	0.1113	0.0173	1.29E-10	1
rs55924432	4	26812737	Т	С	0.4	-0.0974	0.0152	1.40E-10	0.99
rs13325550	3	128260819	С	G	0.11	0.1421	0.0222	1.44E-10	1
rs10124673	9	118286802	Т	С	0.74	0.111	0.0173	1.46E-10	1
rs17035713	1	10840905	G	А	0.056	0.195	0.0304	1.46E-10	0.95
rs2027929	9	118297073	G	А	0.74	0.1111	0.0173	1.46E-10	1
rs78905828	16	88802573	А	G	0.14	-0.1402	0.0219	1.55E-10	1
rs6021275	20	50155124	G	А	0.46	0.094	0.0147	1.56E-10	1
rs73107993	12	48195873	Т	С	0.25	0.1061	0.0166	1.59E-10	1
rs916554	9	118288966	С	Т	0.74	0.1108	0.0173	1.60E-10	1
rs2241173	17	70028445	G	А	0.58	-0.0948	0.0148	1.62E-10	0.99
rs916555	9	118289168	А	G	0.74	0.1108	0.0173	1.62E-10	1
rs11860864	16	88802830	G	А	0.14	-0.1401	0.0219	1.65E-10	1
rs7033287	9	118287525	G	А	0.74	0.1108	0.0173	1.65E-10	1
rs36100417	16	88802511	Т	G	0.14	-0.1399	0.0219	1.66E-10	1
rs113010486	16	88798398	G	А	0.15	-0.1401	0.0219	1.69E-10	0.99
rs6478181	9	118289606	Т	G	0.74	0.1103	0.0173	1.97E-10	1
rs816943	20	62676009	G	А	0.48	-0.0943	0.0148	1.98E-10	0.99
rs55726902	12	48196982	А	G	0.24	0.1063	0.0167	2.01E-10	1
rs2001524	5	127443291	G	А	0.54	-0.0935	0.0147	2.02E-10	1
rs9922996	16	88800670	С	G	0.14	-0.1393	0.0219	2.06E-10	1
rs8079939	17	70032967	Т	G	0.57	-0.0943	0.0148	2.07E-10	0.99
rs4782412	16	88802058	G	А	0.14	-0.1391	0.0219	2.08E-10	1
rs4428270	4	26793681	С	А	0.4	-0.0963	0.0152	2.11E-10	1
rs7692829	4	26822377	А	G	0.41	-0.0962	0.0152	2.15E-10	0.99
rs79366242	16	88802167	G	С	0.14	-0.139	0.0219	2.17E-10	1
rs3744316	17	70030138	Т	С	0.58	-0.0942	0.0148	2.20E-10	0.99
rs35265318	16	88800785	Т	С	0.14	-0.139	0.0219	2.27E-10	1
rs10067555	5	127427533	С	Т	0.54	-0.0932	0.0147	2.33E-10	1
rs806100	5	127468177	С	Т	0.54	-0.0932	0.0147	2.34E-10	1
rs28667801	4	26785356	Т	А	0.41	-0.0962	0.0152	2.38E-10	0.99
rs9930994	16	88800693	Т	С	0.14	-0.1388	0.0219	2.39E-10	1
rs4782322	16	88797669	G	Т	0.15	-0.1367	0.0216	2.70E-10	0.99
rs8081315	17	70032555	А	Т	0.57	-0.0937	0.0148	2.70E-10	0.99
rs10063647	5	127371588	G	А	0.48	0.0929	0.0147	2.71E-10	1

rs6887276	5	127378294	G	С	0.48	0.0929	0.0147	2.72E-10	1
rs7856039	9	118385117	С	Т	0.67	0.1008	0.016	2.74E-10	1
rs809841	5	127460082	G	А	0.54	-0.0928	0.0147	2.79E-10	1
rs7405367	16	88814773	Т	С	0.17	-0.1296	0.0205	2.79E-10	0.97
rs10039525	5	127453720	Т	С	0.54	-0.0927	0.0147	2.92E-10	1
rs2544026	12	48186563	А	Т	0.26	0.1043	0.0166	2.99E-10	0.99
rs790153	5	127458770	G	А	0.54	-0.0926	0.0147	3.03E-10	1
rs1105315	5	127444321	G	А	0.54	-0.0926	0.0147	3.06E-10	1
rs7405368	16	88814776	Т	С	0.17	-0.1293	0.0206	3.16E-10	0.97
rs35353288	16	88800814	А	G	0.14	-0.1377	0.0219	3.20E-10	1
rs6731373	2	68503044	А	G	0.36	0.0952	0.0152	3.30E-10	1
rs13030605	2	68499651	G	А	0.27	0.1021	0.0162	3.33E-10	1
rs13031571	2	68499827	А	G	0.27	0.1021	0.0162	3.35E-10	1
rs4626681	9	118284335	Т	G	0.67	0.1003	0.016	3.41E-10	1
rs11168244	12	48202941	Т	С	0.24	0.1055	0.0168	3.49E-10	0.99
rs4979567	9	118383211	G	А	0.67	0.1002	0.016	3.49E-10	1
rs35516283	4	26806736	Т	С	0.4	-0.0947	0.0151	3.65E-10	1
rs236565	17	68237589	С	Т	0.78	-0.1091	0.0174	3.71E-10	0.97
rs9302943	17	70034189	Т	А	0.57	-0.093	0.0148	3.71E-10	0.99
rs11871949	17	70029448	Т	С	0.57	-0.0928	0.0148	3.86E-10	0.99
rs56389811	12	48205358	Т	С	0.24	0.1052	0.0168	3.92E-10	1
rs11168250	12	48209165	Т	G	0.24	0.1051	0.0168	3.93E-10	1
rs7219056	17	70031856	Т	С	0.57	-0.0928	0.0148	3.96E-10	0.99
rs7215105	17	70034963	А	G	0.57	-0.0928	0.0148	4.00E-10	0.99
rs35107212	4	26799390	G	А	0.4	-0.0947	0.0151	4.13E-10	1
rs7218051	17	70031984	А	G	0.57	-0.0927	0.0148	4.16E-10	0.99
rs776910	1	10846540	G	А	0.83	-0.1176	0.0188	4.22E-10	1
rs7216609	17	70035155	Т	С	0.57	-0.0927	0.0148	4.23E-10	0.99
rs13009759	2	68496451	А	G	0.27	0.1017	0.0163	4.33E-10	1
rs7217200	17	70035176	G	А	0.57	-0.0926	0.0148	4.34E-10	0.99
rs7662342	4	26805393	A	G	0.4	-0.0946	0.0152	4.35E-10	1
rs2058745	17	70035440	Т	C	0.57	-0.0926	0.0148	4.38E-10	0.99
rs9898839	17	70034387	G	C	0.57	-0.0926	0.0148	4.39E-10	0.99
rs8081868	17	70033466	G	C	0.57	-0.0925	0.0148	4.63E-10	0.99
rs13148360	4	26797659	A	G	0.4	-0.0945	0.0152	4.67E-10	1
rs11168252	12	48210318	А	Т	0.24	0.1046	0.0168	5.26E-10	0.99
rs2058747	17	70035396	А	G	0.57	-0.0921	0.0148	5.37E-10	0.99
rs1061247	16	88781791	С	A	0.15	-0.1317	0.0212	5.50E-10	1
rs9299230	9	118388685	C	А	0.67	0.0991	0.016	5.61E-10	1
rs61742623	16	88802748	Т	C	0.14	-0.1372	0.0221	5.61E-10	1
rs11168245	12	48204499	G	C	0.24	0.1043	0.0168	5.63E-10	1
rs112689589	12	48190269	T	C	0.23	0.1058	0.0171	5.64E-10	0.99
rs9807105	12	70028838	C	Т	0.57	-0.0919	0.0148	5.69E-10	0.99
rs11168251	12	48209663	A	G	0.24	0.1042	0.0148	5.74E-10	0.99
rs776909	12	10845821	C	A	0.82	-0.1157	0.0187	5.75E-10	0.99
13//0/07	1	100-5021	C		0.02	-0.1157	0.0107	5.751-10	0.77

rs4782321	16	88780175	А	G	0.15	-0.1329	0.0214	5.83E-10	1
rs7687234	4	26808829	Т	С	0.4	-0.0938	0.0152	5.97E-10	1
rs776907	1	10845538	А	Т	0.82	-0.1155	0.0187	5.99E-10	0.99
rs6478197	9	118391057	С	Т	0.67	0.0989	0.016	6.03E-10	1
rs4979570	9	118392208	С	Т	0.67	0.0988	0.016	6.14E-10	1
rs12994861	2	68494223	Т	С	0.27	0.1006	0.0163	6.36E-10	1
rs78579285	16	88813060	Т	С	0.18	-0.1215	0.0197	6.51E-10	1
rs759495	17	70027021	С	Т	0.57	-0.0916	0.0148	6.53E-10	0.99
rs2734047	3	128292844	G	А	0.63	0.0961	0.0156	6.62E-10	0.98
rs4978645	9	118389134	С	Т	0.67	0.0986	0.016	6.68E-10	1
rs236569	17	68222505	G	С	0.71	-0.0984	0.0159	6.70E-10	0.99
rs11549835	16	88781073	А	G	0.15	-0.1319	0.0214	6.71E-10	1
rs776908	1	10845785	G	А	0.82	-0.1151	0.0187	6.92E-10	0.99
rs766406	6	26319588	Т	G	0.63	-0.0928	0.0151	7.34E-10	1
rs4782320	16	88779865	А	G	0.15	-0.1315	0.0214	8.07E-10	1
rs74033390	16	88812708	G	А	0.19	-0.1196	0.0195	8.17E-10	1
rs12328417	2	68482210	Т	С	0.27	0.1	0.0163	8.21E-10	1
rs236527	17	68215574	С	G	0.7	-0.098	0.016	8.66E-10	0.98
rs13035506	2	68477609	С	G	0.27	0.0996	0.0163	9.34E-10	1
rs13004394	2	68476547	С	Т	0.27	0.0996	0.0163	9.47E-10	1
rs4782399	16	88812682	G	С	0.19	-0.1191	0.0195	9.68E-10	1
rs875023	12	48194435	Т	С	0.23	0.1039	0.017	9.77E-10	1
rs2279258	16	88724347	Т	G	0.65	-0.0942	0.0154	9.78E-10	0.98
rs111504162	16	88864897	А	G	0.14	-0.1404	0.023	9.97E-10	0.96
rs13013780	2	68472510	С	Т	0.27	0.0994	0.0163	1.02E-09	1
rs12473051	2	68461258	С	G	0.27	0.0994	0.0163	1.02E-09	1
rs74033387	16	88811725	Т	С	0.19	-0.1188	0.0195	1.03E-09	1
rs6731036	2	68437945	G	С	0.27	0.0995	0.0163	1.04E-09	1
rs4671885	2	68468112	С	G	0.27	0.0993	0.0163	1.05E-09	1
rs4671886	2	68468297	С	Т	0.27	0.0993	0.0163	1.05E-09	1
rs13028330	2	68446669	Т	С	0.27	0.0994	0.0163	1.07E-09	1
rs12997705	2	68462002	Т	А	0.27	0.0993	0.0163	1.08E-09	1
rs1443650	2	68466387	А	Т	0.27	0.0992	0.0163	1.09E-09	1
rs1443649	2	68466618	С	Т	0.27	0.0992	0.0163	1.10E-09	1
rs4671879	2	68422897	G	Т	0.27	0.0992	0.0163	1.14E-09	1
rs4671883	2	68441559	Т	С	0.27	0.0993	0.0163	1.14E-09	1
rs12995659	2	68373142	Т	С	0.27	0.0991	0.0163	1.14E-09	1
rs13013416	2	68465085	С	Т	0.27	0.099	0.0163	1.17E-09	1
rs77276646	16	88977193	А	G	0.18	-0.1231	0.0202	1.19E-09	0.96
rs1061238	16	88781850	Т	С	0.15	-0.13	0.0214	1.20E-09	1
rs6546359	2	68418078	G	С	0.27	0.0991	0.0163	1.21E-09	1
rs13003609	2	68423221	С	Т	0.27	0.099	0.0163	1.24E-09	1
rs7595076	2	68376253	Т	G	0.27	0.0988	0.0163	1.25E-09	1
rs10817804	9	118387316	А	С	0.66	0.096	0.0158	1.25E-09	1
rs35636878	2	68420423	G	Т	0.27	0.099	0.0163	1.25E-09	1

rs7577500	2	68431296	Т	С	0.27	0.099	0.0163	1.26E-09	1
rs6750215	2	68433129	С	Т	0.27	0.099	0.0163	1.27E-09	1
rs4467549	4	26819519	А	G	0.4	-0.0923	0.0152	1.27E-09	0.99
rs7566066	2	68425049	G	Т	0.27	0.0989	0.0163	1.29E-09	1
rs13004407	2	68402652	Т	С	0.27	0.0989	0.0163	1.31E-09	1
rs7608984	2	68441258	С	Т	0.27	0.0989	0.0163	1.33E-09	1
rs6760646	2	68416529	С	Т	0.27	0.0988	0.0163	1.33E-09	1
rs12468156	2	68409670	G	А	0.27	0.0988	0.0163	1.34E-09	1
rs13003580	2	68402360	G	А	0.27	0.0988	0.0163	1.34E-09	1
rs3999543	6	26259807	А	G	0.29	-0.1015	0.0168	1.36E-09	0.98
rs12994570	2	68413348	Т	G	0.27	0.0988	0.0163	1.36E-09	1
rs13029910	2	68434345	С	А	0.27	0.0987	0.0163	1.42E-09	1
rs35645227	2	68382038	А	G	0.27	0.0985	0.0163	1.44E-09	1
rs113385327	16	88785242	С	А	0.15	-0.1289	0.0213	1.45E-09	1
rs13027276	2	68453291	А	G	0.27	0.0986	0.0163	1.47E-09	1
rs79311053	16	88785206	Т	С	0.15	-0.1288	0.0213	1.50E-09	1
rs10759810	9	118385164	G	Т	0.66	0.0956	0.0158	1.52E-09	1
rs6935954	6	26255451	G	А	0.58	-0.0892	0.0148	1.57E-09	1
rs7606087	2	68389919	Т	С	0.27	0.0982	0.0163	1.57E-09	1
rs1061539	6	29937555	С	Т	0.83	-0.1132	0.0188	1.59E-09	1
rs17543640	5	158305076	А	Т	0.39	-0.092	0.0152	1.61E-09	1
rs4671875	2	68381136	G	С	0.27	0.0982	0.0163	1.61E-09	1
rs4671880	2	68428016	С	Т	0.27	0.0983	0.0163	1.62E-09	1
rs13030185	2	68425257	С	Т	0.27	0.0983	0.0163	1.63E-09	1
rs809871	6	26256526	G	С	0.58	-0.0891	0.0148	1.63E-09	1
rs2058744	17	70040308	А	G	0.6	-0.09	0.0149	1.67E-09	0.99
rs1065248	2	68458777	С	Т	0.27	0.098	0.0163	1.69E-09	1
rs3849280	1	10826619	А	G	0.035	0.2228	0.037	1.70E-09	0.97
rs13183342	5	127502389	С	Т	0.099	0.1423	0.0236	1.71E-09	0.98
rs34842123	2	68356917	С	Т	0.27	0.0982	0.0163	1.78E-09	0.99
rs6062619	20	62683002	G	А	0.27	-0.1042	0.0173	1.79E-09	0.96
rs10169751	2	68394409	Т	С	0.27	0.098	0.0163	1.80E-09	1
rs10866709	5	158300126	Т	С	0.39	-0.0916	0.0152	1.85E-09	1
rs12465372	2	68354213	А	С	0.27	0.0982	0.0163	1.88E-09	0.99
rs9467703	6	26318903	G	Α	0.63	-0.0901	0.015	1.96E-09	1
rs12713631	2	68391087	G	А	0.27	0.0978	0.0163	2.00E-09	1
rs10153623	2	68390910	Т	G	0.27	0.0977	0.0163	2.01E-09	1
rs9393701	6	26309521	С	Т	0.62	-0.09	0.015	2.04E-09	1
rs1549063	13	106264083	Т	Α	0.36	0.0907	0.0152	2.11E-09	1
rs6899452	6	26307651	С	Т	0.62	-0.0899	0.015	2.11E-09	1
rs4145910	6	26313305	С	Т	0.63	-0.0899	0.015	2.11E-09	1
rs1549062	13	106264061	А	G	0.36	0.0907	0.0152	2.12E-09	1
rs4772696	13	106264567	G	А	0.36	0.0907	0.0151	2.13E-09	1
rs9461242	6	26314619	С	Т	0.63	-0.0899	0.015	2.13E-09	1
rs4772697	13	106264893	G	Α	0.36	0.0906	0.0151	2.18E-09	1

rs766407	6	26319534	С	Т	0.63	-0.0898	0.015	2.20E-09	1
rs10817792	9	118311318	А	G	0.74	0.1045	0.0175	2.34E-09	0.97
rs11756673	6	26323505	G	А	0.63	-0.0896	0.015	2.37E-09	1
rs7582466	2	68390236	G	А	0.27	0.0971	0.0163	2.38E-09	1
rs6062618	20	62682529	G	Т	0.27	-0.1017	0.017	2.40E-09	0.98
rs2179152	6	26325888	С	Т	0.63	-0.0896	0.015	2.45E-09	1
rs13009282	2	68364478	С	Т	0.27	0.0966	0.0162	2.61E-09	1
rs6939048	6	26327953	А	G	0.63	-0.0896	0.015	2.62E-09	1
rs1422798	5	158320877	G	С	0.38	-0.0913	0.0153	2.67E-09	0.99
rs7863684	9	118455827	А	G	0.094	-0.1595	0.0268	2.72E-09	0.99
rs1422797	5	158320876	А	Т	0.38	-0.0912	0.0153	2.79E-09	0.99
rs7736883	5	158343969	G	А	0.38	-0.0906	0.0153	3.01E-09	1
rs76661599	16	88788544	А	G	0.15	-0.1258	0.0212	3.05E-09	1
rs8051150	16	88734904	С	Т	0.65	-0.0905	0.0153	3.09E-09	0.99
rs3829494	16	88730007	А	G	0.58	-0.088	0.0149	3.17E-09	0.99
rs78759106	16	88788535	С	Т	0.15	-0.1257	0.0212	3.19E-09	1
rs2712421	3	128287743	Т	G	0.65	0.0927	0.0157	3.21E-09	1
rs62385385	5	158367249	А	Т	0.38	-0.0904	0.0153	3.27E-09	1
rs10982846	9	118378191	Т	G	0.76	0.1039	0.0176	3.34E-09	1
rs4997383	9	118378025	С	Т	0.76	0.1038	0.0176	3.41E-09	1
rs8050636	16	88898786	Т	С	0.17	-0.1218	0.0206	3.52E-09	0.97
rs113907912	16	88793872	С	Т	0.15	-0.1269	0.0215	3.63E-09	0.98
rs963115	9	118372937	Т	С	0.76	0.1036	0.0176	3.68E-09	1
rs6478196	9	118377417	Т	С	0.76	0.1035	0.0176	3.75E-09	1
rs3899074	9	118379101	Т	G	0.76	0.1035	0.0176	3.80E-09	1
rs7737500	5	158317804	С	G	0.39	-0.0899	0.0153	3.92E-09	1
rs10817803	9	118381411	G	А	0.65	0.0925	0.0157	4.09E-09	0.99
rs205475	1	10833105	А	G	0.068	0.1628	0.0277	4.23E-09	0.99
rs251388	5	127541903	Т	С	0.51	-0.0867	0.0148	4.25E-09	0.99
rs7024456	9	118373854	G	Т	0.76	0.1031	0.0176	4.28E-09	1
rs11577258	1	10855315	Т	С	0.055	0.1766	0.0301	4.31E-09	0.99
rs4246910	9	118343998	С	G	0.75	0.1026	0.0175	4.35E-09	1
rs16828263	3	118071923	С	Т	0.00059	1.118	0.1905	4.37E-09	0.93
rs7724989	5	158318147	G	Т	0.38	-0.0896	0.0153	4.47E-09	1
rs7021677	9	118347088	Т	С	0.75	0.1027	0.0175	4.49E-09	1
rs1018845	9	118311164	А	G	0.6	0.089	0.0152	4.54E-09	1
rs4645	6	26124634	Т	С	0.22	0.1043	0.0178	4.55E-09	0.95
rs4979562	9	118344685	Т	С	0.75	0.1026	0.0175	4.56E-09	1
rs62385377	5	158319479	А	G	0.38	-0.0895	0.0153	4.64E-09	1
rs112028717	16	88827338	А	G	0.15	-0.129	0.022	4.67E-09	0.97
rs7466771	9	118292629	А	G	0.76	0.103	0.0176	4.68E-09	1
rs7186902	16	88735038	С	А	0.83	-0.1109	0.0189	4.69E-09	0.98
rs6762732	3	128292858	С	Т	0.49	0.0869	0.0148	4.72E-09	0.98
rs12713628	2	68377074	G	А	0.27	0.0951	0.0162	4.76E-09	1
rs251215	5	127543622	А	С	0.51	-0.0863	0.0147	4.77E-09	0.99

rs10116519	9	118381244	Т	С	0.76	0.1028	0.0176	4.77E-09	1
rs58007649	3	128289541	А	G	0.099	0.1375	0.0235	4.79E-09	1
rs1422799	5	158321121	G	С	0.38	-0.0894	0.0153	4.83E-09	1
rs12929177	16	88736363	G	А	0.65	-0.0894	0.0153	5.14E-09	0.99
rs7858000	9	118302557	G	Т	0.76	0.1025	0.0176	5.23E-09	1
rs7027022	9	118311371	А	G	0.75	0.1021	0.0175	5.24E-09	1
rs17543752	5	158332380	С	Т	0.38	-0.0892	0.0153	5.26E-09	1
rs2418377	9	118338903	С	G	0.75	0.1021	0.0175	5.33E-09	1
rs2188052	9	118295296	С	Т	0.76	0.1026	0.0176	5.37E-09	1
rs7026805	9	118311362	Т	С	0.75	0.1019	0.0175	5.50E-09	1
rs7470070	9	118402959	Т	А	0.76	0.1024	0.0176	5.53E-09	1
rs976499	9	118400853	Т	А	0.76	0.1024	0.0176	5.61E-09	1
rs6478180	9	118285411	G	А	0.75	0.1023	0.0176	5.63E-09	1
rs12924566	16	88735044	С	Т	0.83	-0.1102	0.0189	5.64E-09	0.98
rs2188053	9	118299750	С	Т	0.76	0.1024	0.0176	5.71E-09	1
rs4979551	9	118314193	С	Т	0.75	0.1017	0.0175	5.82E-09	1
rs6478191	9	118339551	С	А	0.75	0.1018	0.0175	5.83E-09	1
rs10123924	9	118301290	G	Т	0.76	0.1023	0.0176	5.94E-09	1
rs1006008	9	118397066	А	С	0.76	0.1021	0.0176	5.99E-09	1
rs4979550	9	118303147	G	А	0.76	0.1025	0.0176	6.04E-09	1
rs752843	16	88769104	Т	С	0.23	0.1027	0.0177	6.06E-09	0.93
rs7468290	9	118316027	G	Т	0.75	0.1016	0.0175	6.13E-09	1
rs4979569	9	118391825	А	С	0.76	0.1019	0.0175	6.18E-09	1
rs10982789	9	118309655	Т	А	0.75	0.1016	0.0175	6.21E-09	1
rs4246911	9	118393078	Т	А	0.76	0.1019	0.0175	6.24E-09	1
rs7466595	9	118305193	Т	С	0.75	0.1016	0.0175	6.26E-09	1
rs7855143	9	118393518	Т	С	0.76	0.1019	0.0175	6.28E-09	1
rs11999332	9	118315688	А	Т	0.75	0.1015	0.0175	6.30E-09	1
rs10759796	9	118320676	А	Т	0.75	0.1015	0.0175	6.33E-09	1
rs7469875	9	118320155	Т	С	0.75	0.1015	0.0175	6.34E-09	1
rs2734045	3	128292060	А	G	0.48	0.0859	0.0148	6.40E-09	0.99
rs7469418	9	118305281	С	Т	0.75	0.1015	0.0175	6.42E-09	1
rs6478183	9	118308875	С	Т	0.75	0.1015	0.0175	6.48E-09	1
rs969832	9	118405048	С	Т	0.76	0.102	0.0176	6.50E-09	0.99
rs6478184	9	118310448	А	С	0.75	0.1014	0.0175	6.53E-09	1
rs6478185	9	118310458	Т	С	0.75	0.1014	0.0175	6.54E-09	1
rs4546365	5	158267958	Т	С	0.39	-0.0885	0.0153	6.62E-09	0.99
rs10759803	9	118331070	Т	С	0.75	0.1014	0.0175	6.68E-09	1
rs7029913	9	118311456	G	А	0.75	0.1013	0.0175	6.77E-09	1
rs2106050	9	118326434	С	G	0.75	0.1013	0.0175	6.77E-09	1
rs10817790	9	118311213	Т	С	0.75	0.1013	0.0175	6.82E-09	1
rs7467026	9	118310903	С	Α	0.75	0.1013	0.0175	6.85E-09	1
rs2418367	9	118329688	G	Α	0.75	0.1013	0.0175	6.88E-09	1
rs17643057	5	158274491	G	А	0.39	-0.0881	0.0152	6.90E-09	1
rs10817791	9	118311239	С	Т	0.75	0.1012	0.0175	6.94E-09	1

rs2713571	3	128300998	Т	С	0.3	-0.0951	0.0164	6.98E-09	0.99
rs7030481	9	118311629	Т	G	0.75	0.1012	0.0175	7.06E-09	1
rs3794624	16	88717074	А	G	0.36	-0.0899	0.0155	7.12E-09	1
rs7046356	9	118311498	G	Т	0.75	0.1011	0.0175	7.17E-09	1
rs718019	9	118312053	С	Т	0.75	0.1011	0.0175	7.21E-09	1
rs7707918	5	158270225	С	А	0.39	-0.088	0.0152	7.27E-09	1
rs7031849	9	118306898	С	А	0.67	0.092	0.0159	7.36E-09	1
rs9719461	7	632715	Т	С	0.66	0.0915	0.0158	7.36E-09	0.99
rs891905	5	158267423	С	Т	0.39	-0.088	0.0152	7.45E-09	1
rs10119624	9	118305438	А	G	0.67	0.0919	0.0159	7.56E-09	1
rs10759791	9	118305735	G	А	0.67	0.0919	0.0159	7.57E-09	1
rs7043680	9	118307518	А	G	0.67	0.0919	0.0159	7.60E-09	1
rs7470033	9	118328537	С	Т	0.68	0.0928	0.0161	7.77E-09	1
rs78465403	16	88833116	G	А	0.14	-0.1287	0.0223	7.78E-09	0.97
rs10124057	9	118333897	G	А	0.75	0.1009	0.0175	7.86E-09	1
rs2418393	9	118390987	А	G	0.76	0.1012	0.0175	8.02E-09	1
rs61045787	5	158290225	Т	С	0.39	-0.0876	0.0152	8.31E-09	1
rs4594837	5	158267974	С	А	0.39	-0.0879	0.0153	8.34E-09	0.99
rs2263321	6	31340908	А	G	0.33	-0.0905	0.0157	8.42E-09	1.02
rs4413606	6	26338257	G	А	0.63	-0.0874	0.0152	8.44E-09	0.98
rs247749	5	76296735	С	Т	0.29	0.0987	0.0172	8.77E-09	0.86
rs4978643	9	118303464	G	А	0.67	0.0918	0.016	8.79E-09	0.99
rs4145474	9	118166976	А	G	0.51	0.085	0.0148	8.94E-09	0.99
rs2544030	12	48195451	А	G	0.27	0.0932	0.0162	8.96E-09	1
rs9861608	3	128283469	Т	С	0.097	0.1366	0.0238	9.00E-09	0.99
rs6500501	16	88829416	G	А	0.69	-0.0912	0.0159	9.21E-09	0.97
rs17715535	5	158269734	А	G	0.39	-0.0874	0.0152	9.50E-09	1
rs62385360	5	158269591	Т	С	0.39	-0.0873	0.0152	9.76E-09	1
rs7635966	3	128220224	А	G	0.8	-0.1049	0.0183	9.81E-09	0.95
rs2072495	5	158296996	Т	С	0.39	-0.0871	0.0152	9.92E-09	1
rs10052777	5	158269081	С	Т	0.39	-0.0872	0.0152	1.01E-08	1
rs891904	5	158267473	А	G	0.39	-0.0872	0.0152	1.01E-08	1
rs6875710	5	158268426	Т	С	0.39	-0.0871	0.0152	1.04E-08	1
rs4979554	9	118314378	G	А	0.68	0.0919	0.0161	1.05E-08	1
rs75522736	6	135015921	G	А	0.16	-0.1197	0.0209	1.07E-08	1
rs4979552	9	118314283	G	А	0.68	0.0918	0.0161	1.08E-08	1
rs7600326	2	68518280	Т	С	0.62	0.0875	0.0153	1.09E-08	1
rs4420519	16	88734268	G	Α	0.64	-0.0863	0.0151	1.11E-08	1
rs7856953	9	118314930	G	Т	0.68	0.0917	0.0161	1.13E-08	1
rs72643233	1	10851035	G	А	0.12	0.1226	0.0215	1.13E-08	0.99
rs7856947	9	118314920	С	Т	0.68	0.0917	0.0161	1.13E-08	1
rs58141054	6	135016942	А	Т	0.16	-0.1193	0.0209	1.20E-08	1
rs9408866	9	118206082	А	G	0.13	-0.1321	0.0232	1.21E-08	1
rs2418363	9	118322434	G	А	0.68	0.0915	0.0161	1.24E-08	1
rs1549061	13	106263705	С	Т	0.35	0.0868	0.0152	1.24E-08	1

rs2544029	12	48194957	Т	С	0.27	0.0922	0.0162	1.25E-08	1
rs2418362	9	118322429	С	Т	0.68	0.0914	0.0161	1.27E-08	1
rs2418361	9	118322396	А	G	0.68	0.0914	0.0161	1.28E-08	1
rs12353511	9	118323278	А	G	0.68	0.0913	0.0161	1.29E-08	1
rs2188063	9	118318597	С	Т	0.68	0.0913	0.0161	1.30E-08	1
rs10114683	9	118324383	Т	С	0.68	0.0913	0.0161	1.31E-08	1
rs10982798	9	118315559	А	С	0.68	0.0913	0.0161	1.31E-08	1
rs12005078	9	118315641	Т	С	0.68	0.0913	0.0161	1.31E-08	1
rs553399706	16	74615577	А	G	0.00066	1.0645	0.1873	1.32E-08	0.92
rs7467339	9	118320043	G	Т	0.68	0.0913	0.0161	1.32E-08	1
rs10817794	9	118317780	А	G	0.68	0.0913	0.0161	1.32E-08	1
rs7470877	9	118316238	А	G	0.68	0.0913	0.0161	1.32E-08	1
rs10817793	9	118316396	Т	С	0.68	0.0913	0.0161	1.32E-08	1
rs2157669	9	118316990	С	Т	0.68	0.0913	0.0161	1.32E-08	1
rs2040481	9	118316627	G	С	0.68	0.0913	0.0161	1.33E-08	1
rs10759794	9	118318205	G	Т	0.68	0.0912	0.0161	1.33E-08	1
rs2188064	9	118318695	Т	С	0.68	0.0912	0.0161	1.33E-08	1
rs10759797	9	118320706	А	G	0.68	0.0912	0.0161	1.33E-08	1
rs2418359	9	118319318	G	А	0.68	0.0912	0.0161	1.34E-08	1
rs10739448	9	118320986	А	G	0.68	0.0912	0.0161	1.34E-08	1
rs6478187	9	118321889	С	А	0.68	0.0912	0.0161	1.35E-08	1
rs10117360	9	118327978	Т	С	0.68	0.0912	0.0161	1.35E-08	1
rs10118599	9	118317145	С	А	0.68	0.0912	0.0161	1.36E-08	1
rs62512472	8	87595590	А	G	0.43	0.0843	0.0148	1.38E-08	0.99
rs2418373	9	118330039	С	Т	0.68	0.0911	0.0161	1.38E-08	1
rs10759793	9	118316516	С	А	0.68	0.0912	0.0161	1.39E-08	1
rs7466470	9	118327574	G	А	0.68	0.0911	0.0161	1.40E-08	1
rs10114731	9	118324412	С	G	0.68	0.0911	0.0161	1.40E-08	1
rs2213925	9	118323098	С	Т	0.68	0.0911	0.0161	1.41E-08	1
rs2188069	9	118323060	G	А	0.68	0.0911	0.0161	1.41E-08	1
rs2106049	9	118326283	А	G	0.68	0.0911	0.0161	1.41E-08	1
rs10739451	9	118324640	Т	С	0.68	0.0911	0.0161	1.42E-08	1
rs10120633	9	118327911	С	Т	0.68	0.0911	0.0161	1.42E-08	1
rs10759804	9	118331418	G	А	0.68	0.0911	0.0161	1.42E-08	1
rs10116419	9	118326565	Т	С	0.68	0.0911	0.0161	1.42E-08	1
rs10117874	9	118324536	С	Т	0.68	0.0911	0.0161	1.42E-08	1
rs6478188	9	118325276	С	G	0.68	0.091	0.0161	1.43E-08	1
rs584768	19	49213284	А	G	0.53	0.0842	0.0149	1.43E-08	1
rs7469908	9	118327349	А	G	0.68	0.091	0.0161	1.43E-08	1
rs10739452	9	118324729	С	Т	0.68	0.091	0.0161	1.43E-08	1
rs2418366	9	118329681	Т	С	0.68	0.091	0.0161	1.43E-08	1
rs2418369	9	118329724	А	G	0.68	0.091	0.0161	1.43E-08	1
rs2188057	9	118311929	А	G	0.68	0.0911	0.0161	1.43E-08	1
rs10759799	9	118324749	С	Т	0.68	0.091	0.0161	1.44E-08	1
rs2157665	9	118326058	С	Т	0.68	0.091	0.0161	1.45E-08	1

rs2452170	19	49213504	А	G	0.53	0.0842	0.0149	1.46E-08	1
rs7470007	9	118328467	С	Т	0.68	0.091	0.0161	1.46E-08	1
rs10121361	9	118328288	С	Т	0.68	0.091	0.0161	1.46E-08	1
rs10739454	9	118330643	С	Т	0.68	0.0909	0.0161	1.49E-08	1
rs2418372	9	118329974	G	А	0.68	0.0909	0.0161	1.56E-08	1
rs2213922	9	118325574	G	А	0.68	0.0908	0.0161	1.59E-08	1
rs2638282	19	49213833	А	G	0.53	0.0839	0.0149	1.59E-08	1
rs9409154	9	118202716	С	Т	0.13	-0.1311	0.0232	1.66E-08	1
rs281377	19	49206603	Т	С	0.43	-0.0847	0.015	1.68E-08	1
rs676388	19	49211969	С	Т	0.53	0.0837	0.0148	1.73E-08	1
rs36695	5	127549187	А	G	0.5	-0.0829	0.0147	1.75E-08	1
rs6914876	6	135014966	А	G	0.16	-0.1176	0.0209	1.78E-08	1
rs7752010	6	135015122	G	А	0.16	-0.1177	0.0209	1.78E-08	1
rs12491576	3	128308113	G	А	0.29	-0.0928	0.0165	1.79E-08	1
rs9491696	6	127452639	G	С	0.5	-0.0829	0.0147	1.82E-08	1
rs10504825	8	87567848	С	А	0.41	0.0836	0.0149	1.84E-08	1
rs544034	16	88909376	Т	С	0.2	-0.1088	0.0193	1.88E-08	0.97
rs6569963	6	135015049	G	А	0.16	-0.1173	0.0209	1.90E-08	1
rs75935779	3	118044978	Т	А	6.00E-04	1.0775	0.1918	1.93E-08	0.93
rs11577305	1	10855638	G	С	0.056	0.1677	0.0298	1.94E-08	1
rs9494035	6	135013117	А	Т	0.16	-0.1173	0.0209	1.95E-08	1
rs10817802	9	118362166	А	G	0.74	0.0969	0.0173	1.99E-08	1
rs62512471	8	87593079	С	Т	0.41	0.0835	0.0149	2.01E-08	1
rs10982794	9	118312655	G	Т	0.31	0.0881	0.0157	2.02E-08	0.99
rs62510852	8	87585908	G	С	0.41	0.0834	0.0149	2.04E-08	1
rs10118264	9	118484799	G	Т	0.081	-0.1606	0.0287	2.11E-08	0.99
rs7767726	6	135016316	С	G	0.16	-0.1169	0.0209	2.17E-08	1
rs9482771	6	127446610	С	G	0.5	-0.0824	0.0147	2.19E-08	1
rs12002061	9	118485479	С	Т	0.081	-0.1603	0.0287	2.22E-08	0.99
rs36696	5	127549576	Т	G	0.5	-0.0823	0.0147	2.24E-08	1
rs7467728	9	118372026	Т	С	0.75	0.0967	0.0173	2.26E-08	1
rs115634775	4	26702526	Т	С	0.062	0.1632	0.0292	2.27E-08	0.96
rs510862	16	88872511	С	Т	0.78	-0.0986	0.0177	2.30E-08	0.95
rs35709454	9	118469852	G	С	0.081	-0.1601	0.0287	2.33E-08	0.99
rs34395873	9	118469300	С	Т	0.081	-0.1601	0.0287	2.33E-08	0.99
rs36699	5	127551261	Т	G	0.5	-0.0821	0.0147	2.35E-08	1
rs2188067	9	118371019	С	А	0.75	0.0965	0.0173	2.36E-08	1
rs12338936	9	118481042	А	G	0.081	-0.16	0.0287	2.36E-08	0.99
rs2058740	17	70040660	А	G	0.59	-0.0832	0.0149	2.37E-08	1
rs34637389	6	26377991	G	С	0.14	0.1136	0.0203	2.38E-08	0.98
rs10125656	9	118483185	А	G	0.081	-0.16	0.0287	2.39E-08	0.99
rs12344772	9	118490315	Т	G	0.081	-0.1607	0.0288	2.40E-08	0.99
rs11650401	17	70037444	А	G	0.59	-0.083	0.0149	2.41E-08	1
rs2089657	2	30470178	Т	С	0.21	-0.1039	0.0186	2.41E-08	0.99
rs2713587	3	128290848	G	А	0.48	0.0822	0.0147	2.43E-08	1

rs12603032	17	70037793	G	Т	0.59	-0.0829	0.0149	2.43E-08	1
rs11077593	17	70037826	Т	А	0.59	-0.0829	0.0149	2.49E-08	1
rs7590842	2	68531813	С	Т	0.7	0.0928	0.0166	2.49E-08	0.97
rs2342302	17	70036546	А	G	0.6	-0.0833	0.0149	2.54E-08	1
rs11121624	1	10850371	А	G	0.13	0.1182	0.0212	2.55E-08	1
rs2290116	2	68365561	С	Т	0.23	0.0952	0.0171	2.56E-08	1
rs759493	17	70036558	Т	С	0.6	-0.0832	0.015	2.67E-08	1
rs7766106	6	127455138	Т	С	0.5	-0.0818	0.0147	2.71E-08	1
rs9519725	13	106252332	А	G	0.6	-0.083	0.0149	2.75E-08	0.99
rs4857858	3	128314931	Т	С	0.71	0.0913	0.0164	2.78E-08	1
rs55964643	6	26340872	А	G	0.5	0.0838	0.0151	2.80E-08	0.95
rs6416802	16	88725283	А	С	0.17	0.1049	0.0189	2.84E-08	0.99
rs72787716	2	30472355	Т	С	0.21	-0.1032	0.0186	2.85E-08	0.99
rs11121623	1	10850287	С	G	0.13	0.1178	0.0212	2.87E-08	1
rs62510848	8	87569710	G	А	0.41	0.0824	0.0149	2.90E-08	1
rs10817820	9	118453106	G	А	0.1	-0.1434	0.0258	2.91E-08	0.99
rs9260761	6	29935469	С	Т	0.87	-0.1168	0.0211	2.91E-08	1
rs4782394	16	88726726	G	Т	0.17	0.1047	0.0189	2.91E-08	0.99
rs12347132	9	118488899	С	Т	0.081	-0.1591	0.0287	3.01E-08	0.99
rs198852	6	26104448	G	А	0.37	0.0835	0.0151	3.01E-08	1
rs35866622	19	49218060	Т	С	0.5	0.0821	0.0148	3.06E-08	0.99
rs17035196	2	68518614	А	G	0.62	0.0847	0.0153	3.09E-08	1
rs4857911	3	128314776	С	Т	0.71	0.091	0.0164	3.12E-08	1
rs3893463	6	29935405	Т	С	0.43	-0.0827	0.015	3.17E-08	1
rs236561	17	68256221	С	А	0.75	-0.0956	0.0173	3.37E-08	0.92
rs9260743	6	29933550	С	Т	0.87	-0.117	0.0212	3.38E-08	0.99
rs2010527	3	128303083	С	G	0.7	0.0903	0.0164	3.44E-08	1
rs9260742	6	29933549	G	Т	0.87	-0.117	0.0212	3.52E-08	0.99
rs2712414	3	128305217	G	С	0.7	0.0901	0.0164	3.54E-08	1
rs4857857	3	128313880	А	G	0.3	-0.0905	0.0164	3.55E-08	1
rs2058743	17	70040327	С	G	0.57	-0.0816	0.0148	3.56E-08	1
rs36707	5	127557404	А	G	0.51	-0.081	0.0147	3.56E-08	1
rs9261402	6	30069137	Т	С	0.87	-0.1158	0.021	3.62E-08	1
rs36708	5	127558258	А	G	0.51	-0.081	0.0147	3.63E-08	1
rs2800709	6	127439297	G	Т	0.52	-0.081	0.0147	3.64E-08	1
rs1936800	6	127436064	Т	С	0.53	-0.081	0.0147	3.67E-08	1
rs59693338	2	30473177	С	Т	0.21	-0.1025	0.0186	3.68E-08	0.99
rs12102677	16	89016494	С	А	0.37	-0.0847	0.0154	3.71E-08	1
rs12594708	15	96182066	Т	С	0.076	-0.1645	0.0299	3.72E-08	0.98
rs4857910	3	128306323	Т	С	0.3	-0.09	0.0164	3.76E-08	1
rs17035686	1	10825699	Т	С	0.032	0.2161	0.0393	3.80E-08	0.96
rs1936801	6	127436313	G	А	0.53	-0.0808	0.0147	3.84E-08	1
rs3893465	6	29935049	G	Т	0.87	-0.1158	0.0211	3.87E-08	1
rs2010054	3	128305302	G	А	0.59	0.0832	0.0151	3.87E-08	0.99
rs576153896	16	74557771	А	С	5.00E-04	1.1823	0.2152	3.91E-08	0.85
				-					

rs7860973	9	118376030	С	Т	0.62	0.084	0.0153	3.96E-08	1
rs7763159	6	30067681	G	А	0.87	-0.1159	0.0211	3.98E-08	1
rs9260685	6	29926668	G	С	0.87	-0.1157	0.0211	4.01E-08	1
rs12644549	4	26821836	А	G	0.39	-0.0835	0.0152	4.01E-08	1
rs9260676	6	29926139	С	А	0.87	-0.1157	0.0211	4.08E-08	1
rs4472395	6	29932169	Т	А	0.87	-0.1156	0.0211	4.10E-08	1
rs9260702	6	29928309	С	А	0.87	-0.1156	0.0211	4.13E-08	1
rs6775731	3	128306894	С	Т	0.7	0.0897	0.0163	4.14E-08	1
rs10982884	9	118462904	Т	С	0.091	-0.1483	0.027	4.15E-08	0.99
rs12344818	9	118490568	Т	С	0.081	-0.1579	0.0288	4.18E-08	0.98
rs40624	5	127557471	G	Т	0.51	-0.0806	0.0147	4.18E-08	1
rs4959036	6	29936135	Т	G	0.87	-0.1154	0.0211	4.23E-08	1
rs186005582	6	68957548	Т	С	0.00031	1.3412	0.2447	4.24E-08	0.85
rs3893259	6	29934454	G	А	0.87	-0.1154	0.0211	4.25E-08	1
rs36709	5	127558585	G	А	0.51	-0.0806	0.0147	4.27E-08	1
rs9260737	6	29932923	А	G	0.87	-0.1154	0.0211	4.32E-08	1
rs198834	6	26114372	А	G	0.37	0.0827	0.0151	4.36E-08	1
rs1001204	2	30478779	G	А	0.21	-0.1015	0.0186	4.44E-08	1
rs198845	6	26107790	Т	G	0.37	0.0826	0.0151	4.45E-08	1
rs6569966	6	135020784	Т	С	0.16	-0.1149	0.021	4.46E-08	0.99
rs7428052	3	128311404	С	Т	0.7	0.0894	0.0163	4.46E-08	1
rs2712393	3	128312647	С	Т	0.7	0.0894	0.0163	4.47E-08	1
rs1549059	13	106249309	С	Т	0.64	-0.0833	0.0152	4.47E-08	0.99
rs7205116	16	88729008	А	G	0.17	0.1036	0.0189	4.49E-08	1
rs11121614	1	10823855	Т	G	0.031	0.2156	0.0394	4.50E-08	0.95
rs2546150	5	127557916	Т	С	0.51	-0.0804	0.0147	4.54E-08	1
rs36704	5	127554218	Т	С	0.51	-0.0804	0.0147	4.54E-08	1
rs42915	5	127557891	Т	С	0.51	-0.0804	0.0147	4.55E-08	1
rs6708792	2	30468860	Т	С	0.21	-0.1017	0.0186	4.57E-08	0.99
rs166327	6	30002881	С	Т	0.43	-0.0817	0.0149	4.59E-08	1
rs12073890	1	10822357	А	G	0.032	0.2161	0.0395	4.62E-08	0.95
rs1549058	13	106249259	С	Т	0.64	-0.0832	0.0152	4.62E-08	0.99
rs1061536	6	29937826	С	Т	0.87	-0.1151	0.0211	4.62E-08	1
rs1642687	13	106249821	G	С	0.61	-0.0819	0.015	4.64E-08	1
rs4782422	16	88754670	А	G	0.12	-0.1303	0.0238	4.67E-08	0.96
rs1549060	13	106249489	Т	С	0.64	-0.0832	0.0152	4.68E-08	0.99
rs192647746	4	182760366	G	А	0.0011	0.863	0.158	4.73E-08	0.92
rs2394251	6	29943688	С	G	0.74	-0.0896	0.0164	4.78E-08	1
rs11121613	1	10823774	А	G	0.031	0.2153	0.0394	4.82E-08	0.95
rs60694428	1	10822546	А	G	0.031	0.2159	0.0396	4.85E-08	0.95
rs476328	16	89004360	Т	С	0.37	-0.0841	0.0154	4.86E-08	1
rs11805825	1	10823388	G	С	0.032	0.2153	0.0395	4.87E-08	0.95
rs906865	2	30478173	Т	С	0.21	-0.1014	0.0186	4.88E-08	1
rs77510037	1	10825410	Т	С	0.031	0.2148	0.0394	4.90E-08	0.96
rs2275294	20	62594247	А	G	0.25	0.0932	0.0171	4.90E-08	0.95

rs13194984	6	26500563	Т	G	0.14	0.1094	0.0201	4.97E-08	1
rs72862933	1	10826595	Т	G	0.031	0.2143	0.0393	4.98E-08	0.96

Supplemental Table 7. Results from eQTL analysis of varicose vein-associated loci.
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DR		Symbol	Tissue	Database	Variant ID	rsID
0	1.28E-46	PNO1	BIOS_eQTL_geneLevel	BIOSQTL	2:68489221:C:G	rs2861819
0	6.20E-19	PNO1	BIOS_eQTL_geneLevel	BIOSQTL	2:68489221:C:G	rs2861819
3.46E-05	2.24E-08	PLEK	BIOS_eQTL_geneLevel	BIOSQTL	2:68489221:C:G	rs2861819
0.020489957	3.38E-05	CNRIP1	BIOS_eQTL_geneLevel	BIOSQTL	2:68489221:C:G	rs2861819
3.46E-05	2.24E-08	PPP3R1	BIOS_eQTL_geneLevel	BIOSQTL	2:68489221:C:G	rs2861819
0	6.20E-19	PPP3R1	BIOS_eQTL_geneLevel	BIOSQTL	2:68489221:C:G	rs2861819
0.013341165	2.08E-05	WDR92	BIOS_eQTL_geneLevel	BIOSQTL	2:68489221:C:G	rs2861819
0.000263002	1.73E-08	PPP3R1	Artery -Tibial	GTEx	2:68489221:C:G	rs2861819
5.97E-06	4.75E-09	GALNS	BIOS_eQTL_geneLevel	BIOSQTL	16:88835545:A:G	rs2911463
0.033495232	5.82E-05	APRT	BIOS_eQTL_geneLevel	BIOSQTL	16:88835545:A:G	rs2911463
0.00030405	1.87E-06	RNF166	Muscle - Skeletal	GTEx	16:88835545:A:G	rs2911463
	1.50E-05	PIEZO1	Cells - Transformed fibroblasts	GTEx	16:88835545:A:G	rs2911463
0	1.62E-11	PIEZO1	BIOS_eQTL_geneLevel	BIOSQTL	16:88794403:A:G	rs8053350
0	1.49E-13	PIEZO1	BIOS_eQTL_geneLevel	BIOSQTL	16:88794403:A:G	rs8053350
0	1.45E-17	PIEZO1	BIOS_eQTL_geneLevel	BIOSQTL	16:88794403:A:G	rs8053350
0	5.72E-23	PIEZO1	BIOS_eQTL_geneLevel	BIOSQTL	16:88794403:A:G	rs8053350
0	2.27E-48	RNF166	BIOS eQTL geneLevel	BIOSQTL	16:88794403:A:G	rs8053350
0	3.01E-70	RNF166	BIOS_eQTL_geneLevel	BIOSQTL	16:88794403:A:G	rs8053350
0	1.62E-11	CTU2	BIOS_eQTL_geneLevel	BIOSQTL	16:88794403:A:G	rs8053350
0	5.91E-17	CTU2	BIOS eQTL geneLevel	BIOSQTL	16:88794403:A:G	rs8053350
0	4.83E-14	SNAI3	BIOS_eQTL_geneLevel	BIOSQTL	16:88794403:A:G	rs8053350
0	1.49E-13	MIR4722	BIOS_eQTL_geneLevel	BIOSQTL	16:88794403:A:G	rs8053350
0.000288	1.05E-06	RNF166	Skin_Sun_Exposed_Lower_leg	GTEx	16:88794403:A:G	rs8053350
0	6.73E-10	SLC12A2	BIOS_eQTL_geneLevel	BIOSQTL	5:127524018:C:T	rs3101725
0	7.90E-16	CTC-228N24.1	BIOS_eQTL_geneLevel	BIOSQTL	5:127524018:C:T	rs3101725
0	3.67E-100	CTC-228N24.3	BIOS_eQTL_geneLevel	BIOSQTL	5:127524018:C:T	rs3101725
0	7.90E-16	CTC-228N24.3	BIOS_eQTL_geneLevel	BIOSQTL	5:127524018:C:T	rs3101725
0.00028813	9.75E-15	CTC-228N24.3	Skin_Sun_Exposed_Lower_leg	GTEx	5:127524018:C:T	rs3101725
0.000506735	2.23E-11	CTC-228N24.3	Skin_Not_Sun_Exposed_Suprapubic	GTEx	5:127524018:C:T	rs3101725
0.00020866	2.48E-11	CTC-228N24.3	Cells_Transformed_fibroblasts	GTEx	5:127524018:C:T	rs3101725
0.00061307	3.43E-10	CTC-228N24.3	Pancreas	GTEx	5:127524018:C:T	rs3101725
0.000222679	2.45E-08	CTC-228N24.3	Nerve_Tibial	GTEx	5:127524018:C:T	rs3101725
0.00030405	4.23E-22	CTC-228N24.3	Muscle_Skeletal	GTEx	5:127524018:C:T	rs3101725
0.00038378	5.23E-13	CTC-228N24.3	Lung	GTEx	5:127524018:C:T	rs3101725
0.000720745	7.41E-11	CTC-228N24.3	Heart_Atrial_Appendage	GTEx	5:127524018:C:T	rs3101725
0.000378299	6.83E-06	CTC-228N24.3	Testis	GTEx	5:127524018:C:T	rs3101725
0.000335986	1.83E-06	CTC-228N24.3	Esophagus_Muscularis	GTEx	5:127524018:C:T	rs3101725
0.000312239	4.81E-07	CTC-228N24.3	Esophagus_Mucosa	GTEx	5:127524018:C:T	rs3101725
0.001104115	6.16E-08	CTC-228N24.3	Colon_Sigmoid	GTEx	5:127524018:C:T	rs3101725
0.000263002	2.07E-10	CTC-228N24.3	Artery_Tibial	GTEx	5:127524018:C:T	rs3101725
0.000333874	3.46E-07	CTC-228N24.3	Whole_Blood	GTEx	5:127524018:C:T	rs3101725
0.000270753	2.98E-17	CTC-228N24.3	Adipose_Subcutaneous	GTEx	5:127524018:C:T	rs3101725
	4.81E-10	CTC-228N24.3	Heart_Left_Ventricle	GTEx		

rs3101725	5:127524018:C:T	GTEx	Thyroid	CTC-228N24.3	2.07E-10	0.00022
rs3101725	5:127524018:C:T	BIOSQTL	BIOS_eQTL_geneLevel	SLC12A2	6.73E-10	0
rs3101725	5:127524018:C:T	BIOSQTL	BIOS_eQTL_geneLevel	CTC-228N24.1	7.90E-16	0
rs3101725	5:127524018:C:T	BIOSQTL	BIOS_eQTL_geneLevel	CTC-228N24.3	3.67E-100	0
rs3101725	5:127524018:C:T	BIOSQTL	BIOS_eQTL_geneLevel	CTC-228N24.3	7.90E-16	0
rs3101725	5:127524018:C:T	GTEx	Skin_Sun_Exposed_Lower_leg	CTC-228N24.3	9.75E-15	0.00028813
rs3101725	5:127524018:C:T	GTEx	Skin_Not_Sun_Exposed_Suprapubic	CTC-228N24.3	2.23E-11	0.000506735
rs3101725	5:127524018:C:T	GTEx	Cells_Transformed_fibroblasts	CTC-228N24.3	2.48E-11	0.00020866
rs3101725	5:127524018:C:T	GTEx	Thyroid	FBN2	9.50E-07	
rs7773004	6_26267755_A_G_b37	GTEx	Testis	BTN3A2	7.30E-07	
rs7773004	6_26267755_A_G_b37	GTEx	Artery - Aorta	BTN3A2	0.0000011	
rs7773004	6_26267755_A_G_b37	GTEx	Heart - Atrial Appendage	BTN3A2	0.0000012	
rs7773004	6_26267755_A_G_b37	GTEx	Artery - Tibial	BTN3A2	0.0000023	
rs7773004	6_26267755_A_G_b37	GTEx	Skin - Sun Exposed (Lower leg)	BTN3A2	0.0000035	
rs7773004	6_26267755_A_G_b37	GTEx	Skin - Sun Exposed (Lower leg)	BTN2A2	0.0000041	
rs7773004	6_26267755_A_G_b37	GTEx	Heart - Left Ventricle	BTN3A2	0.0000086	
rs7773004	6_26267755_A_G_b37	GTEx	Whole Blood	HIST1H2BD	0.000028	
rs7773004	6_26267755_A_G_b37	GTEx	Colon - Transverse	BTN3A2	0.000061	
rs7614922	3:128238222:C:G	BIOSQTL	BIOS eQTL geneLevel	C3orf27	1.62E-05	0.010544088
rs7614922	3:128238222:C:G	BIOSQTL	BIOS_eQTL_geneLevel	POU5F1P6	4.27E-05	0.025350579
rs7614922	3 128238222 G C b37	GTEx	Testis	TMED10P2	0.0000076	
rs7614922	3_128238222_G_C_b37	GTEx	Whole Blood	IFT122	0.000013	
rs7614922	3_128238222_G_C_b37	GTEx	Esophagus - Mucosa	ACAD9	0.000027	
rs73107980	12:48187601:C:T	BIOSQTL	BIOS eQTL geneLevel	RPAP3	7.64E-08	6.17E-05
rs73107980	12:48187601:C:T	BIOSQTL	BIOS_eQTL_geneLevel	RAPGEF3	2.58E-05	0.01601657
rs73107980	12:48187601:C:T	BIOSQTL	BIOS_eQTL_geneLevel	RAPGEF3	2.34E-13	0
rs73107980	12:48187601:C:T	BIOSQTL	BIOS_eQTL_geneLevel	RP1-197B17.3	2.58E-05	0.01601657
rs73107980	12:48187601:C:T	BIOSQTL	BIOS_eQTL_geneLevel	RP1-197B17.3	3.60E-14	0
rs7469817	9 118296829 G C b37	GTEx	Artery - Tibial	RP11-445L6.3	0.0000023	
rs2241173	17:70028445:A:G	GTEx	Pancreas	AC005152.3	7.76E-07	0.00061307
rs2241173	17:70028445:A:G	GTEx	Skin_Not_Sun_Exposed_Suprapubic	AC005152.3	2.88E-10	0.000506735
rs2241173	17:70028445:A:G	GTEx	Skin Sun Exposed Lower leg	AC005152.3	6.69E-15	0.00028813
rs2241173	17:70028445:A:G	GTEx	Skin_Sun_Exposed_Lower_leg	LINC01152	9.14E-09	0.00028813
rs816943	20:62676009:A:G	BIOSQTL	BIOS_eQTL_geneLevel	PRPF6	7.44E-20	0
rs816943	20:62676009:A:G	BIOSQTL	BIOS_eQTL_geneLevel	SAMD10	2.03E-59	0
rs816943	20:62676009:A:G	BIOSQTL	BIOS eQTL geneLevel	LINC00176	4.69E-65	0
rs816943	20:62676009:A:G	BIOSQTL	BIOS_eQTL_geneLevel	LINC00176	3.96E-86	0
rs816943	20:62676009:A:G	BIOSQTL	BIOS eQTL geneLevel	ZNF512B	4.69E-65	0
rs816943	20:62676009:A:G	BIOSQTL	BIOS_eQTL_geneLevel	ZNF512B	4.90E-06	0.003455153
rs816943	20:62676009:A:G	BIOSQTL	BIOS_eQTL_geneLevel	ZNF512B	2.68E-06	0.002030018
rs816943	20:62676009:A:G	BIOSQTL	BIOS_eQTL_geneLevel	UCKL1	3.06E-19	0
rs816943	20:62676009:A:G	BIOSQTL	BIOS_eQTL_geneLevel	SOX18	2.68E-06	0.002030018
rs816943	20:62676009:A:G	GTEx	Whole_Blood	LINC00176	6.38E-07	0.000333874
rs816943	20:62676009:A:G	GTEx	Esophagus_Mucosa	SAMD10	7.35E-06	0.022561787
rs1061539	6_29937555_T_C_b37	GTEx	Adipose - Subcutaneous	HLA-H	2.00E-18	0.65

rs1061539	6_29937555_T_C_b37	GTEx	Muscle - Skeletal	HLA-H	3.60E-18	0.59
rs1061539	6_29937555_T_C_b37	GTEx	Cells - Transformed fibroblasts	HLA-H	2.90E-17	0.72
rs1061539	6_29937555_T_C_b37	GTEx	Nerve - Tibial	HLA-H	2.30E-16	0.66
rs1061539	6_29937555_T_C_b37	GTEx	Adipose - Subcutaneous	HCG4P7	2.50E-16	-0.65
rs1061539	6_29937555_T_C_b37	GTEx	Artery - Tibial	HLA-H	1.00E-15	0.51
rs1061539	6_29937555_T_C_b37	GTEx	Adipose - Visceral (Omentum)	HCG4P7	3.00E-13	-0.53
rs1061539	6 29937555 T C b37	GTEx	Cells - Transformed fibroblasts	HLA-A	2.20E-12	-0.57
rs1061539	6_29937555_T_C_b37	GTEx	Lung	HCG4P7	6.50E-12	-0.55
rs1061539	6 29937555 T C b37	GTEx	Heart - Left Ventricle	HLA-H	2.80E-11	0.55
rs1061539	6 29937555 T C b37	GTEx	Esophagus - Mucosa	HLA-H	3.80E-11	0.5
rs1061539	6 29937555 T C b37	GTEx	Artery - Aorta	HLA-H	4.50E-11	0.66
rs1061539	6 29937555 T C b37	GTEx	Esophagus - Muscularis	HLA-H	6.20E-11	0.53
rs1061539	6 29937555 T C b37	GTEx	Esophagus - Mucosa	RNF39	7.10E-11	0.29
rs1061539	6 29937555 T C b37	GTEx	Adrenal Gland	HCG4P7	8.60E-11	-0.86
rs1061539	6_29937555_T_C_b37	GTEx	Thyroid	HCG4P7	1.80E-10	-0.46
rs1061539	6_29937555_T_C_b37	GTEx	Testis	HLA-H	3.20E-10	0.51
rs1061539	6_29937555_T_C_b37	GTEx	Heart - Atrial Appendage	HLA-H	4.50E-10	0.57
rs1061539	6_29937555_T_C_b37	GTEx	Testis	HLA-K	4.70E-10	-0.69
rs1061539	6_29937555_T_C_b37	GTEx	Lung	HLA-H	6.50E-10	0.5
rs1061539	6_29937555_T_C_b37	GTEx	Breast - Mammary Tissue	HCG4P7	7.00E-10	-0.52
rs1061539	6_29937555_T_C_b37	GTEx	Nerve - Tibial	HLA-W	7.30E-10	0.56
rs1061539	6_29937555_T_C_b37	GTEx	Skin - Not Sun Exposed (Suprapubic)	HLA-H	9.70E-10	0.52
rs1061539	6_29937555_T_C_b37	GTEx	Thyroid	HLA-H	1.30E-09	0.42
rs1061539	6_29937555_T_C_b37	GTEx	Skin - Sun Exposed (Lower leg)	HLA-H	2.30E-09	0.47
rs1061539	6_29937555_T_C_b37	GTEx	Whole Blood	HLA-H	3.00E-09	0.46
rs1061539	6_29937555_T_C_b37	GTEx	Esophagus - Muscularis	RPL23AP1	3.40E-09	0.54
rs1061539	6_29937555_T_C_b37	GTEx	Colon - Transverse	HLA-H	4.80E-09	0.43
rs1061539	6_29937555_T_C_b37	GTEx	Cells - EBV-transformed lymphocytes	HLA-A	9.90E-09	-0.48
rs1061539	6_29937555_T_C_b37	GTEx	Artery - Aorta	HLA-J	1.80E-08	0.52
rs1061539	6_29937555_T_C_b37	GTEx	Adipose - Visceral (Omentum)	HLA-H	2.20E-08	0.47
rs1061539	6_29937555_T_C_b37	GTEx	Cells - Transformed fibroblasts	HLA-F-AS1	2.50E-08	0.34
rs1061539	6_29937555_T_C_b37	GTEx	Esophagus - Gastroesophageal Junction	HLA-H	3.00E-08	0.55
rs1061539	6_29937555_T_C_b37	GTEx	Esophagus - Gastroesophageal Junction	RPL23AP1	7.80E-08	0.57
rs1061539	6_29937555_T_C_b37	GTEx	Skin - Not Sun Exposed (Suprapubic)	HCG4P7	8.60E-08	-0.47
rs1061539	6_29937555_T_C_b37	GTEx	Muscle - Skeletal	HCG4P7	1.00E-07	-0.39
rs1061539	6_29937555_T_C_b37	GTEx	Thyroid	HLA-A	1.20E-07	-0.28
rs1061539	6_29937555_T_C_b37	GTEx	Heart - Atrial Appendage	HCG4P7	1.70E-07	-0.49
rs1061539	6_29937555_T_C_b37	GTEx	Colon - Transverse	HLA-G	1.80E-07	0.45
rs1061539	6_29937555_T_C_b37	GTEx	Adipose - Subcutaneous	RPL23AP1	1.80E-07	0.38
rs1061539	6_29937555_T_C_b37	GTEx	Whole Blood	HCG4P7	2.10E-07	-0.4
rs1061539	6_29937555_T_C_b37	GTEx	Artery - Aorta	HLA-K	2.70E-07	-0.56
rs1061539	6_29937555_T_C_b37	GTEx	Spleen	HLA-F-AS1	2.90E-07	0.47
rs1061539	6_29937555_T_C_b37	GTEx	Adrenal Gland	HLA-H	3.50E-07	0.74
rs1061539	6_29937555_T_C_b37	GTEx	Adipose - Subcutaneous	HLA-U	4.20E-07	0.45
rs1061539	6_29937555_T_C_b37	GTEx	Thyroid	ZFP57	4.40E-07	0.39

rs1061539	6_29937555_T_C_b37	GTEx	Skin - Not Sun Exposed (Suprapubic)	ZFP57	4.50E-07	0.48
rs1061539	6_29937555_T_C_b37	GTEx	Artery - Aorta	HLA-A	7.20E-07	-0.41
rs1061539	6 29937555 T C b37	GTEx	Stomach	HLA-H	7.50E-07	0.44
rs1061539	6_29937555_T_C_b37	GTEx	Vagina	HLA-H	8.00E-07	0.71
rs1061539	6_29937555_T_C_b37	GTEx	Breast - Mammary Tissue	HLA-H	8.60E-07	0.43
rs1061539	6_29937555_T_C_b37	GTEx	Skin - Not Sun Exposed (Suprapubic)	HLA-J	8.70E-07	0.42
rs1061539	6_29937555_T_C_b37	GTEx	Whole Blood	IFITM4P	9.40E-07	0.39
rs1061539	6_29937555_T_C_b37	GTEx	Spleen	HCG4P7	9.40E-07	-0.56
rs1061539	6_29937555_T_C_b37	GTEx	Cells - EBV-transformed lymphocytes	HLA-F	9.70E-07	-0.33
rs1061539	6_29937555_T_C_b37	GTEx	Whole Blood	MICD	0.0000012	0.36
rs1061539	6_29937555_T_C_b37	GTEx	Brain - Caudate (basal ganglia)	HCG4P7	0.0000014	-0.7
rs1061539	6_29937555_T_C_b37	GTEx	Whole Blood	HLA-F	0.0000016	-0.27
rs1061539	6_29937555_T_C_b37	GTEx	Esophagus - Mucosa	HLA-J	0.0000017	0.36
rs1061539	6_29937555_T_C_b37	GTEx	Whole Blood	HLA-U	0.0000017	0.41
rs1061539	6_29937555_T_C_b37	GTEx	Testis	HCG4B	0.0000021	-0.56
rs1061539	6_29937555_T_C_b37	GTEx	Artery - Tibial	HLA-A	0.0000021	-0.2
rs1061539	6_29937555_T_C_b37	GTEx	Brain - Hypothalamus	HLA-H	0.0000025	0.72
rs1061539	6 29937555 T C b37	GTEx	Skin - Sun Exposed (Lower leg)	HCG4P7	0.000003	-0.37
rs1061539	6_29937555_T_C_b37	GTEx	Esophagus - Muscularis	ABCF1	0.0000032	0.13
rs1061539	6 29937555 T C b37	GTEx	Adipose - Visceral (Omentum)	HLA-W	0.0000041	0.44
rs1061539	6 29937555 T C b37	GTEx	Muscle - Skeletal	HLA-U	0.0000041	0.37
rs1061539	6 29937555 T C b37	GTEx	Brain - Frontal Cortex (BA9)	HLA-H	0.0000043	0.58
rs1061539	6_29937555_T_C_b37	GTEx	Cells - EBV-transformed lymphocytes	HLA-F-AS1	0.0000045	0.49
rs1061539	6_29937555_T_C_b37	GTEx	Stomach	HCG4P7	0.0000052	-0.45
rs1061539	6_29937555_T_C_b37	GTEx	Artery - Coronary	HCG4P7	0.0000053	-0.52
rs1061539	6_29937555_T_C_b37	GTEx	Esophagus - Muscularis	HLA-A	0.000006	-0.29
rs1061539	6_29937555_T_C_b37	GTEx	Heart - Left Ventricle	HLA-U	0.000006	0.49
rs1061539	6_29937555_T_C_b37	GTEx	Brain - Cerebellar Hemisphere	HLA-H	0.0000061	0.73
rs1061539	6_29937555_T_C_b37	GTEx	Brain - Nucleus accumbens (basal ganglia)	HLA-H	0.000007	0.57
rs1061539	6_29937555_T_C_b37	GTEx	Skin - Sun Exposed (Lower leg)	HLA-A	0.000007	-0.22
rs1061539	6_29937555_T_C_b37	GTEx	Small Intestine - Terminal Ileum	HCG4P7	0.0000072	-0.59
rs1061539	6_29937555_T_C_b37	GTEx	Brain - Cortex	HCG4P7	0.0000073	-0.7
rs1061539	6_29937555_T_C_b37	GTEx	Esophagus - Muscularis	HLA-J	0.0000075	0.35
rs1061539	6_29937555_T_C_b37	GTEx	Adipose - Visceral (Omentum)	HLA-U	0.0000077	0.44
rs1061539	6_29937555_T_C_b37	GTEx	Artery - Tibial	HLA-J	0.0000079	0.3
rs1061539	6_29937555_T_C_b37	GTEx	Testis	HCG4P7	0.0000086	-0.46
rs1061539	6_29937555_T_C_b37	GTEx	Liver	HCG4P7	0.0000089	-0.56
rs1061539	6_29937555_T_C_b37	GTEx	Artery - Tibial	HCG4P7	0.0000091	-0.34
rs1061539	6_29937555_T_C_b37	GTEx	Brain - Putamen (basal ganglia)	HLA-H	0.0000092	0.58
rs1061539	6_29937555_T_C_b37	GTEx	Minor Salivary Gland	HLA-H	0.0000097	0.85
rs1061539	6_29937555_T_C_b37	GTEx	Liver	HLA-K	0.00001	-0.5
rs1061539	6_29937555_T_C_b37	GTEx	Thyroid	HLA-W	0.000011	0.36
rs1061539	6_29937555_T_C_b37	GTEx	Esophagus - Mucosa	HLA-K	0.000011	-0.39
rs1061539	6_29937555_T_C_b37	GTEx	Lung	HLA-U	0.000011	0.4
rs1061539	6_29937555_T_C_b37	GTEx	Colon - Transverse	HCG4P7	0.000012	-0.43

rs1061539	6_29937555_T_C_b37	GTEx	Brain - Caudate (basal ganglia)	HLA-H	0.000012	0.5
rs1061539	6_29937555_T_C_b37	GTEx	Muscle - Skeletal	HLA-J	0.000013	0.3
rs1061539	6_29937555_T_C_b37	GTEx	Prostate	HCG4P7	0.000013	-0.68
rs1061539	6_29937555_T_C_b37	GTEx	Pancreas	HCG4P7	0.000014	-0.49
rs1061539	6_29937555_T_C_b37	GTEx	Artery - Aorta	HCG4B	0.000014	-0.46
rs1061539	6_29937555_T_C_b37	GTEx	Nerve - Tibial	ZNRD1-AS1	0.000014	-0.17
rs1061539	6_29937555_T_C_b37	GTEx	Ovary	HLA-K	0.000015	-0.6
rs1061539	6_29937555_T_C_b37	GTEx	Adipose - Visceral (Omentum)	HLA-J	0.000017	0.32
rs1061539	6_29937555_T_C_b37	GTEx	Esophagus - Gastroesophageal Junction	HCG4P7	0.000017	-0.45
rs1061539	6_29937555_T_C_b37	GTEx	Skin - Sun Exposed (Lower leg)	RNF39	0.000018	0.14
rs1061539	6_29937555_T_C_b37	GTEx	Colon - Sigmoid	HLA-H	0.000019	0.49
rs1061539	6_29937555_T_C_b37	GTEx	Adipose - Visceral (Omentum)	ZFP57	0.00002	0.39
rs1061539	6_29937555_T_C_b37	GTEx	Nerve - Tibial	HLA-J	0.000023	0.33
rs1061539	6_29937555_T_C_b37	GTEx	Thyroid	HLA-U	0.000024	0.36
rs1061539	6 29937555 T C b37	GTEx	Brain - Cerebellum	HLA-H	0.000026	0.68
rs1061539	6 29937555 T C b37	GTEx	Skin - Sun Exposed (Lower leg)	TRIM31-AS1	0.000027	0.32
rs1061539	6_29937555_T_C_b37	GTEx	Nerve - Tibial	HLA-A	0.000027	-0.2
rs1061539	6 29937555 T C b37	GTEx	Esophagus - Mucosa	HCG4B	0.000027	-0.35
rs1061539	6 29937555 T C b37	GTEx	Heart - Atrial Appendage	HLA-F-AS1	0.000029	0.3
rs1061539	6 29937555 T C b37	GTEx	Ovary	HCG4B	0.000029	-0.6
rs1061539	6 29937555 T C b37	GTEx	Brain - Cortex	HLA-H	0.000031	0.44
rs1061539	6 29937555 T C b37	GTEx	Artery - Coronary	HLA-H	0.000032	0.51
rs1061539	6 29937555 T C b37	GTEx	Esophagus - Gastroesophageal Junction	HLA-A	0.000033	-0.31
rs1061539	6 29937555 T C b37	GTEx	Brain - Caudate (basal ganglia)	HLA-K	0.000034	-0.59
rs1061539	6 29937555 T C b37	GTEx	Esophagus - Mucosa	PPP1R11	0.000036	0.15
rs1061539	6 29937555 T C b37	GTEx	Adipose - Subcutaneous	ZDHHC20P1	0.000037	0.33
rs1061539	6 29937555 T C b37	GTEx	Lung	HLA-F-AS1	0.000038	0.16
rs1061539	6 29937555 T C b37	GTEx	Whole Blood	HCG9	0.000039	0.3
rs1061539	6 29937555 T C b37	GTEx	Artery - Tibial	HLA-F-AS1	0.000039	0.2
rs1061539	6 29937555 T C b37	GTEx	Adrenal Gland	HLA-G	0.000042	0.52
rs1061539	6 29937555 T C b37	GTEx	Skin - Sun Exposed (Lower leg)	HLA-J	0.000044	0.32
rs1061539	6 29937555 T C b37	GTEx	Cells - Transformed fibroblasts	HLA-U	0.000046	0.43
rs1061539	6 29937555 T C b37	GTEx	Adipose - Subcutaneous	HLA-A	0.000048	-0.18
rs1061539	6 29937555 T C b37	GTEx	Brain - Cerebellar Hemisphere	HLA-W	0.000049	0.59
rs1061539	6 29937555 T C b37	GTEx	Lung	MICD	0.000063	0.36
rs1061539	6 29937555 T C b37	GTEx	Skin - Not Sun Exposed (Suprapubic)	RNF39	0.000065	0.18
rs1061539	6 29937555 T C b37	GTEx	Thyroid	HLA-J	0.000065	0.22
rs1061539	6_29937555_T_C_b37	GTEx	Skin - Not Sun Exposed (Suprapubic)	HLA-L	0.000071	0.34
rs1061539	6 29937555 T C b37	GTEx	Thyroid	HLA-G	0.000071	0.28
rs1061539	6 29937555 T C b37	GTEx	Adipose - Subcutaneous	HLA-J	0.000076	0.3
rs1061539	6 29937555 T C b37	GTEx	Nerve - Tibial	RPL23AP1	0.000084	0.33
rs1061539	6 29937555 T C b37	GTEx	Muscle - Skeletal	HLA-L	0.000096	0.25
rs1061539	6 29937555 T C b37	GTEx	Esophagus - Muscularis	HLA-G	0.00011	0.37
rs1061539	6_29937555_T_C_b37	GTEx	Skin - Sun Exposed (Lower leg)	HLA-F	0.00012	-0.23
rs9719461	7:632715:C:T	BIOSQTL	BIOS_eQTL_geneLevel	PRKAR1B	7.43E-15	0
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rs9719461	7:632715:C:T	GTEx	Lung	AC147651.4	1.40E-07	-0.22
rs2263321	6 31340908 G A b37	GTEx	Adipose - Subcutaneous	NOTCH4	1.70E-11	-0.21
rs2263321	6 31340908 G A b37	GTEx	Skin - Not Sun Exposed (Suprapubic)	MICA	6.60E-10	0.26
rs2263321	6 31340908 G A b37	GTEx	Skin - Sun Exposed (Lower leg)	MICA	1.80E-09	0.29
rs2263321	6 31340908 G A b37	GTEx	Esophagus - Mucosa	MICA	3.20E-09	0.27
rs2263321	6 31340908 G A b37	GTEx	Breast - Mammary Tissue	MICA	4.30E-09	0.34
rs2263321	6_31340908_G_A_b37	GTEx	Testis	MICA	5.30E-09	0.37
rs2263321	6 31340908 G A b37	GTEx	Heart - Atrial Appendage	MICA	5.60E-09	0.34
rs2263321	6 31340908 G A b37	GTEx	Esophagus - Muscularis	MICA	9.80E-09	0.28
rs2263321	6 31340908 G A b37	GTEx	Whole Blood	MICA	2.50E-08	0.24
rs2263321	6 31340908 G A b37	GTEx	Adipose - Subcutaneous	MICA	4.50E-08	0.26
rs2263321	6 31340908 G A b37	GTEx	Lung	MICA	7.70E-08	0.24
rs2263321	6_31340908_G_A_b37	GTEx	Colon - Transverse	CCHCR1	9.10E-08	0.22
rs2263321	6_31340908_G_A_b37	GTEx	Muscle - Skeletal	NOTCH4	2.20E-07	-0.19
rs2263321	6 31340908 G A b37	GTEx	Nerve - Tibial	MICA	2.20E-07	0.29
rs2263321	6 31340908 G A b37	GTEx	Muscle - Skeletal	RNF5	4.40E-07	-0.12
rs2263321	6 31340908 G A b37	GTEx	Colon - Transverse	MICA	7.20E-07	0.34
rs2263321	6 31340908 G A b37	GTEx	Lung	Y RNA	0.0000021	0.32
rs2263321	6 31340908 G A b37	GTEx	Esophagus - Gastroesophageal Junction	MICA	0.0000021	0.28
rs2263321	6 31340908 G A b37	GTEx	Adrenal Gland	RNF5	0.0000025	-0.26
rs2263321	6_31340908_G_A_b37	GTEx	Lung	NOTCH4	0.0000056	-0.17
rs2263321	6 31340908 G A b37	GTEx	Skin - Sun Exposed (Lower leg)	NOTCH4	0.0000066	-0.13
rs2263321	6 31340908 G A b37	GTEx	Colon - Sigmoid	MICA	0.0000069	0.3
rs2263321	6 31340908 G A b37	GTEx	Nerve - Tibial	CCHCR1	0.0000074	0.17
rs2263321	6 31340908 G A b37	GTEx	Colon - Transverse	RNF5	0.0000098	-0.17
rs2263321	6_31340908_G_A_b37	GTEx	Adipose - Subcutaneous	PSORS1C3	0.00001	0.29
rs2263321	6_31340908_G_A_b37	GTEx	Artery - Coronary	MICA	0.000013	0.36
rs2263321	6_31340908_G_A_b37	GTEx	Brain - Cerebellum	MICB	0.000014	0.53
rs2263321	6_31340908_G_A_b37	GTEx	Skin - Sun Exposed (Lower leg)	C4B	0.000015	0.26
rs2263321	6_31340908_G_A_b37	GTEx	Adipose - Subcutaneous	CCHCR1	0.000019	0.18
rs2263321	6_31340908_G_A_b37	GTEx	Pancreas	MICA	0.000021	0.37
rs2263321	6_31340908_G_A_b37	GTEx	Artery - Tibial	MICA	0.000021	0.23
rs2263321	6_31340908_G_A_b37	GTEx	Cells - EBV-transformed lymphocytes	C4A	0.000023	-0.54
rs2263321	6_31340908_G_A_b37	GTEx	Brain - Cerebellar Hemisphere	MICB	0.000029	0.54
rs2263321	6_31340908_G_A_b37	GTEx	Esophagus - Mucosa	C4A	0.000033	-0.24
rs2263321	6_31340908_G_A_b37	GTEx	Skin - Not Sun Exposed (Suprapubic)	GPANK1	0.000036	-0.14
rs2263321	6_31340908_G_A_b37	GTEx	Thyroid	CYP21A1P	0.000036	-0.21
rs2263321	6_31340908_G_A_b37	GTEx	Skin - Sun Exposed (Lower leg)	C4A	0.000038	-0.23
rs2263321	6_31340908_G_A_b37	GTEx	Whole Blood	C4B	0.000043	0.3
rs2263321	6_31340908_G_A_b37	GTEx	Thyroid	MICA	0.000045	0.21
rs2263321	6_31340908_G_A_b37	GTEx	Brain - Cerebellum	C4A	0.000045	-0.5
rs2263321	6_31340908_G_A_b37	GTEx	Skin - Not Sun Exposed (Suprapubic)	C4A	0.000048	-0.31
rs2263321	6_31340908_G_A_b37	GTEx	Nerve - Tibial	RNF5	0.000057	-0.12
rs2263321	6_31340908_G_A_b37	GTEx	Artery - Aorta	MICB	0.000058	0.29
rs2263321	6_31340908_G_A_b37	GTEx	Nerve - Tibial	C4A	0.000062	-0.24

rs2263321	6 31340908 G A b37	GTEx	Esophagus - Muscularis	AGER	0.000063	0.12
rs2263321	6 31340908 G A b37	GTEx	Esophagus - Muscularis	RNF5	0.000064	-0.12
rs2263321	6 31340908 G A b37	GTEx	Lung	C4A	0.000065	-0.19
rs2263321	6 31340908 G A b37	GTEx	Cells - Transformed fibroblasts	MICA	0.000068	0.28
rs2263321	6 31340908 G A b37	GTEx	Thyroid	C4A	0.000069	-0.19
rs2263321	6 31340908 G A b37	GTEx	Thyroid	RNF5	0.000089	-0.14
rs75522736	6 135015921 A G b37	GTEx	Testis	RP11-557H15.5	0.0000017	0.38
rs62512472	8:87595590:A:G	BIOSQTL	BIOS eQTL geneLevel	CPNE3	8.62E-08	6.72E-05
rs62512472	8:87595590:A:G	BIOSQTL	BIOS_eQTL_geneLevel	CPNE3	3.81E-08	4.57E-05
rs62512472	8:87595590:A:G	BIOSQTL	BIOS eQTL geneLevel	WWP1	7.29E-10	0
rs62512472	8:87595590:A:G	BIOSQTL	BIOS_eQTL_geneLevel	RMDN1	8.62E-08	6.72E-05
rs62512472	8:87595590:A:G	BIOSQTL	BIOS_eQTL_geneLevel	RMDN1	9.52E-10	6.18E-06
rs62512472	8:87595590:A:G	GTEx	Muscle_Skeletal	CPNE3	3.24E-06	0.00030405
rs62512472	8:87595590:A:G	GTEx		CPNE3	3.47E-09	0.000534732
rs584768	19:49213284:A:G	BIOSQTL	BIOS_eQTL_geneLevel	SULT2B1	7.47E-14	0
rs584768	19:49213284:A:G	BIOSQTL	BIOS_eQTL_geneLevel	RASIP1	4.63E-05	0.027237829
rs584768	19:49213284:A:G	BIOSQTL	BIOS_eQTL_geneLevel	NTN5	3.16E-25	0
rs584768	19:49213284:A:G	BIOSQTL	BIOS_eQTL_geneLevel	NTN5	9.03E-39	0
rs584768	19:49213284:A:G	BIOSQTL	BIOS_eQTL_geneLevel	MAMSTR	7.79E-06	0.00537018
rs584768	19:49213284:A:G	BIOSQTL	BIOS_eQTL_geneLevel	FUT2	2.11E-05	0.013530268
rs584768	19:49213284:A:G	BIOSQTL	BIOS_eQTL_geneLevel	SPACA4	1.26E-06	0.00106743
rs584768	19:49213284:A:G	BIOSQTL	BIOS_eQTL_geneLevel	SEC1P	3.16E-25	0
rs584768	19:49213284:A:G	BIOSQTL	BIOS_eQTL_geneLevel	SEC1P	3.12E-20	0
rs584768	19:49213284:A:G	GTEx	Skin_Not_Sun_Exposed_Suprapubic	FUT2	2.54E-16	0.000506735
rs584768	19:49213284:A:G	GTEx	Skin_Sun_Exposed_Lower_leg	FAM83E	7.94E-06	0.000534732
rs584768	19:49213284:A:G	GTEx	Skin_Sun_Exposed_Lower_leg	RASIP1	1.14E-10	0.00028813
rs584768	19:49213284:A:G	GTEx	Skin_Sun_Exposed_Lower_leg	NTN5	2.45E-12	0.00028813
rs584768	19:49213284:A:G	GTEx	Skin_Sun_Exposed_Lower_leg	FUT2	1.87E-17	0.00028813
rs584768	19:49213284:A:G	GTEx	Testis	NTN5	1.02E-05	0.014041672
rs584768	19:49213284:A:G	GTEx	Small_Intestine_Terminal_Ileum	FUT2	8.18E-07	0.00863027
rs584768	19:49213284:A:G	GTEx	Stomach	FUT2	1.19E-20	0.000924705
rs584768	19:49213284:A:G	GTEx	Testis	RASIP1	6.39E-12	0.000378299
rs584768	19:49213284:A:G	GTEx	Skin_Not_Sun_Exposed_Suprapubic	NTN5	1.44E-06	0.000506735
rs584768	19:49213284:A:G	GTEx	Testis	IZUMO1	2.42E-06	0.000378299
rs584768	19:49213284:A:G	GTEx	Skin_Sun_Exposed_Lower_leg	SEC1P	1.80E-06	0.00028813
rs584768	19:49213284:A:G	GTEx	Cells_Transformed_fibroblasts	FUT2	8.81E-08	0.00020866
rs584768	19:49213284:A:G	GTEx	Muscle_Skeletal	MAMSTR	1.86E-07	0.00030405
rs584768	19:49213284:A:G	GTEx	Pancreas	FUT2	1.72E-19	0.00061307
rs584768	19:49213284:A:G	GTEx	Nerve_Tibial	NTN5	2.66E-06	0.000222679
rs584768	19:49213284:A:G	GTEx	Thyroid	NTN5	1.72E-11	0.000224494
rs584768	19:49213284:A:G	GTEx	Lung	SEC1P	6.62E-06	0.001906954
rs584768	19:49213284:A:G	GTEx	Lung	IZUMO1	4.47E-07	0.00038378
rs584768	19:49213284:A:G	GTEx	Lung	FUT2	3.95E-06	0.00303134
rs584768	19:49213284:A:G	GTEx	Heart_Left_Ventricle	MAMSTR	6.93E-09	0.000596884
rs584768	19:49213284:A:G	GTEx	Heart_Atrial_Appendage	MAMSTR	2.56E-06	0.000720745

rs584768	19:49213284:A:G	GTEx	Esophagus_Mucosa	FUT2	6.87E-60	0.000312239
rs584768	19:49213284:A:G	GTEx	Esophagus_Mucosa	RASIP1	1.00E-10	0.000312239
rs584768	19:49213284:A:G	GTEx	Colon_Transverse	FUT2	1.96E-09	0.000674021
rs584768	19:49213284:A:G	GTEx	Adrenal_Gland	IZUMO1	9.88E-08	0.000904241
rs584768	19:49213284:A:G	GTEx	Cells_Transformed_fibroblasts	RASIP1	9.97E-19	0.00020866
rs584768	19:49213284:A:G	GTEx	Thyroid	SEC1P	3.66E-07	0.000224494
rs2089657	2:30470178:C:T	BIOSQTL	BIOS_eQTL_geneLevel	LBH	3.88E-25	0
rs2089657	2:30470178:C:T	BIOSQTL	BIOS_eQTL_geneLevel	LBH	1.45E-21	0
rs2089657	2:30470178:C:T	GTEx	Artery_Tibial	LBH	1.25E-05	0.000705943
rs2089657	2:30470178:C:T	GTEx	Heart_Left_Ventricle	LBH	5.90E-06	0.005737529

Category	GeneSet	N (genes) N (over	lap) P-value	
DEG.twoside	Adipose_Visceral_Omentum	2587	17	7.58E-0
DEG.twoside	Cervix_Endocervix	8	1	0.00018968
DEG.twoside	Breast_Mammary_Tissue	2162	14	0.0003705
DEG.twoside	Stomach	2429	15	0.0004036
DEG.twoside	Artery_Coronary	2192	13	0.00137597
DEG.twoside	Colon_Transverse	2780	15	0.00176115
DEG.twoside	Brain_Cerebellum	6852	28	0.00210676
DEG.twoside	Uterus	2872	15	0.00247301
DEG.twoside	Muscle_Skeletal	6031	25	0.00333814
DEG.twoside	Artery_Tibial	3419	16	0.00582014
DEG.twoside	Pancreas	6296	25	0.00625095
DEG.twoside	Brain_Cerebellar_Hemisphere	6727	26	0.00765116
DEG.twoside	Lung	3240	15	0.00818858
DEG.twoside	Adipose_Subcutaneous	2667	13	0.00828211
DEG.twoside	Esophagus_Muscularis	2421	12	0.0092683
DEG.twoside	Pituitary	5402	21	0.01638039
DEG.twoside	Brain_Frontal_Cortex_BA9	6776	25	0.01708005
DEG.twoside	Heart_Left_Ventricle	6477	24	0.01864574
DEG.twoside	Skin_Sun_Exposed_Lower_leg	4183	17	0.01935803
DEG.twoside	Esophagus Mucosa	4518	18	0.02006838
DEG.twoside	Minor_Salivary_Gland	2398	11	0.02099760
DEG.twoside	Thyroid	3952	16	0.02351497
DEG.twoside	Brain Anterior cingulate cortex BA24	6966	25	0.02435842
DEG.twoside	Brain Hippocampus	7018	25	0.02673681
DEG.twoside	Brain Nucleus accumbens basal ganglia	6761	24	0.03144309
DEG.twoside	Ovary	4177	16	0.03821936
DEG.twoside	Brain Cortex	6589	23	0.04247931
DEG.twoside	Brain_Putamen_basal_ganglia	6966	24	0.04440659
DEG.twoside	Small_Intestine_Terminal_Ileum	3615	14	0.04500756
DEG.twoside	Brain Hypothalamus	6633	23	0.04568279
DEG.twoside	Brain_Substantia_nigra	6588	22	0.07351487
DEG.twoside	Brain Spinal cord cervical c-1	6596	22	0.07438784
DEG.twoside	Skin Not Sun Exposed Suprapubic	4212	15	0.0757942
DEG.twoside	Brain Amygdala	7026	23	0.08300267
DEG.twoside	Brain Caudate basal ganglia	6697	22	0.0860588
DEG.twoside	Bladder	259	1	0.14927443
DEG.twoside	Whole_Blood	6935	21	0.18183560
DEG.twoside	Adrenal Gland	3828	12	0.19940534
DEG.twoside	Esophagus Gastroesophageal Junction	2144	7	0.20098196
DEG.twoside	Spleen	4937	15	0.2147170
DEG.twoside	Heart Atrial Appendage	4938	15	0.21496701
DEG.twoside	Nerve Tibial	2928	9	0.2384351
DEG.twoside	Artery_Aorta	3104	9	0.29881678

Supplemental Table 8. Results from FUMA tissue enrichment analysis.

DEG.twoside	Kidney_Cortex	2413	7	0.302195859
DEG.twoside	Vagina	2071	6	0.303970061
DEG.twoside	Testis	10243	28	0.348457942
DEG.twoside	Cells_Transformed_fibroblasts	4440	12	0.387227203
DEG.twoside	Cells_EBV-transformed_lymphocytes	6132	16	0.4543603
DEG.twoside	Liver	6687	17	0.509182603
DEG.twoside	Prostate	2916	7	0.510981412
DEG.twoside	Colon_Sigmoid	2391	5	0.614449565
DEG.twoside	Cervix_Ectocervix	2	0	1
DEG.twoside	Fallopian_Tube	14	0	1

	GeneSet	N (genes) N (overl	ap) P-valu	e Genes
Canonical pathways	Gata3 pathway	16	2	3.06E-06 NFATC2, PRKAR1B
	VEGF signaling pathway	76	3	1.11E-05 SPHK2, PPP3R1, NFATC2
	VIP pathway	27	2	1.58E-05 NFATC2, PRKAR1B
	T-cell receptor/Ca2+ pathway	29	2	1.97E-05 PPP3R1, NFATC2
	Extracellular matrix glycoproteins	195	4	2.76E-05 NTN5, FBN2, RSPO3, TNC
	GPCR pathway	35	2	3.49E-05 NFATC2, PRKAR1B
	Regulation of insulin secretion by glucagon-like peptide1	42	2	6.07E-05 RAPGEF3, PRKAR1B
	pid delta np63 pathway	47	2	8.52E-05 VDR, WWP1
	NFAT pathway	54	2	1.29E-04 PPP3R1, NFATC2
	TAp63 pathway	54	2	1.29E-04 VDR, WWP1
	NFAT pathway	54	2	1.29E-04 NFATC2, PRKAR1B
	Core matrisome	274	4	1.38E-04 NTN5, FBN2, RSPO3, TNC
	IL-12 pathway	63	2	2.04E-04 SPHK2, PPP3R1
	CD8+ T-cell receptor downstream pathway	65	2	2.24E-04 PPP3R1, NFATC2
	Long term potentiation	70	2	2.79E-04 RAPGEF3, PPP3R1
	Transcriptional regulation of white adipocyte differentiation	70	2	3.04E-04 NR2F2, EBF1
	B cell receptor signaling pathway	72 75	2	3.42E-04 PPP3R1, NFATC2
	Opioid signalling	75	2	3.70E-04 PPP3R1, PRKAR1B
	Integrin cell surface interactions	77	2	3.84E-04 RAPGEF3, TNC
	-	78 87	2	
	Apoptosis			5.29E-04 PPP3R1, PRKAR1B
	Regulation of insulin secretion	91	2	6.03E-04 RAPGEF3, PRKAR1B
	T cell receptor signaling pathway	108	2	9.92E-04 PPP3R1, NFATC2
	Integration of energy metabolism	118	2	1.28E-03 RAPGEF3, PRKAR1B
	Axon guidance	129	2	1.65E-03 PPP3R1, NFATC2
	Natural killer cell mediated cytotoxicity	132	2	1.77E-03 PPP3R1, NFATC2
	WNT signaling pathway	149	2	2.49E-03
iological processes	vasculature development	468	7	1.96E-06 RAPGEF3:HDAC7:NR2F2:SPHK2:RASIP1:SOX18:RSPO3
	nucleotide salvage	14	2	2.00E-06 APRT:UCKL1
	cellular response to vitamin d	14	2	2.00E-06 VDR:TNC
	nucleoside salvage	17	2	3.71E-06 APRT:UCKL1
	vasculogenesis	59	3	4.03E-06 HDAC7:RASIP1:SOX18
	blood vessel morphogenesis	364	6	4.17E-06 RAPGEF3:HDAC7:NR2F2:RASIP1:SOX18:RSPO3
	inositol phosphate mediated signaling	18	2	4.45E-06 PPP3R1:NFATC2
	lymph vessel development	20	2	6.20E-06 NR2F2:SOX18
	endothelial cell differentiation	72	3	8.95E-06 RAPGEF3:NR2F2:SOX18
	positive regulation of gene expression	1729	12	1.03E-05 RAPGEF3:VDR:NR2F2:DBP:MAMSTR:LBH:PPP3R1:NFATC2:PRPF6:SOX18:EBF1:TNC
	positive regulation of transcription from rna polymerase ii promoter	1003	9	1.15E-05 RAPGEF3:VDR:DBP:MAMSTR:PPP3R1:NFATC2:PRPF6:SOX18:EBF1
	regulation of syncytium formation by plasma membrane fusion	25	2	1.24E-05 RAPGEF3:NFATC2
	morphogenesis of a branching structure	167	4	1.31E-05 VDR:RASIP1:RSPO3:TNC
	cellular response to vitamin	26	2	1.40E-05 VDR:TNC
	regulation of transcription from rna polymerase ii promoter	1780	12	1.41E-05 RAPGEF3:HDAC7:VDR:NR2F2:SNAI3:DBP:MAMSTR:PPP3R1:NFATC2:PRPF6:SOX18:EBF1
	positive regulation of potassium ion transmembrane transport	27	2	1.58E-05 RAPGEF3:KCNJ2
	positive regulation of myotube differentiation	29	2	1.97E-05 MAMSTR:NFATC2
	endothelium development	89	3	2.08E-05 RAPGEF3:NR2F2:SOX18
	establishment of endothelial barrier	30	2	2.18E-05 RAPGEF3:SOX18
	maternal placenta development	31	2	2.41E-05 VDR:NR2F2
	response to vitamin d	33	2	2.92E-05 VDR:TNC
	regulation of body fluid levels	506	6	3.49E-05 VDR:APRT:LBH:PLEK:OPRL1:PRKAR1B
	positive regulation of potassium ion transport	38	2	4.48E-05 RAPGEF3:KCNJ2
	cellular metabolic compound salvage	38	2	4.48E-05 APRT:UCKL1
	cellular response to nutrient	39	2	4.85E-05 VDR:TNC
	nucleobase metabolic process	39	2	4.85E-05 APRT:UCKL1
	lactation	39 41	2	4.83E-05 VDR:APRT 5.64E-05 VDR:APRT
		41 45	2	5.04E-05 VDR:APR1 7.48E-05 VDR:PLEK
	regulation of alcohol biosynthetic process endothelial cell development	45	2	7.48E-05 RAPGEF3:SOX18

gland development	395	5	7.86E-05 RAPGEF3:VDR:APRT:DBP:TNC
cardiovascular system development	787	7	8.21E-05 RAPGEF3:HDAC7:NR2F2:SPHK2:RASIP1:SOX18:RSPO3
circulatory system development	787	7	8.21E-05 RAPGEF3:HDAC7:NR2F2:SPHK2:RASIP1:SOX18:RSPO3
morphogenesis of an epithelium	400	5	8.42E-05 VDR:RASIP1:SOX18:RSPO3:TNC
positive regulation of actin filament bundle assembly	48	2	9.08E-05 RAPGEF3:PLEK
branching morphogenesis of an epithelial tube	131	3	9.42E-05 VDR:RASIP1:TNC
cellular response to calcium ion	49	2	9.66E-05 CPNE7:CPNE3
placenta development	138	3	0.000115131 VDR:NR2F2:RSPO3
	52	2	0.000115131 VDR.NR2F2.RSF05 0.00011539 MAMSTR:NFATC2
positive regulation of striated muscle cell differentiation		4	
cellular response to external stimulus	264 55	4	0.000115705 HDAC7:VDR:KCNJ2:TNC 0.000136454 MAMSTR:NFATC2
regulation of myotube differentiation			
organophosphate biosynthetic process	450	5	0.000159961 APRT:CPNE7:SPHK2:UCKL1:CPNE3
potassium ion transport	153	3	0.000171227 KCNJ2:SLC12A2:CNGB3
maternal process involved in female pregnancy	60	2	0.000176848 VDR:NR2F2
organophosphate metabolic process	883	7	0.000180877 APRT:CPNE7:SULT2B1:SPHK2:PLEK:UCKL1:CPNE3
regulation of potassium ion transmembrane transport	61	2	0.000185757 RAPGEF3:KCNJ2
angiogenesis	293	4	0.000187927 RAPGEF3:RASIP1:SOX18:RSPO3
second messenger mediated signaling	160	3	0.000203217 RAPGEF3:PPP3R1:NFATC2
epithelium development	943	7	0.000281869 RAPGEF3:VDR:NR2F2:RASIP1:SOX18:RSPO3:TNC
body fluid secretion	71	2	0.000291239 VDR:APRT
tube morphogenesis	323	4	0.000294536 VDR:RASIP1:SOX18:TNC
negative regulation of transcription from rna polymerase ii promoter	739	6	0.0003611 HDAC7:VDR:NR2F2:SNAI3:NFATC2:SOX18
regulation of actin filament bundle assembly	77	2	0.000369889 RAPGEF3:PLEK
tissue morphogenesis	533	5	0.00039552 VDR:RASIP1:SOX18:RSPO3:TNC
cellular response to mechanical stimulus	80	2	0.000413856 HDAC7:KCNJ2
regulation of potassium ion transport	83	2	0.000461048 RAPGEF3:KCNJ2
embryonic placenta development	83	2	0.000461048 NR2F2:RSPO3
nucleoside monophosphate biosynthetic process	83	2	0.000461048 APRT:UCKL1
cellular response to hormone stimulus	551	5	0.000471232 VDR:NR2F2:APRT:PRKAR1B:TNC
positive regulation of muscle cell differentiation	84	2	0.000477513 MAMSTR:NFATC2
regulation of striated muscle cell differentiation	85	2	0.000494349 MAMSTR:NFATC2
response to alcohol	362	4	0.000495286 VDR:NR2F2:OPRL1:TNC
phospholipid metabolic process	364	4	0.000507801 CPNE7:SPHK2:PLEK:CPNE3
regulation of coagulation	88	2	0.00054713 LBH:PLEK
regulation of cation transmembrane transport	208	3	0.000549006 RAPGEF3:KCNJ2:OPRL1
response to mechanical stimulus	210	3	0.000569059 HDAC7:KCNJ2:TNC
calcium mediated signaling	90	2	0.000584243 PPP3R1:NFATC2
multi multicellular organism process	213	3	0.000600107 VDR:NR2F2:SPHK2
gland morphogenesis	97	2	0.000726701 VDR:TNC
positive regulation of cation transmembrane transport	97	2	0.000726701 RAPGEF3:KCNJ2
response to vitamin	98	2	0.000748691 VDR:TNC
reproductive system development	400	4	0.000776431 VDR:NR2F2:RSPO3:TNC
embryonic organ development	406	4	0.000829887 NR2F2:SOX18:FBN2:RSPO3
renal system process	102	2	0.000840879 OPRL1:PRKAR1B
phospholipid biosynthetic process	235	3	0.000865648 CPNE7:SPHK2:CPNE3
response to hormone	891	6	0.00108609 VDR:NR2F2:APRT:OPRL1:PRKAR1B:TNC
regulation of osteoblast differentiation	112	2	0.001102032 HDAC7:FBN2
regulation of endothelial cell migration	114	2	0.001159717 HDAC7:NR2F2
negative regulation of epithelial cell proliferation	115	2	0.00118926 VDR:NR2F2
response to calcium ion	115	2	0.00118926 CPNE7:CPNE3
cellular response to alcohol	115	2	0.00118926 VDR:TNC
regulation of calcium ion transmembrane transport	116	2	0.001219275 RAPGEF3:OPRL1
mammary gland development	117	2	0.001249764 VDR:APRT
positive regulation of canonical wnt signaling pathway	119	2	0.001312174 RSPO3:RNF146
glycosyl compound biosynthetic process	120	2	0.001344102 APRT:UCKL1
positive regulation of nucleocytoplasmic transport	121	2	0.001376515 RAPGEF3:PPP3R1
negative regulation of nitrogen compound metabolic process	1513	8	0.001486461 HDAC7:VDR:NR2F2:SNAI3:NFATC2:SOX18:OPRL1:WWP1
cellular response to organic cyclic compound	464	4	0.001498926 RAPGEF3:VDR:NR2F2:TNC

steroid hormone mediated signaling pathway	125	2	0.001511075 VDR:NR2F2
negative regulation of protein serine threonine kinase activity	126	2	0.001545956 NR2F2:PRKAR1B
regulation of wound healing	126	2	0.001545956 LBH:PLEK
hepaticobiliary system development	128	2	0.001617224 RAPGEF3:DBP
regulation of camp metabolic process	129	2	0.001653618 RAPGEF3:OPRL1
positive regulation of transmembrane transport	131	2	0.001727935 RAPGEF3:KCNJ2
positive regulation of vasculature development	133	2	0.001804312 RAPGEF3:HDAC7
protein ubiquitination involved in ubiquitin dependent protein catabolic process	134	2	0.001843279 RNF146:WWP1
transcription from rna polymerase ii promoter	721	5	0.001879612 VDR:DBP:NFATC2:SOX18:EBF1
reproduction	1274	7	0.001979537 VDR:NR2F2:SPHK2:IZUMO1:OPRL1:RSPO3:TNC
glycerophospholipid metabolic process	297	3	0.002043719 CPNE7:PLEK:CPNE3
fc epsilon receptor signaling pathway	141	2	0.002130809 PPP3R1:NFATC2
cellular response to endogenous stimulus	1006	6	0.002168361 RAPGEF3:VDR:NR2F2:APRT:PRKAR1B:TNC
fertilization	144	2	0.002262081 NR2F2:IZUMO1
response to estradiol	146	2	0.002352324 NR2F2:OPRL1
regulation of actin filament based process	311	3	0.00241388 RAPGEF3:KCNJ2:PLEK
in utero embryonic development	311	3	0.00241388 NR2F2:SOX18:RSPO3
phosphate containing compound metabolic process	1973	9	0.002624305 APRT:CPNE7:SULT2B1:SPHK2:PPP3R1:PLEK:UCKL1:PRKAR1B:CPNE3
regulation of cellular component movement	771	5	0.002625511 RAPGEF3:HDAC7:NR2F2:KCNJ2:CPNE3
positive regulation of wnt signaling pathway	152	2	0.002636357 RSPO3:RNF146
regulation of muscle cell differentiation	152	2	0.002636357 MAMSTR:NFATC2
regulation of cyclic nucleotide metabolic process	155	2	0.002785968 RAPGEF3:OPRL1
regulation of metal ion transport	325	3	0.002827852 RAPGEF3:KCNJ2:OPRL1
cellular response to inorganic substance	156	2	0.002836978 CPNE7:CPNE3
negative regulation of phosphorus metabolic process	541	4	0.002915585 NR2F2:PLEK:OPRL1:PRKAR1B
negative regulation of phosphate metabolic process	541	4	0.002915585 NR2F2:PLEK:OPRL1:PRKAR1B
hormone mediated signaling pathway	158	2	0.002940721 VDR:NR2F2
cation transport	794	5	0.003035223 VDR:PIEZO1:KCNJ2:SLC12A2:CNGB3
cellular response to oxygen containing compound	797	5	0.003092006 RAPGEF3:VDR:APRT:PRKAR1B:TNC
regeneration	161	2	0.003100673 RAPGEF3:TNC
tube development	552	4	0.003177319 VDR:RASIP1:SOX18:TNC
response to oxygen containing compound	1379	7	0.00322353 RAPGEF3:VDR:NR2F2:APRT:OPRL1:PRKAR1B:TNC
regulation of epithelial cell migration	166	2	0.003378966 HDAC7:NR2F2
intracellular receptor signaling pathway	168	2	0.003494428 VDR:NR2F2
appendage development	169	2	0.00353055 NR2F2:FBN2
limb development	169	2	0.003553055 NR2F2:FBN2
ion transmembrane transport	820	5	0.003554208 PIEZO1:KCNJ2:SLC12A2:WWP1:CNGB3
Hair color	42	8	4.65E-17 SNAI3-AS1:SNAI3:RNF166:CTU2:PIEZO1:MIR4722:APRT:GALNS
Bipolar disorder	176	10	4.05E-17 SNAI5-AS1.SNAI5.KNF100.C102.FIE201.MIR4722.AFK1.0ALNS 1.86E-14 FAM83E:SPHK2:DBP:CA11:SEC1P:NTN5:FUT2:MAMSTR:RASIP1:IZUM
	176	10	7.91E-14 SULT2B1:FAM83E:DBP:CA11:SEC1P:N1N5:F012:MAMS1R:RASIP1:IZ0M
Elevated serum carcinoembryonic antigen levels Retinal vascular caliber	14	4	1.35E-10 CA11:FUT2:RASIP1:IZUMO1
Dietary macronutrient intake	18	4	3.32E-10 FUT2:RASIF1.IZUMO1
Beard thickness	36	4	5.81E-09 CASZ1:CTC-228N24.3:SLC12A2:FBN2
	36 7	4	
Intracranial volume			1.94E-07 RSPO3:RNF146
Vitamin B levels in ischemic stroke	8	2	3.09E-07 FUT2:RASIP1
Tumor biomarkers	10	2	6.61E-07 CA11:FUT2
Crohn's disease	612	8	1.47E-06 SPHK2:DBP:NTN5:FUT2:MAMSTR:RASIP1:IZUMO1:RSPO3
Food addiction	13	2	1.57E-06 RSPO3:RNF146
Subcortical brain region volumes	15	2	2.49E-06 RSPO3:RNF146
Inflammatory bowel disease	719	8	5.46E-06 HDAC7:VDR:NTN5:FUT2:MAMSTR:RASIP1:IZUMO1:TNC
Prostate cancer	317	5	2.32E-05 CALM2P1:UCKL1:ZNF512B:SAMD10:PRPF6
Blood pressure	93	3	2.47E-05 CASZ1:EBF1:RSPO3
Systolic blood pressure	114	3	5.49E-05 CASZ1:FBN2:EBF1
Hypertension	55	2	0.000136454 CASZ1:EBF1
Waist-to-hip ratio adjusted for BMI (adjusted for smoking behaviour)	70	2	0.000279291 KCNJ2:RSPO3
Male-pattern baldness	77	2	0.000369889 EBF1:RSPO3
Waist-to-hip ratio adjusted for body mass index	84	2	0.000477513 KCNJ2:RSPO3
Inflammatory skin disease	85	2	0.000494349 RASIP1:EBF1

GWAS catalog

Hip circumference adjusted for BMI	101
Metabolite levels	115
Cognitive decline rate in late mild cognitive impairment	122
Diastolic blood pressure	125
Breast cancer	139
Height	512
Multiple sclerosis	154

2	0.000817191 KCNJ2:RSPO3
2	0.00118926 PLEK:RSPO3
2	0.001409416 NR2F2:EBF1
2	0.001511075 CASZ1:EBF1
2	0.002045997 EBF1:RNF146
4	0.002300743 LBH:PPP3R1:SLC12A2:FBN2

2 0.002735529 MAMSTR:PLEK

Supplemental Table 10. Results from MR analyses of the association between height and varicose veins. MR results

MITTESUIS						
MR analysis method	Numbers of SNPs	OR	SE	P-value	P-value Heterogeneity	
Maximum likelihood	512	1.262	0.027	9.12E-18	5.57E-02	
MR-Egger	512	1.425	0.078	6.74E-06	6.02E-02	
Inverse-variance weighted	512	1.260	0.028	2.07E-16	5.68E-02	
Weighted median	512	1.282	0.044	1.79E-08		

P-value pleiotropy

0.091

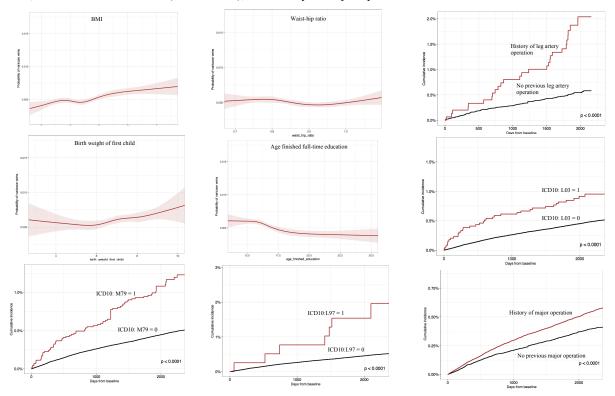
MR using all the GWAS significant SNPs for height

MR analysis method	Numbers of SNPs	OR	SE	P-value	P-value Heterogeneity
Maximum likelihood	536	1.305	0.026	3.98E-24	3.16E-14
MR-Egger	536	1.526	0.086	1.23E-06	5.49E-14
Inverse-variance weighted	536	1.305	0.032	1.24E-16	3.17E-14
Weighted median	536	1.304	0.040	6.83E-10	

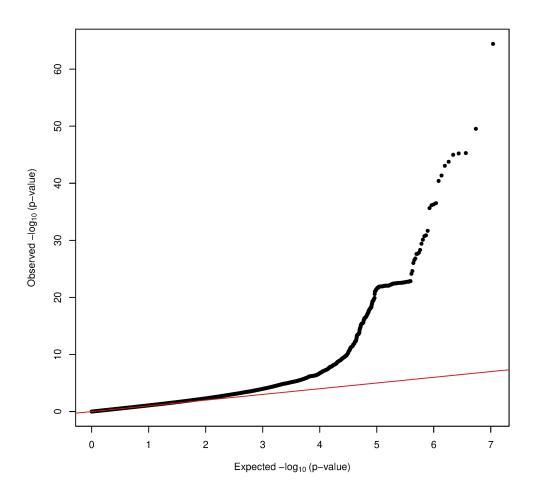
P-value pleiotropy

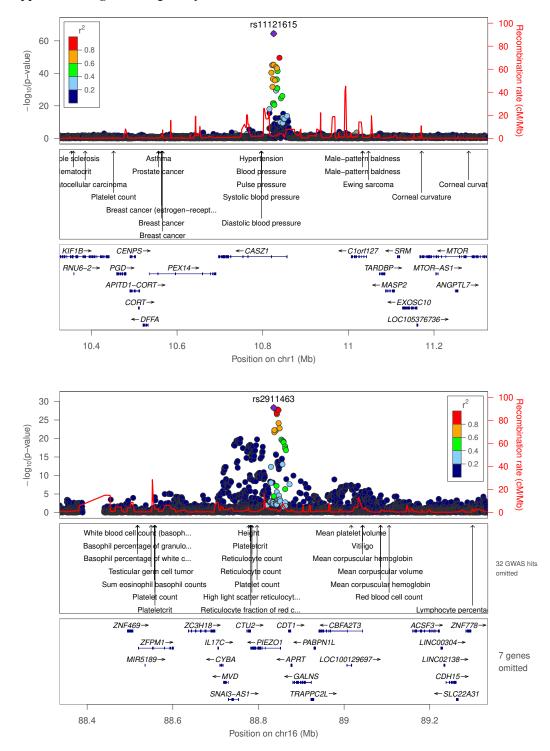
0.050

Supplemental Figure 1: Cox models relating varicose veins to BMI, waist-hip ratio, history of leg artery operation, birth weight of first child, age completed full time education, cellulitis and acute lymphangitis (ICD10: L03), other and unspecified soft tissue disorders; not elsewhere classified (ICD10: M79), non-pressure chronic ulcer of lower limb; not elsewhere classified (ICD10: L97), and history of major operation.

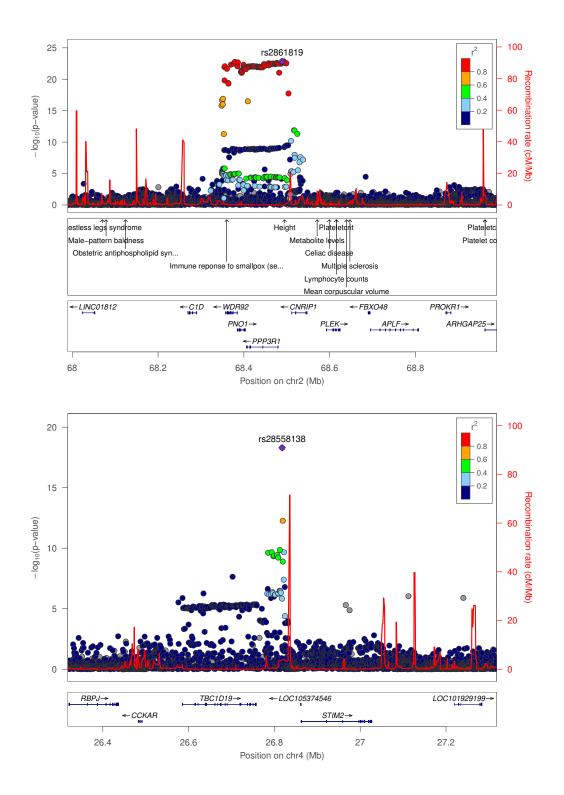


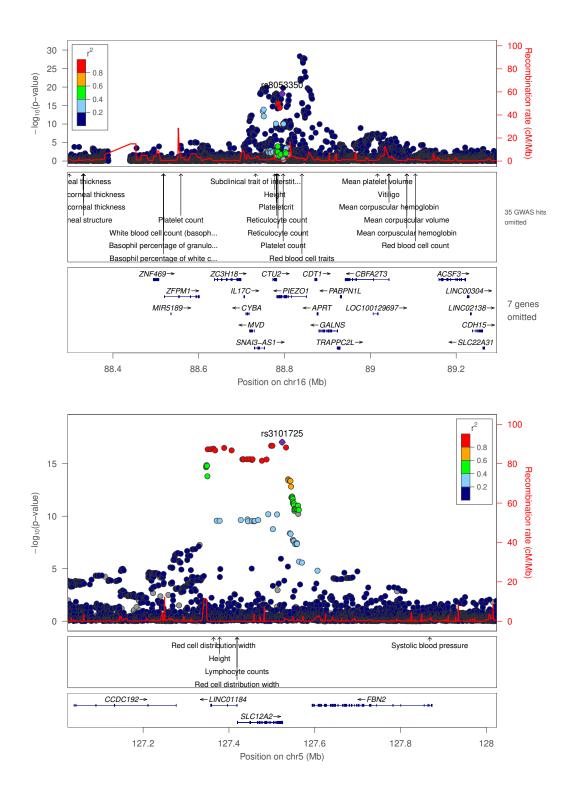
Supplemental Figure 2: Quantile-quantile (QQ) of the expected vs. observed log p-values for genome-wide association results for varicose veins.

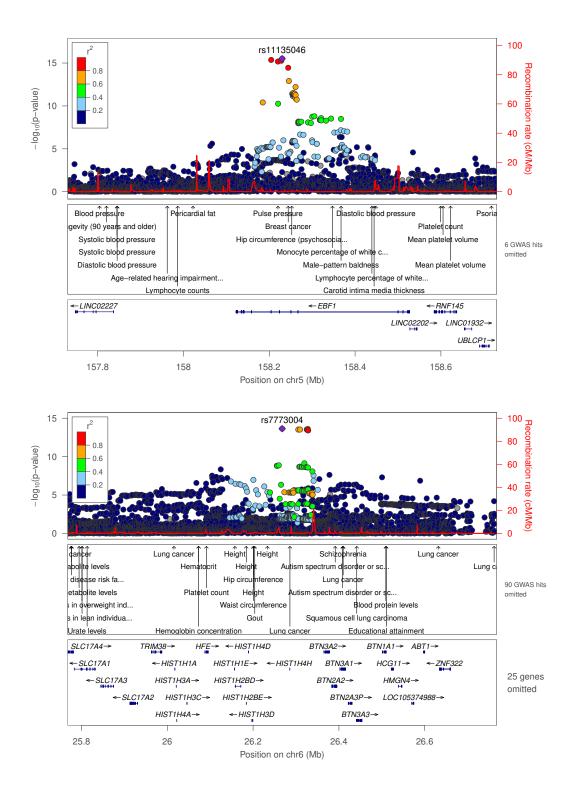


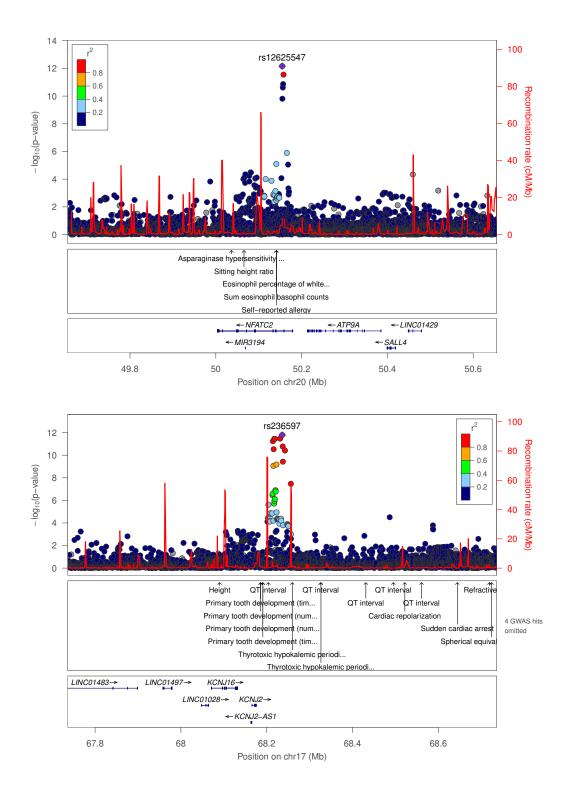


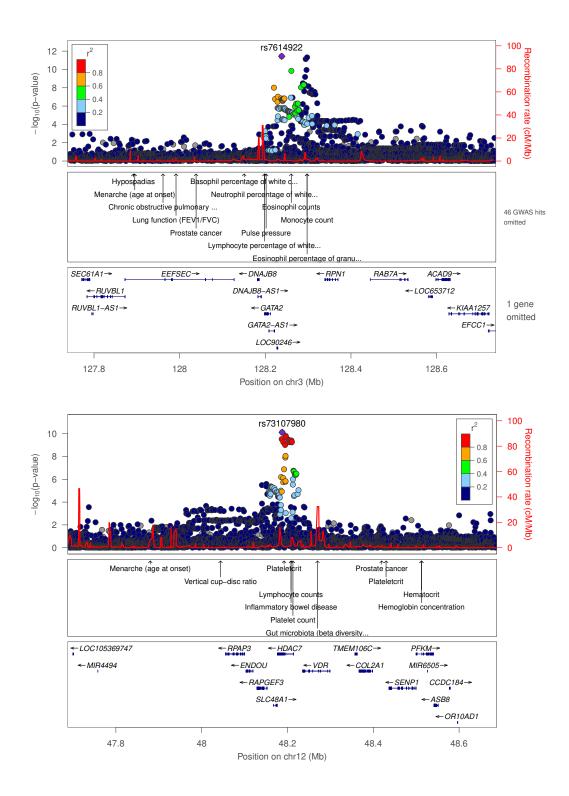
Supplemental Figure 3: Regional plots of the 30 novel loci associated with varicose veins.

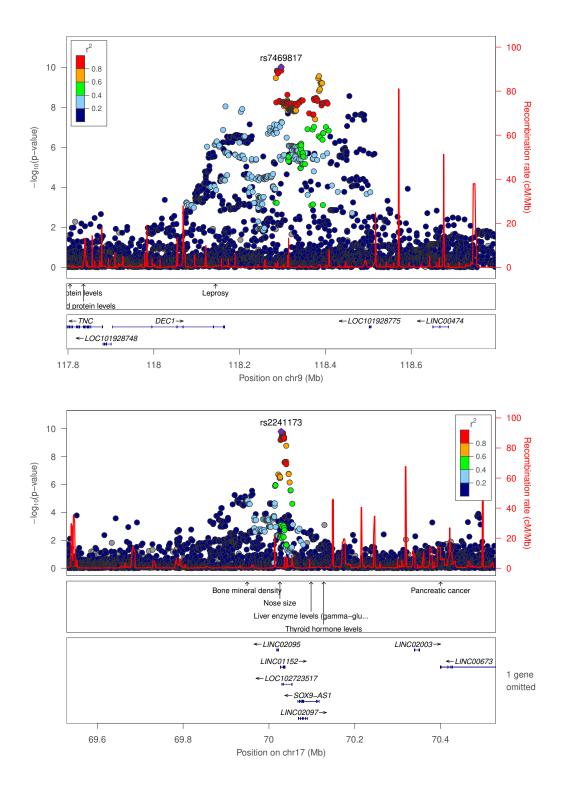


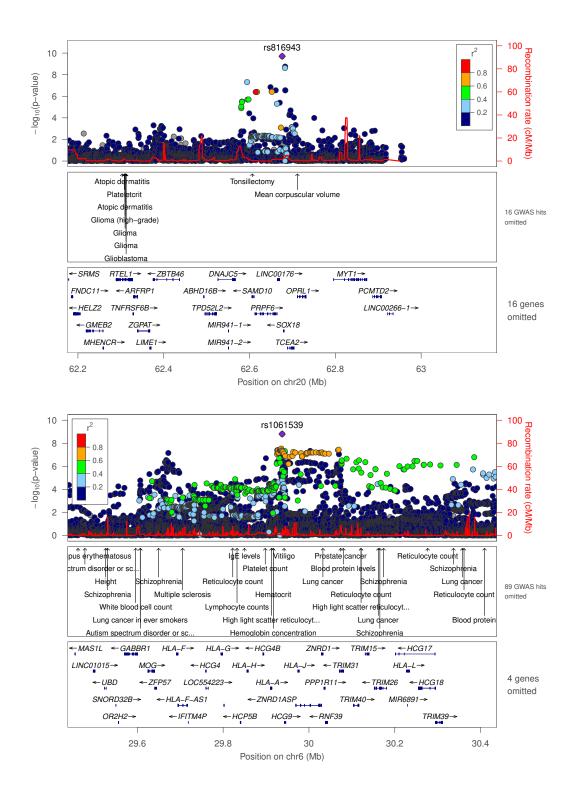


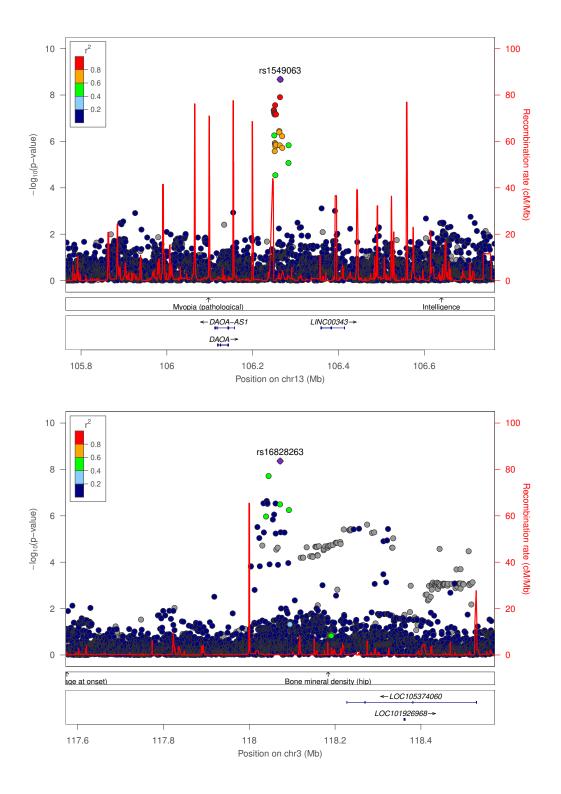


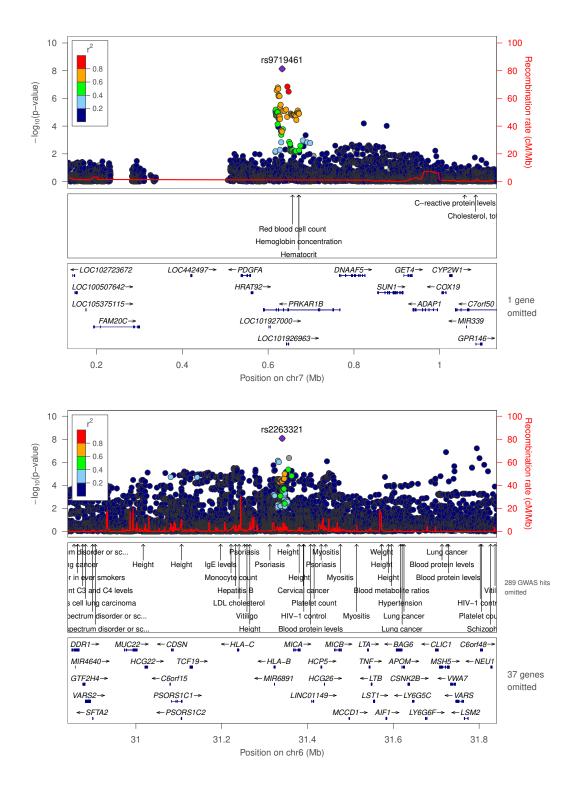


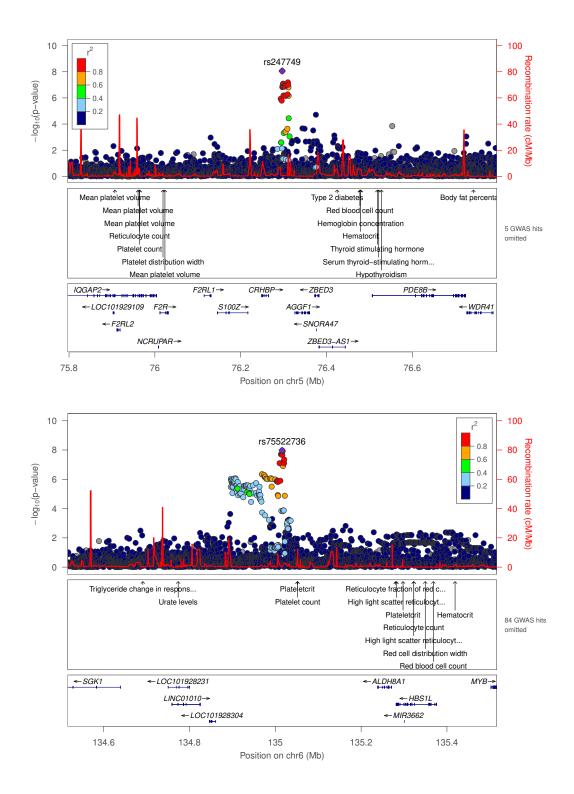


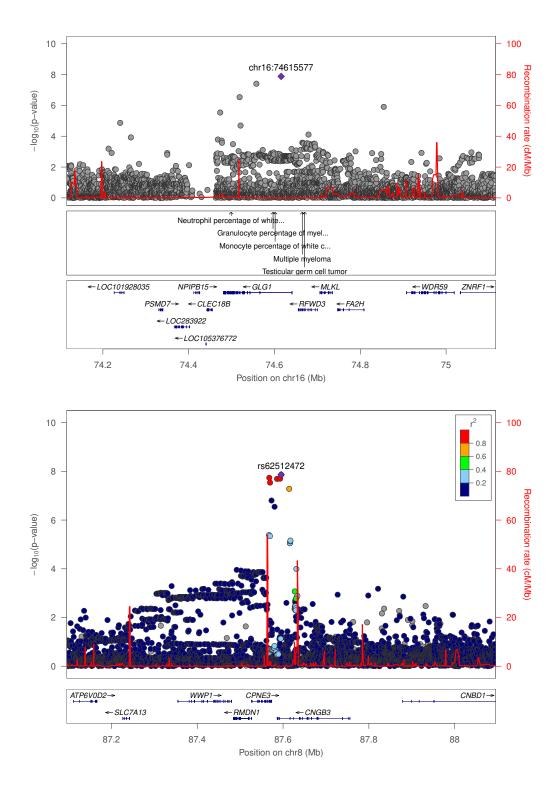


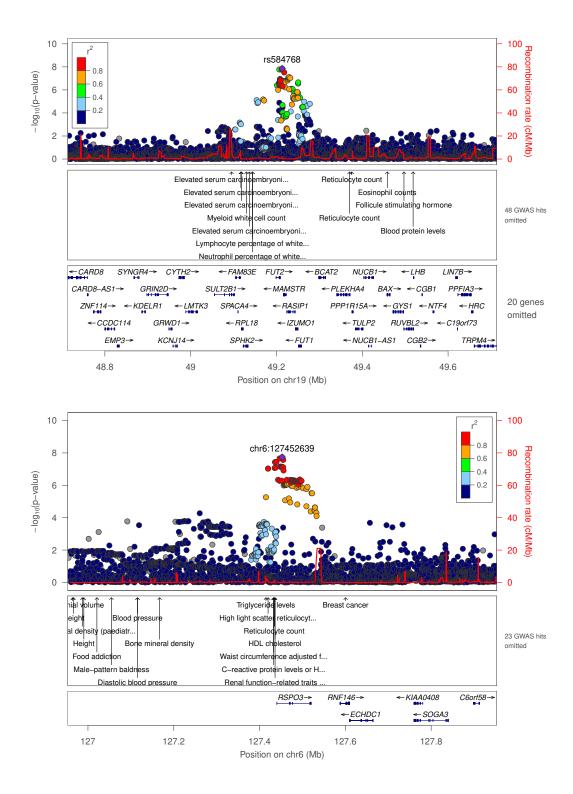


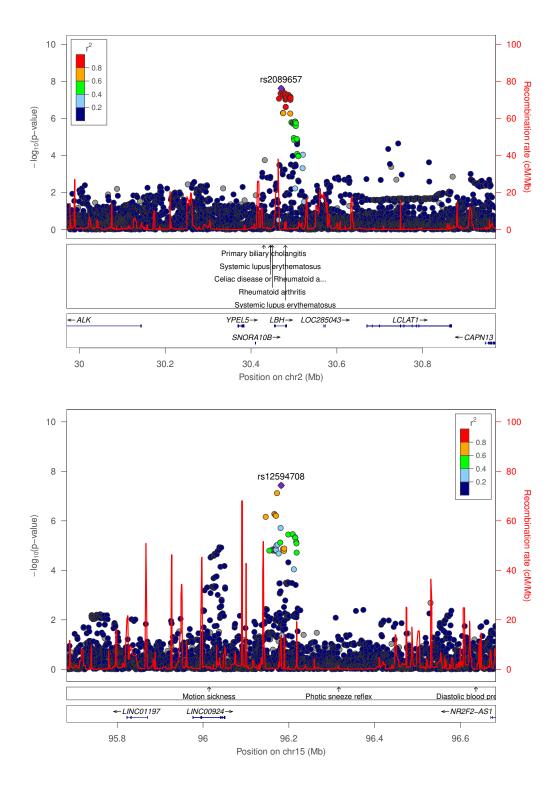


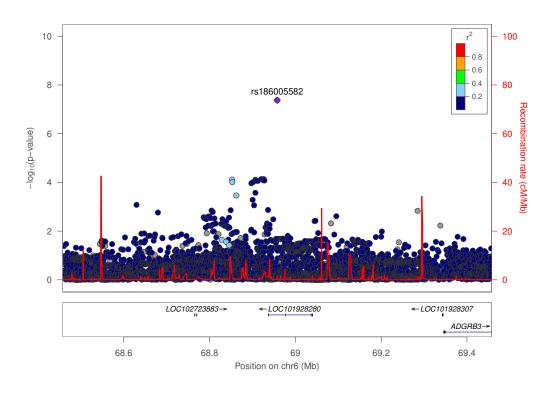


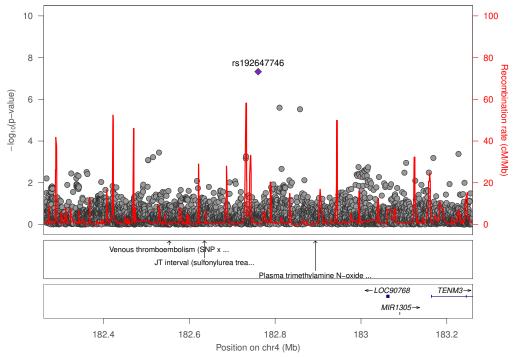




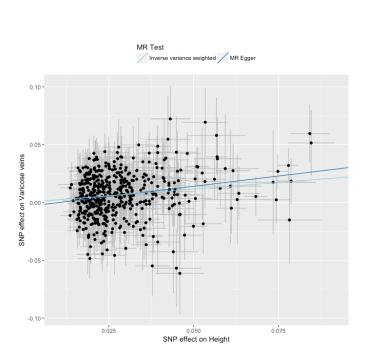


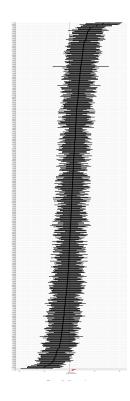






Supplemental Figure 4: Scatter and forest plot demonstrating the association between height and varicose veins.





Supplemental Figure 5: Leave-one-out sensitivity analysis demonstrating that SNPs associated with height remain associated with varicose veins, implying a causal relationship.

