

SUPPLEMENTAL MATERIALS

Causal inference for genetically-determined levels of high-density lipoprotein cholesterol and risk of infectious disease.

Mark Trinder, MSc^{1,2}, Keith R. Walley, MD^{1,3}, John H. Boyd, MD^{1,2,3}, Liam R. Brunham, MD, PhD^{1,2,3*}.

¹ Centre for Heart Lung Innovation, University of British Columbia, Vancouver, British Columbia, Canada

² Experimental Medicine Program, University of British Columbia, Vancouver, British Columbia, Canada

³ Department of Medicine, University of British Columbia, Vancouver, British Columbia, Canada

MAJOR RESOURCES TABLES

Animals (in vivo studies)

Species	Vendor or Source	Background Strain	Sex
NA	NA	NA	NA

Animal breeding

	Species	Vendor or Source	Background Strain	Other Information
Parent - Male	NA	NA	NA	
Parent - Female	NA		NA	NA

Antibodies

Target antigen	Vendor or Source	Catalog #	Working concentration	Lot # (preferred but not required)
NA	NA	NA	NA	NA

Cultured Cells

Name	Vendor or Source	Sex (F, M, or unknown)
NA	NA	NA

SUPPLEMENTAL METHODS

Serum Biochemistry Analyses.

The detailed description of the serum biochemistry analyses have been described (http://biobank.ndph.ox.ac.uk/showcase/showcase/docs/serum_biochemistry.pdf and http://biobank.ndph.ox.ac.uk/showcase/showcase/docs/serum_hb1ac.pdf). All serum biochemistry results described were performed using the Beckman Coulter AU5800 platform (Beckman Coulter (UK), Ltd) other than hemoglobin A1c, which was performed using Bio-Rad Variant II Turbo analysers (Bio-Rad Laboratories, Inc.). The general details for each assay are displayed in Supplemental Table 1. Results for serum biochemistry are reported for samples obtained at the time of study enrolment unless otherwise stated.

SUPPLEMENTAL TABLES

Supplemental Table I. Serum biochemistry assay details. HDL-C: high-density lipoprotein cholesterol; LDL-C: low-density lipoprotein cholesterol.

Serum assay	Assay Manufacturer	Analytical Platform	Analysis Methodology	Reported Units	Manufacturer's Analytical Range for Reported Units
Total cholesterol (mg/dL)	Beckman Coulter (UK), Ltd	Beckman Coulter AU5800	Enzymatic	mmol/L	0.5 - 18
Direct LDL-C (mg/dL)	Beckman Coulter (UK), Ltd	Beckman Coulter AU5800	Enzymatic Selective Protection	mmol/L	0.26 -10.3
Apolipoprotein B (mg/dL)	Beckman Coulter (UK), Ltd	Beckman Coulter AU5800	Immuno-turbidimetric	g/L	0.4 - 2
Triglycerides (mg/dL)	Beckman Coulter (UK), Ltd	Beckman Coulter AU5800	Enzymatic	mmol/L	0.1 - 11.3
HDL-C (mg/dL)	Beckman Coulter (UK), Ltd	Beckman Coulter AU5800	Enzyme Immuno-inhibition	mmol/L	0.05 - 4.65
Apolipoprotein A1 (mg/dL)	Beckman Coulter (UK), Ltd	Beckman Coulter AU5800	Immuno-turbidimetric	g/L	0.4 - 2.5
Lipoprotein(a) (mg/dL)	Randox Bioscience, UK	Beckman Coulter AU5800	Immuno-turbidimetric	nmol/L	5.76 - 189
Hemoglobin A1c (%)	Bio-Rad Laboratories, Inc.	Bio-Rad Variant II Turbo analysers	High Performance Liquid Chromatography	mmol/mol	15 - 184
C-reactive protein (mg/dL)	Beckman Coulter (UK), Ltd	Beckman Coulter AU5800	Immuno-turbidimetric	mg/L	0.08 - 80

Supplemental Table II. Categorization of infectious disease-related hospitalizations by International Classification of

Diseases (ICD) version 10 diagnosis codes. The number of events per an infectious subgroup reflect the time-to-first event counts for primary or secondary diagnosis codes for an infectious hospitalization episode that occurred after study enrolment. Diagnosis codes from *Chapter 1: Certain infectious and parasitic diseases* were categorized as infections of suspected bacterial, viral, or fungal infection when possible.

Infectious Disease Subgroup	ICD-10 Codes	Events for Measured HDL-C (n=357,202)	Events for Measured LDL-C (n=389,564)	Events for Measured TGs (n=389,971)	Events for Lipid Polygenic Scores (n=407,558)
Sepsis	<ul style="list-style-type: none"> • A021 Salmonella septicemia • A227 Anthrax septicemia • A40 Streptococcal septicemia • A41 Other septicemia • B377 Candidal septicemia • O85 Puerperal sepsis • R651 Systemic Inflammatory Response Syndrome of infectious origin with organ failure • R527 septic shock 	2,818	3,085	3,091	3,222
Pneumonia	<ul style="list-style-type: none"> • B012 Varicella pneumonia • J14 Pneumonia due to <i>Haemophilus influenzae</i> • J12 Viral pneumonia, not elsewhere classified • J16 Pneumonia due to other infectious organisms, not elsewhere classified • J15 Bacterial pneumonia, not elsewhere classified • J17 Pneumonia in diseases classified elsewhere • J18 Pneumonia, organism unspecified 	5,971	6,497	6,511	6,808

	<ul style="list-style-type: none"> • J851 Abscess of lung with pneumonia 				
Gastroenteritis	<ul style="list-style-type: none"> • A00-A09 Intestinal infectious diseases 	5,851	6,442	6,451	6,737
Skin infection	<ul style="list-style-type: none"> • L00-L08 Infections of the skin and subcutaneous tissue 	4,672	5,095	5,095	5,331
Urinary tract infection	<ul style="list-style-type: none"> • N390 Urinary tract infection, site not specified • O23 Infections of genito-urinary tract in pregnancy • O86 Other puerperal infections 	6,466	7,099	7,102	7,412
Composite any infection	<ul style="list-style-type: none"> • All codes from: <i>Chapter 1: Certain infectious and parasitic diseases</i> 	25,849	28,288	28,319	29,600
Bacterial infections	<ul style="list-style-type: none"> • A00 Cholera • A01 Typhoid and paratyphoid fevers • A02 Other Salmonella infections • A03 Shigellosis • A04 Other bacterial intestinal infections • A05 Other bacterial foodborne intoxications • A15-A19 Tuberculosis • A20-A28 Certain zoonotic bacterial diseases • A30-A49 Other bacterial diseases • A51 Early syphilis • A52 Late syphilis • A53 Other and unspecified syphilis • A54 Gonococcal infection- • A56 Other sexually transmitted chlamydial diseases • A65-A69 Other spirochaetal diseases • A70-A74 Other diseases caused by chlamydiae 	9,312	10,191	10,201	10,662

	<ul style="list-style-type: none"> • A75-A79 Rickettsioses • B90 Sequelae of tuberculosis • B95 Streptococcus and staphylococcus as the cause of diseases classified to other chapters • B96 Other bacterial agents as the cause of diseases classified to other chapters • B98 Other specified infectious agents as the cause of diseases classified to other chapters 				
Viral infections	<ul style="list-style-type: none"> • A08 Viral and other specified intestinal infections • A60 Anogenital herpes viral [herpes simplex] infections • A80-A89 Viral infections of the central nervous system • A92-A99 Arthropod-borne viral fevers and viral haemorrhagic fevers • B00-B09 Viral infections characterized by skin and mucous membrane lesions • B15-B19 Viral hepatitis • B20-B24 Human immunodeficiency virus [HIV] disease • B25-B34 Other viral diseases • B941 Sequelae of viral encephalitis⁷ • B942 Sequelae of viral hepatitis • B97 Viral agents as the cause of diseases classified to other chapters 	2,201	2,460	2,463	2,563
Fungal Infections	<ul style="list-style-type: none"> • B35-B49 Mycoses 	1,656	1,816	1,819	1,912

Supplemental Table III. Medications that were considered to be oral or injectable antibiotics from UK Biobank medical history taken at study enrolment.

UK Biobank Medication Coding	Drug	Antibiotic Class
1140856964	achromycin 125mg/5ml syrup	Tetracycline
1140873456	achromycin 250mg capsule	Tetracycline
1140873462	achromycin 250mg i-v infusion (pdr for recon)	Tetracycline
1140873458	achromycin 250mg tablet	Tetracycline
1140856898	achromycin 25g powder	Tetracycline
1140873464	achromycin 500mg i-v infusion (pdr for recon)	Tetracycline
1140873460	achromycin intramuscular injection	Tetracycline
1140856902	achromycin v 125mg/5ml syrup	Tetracycline
1140856900	achromycin v 250mg capsule	Tetracycline
1141200470	acnecin 2000/35 tablet - clindamycin	Lincosamide
1140873730	acrosoxacin/rosoxacin	fluoroquinolone
1140857162	aerosporin 500,000units injection - polymyxin B	Irrigation/Miscellaneous
1140864368	aknemin 100mg capsule - minocycline	Tetracycline
1140864366	aknemin 50mg capsule	Tetracycline
1140916292	almodan 125mg/5ml sugar free syrup - amoxicillin	Penicillin/Beta-lactam
1140872724	almodan 125mg/5ml syrup - amoxicillin	Penicillin/Beta-lactam
1140872820	almodan 250mg capsule - amoxicillin	Penicillin/Beta-lactam
1140856812	almodan 250mg injection - amoxicillin	Penicillin/Beta-lactam
1140916294	almodan 250mg/5ml sugar free syrup - amoxicillin	Penicillin/Beta-lactam
1140872728	almodan 250mg/5ml syrup - amoxicillin	Penicillin/Beta-lactam
1140872824	almodan 500mg capsule - amoxicillin	Penicillin/Beta-lactam
1140856814	almodan 500mg injection - amoxicillin	Penicillin/Beta-lactam
1140872952	ambaxin 400mg tablet - Bacampicillin	Penicillin/Beta-lactam
1140872762	amfipen 125mg/5ml syrup - ampicillin	Penicillin/Beta-lactam
1140872758	amfipen 250mg capsule	Penicillin/Beta-lactam
1140856820	amfipen 250mg injection	Penicillin/Beta-lactam
1140872764	amfipen 250mg/5ml syrup	Penicillin/Beta-lactam
1140872760	amfipen 500mg capsule	Penicillin/Beta-lactam
1140856822	amfipen 500mg injection	Penicillin/Beta-lactam
1141171562	amiclav 250mg/125mg tablet	Penicillin/Beta-lactam
1141166600	amidox 100mg tablet	Penicillin/Beta-lactam/Tetracycline
1140873588	amikacin	Aminoglycoside
1140873592	amikin 100mg/2ml paediatric injection	Aminoglycoside
1140873590	amikin 500mg/2ml injection	Aminoglycoside
1140910600	aminosalicylic acid	Antitubercular
1140872716	amix 125 s/f suspension	Penicillin/Beta-lactam
1140872960	amix 250 capsule	Penicillin/Beta-lactam
1140872720	amix 250 s/f suspension	Penicillin/Beta-lactam

1140872962	amix 500 capsule	Penicillin/Beta-lactam
1140872800	amopen 125mg/5ml suspension	Penicillin/Beta-lactam
1140872792	amopen 250mg capsule	Penicillin/Beta-lactam
1140872804	amopen 250mg/5ml suspension	Penicillin/Beta-lactam
1140872796	amopen 500mg capsule	Penicillin/Beta-lactam
1140872900	amoram 125mg/5ml s/f suspension - amoxicillin	Penicillin/Beta-lactam
1140872896	amoram 250mg capsule - amoxicillin	Penicillin/Beta-lactam
1140872902	amoram 250mg/5ml s/f suspension - amoxicillin	Penicillin/Beta-lactam
1140872898	amoram 500mg capsule - amoxicillin	Penicillin/Beta-lactam
1141180226	amoxicillin	Penicillin/Beta-lactam
1141180228	amoxicillin product	Penicillin/Beta-lactam
1141195072	amoxident 250mg capsule	Penicillin/Beta-lactam
1141195074	amoxident 500mg capsule	Penicillin/Beta-lactam
1140856804	amoxidin 250mg capsule	Penicillin/Beta-lactam
1140856806	amoxidin 500mg capsule	Penicillin/Beta-lactam
1140872722	amoxil 125mg/1.25ml paediatric suspension	Penicillin/Beta-lactam
1140856808	amoxil 125mg/5ml syrup	Penicillin/Beta-lactam
1140872794	amoxil 1g injection (pdr for recon)	Penicillin/Beta-lactam
1140872708	amoxil 250mg capsule	Penicillin/Beta-lactam
1140872786	amoxil 250mg injection (pdr for recon)	Penicillin/Beta-lactam
1140872782	amoxil 3g/sachet s/f powder	Penicillin/Beta-lactam
1140872710	amoxil 500mg capsule	Penicillin/Beta-lactam
1140872790	amoxil 500mg injection (pdr for recon)	Penicillin/Beta-lactam
1140872712	amoxil 500mg s/f dispersible tablet	Penicillin/Beta-lactam
1140872778	amoxil 750mg/sachet s/f powder	Penicillin/Beta-lactam
1140872814	amoxil fiztab 125mg s/f chewable tablet	Penicillin/Beta-lactam
1140872818	amoxil fiztab 250mg s/f chewable tablet	Penicillin/Beta-lactam
1140872822	amoxil fiztab 500mg s/f chewable tablet	Penicillin/Beta-lactam
1140872714	amoxil sf 125mg/5ml s/f suspension	Penicillin/Beta-lactam
1140872718	amoxil sf 250mg/5ml s/f suspension	Penicillin/Beta-lactam
1140872646	amoxycillin	Penicillin/Beta-lactam
1141157344	amoxycillin product	Penicillin/Beta-lactam
1140872732	amoxymed 125mg/5ml syrup	Penicillin/Beta-lactam
1140872730	amoxymed 250mg capsule	Penicillin/Beta-lactam
1140872748	ampicillin	Penicillin/Beta-lactam
1140882420	ampicillin+cloxacillin	Penicillin/Beta-lactam
1140872936	ampiclox 250mg/5ml syrup	Penicillin/Beta-lactam
1140872934	ampiclox 500mg capsule	Penicillin/Beta-lactam
1140872910	ampiclox injection (pdr for recon)	Penicillin/Beta-lactam
1140872914	ampiclox neonatal injection (pdr for recon)	Penicillin/Beta-lactam
1140872912	ampiclox neonatal s/f suspension	Penicillin/Beta-lactam
1140856724	ampilar 125mg/5ml syrup	Penicillin/Beta-lactam
1140856824	ampilar 250mg capsule	Penicillin/Beta-lactam
1140856726	ampilar 250mg/5ml syrup	Penicillin/Beta-lactam
1140856826	ampilar 500mg capsule	Penicillin/Beta-lactam

1141152070	ampitrin 125mg/5ml oral suspension	Penicillin/Beta-lactam
1141152062	ampitrin 250mg capsule	Penicillin/Beta-lactam
1141152128	ampitrin 250mg/5ml oral suspension	Penicillin/Beta-lactam
1141152068	ampitrin 500mg capsule	Penicillin/Beta-lactam
1140857006	arpimycin 125mg/5ml s/f suspension - erythromycin	Macrolide
1140928848	arpimycin 125mg/5ml suspension	Macrolide
1140857008	arpimycin 250mg/5ml s/f suspension	Macrolide
1140928850	arpimycin 250mg/5ml suspension	Macrolide
1140857010	arpimycin 500mg/5ml s/f suspension	Macrolide
1140928852	arpimycin 500mg/5ml suspension	Macrolide
1140872816	augmentin 1.2g injection (pdr for recon) - Amoxi-clav	Penicillin/Beta-lactam
1140872808	augmentin 125mg/31mg/5ml s/f suspension	Penicillin/Beta-lactam
1140872826	augmentin 250mg/62mg/5ml s/f suspension	Penicillin/Beta-lactam
1140872802	augmentin 375mg s/f dispersible tablet	Penicillin/Beta-lactam
1140872798	augmentin 375mg tablet	Penicillin/Beta-lactam
1140872812	augmentin 600mg injection (pdr for recon)	Penicillin/Beta-lactam
1140872734	augmentin 625mg tablet	Penicillin/Beta-lactam
1140923614	augmentin duo 400mg/57mg/5ml s/f suspension	Penicillin/Beta-lactam
1140856966	aureomycin 250mg capsule	Tetracycline
1140882340	aureomycin powder	Tetracycline
1141187104	avelox 400mg tablet - Moxifloxacin	Fluoroquinolone
1140873284	azactam 1g injection (pdr for recon)	Monobactam
1140856890	azactam 2g infusion	Monobactam
1140873286	azactam 2g injection (pdr for recon)	Monobactam
1140873282	azactam 500mg injection (pdr for recon)	Monobactam
1140873642	azithromycin	Macrolide
1140873066	azlocillin	Penicillin/Beta-lactam
1140873280	aztreonam	Monobactam
1140884114	bacampicillin	Penicillin/Beta-lactam
1141183258	bactiolor mr 375mg m/r tablet - Cefaclor	Cephalosporin
1140873856	bactrim 480mg dispersible tablet - Sulfamethoxazole and Trimethoprim	Other/Sulfamethoxazole and Trimethoprim
1140873798	bactrim 480mg tablet	Other/Sulfamethoxazole and Trimethoprim
1140857184	bactrim 480mg/5ml intravenous infusion	Other/Sulfamethoxazole and Trimethoprim
1140873858	bactrim 960mg tablet	Other/Sulfamethoxazole and Trimethoprim
1140857182	bactrim 960mg/3ml intramuscular injection	Other/Sulfamethoxazole and Trimethoprim
1140873860	bactrim adult suspension	Other/Sulfamethoxazole and Trimethoprim
1140857180	bactrim paediatric 120mg tablet	Other/Sulfamethoxazole and Trimethoprim
1140873862	bactrim paediatric s/f syrup	Other/Sulfamethoxazole and Trimethoprim
1140873102	baxan 125mg/5ml suspension	Cephalosporin

1140873104	baxan 250mg/5ml suspension	Cephalosporin
1140873100	baxan 500mg capsule	Cephalosporin
1140873106	baxan 500mg/5ml suspension	Cephalosporin
1140856832	baypen 1g injection - mezlocillin	Penicillin/Beta-lactam
1140856834	baypen 2g injection - mezlocillin	Penicillin/Beta-lactam
1140856774	baypen 500mg injection - mezlocillin	Penicillin/Beta-lactam
1140856836	baypen 5g infusion - mezlocillin	Penicillin/Beta-lactam
1140856838	baypen 5g injection - mezlocillin	Penicillin/Beta-lactam
1140856602	benethamine penicillin	Penicillin/Beta-lactam
1140856606	benzathine penicillin	Penicillin/Beta-lactam
1140880282	benzoic acid product	Miscellaneous
1140872584	benzylpenicillin	Penicillin/Beta-lactam
1140873554	berkmycen 250mg tablet - oxytetracycline dihydrate	Tetracycline
1140882416	bicillin injection (pdr for recon)	Penicillin/Beta-lactam
1140910360	biomycin	Tetracycline
1140852986	bravit tablet - levofloxacin	Quinolone
1140856728	britcin 250mg capsule - ampicillin	Penicillin/Beta-lactam
1140856730	britcin 500mg capsule - ampicillin	Penicillin/Beta-lactam
1140873904	capastat 1g injection (pdr for recon)	Antitubercular
1140873902	capreomycin	Antitubercular
1140872982	carbenicillin	Penicillin/Beta-lactam
1140884170	carfecillin	Penicillin/Beta-lactam
1141181956	caspofungin	Echinocandin
1141181960	caspofungin msd 50mg infusion concentrate (pdr for recon)	Echinocandin
1141182500	caspofungin msd 70mg infusion concentrate (pdr for recon)	Echinocandin
1140909690	cedax 180mg/5ml oral suspension - ceftibuten	Cephalosporin
1140909682	cedax 400mg capsule	Cephalosporin
1140909688	cedax 90mg/5ml oral suspension	Cephalosporin
1140873020	cefaclor	Cephalosporin
1141157348	cefaclor product	Cephalosporin
1140873098	cefadroxil	Cephalosporin
1141180392	cefalexin	Cephalosporin
1140909718	cefamandole	Cephalosporin
1141180450	cefazolin	Cephalosporin
1140873416	cefixime	Cephalosporin
1140873128	cefizox 1g injection (pdr for recon)	Cephalosporin
1140873130	cefizox 2g injection (pdr for recon)	Cephalosporin
1140873126	cefizox 500mg injection (pdr for recon)	Cephalosporin
1140873424	cefodizime	Cephalosporin
1140873168	cefotaxime	Cephalosporin
1141157350	cefotaxime product	Cephalosporin
1140873182	cefoxitin	Cephamycin
1140921786	cefpirome	Cephalosporin

1140873430	cefpodoxime	Cephalosporin
1141168270	cefprozil	Cephalosporin
1141180644	cefradine	Cephalosporin
1141180368	cefradine product	Cephalosporin
1140921790	cefrom 1g injection (pdr for recon)	Cephalosporin
1140921792	cefrom 2g injection (pdr for recon)	Cephalosporin
1140884098	cefsulodin	Cephalosporin
1140873202	ceftazidime	Cephalosporin
1140909504	ceftibuten	Cephalosporin
1140873124	ceftizoxime	Cephalosporin
1140873434	ceftriaxone	Cephalosporin
1140873138	cefuroxime	Cephalosporin
1140882336	cefuroxime+metronidazole	Cephalosporin
1141168330	cefzil 250mg tablet	Cephalosporin
1141168334	cefzil 250mg/5ml oral suspension	Cephalosporin
1141168332	cefzil 500mg tablet	Cephalosporin
1140856796	celbenin 1g injection	Penicillin/Beta-lactam
1140873288	cephalexin	cephalosporin
1140856862	cephalothin	cephalosporin
1140873242	cephamandole	cephalosporin
1140884102	cephamycin	cephalosporin
1140873248	cephazolin	cephalosporin
1140873258	cephradine	cephalosporin
1141157352	cephradine product	cephalosporin
1140873314	ceporex 125mg/5ml suspension	Cephalosporin
1140873318	ceporex 125mg/5ml syrup	Cephalosporin
1140873336	ceporex 1g tablet	Cephalosporin
1140873304	ceporex 250mg capsule	Cephalosporin
1140873308	ceporex 250mg tablet	Cephalosporin
1140873316	ceporex 250mg/5ml suspension	Cephalosporin
1140873320	ceporex 250mg/5ml syrup	Cephalosporin
1140873306	ceporex 500mg capsule	Cephalosporin
1140873310	ceporex 500mg tablet	Cephalosporin
1140873322	ceporex 500mg/5ml syrup	Cephalosporin
1140857052	chemocycline 125mg/5ml syrup	Tetracycline
1140857050	chemocycline 250mg tablet	Tetracycline
1140873864	chemotrim paediatric suspension	Other/Sulfamethoxazole and Trimethoprim
1140884068	chloramphenicol powder	Miscellaneous
1140857160	chloramphenicol powder 5g	Miscellaneous
1140873744	chloromycetin 1.2g injection (pdr for recon)	Miscellaneous
1140873740	chloromycetin 125mg/5ml suspension	Miscellaneous
1140873738	chloromycetin 250mg capsule	Miscellaneous
1140873742	chloromycetin 300mg injection (pdr for recon)	Miscellaneous
1140875668	chloromycetin hydrocortisone eye ointment	Miscellaneous

1140884072	chloromycetin powder	Miscellaneous
1140857106	chloromycetin powder 5g	Miscellaneous
1140884198	chlortetracycline	Tetracycline
1140857060	chymocyclar capsule	Tetracycline
1140856754	ciclacillin	Aminopenicillin
1140856980	cidomycin 160mg/2ml injection	Aminoglycoside
1140873582	cidomycin 20mg/2ml paediatric injection	Aminoglycoside
1140882352	cidomycin 80mg/2ml injection ampoule	Aminoglycoside
1140882354	cidomycin 80mg/2ml injection vial	Aminoglycoside
1141195580	cidomycin adult injectable 80mg/2ml injection ampoule	Aminoglycoside
1141195582	cidomycin adult injectable 80mg/2ml injection vial	Aminoglycoside
1140874210	cinobac 500mg capsule	Quinolone
1140874208	cinoxacin	Quinolone
1140874138	ciprofloxacin	Fluoroquinolone
1141157366	ciprofloxacin product	Fluoroquinolone
1141151346	ciproxin 100mg tablet	Fluoroquinolone
1140874142	ciproxin 100mg/50ml intravenous infusion	Fluoroquinolone
1140874144	ciproxin 200mg/100ml intravenous infusion	Fluoroquinolone
1140874140	ciproxin 250mg tablet	Fluoroquinolone
1140910894	ciproxin 400mg/200ml intravenous infusion	Fluoroquinolone
1140874146	ciproxin 500mg tablet	Fluoroquinolone
1141157438	ciproxin 5g/100ml oral suspension	Fluoroquinolone
1140874148	ciproxin 750mg tablet	Fluoroquinolone
1141166930	claforan 1g infusion (pdr for recon) vial with connector - cefotaxime	Cephalosporin
1140873172	claforan 1g injection (pdr for recon)	Cephalosporin
1141166932	claforan 2g infusion (pdr for recon) vial with connector	Cephalosporin
1140873174	claforan 2g injection (pdr for recon)	Cephalosporin
1140873170	claforan 500mg injection (pdr for recon)	Cephalosporin
1141184174	clarithrom tab+lansopraz cap+metronidaz tab 500/30/400mg pck	Macrolide
1141180462	clarithromy tab+lansoprazole cap+amoxi cap 500/30/500mg pack	Macrolide
1141168822	clarithromy tab+lansoprazole cap+amoxy cap 500/30/500mg pack	Macrolide
1140873634	clarithromycin	Macrolide
1140873650	clindamycin	Lincosamide
1141157358	clindamycin product	Lincosamide
1140851786	clinium 120mg tablet - clindamycin	Lincosamide
1140874006	clofazimine	Miscellaneous
1141157362	clofazimine product	Miscellaneous
1140856974	clomocycline sodium	Tetracycline
1140872674	cloxacillin	Penicillin/Beta-lactam
1140882374	co-amoxiclav	Penicillin/Beta-lactam
1140882422	co-fluampicil	Penicillin/Beta-lactam

1141181008	colistimethate na 1million units inj (pdr for recon)	Miscellaneous
1141193810	colistimethate sodium 2million units inj (pdr for recon)	Miscellaneous
1141181004	colistimethate sodium 500,000units injection (pdr for recon)	Miscellaneous
1140873810	colistin	Miscellaneous
1140873820	colistin sulphate 1.5million units tablet	Miscellaneous
1140873822	colistin sulphate 250,000units/5ml syrup	Miscellaneous
1140873826	colistin sulphomethate na 1million units inj (pdr for recon)	Miscellaneous
1140873824	colistin sulphomethate sodium 500,000u injection powder	Miscellaneous
1140873812	colomycin 1.5million units tablet	Miscellaneous
1140873818	colomycin 1million units injection (pdr for recon)	Miscellaneous
1140873814	colomycin 250,000units/5ml syrup	Miscellaneous
1141193808	colomycin 2million units injection (pdr for recon)	Miscellaneous
1140873816	colomycin 500,000units injection (pdr for recon)	Miscellaneous
1140873944	comixco 160/800 tablet	Other/Sulfamethoxazole and Trimethoprim
1140873948	comixco 80/400 dispersible tablet	Other/Sulfamethoxazole and Trimethoprim
1140873942	comixco 80/400 tablet	Other/Sulfamethoxazole and Trimethoprim
1140873946	comixco paediatric suspension	Other/Sulfamethoxazole and Trimethoprim
1140857192	comox 240mg/5ml paediatric suspension	Other/Sulfamethoxazole and Trimethoprim
1140857188	comox 480mg dispersible tablet	Other/Sulfamethoxazole and Trimethoprim
1140857186	comox 480mg tablet	Other/Sulfamethoxazole and Trimethoprim
1140857190	comox forte 960mg tablet	Other/Sulfamethoxazole and Trimethoprim
1140873384	compound tetracycline 300mg tablet	Tetracycline
1140857330	comprecin 200mg tablet	Fluoroquinolone
1140873780	co-trimoxazole	Other/Sulfamethoxazole and Trimethoprim
1141163860	crystapen 1200mg injection (pdr for recon)	Penicillin/Beta-lactam
1140856696	crystapen 12mg intrathecal injection	Penicillin/Beta-lactam
1140909416	crystapen 1megaunit injection (pdr for recon)	Penicillin/Beta-lactam
1140888720	crystapen 250mg/5ml syrup	Penicillin/Beta-lactam
1140856690	crystapen 300mg injection	Penicillin/Beta-lactam
1140856692	crystapen 3g injection	Penicillin/Beta-lactam
1140872586	crystapen 600mg injection (pdr for recon)	Penicillin/Beta-lactam
1140856694	crystapen 6g injection	Penicillin/Beta-lactam
1140888718	crystapen v 125mg/5ml syrup	Penicillin/Beta-lactam
1140922556	cyclodox 100mg capsule	Tetracycline
1140873908	cycloserine	Antitubercular
1140873654	dalacin c 150mg capsule - clindamycin	Lincosamide

1140873658	dalacin c 300mg/2ml injection	Lincosamide
1140873660	dalacin c 600mg/4ml injection	Lincosamide
1140873652	dalacin c 75mg capsule	Lincosamide
1140873656	dalacin c 75mg/5ml paediatric suspension	Lincosamide
1140874104	dapsone	Miscellaneous
1140884206	demeclocycline	Tetracycline
1140873408	demix 100 capsule	Tetracycline
1140873412	demix 50 capsule	Tetracycline
1140856722	depocillin 3g injection	Penicillin/Beta-lactam
1140873466	deteclo tablet	Tetracycline
1140856742	dicapen 1.5g injection - ampicillin & sulbactam	Penicillin/Beta-lactamase inhibitors
1140856744	dicapen 3g injection	Penicillin/Beta-lactamase inhibitors
1140856740	dicapen 750mg injection	Penicillin/Beta-lactamase inhibitors
1140873024	distaclor 125mg/5ml suspension	Cephalosporin
1140873022	distaclor 250mg capsule	Cephalosporin
1140873026	distaclor 250mg/5ml suspension	Cephalosporin
1140873090	distaclor 500mg capsule	Cephalosporin
1140873094	distaclor mr 375mg m/r tablet	Cephalosporin
1140864180	distaclor mr 500mg m/r tablet	Cephalosporin
1140857036	doxatet 100mg tablet - doxytet?	Tetracycline
1140873394	doxycycline	Tetracycline
1140873396	doxylar 100mg capsule	Tetracycline
1141170186	doxylar 50mg capsule	Tetracycline
1140856646	econocil vk 125mg tablet	Penicillin/Beta-lactam
1140856644	econocil vk 250mg capsule	Penicillin/Beta-lactam
1140856704	econocil vk 250mg tablet	Penicillin/Beta-lactam
1140873364	economycin 250mg capsule	Tetracycline
1140873366	economycin 250mg tablet	Tetracycline
1140857232	elyzol 500mg/100ml intravenous infusion - flagyl/metronidazole	Amebicide, nitroimidazole
1140857326	enoxacin	Fluoroquinolone
1140874512	entamizole tablet - Diloxanide and Metronidazole	Penicillin/Beta-lactam
1140857202	enteromide 500mg tablet	Miscellaneous
1141186826	ertapenem	Carbapenem
1140873618	erycen 250mg e/c tablet - restomycin	Macrolide
1140873672	erycen 500mg e/c tablet	Macrolide
1140873676	erymax 250mg e/c granules in capsule - erythromycin	Macrolide
1140857024	erymax sprinkle 125mg capsule	Macrolide
1140928674	erymin 250mg/5ml s/f suspension - erythromycin	Macrolide
1140873702	erythrocin 1g infusion (pdr for recon)	Macrolide
1140873680	erythrocin 250mg tablet	Macrolide
1140873682	erythrocin 500mg tablet	Macrolide
1140857012	erythrolar 250mg tablet	Macrolide
1140857016	erythrolar 250mg/5ml suspension	Macrolide

1140857014	erythrolar 500mg tablet	Macrolide
1140873694	erythromid 250mg e/c tablet	Macrolide
1140873696	erythromid ds 500mg e/c tablet	Macrolide
1140873608	erythromycin	Macrolide
1141157356	erythromycin product	Macrolide
1140882356	erythroped 250mg/5ml suspension	Macrolide
1140873632	erythroped 250mg/sachet granules	Macrolide
1140873630	erythroped a 1g/sachet granules	Macrolide
1140873712	erythroped a 500mg tablet	Macrolide
1140873708	erythroped forte 500mg/5ml suspension	Macrolide
1140873674	erythroped forte 500mg/sachet granules	Macrolide
1141163532	erythroped forte sf 500mg/5ml s/f suspension	Macrolide
1140873700	erythroped pi 125mg/5ml suspension	Macrolide
1140873678	erythroped pi 125mg/sachet granules	Macrolide
1140882360	erythroped pi sf 125mg/5ml suspension	Macrolide
1140882358	erythroped sf 250mg/5ml suspension	Macrolide
1140882372	ethambutol hcl+isoniazid	Antitubercular
1140884298	ethambutolol	Antitubercular
1140857310	fasigyn 1.6g/800ml intravenous infusion	Amebicide/Antiprotozoal
1140874120	fasigyn 500mg tablet	Amebicide/Antiprotozoal
1140857308	fasigyn 800mg/400ml intravenous infusion	Amebicide/Antiprotozoal
1140873870	fectrim 120mg paediatric tablet	Other/Sulfamethoxazole and Trimethoprim
1140873866	fectrim 80mg/400mg tablet	Other/Sulfamethoxazole and Trimethoprim
1140873868	fectrim forte 160mg/800mg dispersible tablet	Other/Sulfamethoxazole and Trimethoprim
1140874036	flagyl 100mg/20ml infusion	Ambeicide/Antiprotozoal
1140874032	flagyl 200mg tablet	Ambeicide/Antiprotozoal
1140874034	flagyl 400mg tablet	Ambeicide/Antiprotozoal
1140874114	flagyl 500mg/100ml infusion	Ambeicide/Antiprotozoal
1140874044	flagyl compak tablet+pessary	Ambeicide/Antiprotozoal
1140874038	flagyl s 200mg/5ml suspension	Ambeicide/Antiprotozoal
1140872806	flemoxin solutab 375mg s/f dispersible tablet	Penicillin/Beta-lactam
1140872810	flemoxin solutab 750mg s/f dispersible tablet	Penicillin/Beta-lactam
1140872600	floxapen 125mg/5ml syrup - Flucloxacillin	Penicillin/Beta-lactam
1140872608	floxapen 1g injection (pdr for recon)	Penicillin/Beta-lactam
1140872596	floxapen 250mg capsule	Penicillin/Beta-lactam
1140872604	floxapen 250mg injection (pdr for recon)	Penicillin/Beta-lactam
1140872598	floxapen 500mg capsule	Penicillin/Beta-lactam
1140872606	floxapen 500mg injection (pdr for recon)	Penicillin/Beta-lactam
1140872602	floxapen forte 250mg/5ml syrup	Penicillin/Beta-lactam
1140872916	flu-amp 250/250mg capsule - Flucloxacillin + ampicillin	Penicillin/Beta-lactam
1140872622	fluclomix 250 capsule - flucloxacillin	Penicillin/Beta-lactam
1140872624	fluclomix 500 capsule	Penicillin/Beta-lactam
1140872694	flucloxacillin	Penicillin/Beta-lactam

1141157340	flucloxacillin product	Penicillin/Beta-lactam
1141152134	flucloxin 125mg/5ml oral suspension	Penicillin/Beta-lactam
1141152130	flucloxin 250mg capsule	Penicillin/Beta-lactam
1141152132	flucloxin 500mg capsule	Penicillin/Beta-lactam
1140873208	fortum 1g injection (pdr for recon) - ceftazidime	Cephalosporin
1140873204	fortum 250mg injection (pdr for recon)	Cephalosporin
1140873108	fortum 2g infusion (pdr for recon)	Cephalosporin
1140873110	fortum 2g infusion (pdr for recon)+saline kit	Cephalosporin
1140873210	fortum 2g injection (pdr for recon)	Cephalosporin
1140864912	fortum 3g injection (pdr for recon)	Cephalosporin
1140873206	fortum 500mg injection (pdr for recon)	Cephalosporin
1141145800	fortum monovial 2g i-v infusion (pdr for recon)	Cephalosporin
1140884076	fosfomycin	Miscellaneous
1140873830	fucidin 250mg tablet	Miscellaneous
1140873832	fucidin 250mg/5ml suspension	Miscellaneous
1140873834	fucidin 500mg i-v infusion+buffer	Miscellaneous
1140874186	furadantin 100mg tablet	Miscellaneous
1140874188	furadantin 25mg/5ml s/f suspension	Miscellaneous
1140874184	furadantin 50mg tablet	Miscellaneous
1140872968	galenamox 125mg/5ml s/f suspension	Penicillin/Beta-lactam
1140856926	galenamox 125mg/5ml suspension	Penicillin/Beta-lactam
1140872964	galenamox 250mg capsule	Penicillin/Beta-lactam
1140872970	galenamox 250mg/5ml s/f suspension	Penicillin/Beta-lactam
1140856928	galenamox 250mg/5ml suspension	Penicillin/Beta-lactam
1140872966	galenamox 500mg capsule	Penicillin/Beta-lactam
1140857054	galenomycin 250mg tablet	Tetracycline
1140872632	galfloxin 250mg capsule	Penicillin/Beta-lactam
1140872634	galfloxin 500mg capsule	Penicillin/Beta-lactam
1140857126	gantrisin 500mg tablet	Sulfonamide Derivative
1140857128	gantrisin 500mg/5ml syrup	Sulfonamide Derivative
1140873574	gentamicin	Aminoglycoside
1141190776	gentamicin 80mg/50ml intravenous infusion	Aminoglycoside
1141157498	gentamicin product	Aminoglycoside
1140856984	genticin 20mg/2ml paediatric injection	Aminoglycoside
1140873586	genticin 80mg/2ml injection ampoule	Aminoglycoside
1140884082	genticin powder	Aminoglycoside
1141157224	grepafloxacin product	Fluoroquinolone
1140874214	hexamine hippurate - methenamine	Miscellaneous
1140874216	hiprex 1g tablet - methenamine	Miscellaneous
1140873722	ilosone 125mg/5ml suspension - Erythromycin	Macrolide
1140873714	ilosone 250mg capsule	Macrolide
1140873718	ilosone 500mg tablet	Macrolide
1140873620	ilosone forte 250mg/5ml suspension	Macrolide
1140857022	ilotycin 250mg tablet	Macrolide
1140873350	imipenem + cilastatin	Carbapenem

1140873556	imperacin 250mg tablet	Tetracycline
1140910506	ina - isoniazid	Antitubercular
1140910508	inah - isoniazid	Antitubercular
1140873976	ipral 100mg tablet - trimethoprim	Miscellaneous
1140873978	ipral 200mg tablet	Miscellaneous
1140857146	ipral 50mg/5ml paediatric s/f suspension	Miscellaneous
1140856174	iproniazid	Antitubercular
1140873986	isoniazid	Antitubercular
1140873496	kanamycin	Aminoglycoside
1141157354	kanamycin product	Aminoglycoside
1140911716	kefadim 1g injection (pdr for recon) - ceftazidime	Cephalosporin
1140911720	kefadim 2g infusion (pdr for recon)	Cephalosporin
1140911718	kefadim 2g injection (pdr for recon)	Cephalosporin
1140911714	kefadim 500mg injection (pdr for recon)	Cephalosporin
1140873244	kefadol 1g injection (pdr for recon) - cefamandole	Cephalosporin
1140856870	kefadol 2g injection	Cephalosporin
1140856868	kefadol 500mg injection	Cephalosporin
1140873332	keflex 125mg/5ml suspension - cephalixin	Cephalosporin
1140873324	keflex 250mg capsule	Cephalosporin
1140873328	keflex 250mg tablet	Cephalosporin
1140873334	keflex 250mg/5ml suspension	Cephalosporin
1140873326	keflex 500mg capsule	Cephalosporin
1140873330	keflex 500mg tablet	Cephalosporin
1140856858	keflex-c 125mg chewable tablet	Cephalosporin
1140856860	keflex-c 250mg chewable tablet	Cephalosporin
1140856864	keflin 1g injection - cefexime	Cephalosporin
1141151884	keftid 125mg/5ml s/f suspension - cefaclor	Cephalosporin
1141146054	keftid 250mg capsule	Cephalosporin
1141151886	keftid 250mg/5ml s/f suspension	Cephalosporin
1141146112	keftid 500mg capsule	Cephalosporin
1140873252	kefzol 1g injection (pdr for recon) - cefazolin	Cephalosporin
1140873250	kefzol 500mg injection (pdr for recon)	Cephalosporin
1140873746	kemicetine 1g injection (pdr for recon) - chloramphenicol	Miscellaneous
1141185434	ketek 400mg tablet - Telithromycin	Ketolide
1140926578	kiflone 125mg/5ml syrup - Cephalixin	Cephalosporin
1140926572	kiflone 250mg capsule	Cephalosporin
1140926576	kiflone 250mg/5ml syrup	Cephalosporin
1140926574	kiflone 500mg capsule	Cephalosporin
1140926570	kiflone 500mg tablet	Cephalosporin
1140873640	klaricid 125mg/5ml paediatric suspension - clarithromycin	Macrolide
1140882366	klaricid 250mg tablet	Macrolide
1141164834	klaricid 250mg/5ml paediatric suspension	Macrolide
1140909698	klaricid 500mg tablet	Macrolide

1141153228	klaricid adult 250mg/sachet granules	Macrolide
1140864362	klaricid iv 500mg injection (pdr for recon)	Macrolide
1141146120	klaricid xl 500mg m/r tablet	Macrolide
1140882418	ladropen 125mg/5ml suspension - flucloxacillin	Penicillin/Beta-lactam
1140872610	ladropen 250mg capsule - flucloxacillin	Penicillin/Beta-lactam
1140863598	ladropen 250mg injection - flucloxacillin	Penicillin/Beta-lactam
1140872612	ladropen 500mg capsule - flucloxacillin	Penicillin/Beta-lactam
1140863600	ladropen 500mg injection (pdr for recon) - flucloxacillin	Penicillin/Beta-lactam
1140874008	lamprene 100mg capsule - cloflazimine	Miscellaneous
1140873872	laratrim 160mg/800mg tablet - Trimethoprim	Other/Trimethoprim
1140857194	laratrim 480mg tablet - Trimethoprim	Other/Trimethoprim
1140873874	laratrim adult suspension - Trimethoprim	Other/Trimethoprim
1140873928	laratrim paediatric syrup - Trimethoprim	Other/Trimethoprim
1140884022	latamoxef	Oxacephem
1140873390	ledermycin 150mg capsule - Demeclocycline	Tetracycline
1140857032	ledermycin 300mg tablet	Tetracycline
1141162668	levofloxacin	Fluoroquinolone
1140857096	lincocin 250mg/5ml syrup - Lincomycin	Lincosamide
1140857094	lincocin 500mg capsule - Lincomycin	Lincosamide
1140857092	lincomycin	Lincosamide
1141172954	linezolid	Oxazolidinone
1141166498	lomefloxacin	Quinolone
1140856990	lugacin 80mg/2ml injection - gentamicin	Aminoglycoside
1140873474	lymecycline	Tetracycline
1140874198	macrobid 100mg m/r capsule - nitrofurantoin	Miscellaneous
1140874192	macrodantin 100mg capsule - nitrofurantoin	Miscellaneous
1140874190	macrodantin 50mg capsule	Miscellaneous
1140872924	magnapen 1g injection (pdr for recon) - Ampicillin	Penicillin/Beta-lactam
1140872922	magnapen 500mg injection (pdr for recon)	Penicillin/Beta-lactam
1140872918	magnapen capsule	Penicillin/Beta-lactam
1140872920	magnapen syrup	Penicillin/Beta-lactam
1140874412	maloprim tablet - pyrimethamine and dapson	Antimalarial, Miscellaneous antibiotic
1140856176	marsilid 25mg tablet - Iproniazid	Antitubercular
1140856940	mecillinam	Penicillin/Beta-lactam
1140873184	mefoxin 1g injection (pdr for recon) - cefoxitin	Cephalosporin
1140873186	mefoxin 2g injection (pdr for recon)	Cephalosporin
1140856976	megaclor 170mg capsule - clomocycline	Tetracycline
1140923752	meronem 1g infusion kit	Carbapenem
1140917240	meronem 1g injection (pdr for recon) - meropenem	Carbapenem
1140917236	meronem 250mg injection (pdr for recon)	Carbapenem
1140923750	meronem 500mg infusion kit	Carbapenem
1140917238	meronem 500mg injection (pdr for recon)	Carbapenem
1140917228	meropenem	Carbapenem

1140909748	methenamine hippurate	Miscellaneous
1140884176	methicillin	Penicillin/Beta-lactam
1140857294	metrolyl 200mg tablet - metronidazole	Antibiotic/Amebicide/Antiprotozoal
1140857296	metrolyl 400mg tablet	Antibiotic/Amebicide/Antiprotozoal
1140857298	metrolyl 500mg/100ml intravenous infusion amp	Antibiotic/Amebicide/Antiprotozoal
1140857300	metrolyl 500mg/100ml intravenous infusion bag	Antibiotic/Amebicide/Antiprotozoal
1140874014	metronidazole	Antibiotic/Amebicide/Antiprotozoal
1141157364	metronidazole product	Antibiotic/Amebicide/Antiprotozoal
1140874030	metronidazole+nystatin 400mg/10000units tablet+pessary	Antibiotic/Amebicide/Antiprotozoal
1140874116	metrozol 500mg/100ml infusion - metronidazole	Antibiotic/Amebicide/Antiprotozoal
1140856772	mezlocillin	Penicillin/Beta-lactam
1140873484	minocin 100mg tablet - minocycline	Tetracycline
1140873482	minocin 50mg tablet - minocycline	Tetracycline
1140873488	minocin mr 100mg m/r capsule - minocycline	Tetracycline
1140873480	minocycline	Tetracycline
1140872886	miraxid 225mg tablet - pivmecillinam	Penicillin/Beta-lactam
1140856906	miraxid paediatric sachet	Penicillin/Beta-lactam
1140872888	miraxid-450 tablet	Penicillin/Beta-lactam
1140873196	monaspor 1g injection (pdr for recon) - Cefsulodin	Cephalosporin
1140873194	monaspor 500mg injection (pdr for recon)	Cephalosporin
1140873876	monotrim 100mg tablet - Trimethoprim	Other/Trimethoprim
1140873882	monotrim 100mg/5ml injection	Other/Trimethoprim
1140873878	monotrim 200mg tablet	Other/Trimethoprim
1140873880	monotrim 50mg/5ml s/f suspension	Other/Trimethoprim
1140855390	monivent 5mg tablet	Other/Trimethoprim
1140864530	monuril 3g/sachet granules for suspension - Fosfomycin	Miscellaneous
1140864584	monuril paediatric 2g/sachet granules for suspension - Fosfomycin	Miscellaneous
1140856880	moxalactam 1g injection	Cephalosporin
1140856882	moxalactam 2g injection	Cephalosporin
1140856878	moxalactam 500mg injection	Cephalosporin
1141187100	moxifloxacin	Fluoroquinolone
1140873914	myambutol 100mg tablet - ethambutol	Antitubercular
1140873916	myambutol 400mg tablet	Antitubercular
1140884302	myambutol powder	Antitubercular
1140873512	mycifradin 500mg tablet - neomycin	Aminoglycoside
1140883998	mycifradin powder	Aminoglycoside
1140864484	mycobutin 150mg capsule - rifabutin	Antitubercular
1140857158	mynah 200mg tablet - ethambutol and isoniazid	Antitubercular
1140857216	mynah 365mg tablet	Antitubercular
1140873918	mynah-250 tablet	Antitubercular
1140873920	mynah-300 tablet	Antitubercular
1140857062	mysteclin capsule - nystatin and tetracycline	Miscellaneous

1140857064	mysteclin syrup - tetracycline hydrochloride and amphotericin	Miscellaneous
1140873568	mysteclin tablet	Miscellaneous
1140874220	nalidixic acid	Quinolone
1140873538	nebcin 20mg/2ml injection	Aminoglycoside
1140873540	nebcin 40mg/1ml injection	Aminoglycoside
1140873542	nebcin 80mg/2ml injection	Aminoglycoside
1140910816	nebramycin factor vi	Aminoglycoside
1140874230	negram 300mg/5ml s/f suspension	Quinolone
1140874228	negram 500mg tablet	Quinolone
1140884090	neomycin product	Aminoglycoside
1140873520	netillin 100mg/1ml injection - netilmicin	Aminoglycoside
1140873522	netillin 150mg/1.5ml injection	Aminoglycoside
1140873516	netillin 15mg/1.5ml injection	Aminoglycoside
1140873524	netillin 200mg/2ml injection	Aminoglycoside
1140873518	netillin 50mg/1ml injection	Aminoglycoside
1140873514	netilmicin	Aminoglycoside
1141169416	nicef 250mg capsule - cefradine	Cephalosporin
1141169418	nicef 500mg capsule	Cephalosporin
1140857306	nidazol 200mg tablet	Amebicide, Antibiotic, Antiprotozoal
1140857346	nimorazole	Nitroimidazole
1140874126	nitrofurantoin	Miscellaneous
1140873508	nivemycin 100mg/5ml elixir	Aminoglycoside
1140873506	nivemycin 500mg tablet	Aminoglycoside
1140874178	norfloxacin	Fluoroquinolone
1140865702	normax capsule - norfloxacin	Fluoroquinolone
1140882564	norzol 200mg/5ml suspension	Amebicide, Antibiotic, Antiprotozoal
1140874160	ofloxacin	Fluoroquinolone
1140884008	oral erythromycin	Macrolide
1140856778	orbenin 125mg/5ml syrup - cloxacillin	Penicillin/Beta-lactam
1140856780	orbenin 1g injection	Penicillin/Beta-lactam
1140872676	orbenin 250mg capsule	Penicillin/Beta-lactam
1140872680	orbenin 250mg injection (pdr for recon)	Penicillin/Beta-lactam
1140872678	orbenin 500mg capsule	Penicillin/Beta-lactam
1140872682	orbenin 500mg injection (pdr for recon)	Penicillin/Beta-lactam
1140882332	orelox 100mg tablet - Cefpodoxime	Cephalosporin
1140917474	orelox 40mg/5ml paediatric suspension	Cephalosporin
1140873558	oxymycin 250mg tablet	Tetracycline
1140873548	oxytetracycline	Tetracycline
1140873564	oxytetramix 250 tablet - oxytetracycline	Tetracycline
1140884012	parenteral erythromycin	Macrolide
1140910444	pen g - benzylpenicillin	Penicillin/Beta-lactam
1140856732	penbritin 125mg tablet - ampicillin	Penicillin/Beta-lactam
1140872848	penbritin 125mg/1.25ml paediatric suspension	Penicillin/Beta-lactam
1140872844	penbritin 125mg/5ml syrup	Penicillin/Beta-lactam

1140872838	penbritin 250mg capsule	Penicillin/Beta-lactam
1140872850	penbritin 250mg injection (pdr for recon)	Penicillin/Beta-lactam
1140872846	penbritin 250mg/5ml syrup	Penicillin/Beta-lactam
1140872840	penbritin 500mg capsule	Penicillin/Beta-lactam
1140872904	penbritin 500mg injection (pdr for recon)	Penicillin/Beta-lactam
1140882498	penicillin	Penicillin/Beta-lactam
1140909716	penicillin g	Penicillin/Beta-lactam
1140888758	penicillin v	Penicillin/Beta-lactam
1140856608	penidural 229mg/5ml suspension - benzylpenicillin	Penicillin/Beta-lactam
1140856612	penidural-1a 2.29g/10ml injection	Penicillin/Beta-lactam
1141172120	periostat 20mg capsule - doxycycline	Tetracycline
1141184388	periostat 20mg tablet	Tetracycline
1140856618	phenethicillin	Penicillin/Beta-lactam
1140872590	phenoxyethylpenicillin	Penicillin/Beta-lactam
1140857206	phthalylsulphathiazole	Sulfonamide
1140872852	piperacillin	Penicillin/Beta-lactam
1140882324	piperacillin+tazobactam	Penicillin/Beta-lactam
1140872854	pipril 1g injection (pdr for recon) - piperacillin	Penicillin/Beta-lactam
1140872856	pipril 2g injection (pdr for recon)	Penicillin/Beta-lactam
1140872858	pipril 4g infusion (pdr for recon)	Penicillin/Beta-lactam
1140872860	pipril 4g infusion set	Penicillin/Beta-lactam
1140872882	pivampicillin	Penicillin/Beta-lactam
1141157346	pivampicillin product	Penicillin/Beta-lactam
1140882432	pivampicillin+pivmecillinam	Penicillin/Beta-lactam
1140884178	pivmecillinam	Penicillin/Beta-lactam
1140873842	polymyxin b	Miscellaneous
1140857166	polymyxin b 500,000units injection	Miscellaneous
1140882560	polymyxins	Miscellaneous
1140882426	pondocillin 175mg/5ml s/f suspension	Penicillin/Beta-lactam
1140856904	pondocillin 175mg/sachet granules	Penicillin/Beta-lactam
1140872884	pondocillin 500mg tablet	Penicillin/Beta-lactam
1140856908	pondocillin plus tablet	Penicillin/Beta-lactam
1141163716	primacine 125mg/5ml suspension - erythromycin	Macrolide
1141163778	primacine 250mg/5ml suspension - erythromycin	Macrolide
1141163784	primacine 500mg/5ml suspension - erythromycin	Macrolide
1140873360	primaxin im 500mg intramuscular injection (pdr for recon) - imipenem and cilastatin	Carbapenem
1140873356	primaxin iv 250mg intravenous infusion (pdr for recon) - imipenem and cilastatin	Carbapenem
1140873358	primaxin iv 500mg intravenous infusion (pdr for recon)	Carbapenem
1140917210	primaxin iv 500mg monovial	Carbapenem
1140872668	procaine penicillin	Penicillin/Beta-lactam

1141187764	promixin 1million units injection (pdr for recon) - Colistimethate	Miscellaneous
1140872984	pyopen 1g injection (pdr for recon) - carbenacillin	Penicillin/Beta-lactam
1140872986	pyopen 5g injection (pdr for recon)	Penicillin/Beta-lactam
1140873998	pyrazinamide	Antitubercular
1141166128	quinupristin+dalfopristin	Streptogramin
1140873410	ramysis 100mg capsule - doxycycline	Tetracycline
1141173702	ranclav 125mg/31mg s/f suspension - amoxicillin and clavulanate	Penicillin/Beta-lactam
1141173760	ranclav 250mg/62mg s/f suspension - amoxicillin and clavulanate	Penicillin/Beta-lactam
1141173698	ranclav 375mg tablet - amoxicillin and clavulanate	Penicillin/Beta-lactam
1141173700	ranclav 625mg tablet - amoxicillin and clavulanate	Penicillin/Beta-lactam
1141157230	raxar 400mg tablet - grepafloxacin	Fluoroquinolone
1141157232	raxar 600mg tablet - grepafloxacin	Fluoroquinolone
1141152204	respillin 125mg/5ml oral suspension - amoxicillin	Penicillin/Beta-lactam
1141152208	respillin 125mg/5ml s/f suspension - amoxicillin	Penicillin/Beta-lactam
1141152200	respillin 250mg capsule - amoxicillin	Penicillin/Beta-lactam
1141152206	respillin 250mg/5ml oral suspension - amoxicillin	Penicillin/Beta-lactam
1141152210	respillin 250mg/5ml s/f suspension - amoxicillin	Penicillin/Beta-lactam
1141152202	respillin 500mg capsule - amoxicillin	Penicillin/Beta-lactam
1140873622	retcin 250mg e/c tablet - erythromycin	Macrolide
1140864480	rifabutin	Antitubercular
1140874068	rifadin 100mg/5ml syrup - rifampin	Antitubercular
1140874064	rifadin 150mg capsule - rifampin	Antitubercular
1140874066	rifadin 300mg capsule - rifampin	Antitubercular
1140857220	rifadin 300mg intravenous infusion - rifampin	Antitubercular
1140874070	rifadin 600mg injection+solvent - rifampin	Antitubercular
1140874056	rifampicin	Antitubercular
1141157360	rifampicin product	Antitubercular
1140882548	rifampicin+isoniazid	Antitubercular
1140874096	rifampicin+isoniazid 300mg/150mg tablet	Antitubercular
1140882550	rifampicin+isoniazid+pyrazinamide	Antitubercular
1140874080	rifater tablet - Rifampin, Isoniazid, and Pyrazinamide	Antitubercular
1140874082	rifinah 150 tablet - Rifampin and Isoniazid	Antitubercular
1140874084	rifinah 300 tablet - Rifampin and Isoniazid	Antitubercular
1140872770	rimacillin 125mg/5ml syrup - ampicillin	Penicillin/Beta-lactam
1140872766	rimacillin 250mg capsule	Penicillin/Beta-lactam
1140872772	rimacillin 250mg/5ml syrup	Penicillin/Beta-lactam
1140872768	rimacillin 500mg capsule	Penicillin/Beta-lactam
1140874076	rimactane 100mg/5ml syrup - rifampin	Antitubercular
1140874072	rimactane 150mg capsule- rifampin	Antitubercular
1140874074	rimactane 300mg capsule- rifampin	Antitubercular
1140874078	rimactane 300mg injection+diluent- rifampin	Antitubercular

1140874086	rimactazid-150 tablet - Rifampin and Isoniazid	Antitubercular
1140874088	rimactazid-300 tablet - Rifampin and Isoniazid	Antitubercular
1140857222	rimactazid-300 tablets cp - Rifampin and Isoniazid	Antitubercular
1140872658	rimapen 250mg tablet - rifampin	Antitubercular
1140873994	rimifon 50mg/2ml injection - isoniazid	Antitubercular
1140872972	rimoxallin 125mg/5ml syrup	Penicillin/Beta-lactam
1140872974	rimoxallin 250mg capsule	Penicillin/Beta-lactam
1140872978	rimoxallin 250mg/5ml syrup	Penicillin/Beta-lactam
1140872976	rimoxallin 500mg capsule	Penicillin/Beta-lactam
1140873438	rocephin 1g injection (pdr for recon)	Cephalosporin
1140873436	rocephin 250mg injection (pdr for recon)	Cephalosporin
1140873440	rocephin 2g injection (pdr for recon)	Cephalosporin
1140873690	rommix 125 suspension - erythromycin	Macrolide
1140873692	rommix 250 e/c tablet - erythromycin	Macrolide
1140873698	rommix 500 e/c tablet - erythromycin	Macrolide
1140909746	rosoxacin	Quinolone
1140922052	rovamycine 125mg/5ml syrup	Macrolide
1140922048	rovamycine 250mg tablet	Macrolide
1141191010	sebomin mr 100mg m/r capsule - minocycline	Tetracycline
1140873070	securopen 1g injection (pdr for recon) - Mezlocillin	Penicillin/Beta-lactam
1140873072	securopen 2g injection (pdr for recon) - Mezlocillin	Penicillin/Beta-lactam
1140873068	securopen 500mg injection (pdr for recon) - Mezlocillin	Penicillin/Beta-lactam
1140873074	securopen 5g infusion (pdr for recon) - Mezlocillin	Penicillin/Beta-lactam
1140882326	securopen 5g infusion set - Mezlocillin	Penicillin/Beta-lactam
1140856954	selexid 100mg/sachet suspension - Pivmecillinam	Penicillin/Beta-lactam
1140856952	selexid 200mg tablet - Pivmecillinam	Penicillin/Beta-lactam
1140856942	selexidin 200mg injection - Mecillin	Penicillin/Beta-lactam
1140856944	selexidin 400mg injection - Mecillin	Penicillin/Beta-lactam
1140873932	septrin 480mg dispersible tablet - Sulfamethoxazole and Trimethoprim	Miscellaneous/Sulfonamide derivative
1140873930	septrin 480mg tablet - Sulfamethoxazole and Trimethoprim	Miscellaneous/Sulfonamide derivative
1140873940	septrin 480mg/5ml intravenous infusion - Sulfamethoxazole and Trimethoprim	Miscellaneous/Sulfonamide derivative
1140857198	septrin 960mg/3ml intramuscular injection - Sulfamethoxazole and Trimethoprim	Miscellaneous/Sulfonamide derivative
1140873936	septrin adult suspension - Sulfamethoxazole and Trimethoprim	Miscellaneous/Sulfonamide derivative
1140873934	septrin forte 960mg tablet - Sulfamethoxazole and Trimethoprim	Miscellaneous/Sulfonamide derivative
1140857196	septrin paediatric 120mg dispersible tablet - Sulfamethoxazole and Trimethoprim	Miscellaneous/Sulfonamide derivative
1140873938	septrin paediatric s/f suspension - Sulfamethoxazole and Trimethoprim	Miscellaneous/Sulfonamide derivative

1140856992	soframycin 250mg tablet	Aminoglycoside
1140873844	spectinomycin	Aminoglycoside
1140922030	spiramycin	Macrolide
1140872664	stabillin v-k 125mg/5ml elixir	Penicillin/Beta-lactam
1140872662	stabillin v-k 250mg tablet	Penicillin/Beta-lactam
1140872666	stabillin v-k 250mg/5ml elixir	Penicillin/Beta-lactam
1140856706	stabillin v-k 62.5mg/5ml syrup	Penicillin/Beta-lactam
1140872614	stafoxil 250mg capsule - flucloxacillin	Penicillin/Beta-lactam
1140872616	stafoxil 500mg capsule	Penicillin/Beta-lactam
1140856792	staphlipen 1g injection - flucloxacillin	Penicillin/Beta-lactam
1140856784	staphlipen 250mg capsule - flucloxacillin	Penicillin/Beta-lactam
1140856788	staphlipen 250mg injection - flucloxacillin	Penicillin/Beta-lactam
1140856786	staphlipen 500mg capsule - flucloxacillin	Penicillin/Beta-lactam
1140856790	staphlipen 500mg injection (pdr for recon) - flucloxacillin	Penicillin/Beta-lactam
1140874098	streptomycin	Aminoglycoside/Antitubercular
1140857108	streptotriad tablet - streptomycin & sulphadiazine & sulphamerazine	Miscellaneous
1140856752	subactam ampicillin 750mg injection	Penicillin/Beta-lactam/Beta-lactamase inhibitor
1141182178	sulfacetamide	Sulfonamide
1141182110	sulfadiazine	Sulfonamide
1141182122	sulfadimidine	Sulfonamide
1141182124	sulfadimidine 500mg/5ml paediatric suspension	Sulfonamide
1141195112	sulfaguanidine	Sulfonamide
1140873950	sulfametopyrazine	Sulfonamide
1140873956	sulphadiazine	Sulfonamide
1140857112	sulphadimethoxine	Sulfonamide
1140873962	sulphadimidine	Sulfonamide
1140857120	sulphadimidine 500mg/5ml paediatric suspension	Sulfonamide
1140857134	sulphaguanidine	Sulfonamide
1140857110	sulphatriad tablet - Sulfamerazine, Sulphadiazine and Sulphathiazole	Miscellaneous
1140857138	sulphaurea - Sulfacarbamide	Miscellaneous
1140856750	sultamicillin 375mg tablet	Penicillin/Beta-lactam
1140882330	suprax 100mg/5ml paediatric oral suspension - cefexime	Cephalosporin
1141200706	suprax 100mg/5ml paediatric suspension 50ml - cefexime	Cephalosporin
1140873422	suprax 200mg tablet - cefexime	Cephalosporin
1140873368	sustamycin 250mg m/r capsule	Tetracycline
1141166132	synercid infusion (pdr for recon) - Quinupristin and Dalfopristin	Streptogramin
1140868512	syntex menophase tablet - polymyxin B	Miscellaneous
1140857148	syraprim 100mg tablet - Sulfamethoxazole	Sulfonamide
1140857152	syraprim 100mg/5ml injection - Sulfamethoxazole	Sulfonamide

1140857150	syraprim 300mg tablet - Sulfamethoxazole	Sulfonamide
1140884168	talampicillin	Penicillin/Beta-lactam
1140856918	talpen 125mg/5ml syrup - talampicillin napsylate	Penicillin/Beta-lactam
1140856916	talpen 250mg tablet - talampicillin napsylate	Penicillin/Beta-lactam
1140873776	targocid 200mg injection (pdr for recon)+diluent - Teicoplanin	Miscellaneous
1140873774	targocid 400mg injection (pdr for recon)+diluent - Teicoplanin	Miscellaneous
1140874170	tarivid 100mg/50ml intravenous infusion - Ofloxacin	Fluoroquinolone
1140874164	tarivid 200mg tablet - Ofloxacin	Fluoroquinolone
1140874166	tarivid 200mg/100ml intravenous infusion - Ofloxacin	Fluoroquinolone
1140874174	tarivid 400mg tablet - Ofloxacin	Fluoroquinolone
1141162676	tavanic 250mg tablet - Levofloxacin	Fluoroquinolone
1141162678	tavanic 500mg tablet - Levofloxacin	Fluoroquinolone
1141162680	tavanic 500mg/100ml intravenous infusion - Levofloxacin	Fluoroquinolone
1140872862	tazocin 2g/250mg injection (pdr for recon) - Piperacillin and Tazobactam	Penicillin/Beta-lactam
1140872864	tazocin 4g/500mg infusion (pdr for recon)+kit - Piperacillin and Tazobactam	Penicillin/Beta-lactam
1140872866	tazocin 4g/500mg injection (pdr for recon) - Piperacillin and Tazobactam	Penicillin/Beta-lactam
1140857238	tefloxx 300mg tablet - Temafloxacin	Fluoroquinolone
1140857240	tefloxx 400mg tablet - Temafloxacin	Fluoroquinolone
1140873768	teicoplanin	Miscellaneous
1141185430	telithromycin	Ketolide
1140857336	temafloxacin	Fluoroquinolone
1140872638	temocillin	Penicillin/Beta-lactam
1141157342	temocillin product	Penicillin/Beta-lactam
1140872642	temopen 1g injection (pdr for recon) - Temocillin	Penicillin/Beta-lactam
1140856802	temopen 500mg injection (pdr for recon) - Temocillin	Penicillin/Beta-lactam
1141152218	tenkicin 250mg tablet - Pencillin VK	Penicillin/Beta-lactam
1140917216	tenkorex 125mg/5ml suspension - Cefalexin	Cephalosporin
1140917212	tenkorex 250mg capsule - Cefalexin	Cephalosporin
1140917218	tenkorex 250mg/5ml suspension - Cefalexin	Cephalosporin
1140917214	tenkorex 500mg capsule - Cefalexin	Cephalosporin
1140917220	tenkorex 500mg tablet - Cefalexin	Cephalosporin
1140873560	terramycin 250mg capsule	Tetracycline
1140873562	terramycin 250mg tablet	Tetracycline
1140873370	tetrabid-organon 250mg m/r capsule	Tetracycline
1140873372	tetrachel 250mg capsule - tetracycline	Tetracycline
1140873374	tetrachel 250mg tablet - tetracycline	Tetracycline
1140873450	tetracycline	Tetracycline
1140873570	tetracycline+nystatin 250mg/250ku tablet	Tetracycline
1140873376	tetracycline+procaine 100mg/40mg intramuscular injection	Tetracycline

1140857044	tetralysal 204mg capsule - Lymecycline	Tetracycline
1140873476	tetralysal 300 capsule - Lymecycline	Tetracycline
1140856960	tetrex 250mg capsule	Tetracycline
1140873000	ticar 1g injection (pdr for recon) - ticarcillin	Penicillin/Beta-lactam
1140856932	ticar 3g injection - ticarcillin	Penicillin/Beta-lactam
1140873004	ticar 5g infusion set - ticarcillin	Penicillin/Beta-lactam
1140873002	ticar 5g injection (pdr for recon) - ticarcillin	Penicillin/Beta-lactam
1140872998	ticarcillin	Penicillin/Beta-lactam
1140882328	ticarcillin+clavulanic acid	Penicillin/Beta-lactam
1140923616	tiloryth 250mg e/c granules in capsule - Erythromycin	Macrolide
1140873428	timecef 1g injection (pdr for recon) - Cefodizime	Cephalosporin
1140863512	timecef 2g injection - Cefodizime	Cephalosporin
1140873006	timentin 1.6g injection (pdr for recon) - Ticarcillin and Clavulanate Potassium	Penicillin/Beta-lactam
1140873008	timentin 3.2g injection (pdr for recon) - Ticarcillin and Clavulanate Potassium	Penicillin/Beta-lactam
1140856934	timentin 800mg injection - Ticarcillin and Clavulanate Potassium	Penicillin/Beta-lactam
1140874118	tinidazole	Antibiotic/Amebicide/Antiprotozoal
1140873536	tobramycin	Aminoglycoside
1141157396	tobramycin product	Aminoglycoside
1140873966	trimethoprim	Miscellaneous
1140873888	trimogal 100mg tablet - Trimethoprim	Miscellaneous
1140873890	trimogal 200mg tablet - Trimethoprim	Miscellaneous
1140873892	trimopan 100mg tablet - Trimethoprim	Miscellaneous
1140873894	trimopan 200mg tablet - Trimethoprim	Miscellaneous
1140873896	trimopan 50mg/5ml s/f suspension - Trimethoprim	Miscellaneous
1140856604	triplopen injection - Penicillin	Penicillin/Beta-lactam
1140873898	triprimix 200 tablet - trimethoprim	Miscellaneous
1140873846	trobicin 2g injection+diluent - spectinomycin	Aminoglycoside
1140856748	unasyn 375mg tablet - Ampicillin and Sulbactam	Penicillin/Beta-lactam
1140856746	unasyn 750mg/10ml injection - Ampicillin and Sulbactam	Penicillin/Beta-lactam
1140857056	unimycin 250mg capsule	Tetracycline
1140874196	urantoin 100mg tablet - Nitrofurantoin	Miscellaneous
1140874194	urantoin 50mg tablet	Miscellaneous
1140874232	uriben 300mg/5ml suspension - Nalidixic Acid	Quinolone
1140872994	uticillin 500mg tablet	Penicillin/Beta-lactam
1140882460	utinor 400mg tablet - norfloxacin	Fluoroquinolone
1140874046	vaginyl 200mg tablet - metronidazole	Antibiotic/Amebicide/Antiprotozoal
1140874048	vaginyl 400mg tablet	Antibiotic/Amebicide/Antiprotozoal
1140873748	vancocin 125mg matrigel capsule - Vancomycin	Vancomycin
1140873750	vancocin 250mg matrigel capsule - Vancomycin	Vancomycin
1140873756	vancocin cp 1g injection (pdr for recon) - Vancomycin	Vancomycin

1140873754	vancocin cp 250mg injection (pdr for recon) - Vancomycin	Vancomycin
1140873752	vancocin cp 500mg injection (pdr for recon) - Vancomycin	Vancomycin
1140884142	vancocin powder - Vancomycin	Vancomycin
1140873850	vancomycin	Vancomycin
1140856710	v-cil-k 125mg tablet - Penicillin V Potassium	Penicillin/Beta-lactam
1140856708	v-cil-k 250mg capsule - Penicillin V Potassium	Penicillin/Beta-lactam
1140856712	v-cil-k 250mg tablet - Penicillin V Potassium	Penicillin/Beta-lactam
1140856718	v-cil-k 250mg/5ml syrup - Penicillin V Potassium	Penicillin/Beta-lactam
1140856716	v-cil-k paediatric 125mg/5ml syrup - Penicillin V Potassium	Penicillin/Beta-lactam
1140856714	v-cil-k paediatric 62.5mg/5ml syrup - Penicillin V Potassium	Penicillin/Beta-lactam
1140873268	velosef 1g injection (pdr for recon) - Cephadrine	Cephalosporin
1140873260	velosef 250mg capsule - Cephadrine	Cephalosporin
1140873264	velosef 250mg/5ml syrup - Cephadrine	Cephalosporin
1140873262	velosef 500mg capsule - Cephadrine	Cephalosporin
1140873266	velosef 500mg injection (pdr for recon) - Cephadrine	Cephalosporin
1140873402	vibramycin 100mg capsule - Doxycycline	Tetracycline
1140873400	vibramycin 50mg capsule - Doxycycline	Tetracycline
1140857038	vibramycin 50mg/5ml syrup - Doxycycline	Tetracycline
1141152966	vibramycin acne pack 50mg capsule - Doxycycline	Tetracycline
1140873404	vibramycin-d 100mg dispersible tablet - Doxycycline	Tetracycline
1140856734	vidopen 125mg/5ml syrup - Ampicillin	Penicillin/Beta-lactam
1140872906	vidopen 250mg capsule - Ampicillin	Penicillin/Beta-lactam
1140909542	vidopen 250mg injection (pdr for recon) - Ampicillin	Penicillin/Beta-lactam
1140856736	vidopen 250mg/5ml syrup - Ampicillin	Penicillin/Beta-lactam
1140872908	vidopen 500mg capsule - Ampicillin	Penicillin/Beta-lactam
1140909544	vidopen 500mg injection (pdr for recon) - Ampicillin	Penicillin/Beta-lactam
1140852878	walachol tablet - Vibramycin-D (Doxycycline)	Tetracycline
1140874050	zadstat 200mg tablet - Metronidazole	Antibiotic/Amebicide/Antiprotozoal
1140874052	zadstat 500mg/100ml infusion	Antibiotic/Amebicide/Antiprotozoal
1140873154	zinacef 1.5g infusion (pdr for recon) - Cefuroxime	Cephalosporin
1140873144	zinacef 1.5g injection (pdr for recon) - Cefuroxime	Cephalosporin
1140873140	zinacef 250mg injection (pdr for recon) - Cefuroxime	Cephalosporin
1140873220	zinacef 750mg infusion (pdr for recon)+saline kit - Cefuroxime	Cephalosporin
1140873142	zinacef 750mg injection (pdr for recon) - Cefuroxime	Cephalosporin
1140873224	zinacef+metronidazole 750mg/500mg infusion kit - Cefuroxime	Cephalosporin
1140874000	zinamide 500mg tablet - Pyrazinamide	Antitubercular

1140873146	zinnat 125mg tablet - Cefuroxime	Cephalosporin
1140873156	zinnat 125mg/5ml suspension - Cefuroxime	Cephalosporin
1140873216	zinnat 125mg/sachet granules - Cefuroxime	Cephalosporin
1140873148	zinnat 250mg tablet - Cefuroxime	Cephalosporin
1140882364	zithromax 200mg/5ml oral suspension - Azithromycin	Macrolide
1140873648	zithromax 250mg capsule - Azithromycin	Macrolide
1141168372	zithromax 500mg tablet - Azithromycin	Macrolide
1141185040	ziz forte 25mg tablet - Azithromycin	Macrolide
1140926868	zoxin 250 capsule - Cefoxitin	Cephalosporin
1140926870	zoxin 500 capsule - Cefoxitin	Cephalosporin
1140926968	zoxycil 250 capsule - Amoxicillin	Penicillin/Beta-lactam
1140926970	zoxycil 500 capsule - Amoxicillin	Penicillin/Beta-lactam
1141179928	zyvox 100mg/5ml granules for oral suspension - Linezolid	Oxazolidinone
1141172958	zyvox 600mg tablet - Linezolid	Oxazolidinone
1141172970	zyvox 600mg/300ml infusion solution - Linezolid	Oxazolidinone

Supplemental Table IV. Single nucleotide variants used for determining lipid polygenic scores. Data are derived from the Global Lipid Genetics Consortium exome array analysis, which has been described previously¹. Abbreviations: Chromosome (Chr), position (Pos), effect allele (EA), non-effect allele (NEA), effect allele frequency (EAF), high-density lipoprotein cholesterol (HDL-C), low-density lipoprotein cholesterol (LDL-C), triglycerides (TG), and standard error (SE).

Chr:Pos	rsID	Gene	EA	NEA	Reported EAF	HDL-C Beta (SE)	LDL-C Beta (SE)	TG Beta (SE)
9:5073770	rs77375493	JAK2	T	G	0.00114	-0.2125 (0.047737)	-0.2952 (0.048864)	-0.05854 (0.048064)
8:55421614	rs10102164	NA	A	G	0.202	-0.0048487 (0.00315)	0.0309521 (0.003265)	0.01497 (0.003211)
1:172346548	rs1011731	DNM3	A	G	0.5598	0.01474 (0.002632)	-0.003828 (0.00273)	-0.0149772 (0.002683)
11:18632984	rs10128711	SPTY2D1	C	T	0.6911	0.003188 (0.00314)	0.02502 (0.003254)	0.007655 (0.003207)
5:131744574	rs1016988	NA	C	T	0.2223	-0.0033999 (0.003092)	-0.019644 (0.003195)	0.0087692 (0.003136)
7:17911038	rs10282707	SNX13	T	C	0.4261	-0.0270623 (0.003077)	-0.0136602 (0.003201)	0.010686 (0.003153)
11:14852490	rs1037378	PDE3B	A	G	0.5357	-0.0150186 (0.00255)	-0.0017962 (0.002639)	0.0075654 (0.002596)
19:19407718	rs10401969	SUGP1	C	T	0.08456	0.011835 (0.004627)	-0.0895599 (0.004764)	-0.10197 (0.00469)
14:65914867	rs10483776	FUT8	G	A	0.1638	-0.0199895 (0.003454)	-0.0018306 (0.003576)	0.01332 (0.003515)
2:118835841	rs10490626	NA	A	G	0.06783	0.0035321 (0.005241)	-0.0534095 (0.005458)	-0.0106896 (0.005369)
2:101627925	rs1062062	TBC1D8	T	C	0.1234	0.002406 (0.004069)	-0.02069 (0.004216)	-0.004538 (0.004152)
10:65027610	rs10761731	JMJD1C	T	A	0.4199	0.0129375 (0.002597)	0.01674 (0.002687)	-0.02735 (0.002639)
1:23766233	rs1077514	ASAP3	T	C	0.8219	0.009854 (0.003426)	0.0149723 (0.003536)	0.0193845 (0.003478)
12:107174646	rs10861661	RIC8B	C	A	0.2332	-0.01689 (0.003127)	0.0008568 (0.00323)	0.01893 (0.003182)

16:31048079	rs10871454	STX4	T	C	0.369	0.0078753 (0.00282)	-0.0100139 (0.002924)	-0.007933 (0.002874)
10:118397971	rs10885997	PNLIPRP2	G	A	0.4093	-0.008117 (0.002801)	0.0154428 (0.002888)	0.0017389 (0.002858)
10:17260290	rs10904908	NA	G	A	0.4456	0.0117 (0.002568)	0.011618 (0.002658)	0.007283 (0.002614)
9:28414339	rs10968576	LINGO2	G	A	0.2891	-0.0168862 (0.002813)	-0.0008863 (0.002918)	0.009558 (0.00287)
12:112072424	rs11065987	NA	G	A	0.3804	-0.023166 (0.002825)	-0.02598 (0.002932)	0.008401 (0.002881)
12:57809456	rs1106766	NA	T	C	0.2121	0.03155 (0.003136)	-0.01311 (0.003249)	-0.029714 (0.003196)
17:29629326	rs11080150	NF1	G	A	0.3257	-0.0023235 (0.002727)	-0.0188852 (0.002822)	-0.002523 (0.002777)
8:145043543	rs11136341	PLEC	G	A	0.3768	0.0005391 (0.003399)	0.0256472 (0.003484)	0.0027801 (0.003413)
16:53809247	rs1121980	FTO	A	G	0.4278	-0.02014 (0.002596)	0.0040968 (0.002687)	0.01763 (0.002636)
11:126243952	rs11220462	ST3GAL4	A	G	0.1453	-0.02103 (0.004439)	0.0427348 (0.004526)	0.0056989 (0.004456)
2:272203	rs11553746	ACP1	T	C	0.3288	0.0149362 (0.002735)	0.003969 (0.002834)	-0.012282 (0.002785)
11:118486067	rs11603023	PHLDB1	C	T	0.5788	-0.008335 (0.002583)	-0.009488 (0.002676)	0.0024682 (0.00263)
12:121416650	rs1169288	HNF1A	C	A	0.3325	0.014331 (0.002836)	0.036604 (0.002945)	0.0022536 (0.002886)
2:203532304	rs11694172	FAM117B	G	A	0.1548	-0.0040928 (0.045714)	-0.0254615 (0.045714)	0.0106824 (0.045714)
3:123065778	rs11708067	ADCY5	G	A	0.2068	-0.0153031 (0.00321)	-0.0097741 (0.003322)	-0.0011403 (0.003272)
8:10683929	rs11776767	PINX1	C	G	0.3719	-0.01077 (0.002781)	-0.0058878 (0.002849)	0.0221 (0.002801)
17:37813856	rs11869286	STARD3	C	G	0.6304	0.0303 (0.002819)	0.0029173 (0.002914)	-0.002546 (0.002867)
17:45732774	rs11871606	KPNB1	A	C	0.5019	-0.0134882 (0.00256)	-0.0271453 (0.002649)	0.0161314 (0.002604)
1:25775733	rs12027135	TMEM57	T	A	0.5089	0.004503 (0.002572)	0.0272454 (0.002663)	0.0079157 (0.002616)
6:153431125	rs12055786	RGS17	T	C	0.4369	-0.020698 (0.002905)	-0.0023762 (0.003009)	0.01238 (0.00297)

1:156700651	rs12145743	RRNAD1	G	T	0.3121	0.0172277 (0.003003)	-0.0016557 (0.003117)	-0.01131 (0.003064)
2:165540800	rs12328675	NA	C	T	0.1197	0.050015 (0.003922)	-0.0036588 (0.00406)	-0.044954 (0.003989)
2:27730940	rs1260326	GCKR	C	T	0.6287	0.0057906 (0.002682)	-0.02315 (0.002778)	-0.1205172 (0.002726)
7:21607352	rs12670798	DNAH11	C	T	0.2471	0.0014672 (0.003057)	0.0327999 (0.003164)	0.0132 (0.003117)
8:19844222	rs12678919	NA	G	A	0.09741	0.1586 (0.00433)	0.0123 (0.004464)	-0.1778 (0.004392)
1:27138393	rs12748152	NA	T	C	0.07209	-0.0434434 (0.004945)	0.0306381 (0.005127)	0.03061 (0.005037)
11:65391317	rs12801636	PCNXL3	A	G	0.2339	0.0118095 (0.003019)	0.007643 (0.003119)	-0.0178955 (0.003069)
4:103188709	rs13107325	SLC39A8	T	C	0.05057	-0.0737205 (0.005813)	-0.0345177 (0.006053)	0.0337072 (0.005956)
4:89740128	rs13133548	FAM13A	A	G	0.4835	-0.01706 (0.002545)	0.003702 (0.002635)	0.0139241 (0.002589)
4:187120211	rs13146272	CYP4V2	A	C	0.6231	0.003435 (0.002632)	-0.01453 (0.002723)	0.0004329 (0.002677)
3:58381287	rs13315871	PXK	A	G	0.08472	-0.0039354 (0.004727)	-0.0383928 (0.004888)	-0.0025494 (0.004812)
3:52532118	rs13326165	STAB1	G	A	0.8052	-0.0246185 (0.00324)	0.0032941 (0.003352)	0.0201542 (0.003296)
14:74250126	rs13379043	C14orf43	C	T	0.3053	0.017107 (0.002858)	-0.0177218 (0.002961)	-0.0086105 (0.002908)
2:21263900	rs1367117	APOB	A	G	0.2844	-0.01966 (0.00285)	0.1053 (0.002954)	0.0230221 (0.002905)
13:45970147	rs138358301	SLC25A30	G	A	0.00347	-0.01942 (0.021211)	0.0007869 (0.022398)	0.146163 (0.021899)
22:35711098	rs138777	TOM1	G	A	0.6172	-0.0025528 (0.002782)	-0.01544 (0.002878)	-0.0076594 (0.002834)
3:48229366	rs146179438	CDC25A	A	C	0.01984	-0.0633901 (0.009526)	-0.007085 (0.010004)	-0.0041718 (0.009853)
16:88580796	rs147032017	ZFPM1	T	C	0.00649	-0.0404114 (0.016517)	-0.0906348 (0.016925)	0.0115662 (0.016595)
8:18272881	rs1495741	NA	A	G	0.7527	-0.0038341 (0.002986)	-0.021635 (0.003089)	-0.035042 (0.003036)
15:58683366	rs1532085	NA	G	A	0.5907	-0.095557 (0.0026)	0.000173 (0.00269)	-0.0311351 (0.002642)

6:160578860	rs1564348	SLC22A1	C	T	0.1517	-0.0028173 (0.00353)	0.0474749 (0.003664)	0.020006 (0.003601)
1:182168885	rs1689800	NA	G	A	0.3391	-0.0246067 (0.00269)	0.0129118 (0.002784)	0.0082725 (0.002738)
11:2936952	rs16928809	SLC22A18	A	G	0.08745	-0.02877 (0.004529)	-0.008583 (0.004698)	-0.0008769 (0.004617)
16:67928042	rs16942887	PSKH1	A	G	0.1336	0.0800568 (0.003919)	0.0012499 (0.004045)	-0.0157845 (0.003979)
7:72982874	rs17145738	NA	T	C	0.1149	0.0425198 (0.004038)	0.0138548 (0.00418)	-0.1233097 (0.004121)
7:150529449	rs17173637	NA	C	T	0.1449	0.0342042 (0.046854)	0.0457748 (0.046854)	0.0456027 (0.046854)
2:54482553	rs17189743	TSPYL6	A	G	0.02832	0.0396507 (0.007634)	0.01822 (0.007927)	-0.03373 (0.007809)
3:132163200	rs17404153	DNAJC13	T	G	0.1261	0.0030597 (0.003937)	-0.0182777 (0.004074)	-0.0035421 (0.004009)
11:61569830	rs174546	FADS1	T	C	0.3121	-0.041822 (0.002804)	-0.053337 (0.002909)	0.052141 (0.002855)
19:52324216	rs17695224	FPR3	A	G	0.2508	-0.0278325 (0.002939)	-0.001773 (0.003043)	0.007519 (0.002989)
18:57851097	rs17782313	NA	C	T	0.2441	-0.0187114 (0.002984)	0.002343 (0.003084)	0.01395 (0.003029)
6:26093141	rs1800562	HFE	A	G	0.0479	0.007024 (0.006024)	-0.0441364 (0.006308)	0.0080621 (0.006213)
20:43042364	rs1800961	HNF4A	T	C	0.03085	-0.1396719 (0.007304)	-0.05428 (0.007587)	0.0042999 (0.007452)
1:161479745	rs1801274	FCGR2A	G	A	0.4842	-0.008375 (0.003521)	-0.0079908 (0.003603)	-0.0004092 (0.003542)
17:64210580	rs1801689	APOH	C	A	0.02673	-0.01933 (0.007901)	0.1045 (0.008176)	-0.0472513 (0.008026)
22:21932068	rs181362	UBE2L3	T	C	0.254	-0.0281524 (0.002979)	-0.007346 (0.003075)	-0.0127076 (0.003021)
10:5254847	rs1832007	AKR1C4	G	A	0.1381	-0.0088966 (0.003745)	-0.0056006 (0.003874)	-0.0181171 (0.003812)
9:107664301	rs1883025	ABCA1	T	C	0.2623	-0.066873 (0.002891)	-0.02412 (0.002991)	-0.02179 (0.002938)
10:124610027	rs1891110	FAM24B	A	G	0.5487	0.004137 (0.002556)	0.0205575 (0.002645)	0.003129 (0.002599)
7:1083777	rs1997243	C7orf50	G	A	0.1426	0.0258637 (0.003649)	0.01803 (0.00378)	0.008166 (0.003711)

16:72108093	rs2000999	HPR	A	G	0.2003	-0.007048 (0.003415)	0.063026 (0.003535)	0.0213489 (0.003471)
6:27835293	rs201148465	HIST1H1B	C	A	0.00138	0.0211363 (0.036292)	0.2098 (0.037634)	0.0354906 (0.036349)
19:42584958	rs201596848	ZNF574	T	C	0.00136	0.0902935 (0.034589)	-0.2553608 (0.036965)	-0.0434062 (0.03668)
2:121309488	rs2030746	NA	T	C	0.4127	-0.001354 (0.002575)	0.01389 (0.002665)	0.00458 (0.00262)
10:94839642	rs2068888	NA	A	G	0.4701	0.0227842 (0.002581)	-0.0163534 (0.002673)	-0.03199 (0.002628)
17:1648502	rs2070863	SERPINF2	T	C	0.2128	0.005799 (0.003236)	0.0094815 (0.003355)	0.01398 (0.003302)
17:40257163	rs2074158	DHX58	C	T	0.1867	-0.0201864 (0.003784)	0.0008413 (0.003924)	-0.0027224 (0.003857)
22:41170063	rs2076674	SLC25A17	C	T	0.3538	0.0018701 (0.002738)	0.0183521 (0.002824)	-0.002037 (0.002783)
8:59388565	rs2081687	NA	C	T	0.6624	-0.0026322 (0.002694)	-0.0276358 (0.002789)	-0.0185804 (0.002743)
17:73782191	rs2125345	UNK	C	T	0.3126	0.0075 (0.002878)	-0.0242084 (0.002982)	-0.0112256 (0.002926)
1:63025942	rs2131925	DOCK7	T	G	0.6477	0.0104456 (0.002711)	0.0444791 (0.002805)	0.073941 (0.002757)
6:52453220	rs2239619	NA	A	C	0.619	0.00002456 (0.00271)	0.0180313 (0.002769)	0.0009792 (0.002728)
6:31265490	rs2247056	NA	C	T	0.765	0.0131603 (0.003394)	0.016079 (0.003538)	0.0250569 (0.003486)
10:113933886	rs2255141	GPAM	G	A	0.7281	-0.0267435 (0.00288)	-0.02792 (0.002982)	0.0191947 (0.00293)
9:117166246	rs2274159	DFNB31	G	A	0.48	0.01063 (0.002578)	0.0090078 (0.002666)	0.0024206 (0.002622)
2:169830155	rs2287623	ABCB11	A	G	0.5921	-0.00597 (0.002606)	-0.0208912 (0.002699)	-0.0080046 (0.002653)
3:12628920	rs2290159	RAF1	C	G	0.204	-0.009257 (0.003744)	-0.0212431 (0.003893)	-0.0110358 (0.003843)
8:116599199	rs2293889	TRPS1	G	T	0.6204	0.02887 (0.002653)	-0.0149623 (0.00275)	-0.00414 (0.002704)
19:47589895	rs2303108	ZC3H4	C	T	0.6653	-0.0149234 (0.002752)	0.006731 (0.002847)	0.0111868 (0.002797)
3:47045846	rs2305637	NBEAL2	T	C	0.1581	-0.0323517 (0.004252)	0.0020226 (0.004463)	0.01566 (0.00439)

20:17845921	rs2328223	NA	C	A	0.2244	-0.04991 (0.039171)	0.1405 (0.039171)	0.06753 (0.039171)
15:42683787	rs2412710	CAPN3	A	G	0.0214	-0.04835 (0.008873)	0.002442 (0.009113)	0.0674914 (0.008956)
1:55504650	rs2479409	NA	A	G	0.6582	0.009488 (0.002691)	-0.0466149 (0.002786)	-0.002045 (0.002739)
5:131008194	rs26008	FNIP1	C	T	0.9195	0.01586 (0.004683)	0.002729 (0.00484)	-0.0277664 (0.004758)
4:100014805	rs2602836	LOC100507053	G	A	0.5796	-0.01377 (0.002693)	0.003104 (0.002781)	0.01266 (0.002743)
3:11400249	rs2606736	ATG7	T	C	0.599	-0.0009657 (0.002602)	-0.003689 (0.002692)	0.004378 (0.002647)
1:220970028	rs2642438	MOSC1	G	A	0.7619	0.0268468 (0.007873)	0.02622 (0.00793)	-0.0149747 (0.007837)
1:150958836	rs267733	ANXA9	G	A	0.1366	0.021253 (0.003721)	-0.0253057 (0.003861)	-0.0053787 (0.003794)
6:127452935	rs2745353	RSPO3	T	C	0.5253	-0.0231161 (0.002547)	0.0030394 (0.002636)	0.0204077 (0.00259)
6:39246856	rs2758873	NA	A	G	0.23776	0.045981 (0.03972)	0.0738191 (0.03972)	-0.039629 (0.03972)
1:219687432	rs2785990	NA	T	C	0.6852	-0.014979 (0.002757)	0.0095037 (0.002856)	0.015985 (0.002807)
6:34546560	rs2814982	NA	T	C	0.1196	-0.0283878 (0.003972)	-0.0167865 (0.004097)	-0.0015943 (0.004032)
10:101912064	rs2862954	ERLIN1	C	T	0.405	0.01617 (0.002691)	0.0096841 (0.002789)	0.0063832 (0.00274)
14:94844947	rs28929474	SERPINA1	T	C	0.01536	-0.01708 (0.010353)	0.08124 (0.010758)	0.02096 (0.010605)
5:176637576	rs28932178	NSD1	C	T	0.1679	0.0200863 (0.003483)	-0.008877 (0.003608)	-0.01664 (0.003549)
11:10388782	rs2923084	NA	G	A	0.2006	-0.011837 (0.003249)	0.007712 (0.003356)	0.0073356 (0.003302)
16:81534790	rs2925979	CMIP	C	T	0.698	0.04125 (0.002759)	-0.002986 (0.002856)	-0.0287751 (0.002809)
15:44245931	rs2929282	FRMD5	T	A	0.06708	-0.0313856 (0.005391)	0.0009448 (0.005531)	0.0447793 (0.005446)
8:126490972	rs2954029	NA	T	A	0.4468	0.03518 (0.002564)	-0.04761 (0.002653)	-0.07966 (0.002608)
2:227100698	rs2972146	NA	T	G	0.67	-0.0359841 (0.0028)	0.0052182 (0.002901)	0.0328407 (0.002852)

11:46743247	rs3136441	F2	C	T	0.1514	0.03992 (0.003853)	0.0052327 (0.003993)	-0.02355 (0.003938)
17:7091650	rs314253	NA	C	T	0.3507	-0.00008706 (0.002659)	-0.01959 (0.002753)	-0.0055727 (0.002708)
6:32412435	rs3177928	HLA-DRA	A	G	0.1409	-0.0004877 (0.004126)	0.03496 (0.00418)	0.01447 (0.004229)
16:15129940	rs3198697	PDXDC1	T	C	0.3988	-0.0010988 (0.034098)	-0.02055 (0.034098)	0.0201741 (0.034098)
1:214159256	rs340874	NA	C	T	0.5061	-0.0035915 (0.002579)	0.0059034 (0.002671)	0.0064489 (0.002626)
11:64031241	rs35169799	PLCB3	T	C	0.05893	-0.03914 (0.005394)	0.005833 (0.005616)	0.0384757 (0.005517)
5:176520243	rs351855	FGFR4	A	G	0.292	0.01002 (0.003167)	-0.01803 (0.003282)	-0.008172 (0.003238)
22:17625915	rs35665085	CECR5	A	G	0.04979	0.003913 (0.005826)	0.0091775 (0.006052)	0.03241 (0.005946)
20:12962718	rs364585	NA	G	A	0.6361	0.0072151 (0.002743)	0.0187598 (0.00284)	-0.01223 (0.002797)
6:16127407	rs3757354	NA	T	C	0.24403	0.003124 (0.002971)	-0.033431 (0.003072)	-0.002962 (0.00302)
16:56993324	rs3764261	NA	A	C	0.3127	0.238777 (0.002775)	-0.032443 (0.002874)	-0.0356036 (0.002823)
2:202122995	rs3769823	CASP8	G	A	0.6897	-0.0027072 (0.002782)	0.001299 (0.002881)	0.0171776 (0.002834)
9:2640759	rs3780181	VLDLR	G	A	0.07446	-0.0005274 (0.004855)	-0.0369647 (0.00502)	0.006014 (0.004942)
15:40751555	rs3803357	BAHD1	A	C	0.5429	0.0099063 (0.002593)	0.0004181 (0.002685)	-0.0169786 (0.002637)
9:139368953	rs3812594	SEC16A	A	G	0.2375	0.004415 (0.003033)	-0.0178008 (0.003146)	0.0064862 (0.003089)
5:74655726	rs3846663	HMGCR	T	C	0.3977	0.006229 (0.002656)	0.0656162 (0.002748)	0.002202 (0.002704)
19:54792761	rs386000	NA	C	G	0.2189	0.05397 (0.003991)	-0.0002399 (0.004104)	-0.0081628 (0.004037)
7:116358044	rs38855	MET	G	A	0.4624	0.0100202 (0.002564)	-0.003534 (0.002655)	-0.01422 (0.00261)
9:16887366	rs3927680	NA	A	T	0.5178	0.01 (0.002654)	-0.0131538 (0.002747)	-0.01811 (0.002701)
8:11702375	rs3947	CTSB	A	G	0.2313	0.003957 (0.00331)	-0.0016426 (0.003425)	0.02412 (0.003383)

10:52573772	rs41274050	A1CF	T	C	0.00715	-0.037601 (0.015145)	0.0570591 (0.015688)	0.1016376 (0.015382)
17:76403984	rs4129767	PGS1	A	G	0.4879	0.0263751 (0.00255)	0.0165082 (0.002641)	-0.01669 (0.002595)
20:56140439	rs41302559	PCK1	A	G	0.00206	0.0582471 (0.028098)	-0.0067475 (0.029184)	-0.1536386 (0.028705)
22:46627603	rs4253772	PPARA	T	C	0.09758	0.00477 (0.004516)	0.018203 (0.004683)	0.017872 (0.004591)
2:44072576	rs4299376	ABCG8	T	G	0.7127	0.0041769 (0.003084)	-0.070306 (0.003209)	-0.017339 (0.003152)
19:45422946	rs4420638	NA	G	A	0.1797	-0.0802618 (0.004055)	0.168016 (0.004176)	0.055937 (0.004099)
4:88030261	rs442177	AFF1	T	G	0.5731	-0.018336 (0.002586)	0.008547 (0.002674)	0.03051 (0.00263)
5:122855416	rs4530754	CSNK1G3	A	G	0.5536	0.0053378 (0.002677)	0.0169497 (0.002771)	-0.0029241 (0.002731)
1:178515312	rs4650994	C1orf220	A	G	0.4916	-0.0191952 (0.002588)	0.002208 (0.002681)	0.00922 (0.002639)
1:40028180	rs4660293	PABPC4	G	A	0.208	-0.0398414 (0.003183)	0.0009698 (0.003299)	0.02428 (0.003242)
7:25991826	rs4722551	NA	C	T	0.1577	0.007327 (0.003626)	0.0399107 (0.003754)	-0.02558 (0.003695)
7:130433384	rs4731702	NA	T	C	0.4596	0.033021 (0.00265)	-0.006628 (0.002745)	-0.027084 (0.002701)
1:155106227	rs4745	EFNA1	T	A	0.4876	0.0032689 (0.002627)	-0.0148197 (0.00272)	-0.001692 (0.002671)
12:123796238	rs4759375	SBNO1	T	C	0.1087	0.0505695 (0.005331)	0.0103686 (0.005479)	-0.002611 (0.005369)
12:124460167	rs4765127	ZNF664 ZNF664- FAM101A	T	G	0.3294	0.032852 (0.003909)	-0.005202 (0.004011)	-0.023558 (0.003942)
20:62349586	rs4809330	ZGPAT	G	A	0.7005	-0.0089263 (0.002817)	-0.0152932 (0.002919)	0.0036754 (0.002868)
1:230295691	rs4846914	GALNT2	A	G	0.5506	0.04942 (0.002735)	0.0001637 (0.002833)	-0.03941 (0.002786)
6:151901409	rs4870044	C6orf97	T	C	0.3408	-0.00007253 (0.002881)	0.0143991 (0.002982)	0.006217 (0.002935)
8:121868551	rs4871137	NA	T	G	0.6404	-0.02223 (0.002771)	-0.001985 (0.002862)	0.0009341 (0.002819)
12:9082581	rs4883201	PHC1	G	A	0.115	-0.03036 (0.004016)	-0.02204 (0.004161)	0.001646 (0.004088)

7:50305863	rs4917014	NA	G	T	0.2985	0.0167219 (0.002789)	-0.001572 (0.002889)	-0.0011562 (0.002839)
19:49206417	rs492602	FUT2	G	A	0.4502	-0.007407 (0.002735)	0.028327 (0.002831)	0.017758 (0.002785)
13:32953388	rs4942486	BRCA2	C	T	0.5158	0.009385 (0.002562)	-0.0215512 (0.002653)	-0.0085198 (0.002609)
5:67714246	rs4976033	NA	G	A	0.4248	-0.0146967 (0.002584)	0.002944 (0.002674)	0.017692 (0.002629)
14:105277209	rs4983559	NA	A	G	0.5689	-0.0266641 (0.0026)	-0.002315 (0.002693)	0.007131 (0.002646)
11:75455021	rs499974	NA	A	C	0.184	-0.02622 (0.003336)	-0.002109 (0.003449)	-0.0089446 (0.003394)
22:38546033	rs5756931	PLA2G6	C	T	0.3691	0.01705 (0.002814)	-0.0019876 (0.002905)	-0.01991 (0.002854)
22:30378703	rs5763662	MTMR3	T	C	0.03132	0.018 (0.00789)	0.0254959 (0.008161)	-0.006218 (0.008032)
9:15305378	rs581080	TTC39B	C	G	0.7968	0.0373235 (0.003236)	0.0068168 (0.003349)	0.0158356 (0.003289)
20:39672618	rs6029526	TOP1	A	T	0.5095	0.0037952 (0.002605)	0.0352122 (0.002696)	0.0133591 (0.00265)
6:139829666	rs605066	NA	T	C	0.5692	0.0225756 (0.002861)	-0.004976 (0.002963)	-0.02451 (0.002926)
4:155489608	rs6054	FGB	T	C	0.0038	-0.0268535 (0.020872)	0.0910444 (0.021773)	0.1427 (0.02139)
20:62695931	rs6062343	TCEA2	A	G	0.4322	0.0131208 (0.002648)	-0.0143458 (0.002737)	-0.0178037 (0.002697)
12:72179446	rs61754230	RAB21	T	C	0.01507	-0.0104 (0.010402)	0.0573498 (0.010816)	-0.002943 (0.010608)
11:68703959	rs622082	IGHMBP2	G	A	0.3102	-0.0171778 (0.002773)	0.0003493 (0.002873)	0.014101 (0.002826)
8:61548494	rs626913	NA	C	A	0.5191	0.0025179 (0.002545)	0.01188 (0.002634)	0.009915 (0.00259)
1:109818306	rs629301	CELSR2	T	G	0.7742	-0.0418141 (0.003055)	0.1575181 (0.003163)	0.01383 (0.003108)
9:136155000	rs635634	NA	T	C	0.1904	0.01658 (0.003378)	0.0773341 (0.003486)	-0.0110848 (0.00343)
5:53298025	rs6450176	ARL15	A	G	0.2703	-0.0133145 (0.003145)	0.004588 (0.003222)	0.0173217 (0.003158)
3:135926622	rs645040	NA	T	G	0.7818	-0.0207 (0.003094)	0.0106915 (0.003199)	0.02264 (0.003147)

19:11202306	rs6511720	LDLR	T	G	0.1075	0.0241673 (0.004115)	-0.2114279 (0.004257)	-0.0063561 (0.004185)
2:113841030	rs6734238	NA	G	A	0.3909	-0.0004142 (0.002644)	-0.01183 (0.002722)	-0.0103799 (0.002678)
9:19376255	rs67710536	RPS6	C	A	0.1111	0.01532 (0.004336)	0.0282728 (0.004458)	0.004035 (0.004391)
4:3473139	rs6831256	DOK7	G	A	0.4412	-0.007848 (0.002587)	0.01266 (0.002679)	0.02101 (0.002633)
5:156390297	rs6882076	TIMD4	C	T	0.626	-0.00159 (0.002654)	0.0390394 (0.002746)	0.0378331 (0.002699)
7:6449272	rs702485	DAGLB	G	A	0.4633	0.09697 (0.033105)	0.0078124 (0.033105)	-0.05185 (0.033105)
17:26694861	rs704	VTN	A	G	0.4864	-0.0100425 (0.002556)	0.0214349 (0.002647)	-0.0063109 (0.002602)
10:115789375	rs7076938	NA	T	C	0.7253	0.0187491 (0.002851)	-0.0009664 (0.00295)	-0.0099861 (0.0029)
12:20473758	rs7134375	NA	A	C	0.4116	0.02065 (0.002581)	0.0033477 (0.002673)	-0.01362 (0.002628)
12:110000193	rs7134594	MMAB	T	C	0.5261	0.0300993 (0.002587)	0.005685 (0.002678)	0.0026108 (0.002632)
12:7691134	rs7136716	NA	G	A	0.1502	0.0207533 (0.003647)	-0.00607 (0.003758)	-0.00787 (0.003697)
14:64235556	rs7157785	NA	T	G	0.1773	-0.013265 (0.003633)	0.01136 (0.003761)	0.0229178 (0.003708)
18:47160953	rs7241918	NA	T	G	0.8481	0.0774087 (0.003563)	0.0204613 (0.003704)	0.006444 (0.003641)
19:7224431	rs7248104	INSR	A	G	0.403	0.01217 (0.002589)	-0.0022646 (0.002681)	-0.020203 (0.002636)
19:8433196	rs7255436	ANGPTL4	A	C	0.5207	0.0290316 (0.002566)	0.0075534 (0.002658)	-0.019297 (0.002611)
20:34116282	rs7261862	C20orf173	C	T	0.1768	-0.003868 (0.003382)	-0.023574 (0.003492)	-0.013216 (0.003428)
17:41926126	rs72836561	CD300LG	T	C	0.02753	-0.1726104 (0.007717)	-0.02729 (0.008014)	0.1326595 (0.007857)
19:33899065	rs731839	PEPD	A	G	0.6336	0.016818 (0.002663)	0.001228 (0.002756)	-0.0154903 (0.002709)
19:11347493	rs737337	DOCK6	C	T	0.1197	-0.0583385 (0.004215)	-0.015796 (0.004326)	0.0020973 (0.004264)
22:44324727	rs738409	PNPLA3	G	C	0.2313	-0.01208 (0.003037)	-0.01796 (0.003135)	-0.0181029 (0.003084)

13:114527838	rs7400722	GAS6	A	G	0.4203	0.0005495 (0.003018)	0.0108984 (0.003121)	0.014688 (0.003074)
11:109995944	rs746463	ZC3H12C	T	C	0.6892	-0.01657 (0.002847)	0.0007307 (0.002948)	0.0099146 (0.002903)
1:93009438	rs7515577	EVI5	A	C	0.8166	0.0041697 (0.003333)	0.0302476 (0.003455)	0.009148 (0.003398)
16:69385641	rs76116020	TMED6	G	A	0.03279	-0.0412576 (0.00713)	-0.0130922 (0.007433)	0.004948 (0.007304)
3:49971514	rs7613875	NA	A	C	0.4941	-0.0215262 (0.002632)	0.0006262 (0.002723)	0.0008603 (0.002676)
3:32533010	rs7640978	CMTM6	T	C	0.09258	-0.00388 (0.004456)	-0.03311 (0.0046)	-0.003572 (0.004527)
20:44576502	rs7679	PCIF1	C	T	0.1685	-0.0561773 (0.003411)	0.0110928 (0.003539)	0.0534459 (0.003476)
16:4755108	rs78074706	ANKS3	A	G	0.02152	-0.0530981 (0.008692)	0.008417 (0.009031)	0.02707 (0.008884)
10:74637326	rs7901016	CCDC109A	C	T	0.06978	-0.0219525 (0.005542)	-0.0177426 (0.005719)	0.0422921 (0.005615)
11:122522375	rs7941030	NA	C	T	0.38	0.02413 (0.002612)	0.01445 (0.002705)	-0.0009928 (0.00266)
17:17409560	rs7946	PEMT	T	C	0.6667	0.004621 (0.002818)	-0.00721 (0.002916)	-0.01634 (0.002863)
13:51221618	rs797486	NA	A	C	0.8709	-0.0174945 (0.00378)	0.0043901 (0.003906)	0.020136 (0.003841)
14:75322794	rs8014204	PROX2	A	G	0.5702	0.0081899 (0.002715)	0.0121151 (0.002813)	-0.0026616 (0.002768)
14:24883887	rs8017377	NYNRIN	A	G	0.4228	0.002696 (0.002608)	0.02263 (0.002705)	0.003689 (0.002657)
17:41878166	rs8077889	MPP3	C	A	0.2017	-0.0061447 (0.003176)	-0.005101 (0.003288)	0.0138408 (0.003232)
18:56109859	rs8099014	NA	A	C	0.7115	0.0148 (0.002835)	-0.0040945 (0.002932)	-0.005893 (0.002884)
12:125261593	rs838880	NA	T	C	0.6334	-0.028954 (0.002667)	-0.0014224 (0.002762)	-0.00125 (0.002714)
17:8216468	rs871841	ARHGEF15	C	T	0.5191	0.0029362 (0.002656)	0.0140764 (0.002749)	0.006962 (0.002707)
19:18304700	rs874628	MPV17L2	G	A	0.2609	0.0005293 (0.002914)	0.0145906 (0.00302)	0.0053915 (0.00297)
3:156798732	rs900399	NA	G	A	0.3824	0.01871 (0.002628)	0.006631 (0.002719)	-0.0141687 (0.002672)

6:135411228	rs9376090	NA	C	T	0.2377	-0.0159672 (0.003045)	-0.0251724 (0.003155)	-0.002951 (0.0031)
11:116648917	rs964184	NA	C	G	0.8478	0.111711 (0.00355)	-0.036994 (0.003689)	-0.245988 (0.003599)
14:71096344	rs9646133	NA	T	G	0.3263	0.0088582 (0.002736)	-0.0189208 (0.002831)	-0.0004319 (0.002783)
5:55861786	rs9686661	NA	T	C	0.1869	-0.0321721 (0.003256)	0.0094768 (0.003374)	0.0423425 (0.003312)
10:46013277	rs970548	MARCH8	C	A	0.2421	0.0259897 (0.002982)	0.0113847 (0.003087)	0.0025 (0.003034)
4:69343287	rs976002	TMPRSS11E	G	A	0.2259	0.0085285 (0.003156)	0.022859 (0.003272)	0.0151 (0.00322)
3:185834499	rs9816226	NA	T	A	0.8257	0.0275756 (0.00338)	0.005662 (0.003499)	0.0090597 (0.003442)
6:43757896	rs998584	NA	A	C	0.4824	-0.025542 (0.002652)	0.008065 (0.002752)	0.033737 (0.002707)
8:9183358	rs9987289	NA	G	A	0.8993	0.09982 (0.004376)	0.0568788 (0.004534)	-0.03261 (0.004455)

Supplemental Table V. Single nucleotide variants used for Mendelian randomization analysis of single-nucleotide variants associated with HDL-C levels. Data are derived from the Global Lipid Genetics Consortium exome array analysis, which has been described previously¹. Data are reported in standardized effects (standard deviation units) and represent subset of the 57 / 223 single-nucleotide variants described in Supplemental Table IV. Effect allele (EA; positive effect size for HDL-C), non-effect allele (NEA), high-density lipoprotein cholesterol (HDL-C), low-density lipoprotein cholesterol (LDL-C), triglycerides, and standard error (SE).

rsID	Gene	EA / NEA	HDL-C beta (SE)	HDL-C p	LDL-C beta (SE)	LDL-C p	TG beta (SE)	TG p
rs1121980	FTO	G / A	0.0201 (0.0026)	8.57E-15	-0.0041 (0.0027)	0.127403	-0.0176 (0.0026)	2.27E-11
rs11869286	STARD3	C / G	0.0303 (0.0028)	5.86E-27	0.0029 (0.0029)	0.31684	-0.0025 (0.0029)	0.37447
rs12145743	RRNAD1	G / T	0.0172 (0.003)	9.67E-09	-0.0017 (0.0031)	0.595247	-0.0113 (0.0031)	0.000224
rs12328675	NA	C / T	0.05 (0.0039)	3.07E-37	-0.0037 (0.0041)	0.367497	-0.045 (0.004)	1.89E-29
rs12678919	NA	G / A	0.1586 (0.0043)	9.33E-294	0.0123 (0.0045)	0.005868	-0.1778 (0.0044)	0
rs12748152	NA	C / T	0.0434 (0.0049)	1.56E-18	-0.0306 (0.0051)	2.29E-09	-0.0306 (0.005)	1.22E-09
rs12801636	PCNXL3	A / G	0.0118 (0.003)	9.17E-05	0.0076 (0.0031)	0.01429	-0.0179 (0.0031)	5.48E-09
rs13107325	SLC39A8	C / T	0.0737 (0.0058)	7.38E-37	0.0345 (0.0061)	1.18E-08	-0.0337 (0.006)	1.52E-08
rs13326165	STAB1	A / G	0.0246 (0.0032)	2.97E-14	-0.0033 (0.0034)	0.325752	-0.0202 (0.0033)	9.69E-10
rs1532085	NA	A / G	0.0956 (0.0026)	1.17E-295	-0.0002 (0.0027)	0.94872	0.0311 (0.0026)	4.61E-32
rs1689800	NA	A / G	0.0246 (0.0027)	5.90E-20	-0.0129 (0.0028)	3.53E-06	-0.0083 (0.0027)	0.002518
rs16942887	PSKH1	A / G	0.0801 (0.0039)	9.85E-93	0.0012 (0.004)	0.757343	-0.0158 (0.004)	7.29E-05
rs17145738	NA	T / C	0.0425 (0.004)	6.21E-26	0.0139 (0.0042)	0.000918	-0.1233 (0.0041)	9.43E-197
rs17173637	NA	C / T	0.0342 (0.0469)	0.4654	0.0458 (0.0469)	0.328583	0.0456 (0.0469)	0.3304
rs17404153	DNAJC13	T / G	0.0031 (0.0039)	0.4371	-0.0183 (0.0041)	7.26E-06	-0.0035 (0.004)	0.376887
rs174546	FADS1	C / T	0.0418 (0.0028)	2.68E-50	0.0533 (0.0029)	4.31E-75	-0.0521 (0.0029)	1.57E-74
rs17695224	FPR3	G / A	0.0278 (0.0029)	2.81E-21	0.0018 (0.003)	0.559998	-0.0075 (0.003)	0.011877
rs1800961	HNF4A	C / T	0.1397 (0.0073)	1.64E-81	0.0543 (0.0076)	8.45E-13	-0.0043 (0.0075)	0.563905
rs181362	UBE2L3	C / T	0.0282 (0.003)	3.37E-21	0.0073 (0.0031)	0.016894	0.0127 (0.003)	2.59E-05
rs1883025	ABCA1	C / T	0.0669 (0.0029)	2.07E-118	0.0241 (0.003)	7.24E-16	0.0218 (0.0029)	1.20E-13
rs2293889	TRPS1	G / T	0.0289 (0.0027)	1.38E-27	-0.015 (0.0028)	5.29E-08	-0.0041 (0.0027)	0.1257

rs2602836	LOC100507053	A / G	0.0138 (0.0027)	3.18E-07	-0.0031 (0.0028)	0.26435	-0.0127 (0.0027)	3.93E-06
rs2606736	ATG7	C / T	0.001 (0.0026)	0.710498	0.0037 (0.0027)	0.170559	-0.0044 (0.0026)	0.098214
rs2923084	NA	A / G	0.0118 (0.0032)	0.00027	-0.0077 (0.0034)	0.02157	-0.0073 (0.0033)	0.02631
rs2925979	CMIP	C / T	0.0413 (0.0028)	1.52E-50	-0.003 (0.0029)	0.295836	-0.0288 (0.0028)	1.24E-24
rs2954029	NA	T / A	0.0352 (0.0026)	7.47E-43	-0.0476 (0.0027)	5.12E-72	-0.0797 (0.0026)	8.29E-205
rs2972146	NA	G / T	0.036 (0.0028)	8.20E-38	-0.0052 (0.0029)	0.0721	-0.0328 (0.0029)	1.12E-30
rs3136441	F2	C / T	0.0399 (0.0039)	3.74E-25	0.0052 (0.004)	0.19	-0.0236 (0.0039)	2.23E-09
rs3764261	NA	A / C	0.2388 (0.0028)	0	-0.0324 (0.0029)	1.48E-29	-0.0356 (0.0028)	1.77E-36
rs386000	NA	C / G	0.054 (0.004)	1.15E-41	-0.0002 (0.0041)	0.953382	-0.0082 (0.004)	0.043165
rs4129767	PGS1	A / G	0.0264 (0.0026)	4.58E-25	0.0165 (0.0026)	4.06E-10	-0.0167 (0.0026)	1.27E-10
rs4420638	NA	A / G	0.0803 (0.0041)	3.49E-87	-0.168 (0.0042)	0	-0.0559 (0.0041)	2.14E-42
rs4650994	C1orf220	G / A	0.0192 (0.0026)	1.21E-13	-0.0022 (0.0027)	0.410138	-0.0092 (0.0026)	0.000476
rs4660293	PABPC4	A / G	0.0398 (0.0032)	6.07E-36	-0.001 (0.0033)	0.768806	-0.0243 (0.0032)	6.87E-14
rs4731702	NA	T / C	0.033 (0.0027)	1.22E-35	-0.0066 (0.0027)	0.01576	-0.0271 (0.0027)	1.14E-23
rs4759375	SBNO1	T / C	0.0506 (0.0053)	2.42E-21	0.0104 (0.0055)	0.058425	-0.0026 (0.0054)	0.626747
rs4765127	ZNF664 ZNF664 -FAM101A	T / G	0.0329 (0.0039)	4.32E-17	-0.0052 (0.004)	0.194711	-0.0236 (0.0039)	2.29E-09
rs4846914	GALNT2	A / G	0.0494 (0.0027)	5.69E-73	0.0002 (0.0028)	0.953917	-0.0394 (0.0028)	1.98E-45
rs4917014	NA	G / T	0.0167 (0.0028)	2.02E-09	-0.0016 (0.0029)	0.586211	-0.0012 (0.0028)	0.6839
rs4983559	NA	G / A	0.0267 (0.0026)	1.11E-24	0.0023 (0.0027)	0.389941	-0.0071 (0.0026)	0.007032
rs499974	NA	C / A	0.0262 (0.0033)	3.85E-15	0.0021 (0.0034)	0.54099	0.0089 (0.0034)	0.008398
rs581080	TTC39B	C / G	0.0373 (0.0032)	8.94E-31	0.0068 (0.0033)	0.041783	0.0158 (0.0033)	1.47E-06
rs605066	NA	T / C	0.0226 (0.0029)	3.00E-15	-0.005 (0.003)	0.0931	-0.0245 (0.0029)	5.44E-17
rs6450176	ARL15	G / A	0.0133 (0.0031)	2.30E-05	-0.0046 (0.0032)	0.154466	-0.0173 (0.0032)	4.13E-08
rs702485	DAGLB	G / A	0.097 (0.0331)	0.003399	0.0078 (0.0331)	0.81344	-0.0519 (0.0331)	0.117314
rs7134375	NA	A / C	0.0207 (0.0026)	1.26E-15	0.0033 (0.0027)	0.210356	-0.0136 (0.0026)	2.18E-07
rs7134594	MMAB	T / C	0.0301 (0.0026)	2.74E-31	0.0057 (0.0027)	0.03377	0.0026 (0.0026)	0.321222
rs7241918	NA	T / G	0.0774 (0.0036)	1.16E-104	0.0205 (0.0037)	3.32E-08	0.0064 (0.0036)	0.07676
rs7255436	ANGPTL4	A / C	0.029 (0.0026)	1.14E-29	0.0076 (0.0027)	0.004483	-0.0193 (0.0026)	1.45E-13
rs731839	PEPD	A / G	0.0168 (0.0027)	2.70E-10	0.0012 (0.0028)	0.6559	-0.0155 (0.0027)	1.08E-08
rs737337	DOCK6	T / C	0.0583 (0.0042)	1.42E-43	0.0158 (0.0043)	0.000261	-0.0021 (0.0043)	0.6229
rs7941030	NA	C / T	0.0241 (0.0026)	2.52E-20	0.0145 (0.0027)	9.20E-08	-0.001 (0.0027)	0.708995
rs838880	NA	C / T	0.029 (0.0027)	1.89E-27	0.0014 (0.0028)	0.6065	0.0013 (0.0027)	0.64517

rs964184	NA	C / G	0.1117 (0.0036)	2.60E-217	-0.037 (0.0037)	1.13E-23	-0.246 (0.0036)	0
rs970548	MARCH8	C / A	0.026 (0.003)	2.86E-18	0.0114 (0.0031)	0.000226	0.0025 (0.003)	0.40991
rs998584	NA	C / A	0.0255 (0.0027)	5.97E-22	-0.0081 (0.0028)	0.00339	-0.0337 (0.0027)	1.22E-35
rs9987289	NA	G / A	0.0998 (0.0044)	3.69E-115	0.0569 (0.0045)	4.28E-36	-0.0326 (0.0045)	2.50E-13

Supplemental Table VI. Baseline characteristics of UK Biobank participants with British Caucasian genetic ancestry

stratified by quintiles of measured levels of HDL-C. Body mass index (BMI), hemoglobin A1c (HbA1c), high-density lipoprotein cholesterol (HDL-C), low-density lipoprotein cholesterol (LDL-C).

Characteristic	Quintile 1 (n=71,561)	Quintile 2 (n=71,709)	Quintile 3 (n=71,323)	Quintile 4 (n=71,238)	Quintile 5 (m=71,371)	p
Demographics						
Age - mean (SD)	56.69 (8.28)	56.7 (8.20)	56.84 (8.04)	56.93 (7.91)	57.47 (7.51)	<0.0001
Male sex - no. (%)	55328 (77.32)	42991 (59.95)	32452 (45.5)	22176 (31.13)	12649 (17.72)	<0.0001
Biochemistry – mean (SD)						
Total cholesterol (mmol/L)	5.12 (1.11) / 71542	5.57 (1.10) / 71696	5.77 (1.10) / 71313	5.92 (1.07) / 71228	6.21 (1.05) / 71355	<0.0001
Direct LDL-C (mmol/L)	3.32 (0.84) / 71433	3.60 (0.87) / 71610	3.67 (0.88) / 71215	3.66 (0.87) / 71144	3.62 (0.85) / 71232	<0.0001
Apolipoprotein B (g/L)	1.01 (0.24) / 70810	1.06 (0.24) / 71441	1.06 (0.24) / 71111	1.04 (0.24) / 71029	1 (0.23) / 71062	<0.0001
Triglycerides (mmol/L)	2.50 (1.32) / 71502	1.99 (0.99) / 71658	1.69 (0.83) / 71267	1.44 (0.69) / 71183	1.17 (0.52) / 71315	<0.0001
HDL-C (mmol/L)	0.99 (0.11) / 71561	1.22 (0.05) / 71709	1.40 (0.05) / 71323	1.62 (0.07) / 71238	2.03 (0.26) / 71371	<0.0001
Apolipoprotein A-I (g/L)	1.22 (0.12) / 71509	1.40 (0.10) / 71671	1.52 (0.10) / 71290	1.66 (0.12) / 71179	1.92 (0.20) / 69432	<0.0001
HbA1c (mmol/mol)	37.85 (9.01) / 68332	36.27 (6.73) / 68517	35.62 (5.72) / 68146	35.20 (4.92) / 67935	34.87 (4.55) / 68142	<0.0001
C-reactive protein (mg/L)	3.44 (5.36) / 71296	2.87 (4.47) / 71582	2.55 (4.11) / 71194	2.25 (3.88) / 71110	1.91 (3.62) / 71234	<0.0001
Medical History – no. (%) / n						
Diabetes mellitus	8183 (11.43) / 71280	3832 (5.34) / 71520	2425 (3.4) / 71190	1617 (2.27) / 71130	1144 (1.60) / 71287	<0.0001
Hypertension	26115 (36.56) / 71436	21484 (30.01) / 71601	18754 (26.33) / 71217	16093 (22.63) / 71110	14369 (20.16) / 71285	<0.0001
Angina	4949 (6.93) / 71436	2666 (3.72) / 71601	1833 (2.57) / 71217	1176 (1.65) / 71110	825 (1.16) / 71285	<0.0001
Myocardial infarction	4041 (5.66) / 71436	1985 (2.77) / 71601	1161 (1.63) / 71217	748 (1.05) / 71110	448 (0.63) / 71285	<0.0001
Stroke	1823 (2.55) / 71436	1223 (1.71) / 71601	942 (1.32) / 71217	841 (1.18) / 71110	663 (0.93) / 71285	<0.0001
BMI – mean (SD) / n	29.79 (4.91) / 71249	28.49 (4.71) / 71470	27.48 (4.51) / 71131	26.39 (4.26) / 71050	24.97 (3.80) / 71185	<0.0001
Medications – no. (%) / n						
Lipid-lowering medication	4045 (25.10) / 16113	5165 (18.06) / 28600	5273 (13.62) / 38718	5151 (10.54) / 48880	4727 (8.07) / 58550	<0.0001
Antihypertensives	4931 (30.60) / 16113	6720 (23.50) / 28600	7324 (18.92) / 38718	7404 (15.15) / 48880	7327 (12.51) / 58550	<0.0001
Insulin	357 (2.22) / 16113	273 (0.95) / 28600	207 (0.53) / 38718	238 (0.49) / 48880	352 (0.60) / 58550	<0.0001
Exogenous hormones	1822 (11.31) / 16113	2756 (9.64) / 28600	3595 (9.29) / 38718	4668 (9.55) / 48880	5948 (10.16) / 58550	<0.0001

Supplemental Table VII. Baseline characteristics of UK Biobank participants with British Caucasian genetic ancestry stratified by quintiles of measured levels of LDL-C. Body mass index (BMI), hemoglobin A1c (HbA1c), high-density lipoprotein cholesterol (HDL-C), low-density lipoprotein cholesterol (LDL-C).

Characteristic	Quintile 1 (n=77,977)	Quintile 2 (n=78,009)	Quintile 3 (n=77,898)	Quintile 4 (n=77,791)	Quintile 5 (n=77,889)	p
Demographics						
Age - mean (SD)	57.18 (8.65)	56.04 (8.31)	56.49 (7.95)	57.06 (7.62)	57.77 (7.3)	<0.0001
Male sex - no. (%)	41162 (52.79)	36025 (46.18)	35547 (45.63)	35029 (45.03)	31274 (40.15)	<0.0001
Biochemistry – mean (SD)						
Total cholesterol (mmol/L)	4.25 (0.56) / 77944	5.12 (0.39) / 77989	5.67 (0.38) / 77885	6.25 (0.39) / 77768	7.29 (0.71) / 77874	<0.0001
Direct LDL-C (mmol/L)	2.41 (0.33) / 77977	3.08 (0.14) / 78009	3.53 (0.13) / 77898	4.01 (0.15) / 77791	4.84 (0.49) / 77889	<0.0001
Apolipoprotein B (g/L)	0.73 (0.10) / 77099	0.90 (0.07) / 77772	1.02 (0.07) / 77684	1.15 (0.08) / 77618	1.37 (0.15) / 77460	<0.0001
Triglycerides (mmol/L)	1.50 (0.96) / 77922	1.59 (0.98) / 77963	1.70 (0.99) / 77842	1.86 (1.01) / 77751	2.13 (1.06) / 77836	<0.0001
HDL-C (mmol/L)	1.38 (0.4) / 71146	1.46 (0.39) / 71181	1.47 (0.38) / 71291	1.47 (0.37) / 71478	1.49 (0.35) / 71538	<0.0001
Apolipoprotein A-I (g/L)	1.49 (0.28) / 70763	1.55 (0.27) / 70748	1.55 (0.27) / 70857	1.55 (0.27) / 71066	1.56 (0.26) / 71153	<0.0001
HbA1c (mmol/mol)	37.62 (9.27) / 74469	35.53 (6.45) / 74458	35.28 (5.27) / 74345	35.42 (5.02) / 74303	35.94 (5.05) / 74508	<0.0001
C-reactive protein (mg/L)	2.72 (5.18) / 77689	2.53 (4.55) / 77830	2.54 (4.34) / 77719	2.54 (3.90) / 77653	2.65 (3.70) / 77761	<0.0001
Medical History – no. (%) / n						
Diabetes mellitus	11892 (15.25) / 77748	3466 (4.44) / 77827	1723 (2.21) / 77741	1019 (1.31) / 77640	675 (0.87) / 77750	<0.0001
Hypertension	30528 (39.22) / 77841	21268 (27.30) / 77904	18636 (23.96) / 77774	17750 (22.85) / 77681	17171 (22.08) / 77757	<0.0001
Angina	7391 (9.49) / 77841	2573 (3.30) / 77904	1161 (1.49) / 77774	741 (0.95) / 77681	604 (0.78) / 77757	<0.0001
Myocardial infarction	5759 (7.40) / 77841	1856 (2.38) / 77904	792 (1.02) / 77774	409 (0.53) / 77681	311 (0.40) / 77757	<0.0001
Stroke	3262 (4.19) / 77841	1220 (1.57) / 77904	679 (0.87) / 77774	457 (0.59) / 77681	392 (0.50) / 77757	<0.0001
BMI – mean (SD) / n	27.56 (5.27) / 77656	27.07 (4.88) / 77760	27.19 (4.64) / 77699	27.47 (4.55) / 77587	27.77 (4.32) / 77653	<0.0001
Medications – no. (%) / n						
Lipid-lowering medication	13028 (35.52) / 36678	7033 (16.81) / 41832	3455 (8.19) / 42200	1809 (4.25) / 42568	1323 (2.85) / 46429	<0.0001
Antihypertensives	10079 (27.48) / 36678	7427 (17.75) / 41832	6403 (15.17) / 42200	6370 (14.96) / 42568	6621 (14.26) / 46429	<0.0001
Insulin	1032 (2.81) / 36678	283 (0.68) / 41832	137 (0.32) / 42200	63 (0.15) / 42568	58 (0.12) / 46429	<0.0001
Exogenous hormones	4427 (12.07) / 36678	4805 (11.49) / 41832	4415 (10.46) / 42200	3808 (8.95) / 42568	3202 (6.9) / 46429	<0.0001

Supplemental Table VIII. Baseline characteristics of UK Biobank participants with British Caucasian genetic ancestry stratified by quintiles of measured levels of triglycerides. Body mass index (BMI), hemoglobin A1c (HbA1c), high-density lipoprotein cholesterol (HDL-C), low-density lipoprotein cholesterol (LDL-C).

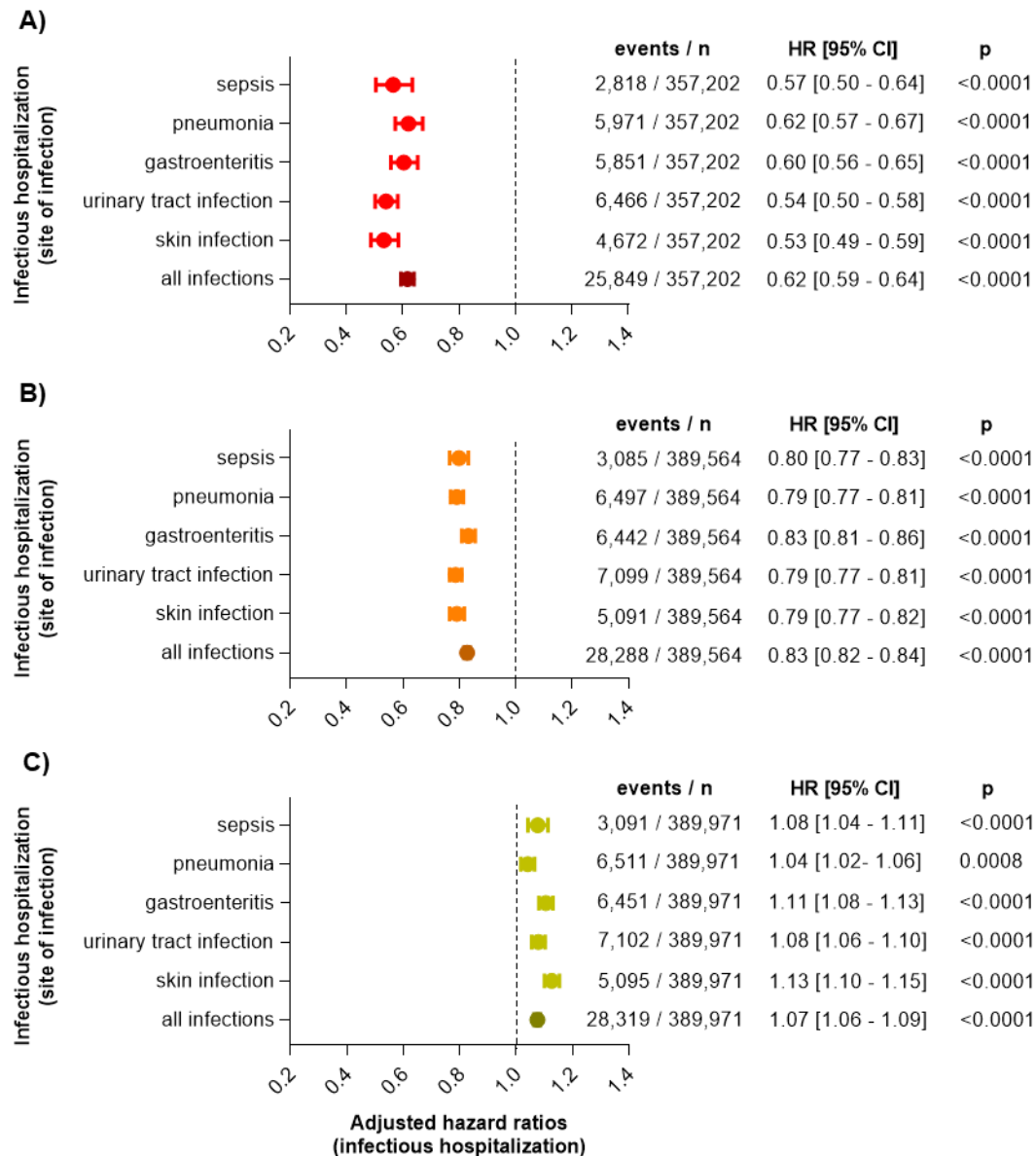
Characteristic	Quintile 1 (n=78,149)	Quintile 2 (n=77,954)	Quintile 3 (n=77,987)	Quintile 4 (n=77,964)	Quintile 5 (n=77,917)	p
Demographics						
Age - mean (SD)	54.72 (8.32)	56.79 (8.02)	57.65 (7.81)	57.98 (7.68)	57.4 (7.74)	<0.0001
Male sex - no. (%)	25470 (32.59)	30300 (38.87)	34855 (44.69)	40108 (51.44)	48486 (62.23)	<0.0001
Biochemistry – mean (SD)						
Total cholesterol (mmol/L)	5.32 (1.00) / 78118	5.58 (1.06) / 77933	5.71 (1.1) / 77968	5.86 (1.16) / 77946	6.10 (1.23) / 77902	<0.0001
Direct LDL-C (mmol/L)	3.17 (0.73) / 78006	3.46 (0.79) / 77810	3.61 (0.84) / 77871	3.75 (0.89) / 77841	3.86 (0.92) / 77786	<0.0001
Apolipoprotein B (g/L)	0.91 (0.19) / 77726	0.99 (0.21) / 77794	1.04 (0.22) / 77844	1.09 (0.24) / 77827	1.14 (0.26) / 76862	<0.0001
Triglycerides (mmol/L)	0.78 (0.13) / 78149	1.14 (0.1) / 77954	1.50 (0.12) / 77987	2.01 (0.19) / 77964	3.36 (1.06) / 77917	<0.0001
HDL-C (mmol/L)	1.71 (0.40) / 71478	1.57 (0.36) / 71419	1.45 (0.33) / 71329	1.34 (0.30) / 71380	1.19 (0.27) / 71319	<0.0001
Apolipoprotein A-I (g/L)	1.65 (0.28) / 70681	1.60 (0.27) / 70912	1.55 (0.26) / 71026	1.50 (0.25) / 71141	1.42 (0.23) / 71141	<0.0001
HbA1c (mmol/mol)	34.49 (5.19) / 74629	35.20 (5.53) / 74373	35.81 (5.72) / 74476	36.61 (6.66) / 74411	37.67 (8.31) / 74590	<0.0001
C-reactive protein (mg/L)	1.93 (4.36) / 77937	2.37 (4.42) / 77763	2.69 (4.52) / 77832	2.94 (4.42) / 77839	3.06 (4.01) / 77689	<0.0001
Medical History – no. (%) / n						
Diabetes mellitus	2227 (2.85) / 78063	2586 (3.32) / 77821	3407 (4.37) / 77823	4583 (5.88) / 77762	5988 (7.69) / 77644	<0.0001
Hypertension	13787 (17.66) / 78050	18277 (23.48) / 77832	21643 (27.80) / 77851	24551 (31.54) / 77847	27191 (34.96) / 77783	<0.0001
Angina	1655 (2.12) / 78050	2147 (2.76) / 77832	2574 (3.31) / 77851	2880 (3.70) / 77847	3225 (4.15) / 77783	<0.0001
Myocardial infarction	1269 (1.63) / 78050	1603 (2.06) / 77832	1757 (2.26) / 77851	2149 (2.76) / 77847	2356 (3.03) / 77783	<0.0001
Stroke	1089 (1.40) / 78050	1154 (1.48) / 77832	1129 (1.45) / 77851	1275 (1.64) / 77847	1367 (1.76) / 77783	<0.0001
BMI – mean (SD) / n	24.95 (3.89) / 77933	26.43 (4.41) / 77744	27.56 (4.63) / 77751	28.6 (4.76) / 77696	29.52 (4.60) / 77638	<0.0001
Medications – no. (%) / n						
Lipid-lowering medication	3959 (7.54) / 52496	4964 (10.45) / 47482	5660 (13.18) / 42940	6149 (16.31) / 37709	5942 (20.28) / 29303	<0.0001
Antihypertensives	5100 (9.72) / 52496	6856 (14.44) / 47482	8130 (18.93) / 42940	8784 (23.29) / 37709	8062 (27.51) / 29303	<0.0001
Insulin	492 (0.94) / 52496	237 (0.50) / 47482	237 (0.55) / 42940	281 (0.75) / 37709	329 (1.12) / 29303	<0.0001
Exogenous hormones	5690 (10.84) / 52496	4825 (10.16) / 47482	4047 (9.42) / 42940	3498 (9.28) / 37709	2628 (8.97) / 29303	<0.0001

Supplemental Table IX. Baseline characteristics of UK Biobank participants with British Caucasian genetic ancestry

stratified by quintiles of triglyceride polygenic score. Body mass index (BMI), hemoglobin A1c (HbA1c), high-density lipoprotein cholesterol (HDL-C), low-density lipoprotein cholesterol (LDL-C).

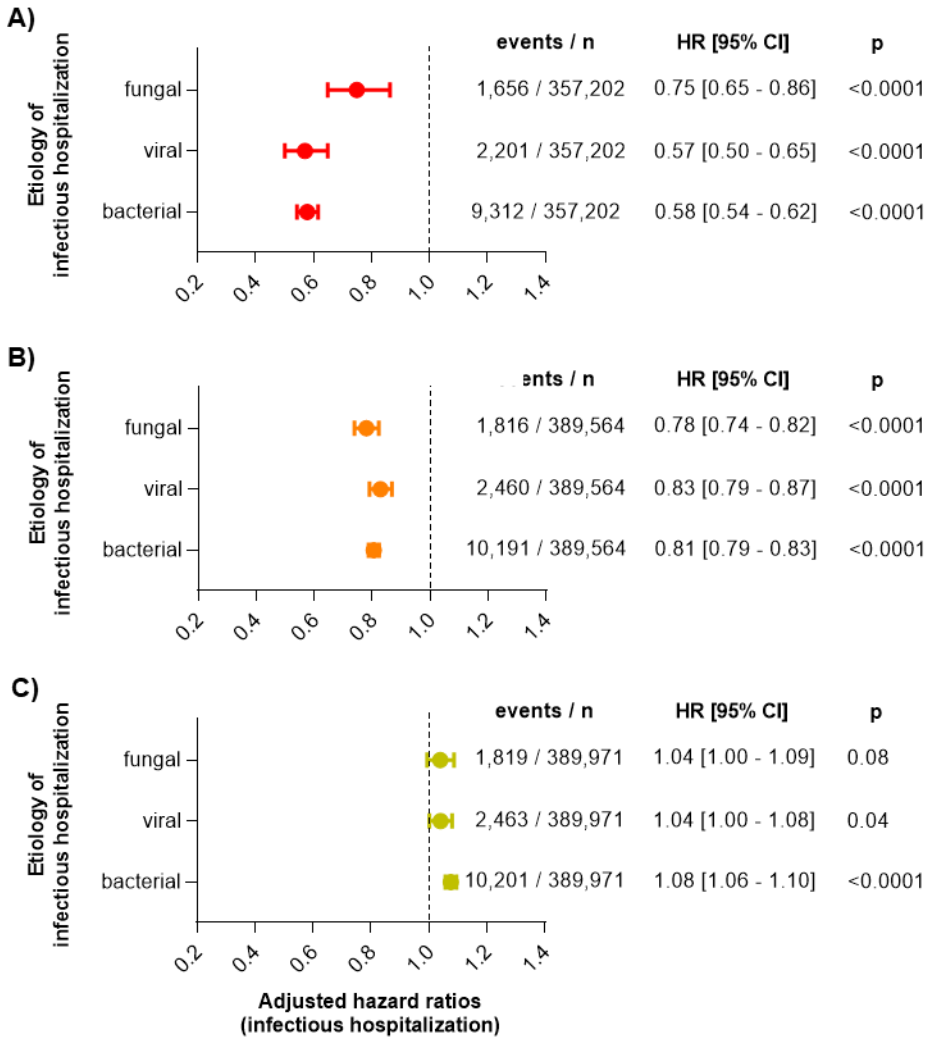
Characteristic	Quintile 1 (n=81,512)	Quintile 2 (n=81,510)	Quintile 3 (n=81,513)	Quintile 4 (n=81,511)	Quintile 5 (n=81,512)	p
Demographics						
Age - mean (SD)	56.91 (8.00)	56.92 (8.00)	56.87 (8.02)	56.94 (7.97)	56.92 (8.00)	0.66
Male sex - no. (%)	37413 (45.9)	37510 (46.02)	37477 (45.98)	37485 (45.99)	37329 (45.80)	0.90
Biochemistry – mean (SD)						
Total cholesterol (mmol/L)	5.59 (1.08) / 77695	5.68 (1.12) / 77748	5.72 (1.13) / 77781	5.76 (1.16) / 77675	5.83 (1.21) / 77701	<0.0001
Direct LDL-C (mmol/L)	3.46 (0.83) / 77551	3.54 (0.85) / 77617	3.58 (0.87) / 77662	3.61 (0.88) / 77541	3.67 (0.91) / 77517	<0.0001
Apolipoprotein B (g/L)	0.99 (0.22) / 77404	1.02 (0.23) / 77489	1.03 (0.24) / 77474	1.05 (0.24) / 77293	1.07 (0.25) / 77057	<0.0001
Triglycerides (mmol/L)	1.46 (0.78) / 77628	1.62 (0.88) / 77696	1.74 (0.97) / 77731	1.86 (1.06) / 77628	2.12 (1.25) / 77613	<0.0001
HDL-C (mmol/L)	1.52 (0.40) / 70981	1.48 (0.39) / 71103	1.45 (0.38) / 71364	1.43 (0.37) / 71056	1.38 (0.36) / 71172	<0.0001
Apolipoprotein A-I (g/L)	1.56 (0.27) / 70503	1.55 (0.27) / 70667	1.54 (0.27) / 70990	1.53 (0.27) / 70673	1.52 (0.27) / 70877	<0.0001
HbA1c (mmol/mol)	35.98 (6.41) / 77719	35.94 (6.33) / 77688	35.96 (6.70) / 77744	36.00 (6.48) / 77599	35.99 (6.56) / 77727	0.05
C-reactive protein (mg/L)	2.55 (4.32) / 77549	2.58 (4.34) / 77603	2.59 (4.35) / 77632	2.63 (4.37) / 77511	2.64 (4.46) / 77467	<0.0001
Medical History – no. (%) / n						
Diabetes mellitus	3864 (4.74) / 81332	3712 (4.55) / 81325	3894 (4.78) / 81347	4056 (4.98) / 81335	4165 (5.11) / 81328	<0.0001
Hypertension	21098 (25.92) / 81399	21446 (26.35) / 81374	21988 (27.02) / 81386	22552 (27.71) / 81380	23130 (28.42) / 81383	<0.0001
Angina	2279 (2.80) / 81399	2486 (3.06) / 81374	2648 (3.25) / 81386	2719 (3.34) / 81380	2979 (3.66) / 81383	<0.0001
Myocardial infarction	1629 (2.00) / 81399	1790 (2.20) / 81374	1904 (2.34) / 81386	2015 (2.48) / 81380	2231 (2.74) / 81383	<0.0001
Stroke	1264 (1.55) / 81399	1182 (1.45) / 81374	1265 (1.55) / 81386	1226 (1.51) / 81380	1349 (1.66) / 81383	0.02
BMI – mean (SD) / n	27.45 (4.80) / 81247	27.42 (4.74) / 81254	27.40 (4.77) / 81246	27.43 (4.75) / 81263	27.39 (4.72) / 81260	0.24
Medications – no. (%) / n						
Lipid-lowering medication	4464 (10.17) / 43892	4855 (11.09) / 43767	5509 (12.57) / 43814	6055 (13.81) / 43837	7057 (16.05) / 43976	<0.0001
Antihypertensives	7237 (16.49) / 43892	7386 (16.88) / 43767	7669 (17.5) / 43814	7990 (18.23) / 43837	8317 (18.91) / 43976	<0.0001
Insulin	355 (0.81) / 43892	325 (0.74) / 43767	306 (0.70) / 43814	338 (0.77) / 43837	352 (0.80) / 43976	0.32
Exogenous hormones	4252 (9.69) / 43892	4369 (9.98) / 43767	4303 (9.82) / 43814	4320 (9.85) / 43837	4382 (9.96) / 43976	0.59

SUPPLEMENTAL FIGURES

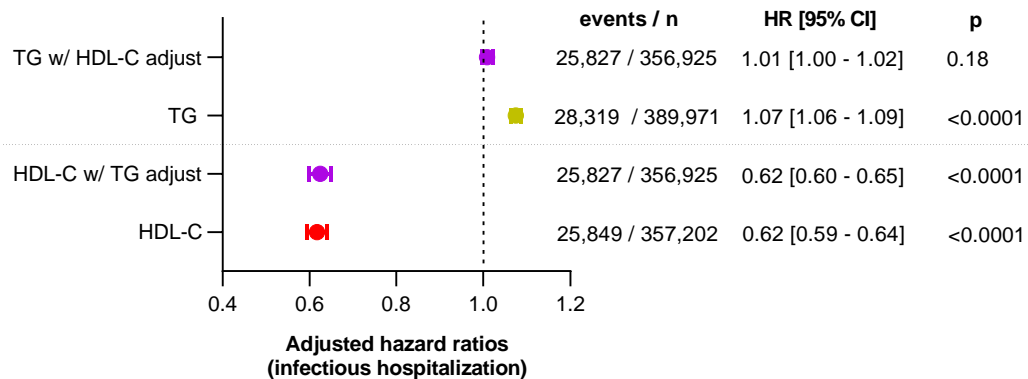


Supplemental Figure I. Elevated levels of HDL-C and LDL-C associate with reduced risk of hospitalization for infectious disease, while elevated levels of triglycerides associate with increased risk of hospitalization for infectious disease. Cox proportional-hazards models and the associated hazard ratios (HR) with 95% confidence intervals (CI) are displayed for infectious hospitalization classified by site of infection versus continuous levels of (A) HDL-C, (B) LDL-C (direct measurement), and (C) triglycerides (displayed for a 1 mmol/L increase). All

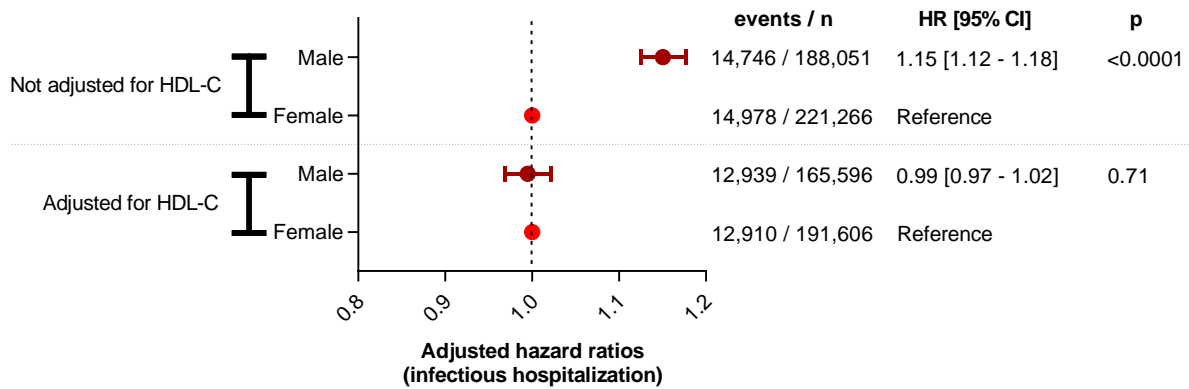
models were adjusted for age, sex, genotyping array, and first 4 principal components of genetic ancestry.



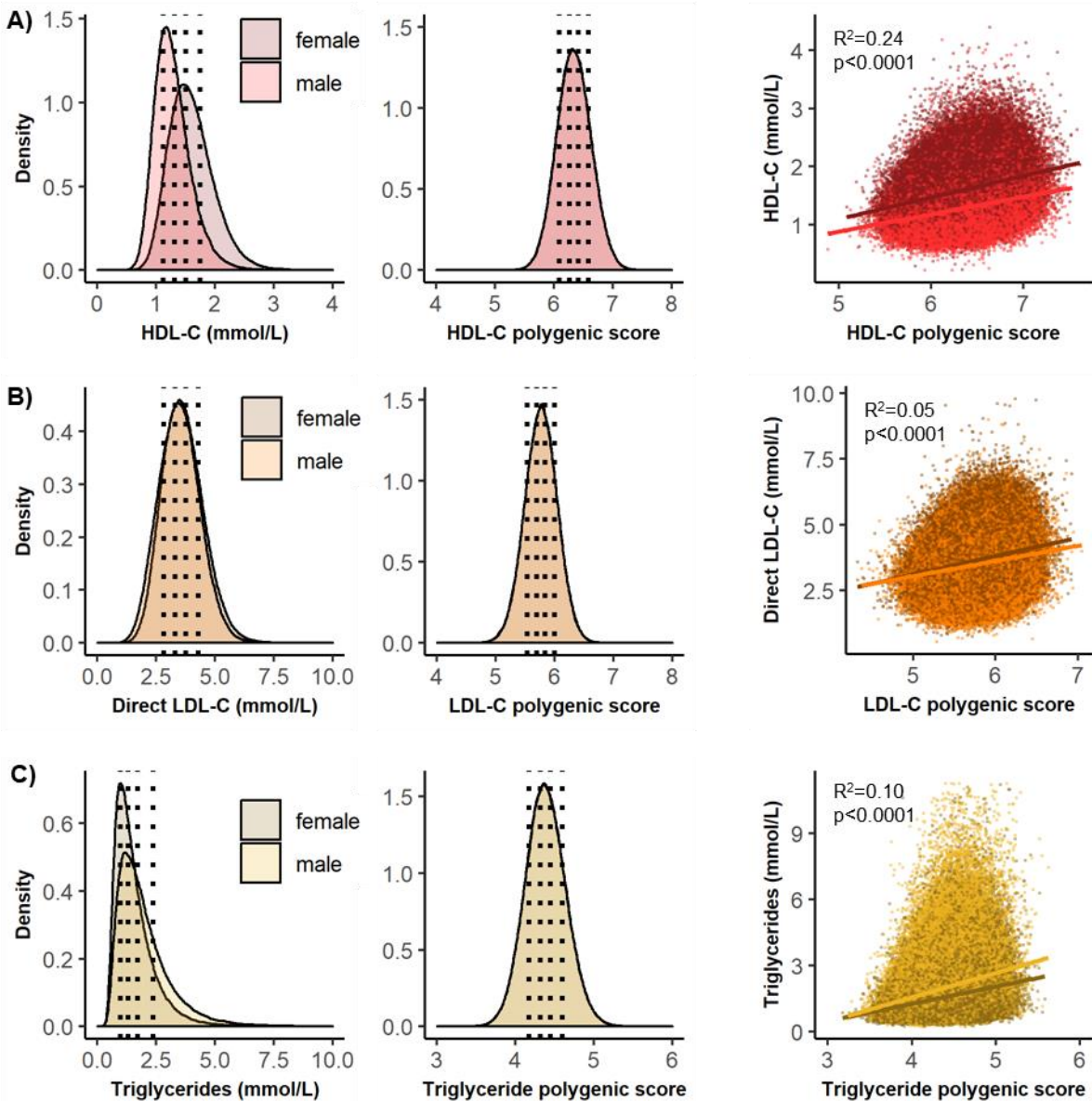
Supplemental Figure II. Elevated levels of HDL-C and LDL-C associate with reduced risk of hospitalization for infectious disease that is independent of the of suspected the microorganism. Cox proportional-hazards models and the associated hazard ratios (HR) with 95% confidence intervals (CI) are displayed for the suspected causative microorganism of infectious hospitalization versus continuous levels of (A) HDL-C, (B) LDL-C (direct measurement), and (C) triglycerides (displayed for a 1 mmol/L increase). All models were adjusted for age, sex, genotyping array, and first 4 principal components of genetic ancestry.



Supplemental Figure III. The increased risk of any infectious hospitalizations observationally associated with higher levels of triglycerides are related to low levels of HDL-C in these individuals. Cox proportional-hazards models and the associated hazard ratios (HR) with 95% confidence intervals (CI) are displayed for any infectious disease hospitalizations versus continuous levels of HDL-C and triglycerides (TG) (per 1 mmol/L increase). Hazards ratios are displayed with and without adjustments for levels of HDL-C or TG. All models were adjusted for age, genotyping array, and first 4 principal components of genetic ancestry.

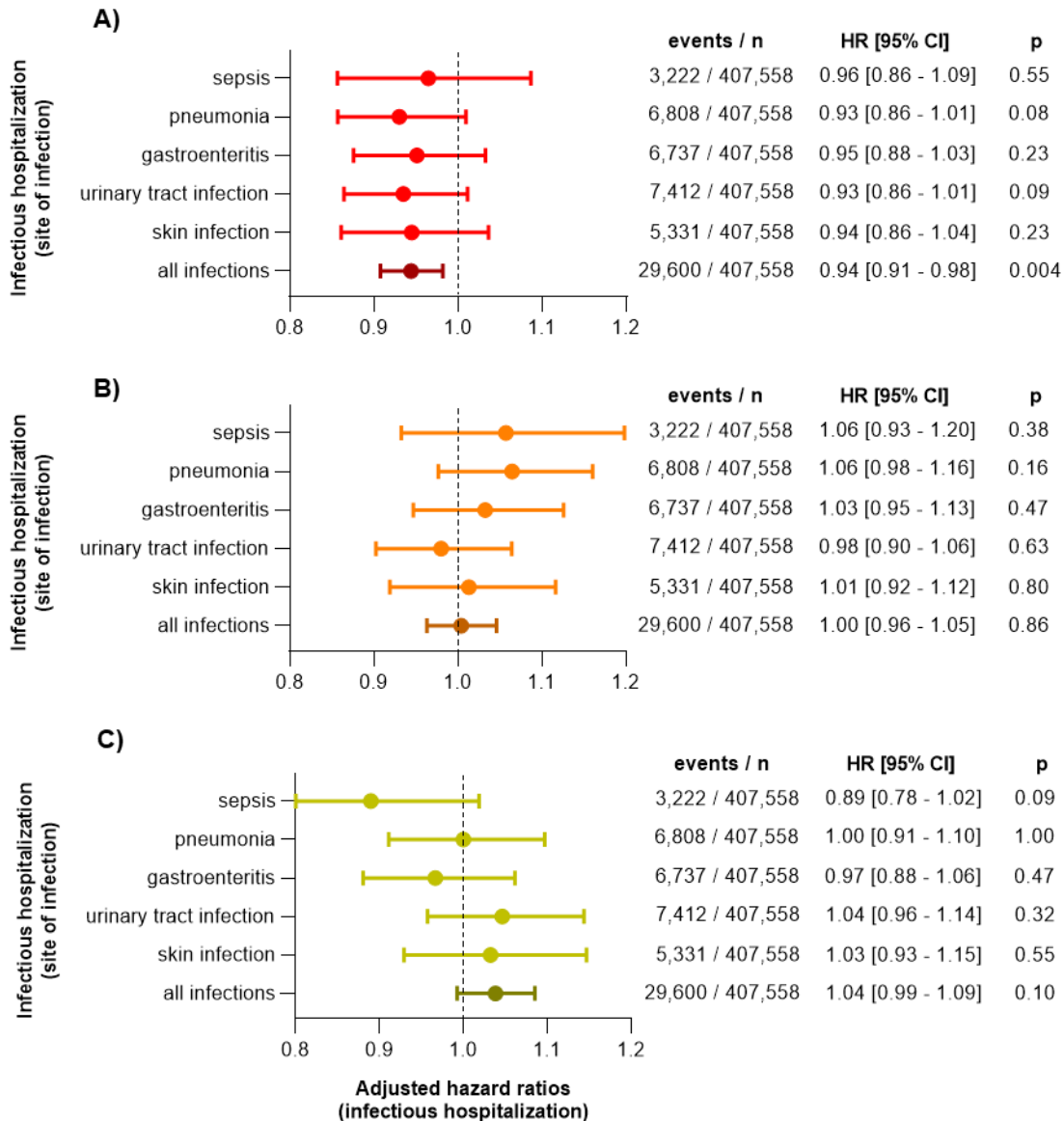


Supplemental Figure IV. The reduced risk of any infectious hospitalizations among women is associated with HDL-C levels. Cox proportional-hazards models and the associated hazard ratios (HR) with 95% confidence intervals (CI) are displayed for any infectious disease hospitalization versus sex. Hazards ratios are displayed with and without adjustments for baseline levels of HDL-C. All models were adjusted for age, genotyping array, and first 4 principal components of genetic ancestry.

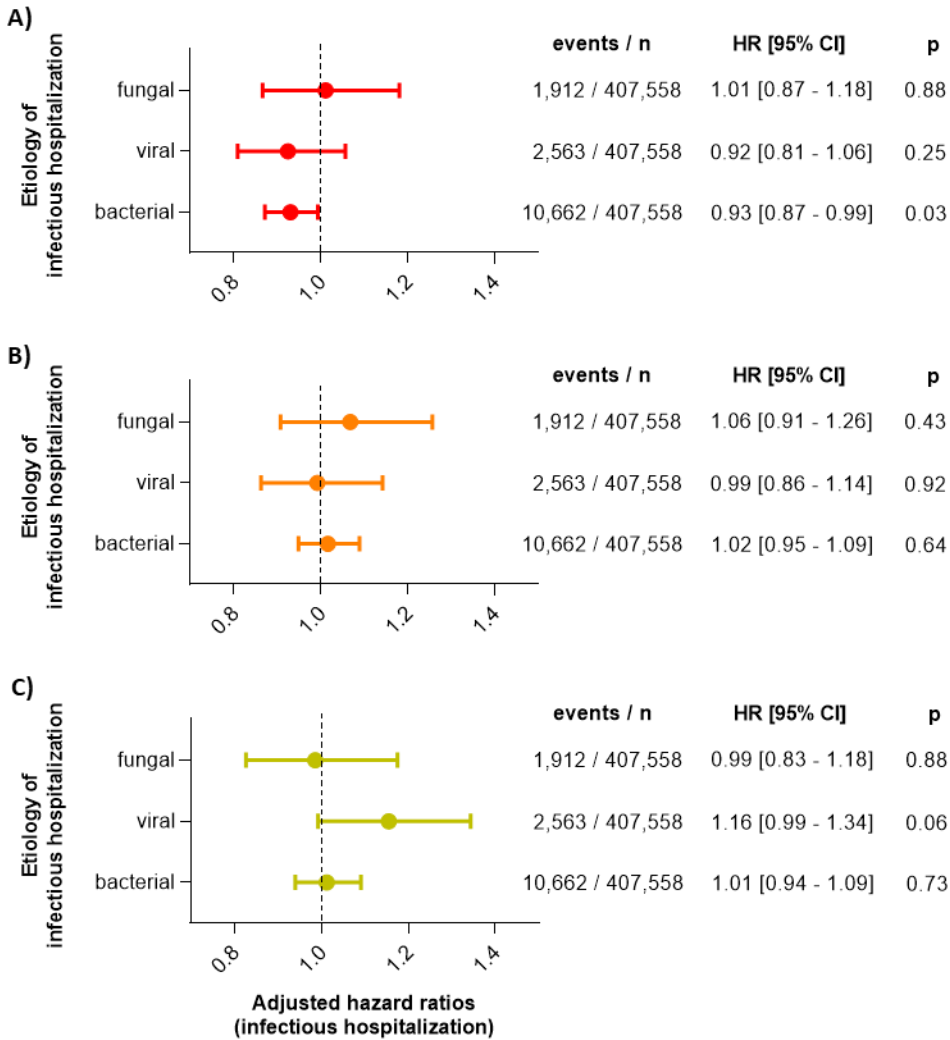


Supplemental Figure V. Lipid polygenic scores are positively associated with lipid levels.

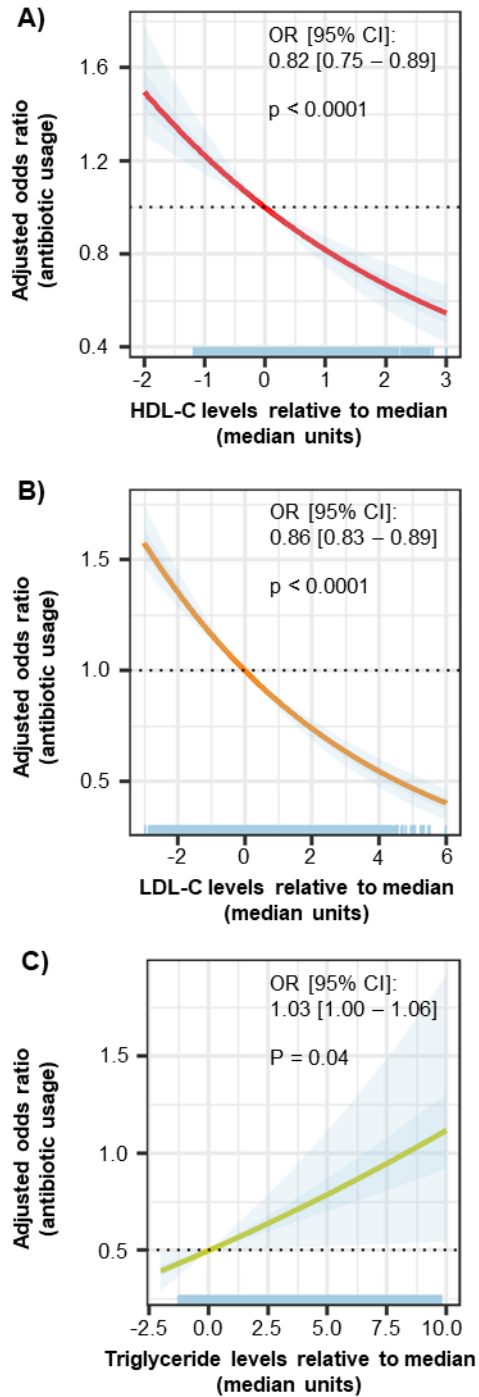
Density plots depict the distribution of lipid levels and polygenic scores stratified by sex and the linear relationship between measured lipid levels versus polygenic score (standardized effect sizes in standard deviation units) for (A) HDL-C, (B) LDL-C (direct measurement), and (C) triglycerides. Dashed vertical lines represent the division of quintiles for the study population. The linear relationship between Solid colored lines depict the linear regression line of best fit segregated by sex.



Supplemental Figure VI. Only elevated levels of HDL-C polygenic score trend toward reduced risk of hospitalization for infectious disease, which appears to be independent of site infection. Cox proportional-hazards models and the associated hazard ratios (HR) with 95% confidence intervals (CI) are displayed for any infectious hospitalization classified by site of infection versus continuous polygenic score (per standard deviation unit) for (A) HDL-C, (B) LDL-C, and (C) triglycerides. All models were adjusted for age, sex, genotyping array, and first 4 principal components of genetic ancestry.

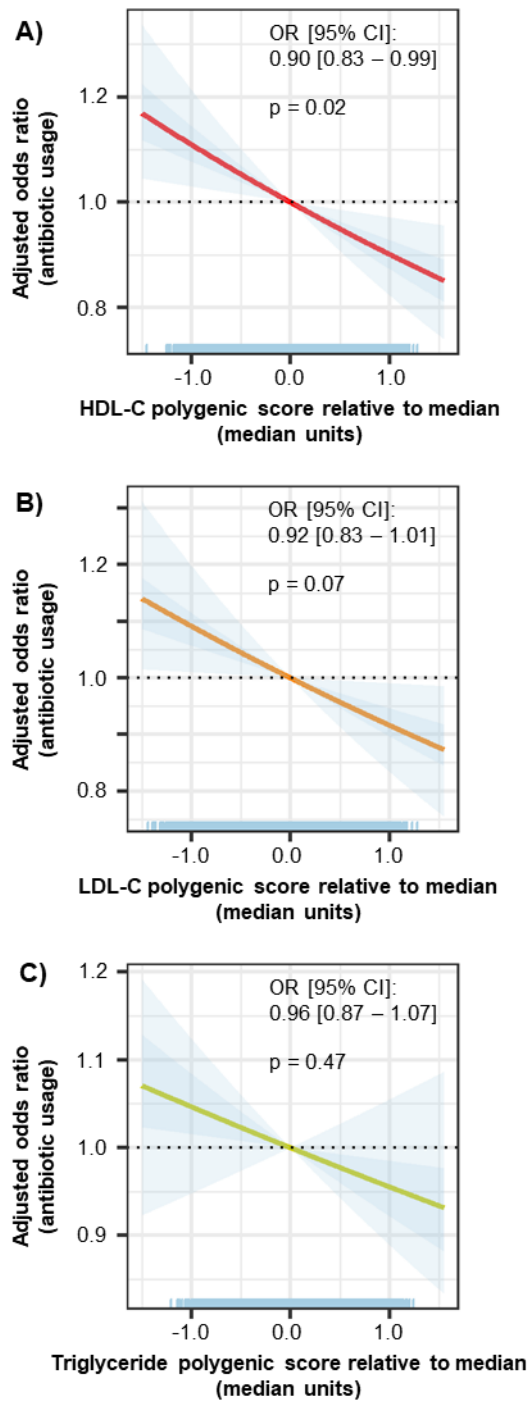


Supplemental Figure VII. Influence of lipid polygenic scores on hospitalization for infection stratified by suspected etiology of infection. Cox proportional-hazards models and the associated hazard ratios (HR) with 95% confidence intervals (CI) are displayed for the suspected causative microorganism of infectious hospitalization versus continuous polygenic scores (per a standard deviation unit) for (A) HDL-C, (B) LDL-C (direct measurement), and (C) triglyceride. All models were adjusted for age, sex, genotyping array, and first 4 principal components of genetic ancestry.



Supplemental Figure VIII. Elevated levels of HDL-C and LDL-C associate with reduced odds of antibiotic usage, while elevated levels of triglycerides associate with increased odds of antibiotic usage. Odds ratios (OR) are displayed with the 95% confidence intervals (CI; light blue) and standard error (dark blue shading) for antibiotic usage at the time of

recruitment versus units from the median value of measured levels of (A) HDL-C, (B) LDL-C (direct measurement), and (C) triglycerides. Odds ratios were determined by logistic regression adjusted for age, sex, genotyping array, and first 4 principal components of genetic ancestry.



Supplemental Figure IX. Only elevated levels of HDL-C are significantly and inversely associated with odds of antibiotic usage. Odds ratios (OR) are displayed with the 95% confidence intervals (CI; light blue) and standard error (dark blue shading) for antibiotic usage at

the time of recruitment versus units from the median value of polygenic scores for (A) HDL-C, (B) LDL-C, and (C) triglycerides. Odds ratios were determined by logistic regression adjusted for age, sex, genotyping array, and first 4 principal components of genetic ancestry.

SUPPLEMENTAL REFERENCES

1. Lu X, Peloso GM, Liu DJ, et al. Exome chip meta-analysis identifies novel loci and East Asian-specific coding variants that contribute to lipid levels and coronary artery disease. *Nat Genet.* 2017;49:1722-1730.