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Programme:	**CVD Prevention l Lipids**
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Author:	Dawn Lowe
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Purpose of this document:	This document outlines the structure of EMIS Web searches created by the Data Quality Service to support lipid optimisation for secondary prevention of cardiovascular disease (CVD). This suite of searches includes total cholesterol values where there may be local lab coding issues for LDL / Non-HDL results. Please only use this set of searches if there are coding issues.

Document Status

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CVD Prevention - Lipids Searches

Searches for the identification of high-risk people requiring lipid optimisation for secondary prevention of CVD have been developed. The searches risk-stratify patients into five cohort groups depending on intervention required and includes eligibility for injectable therapies. This is part of the Greater Manchester Integrated Care Systems CVD prevention initiative.

To support practices to identify patients who could be eligible for lipid-lowering therapies for secondary prevention of cardiovascular disease, the Data Quality Service has created a suite of searches, broken down into various cohorts. Reviewing each cohort will allow clinicians to determine whether patients require a review, or if they are eligible for injectable treatments to be administered to lower lipid levels.

The searches are named the following:

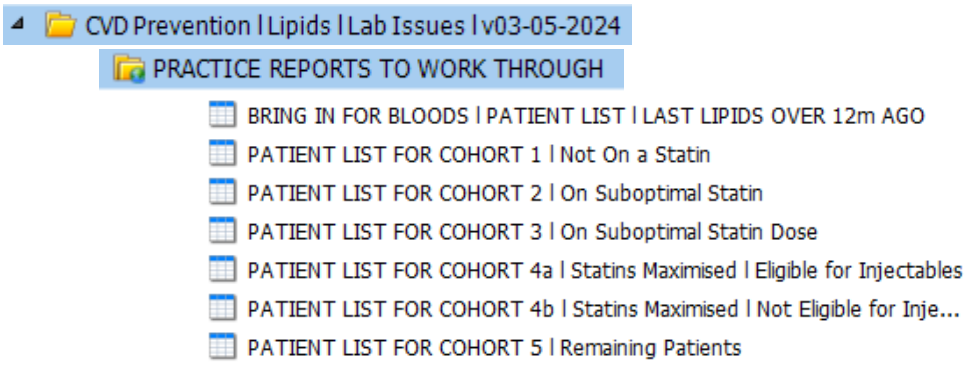
Indicator	Name	Description
CVDPL1a	Total Practice Population	Looks at all active currently registered patients.
CVDPL1b	Aged >=18y	Based on results of search CVDPL1a, this search includes patients who are aged above or equal to 18 years of age.
CVDPL2a	Pts with a Cardiovascular Event Ever	Based on results of search CVDPL1b, this search includes patients who have ever had a cardiovascular event (Stent / CHD / PAD / Stroke). **REVASCULAR_COD Cluster RefSet: 999029411000230108** **CHD_COD Cluster RefSet: 999000771000230107** **PAD_COD Cluster RefSet: 999005931000230101** **STRK_COD Cluster RefSet: 999005531000230105**
CVDPL2b	CVD Event I Exc. Familial Hypercholesterolemia	Based on results of search CVDPL2a, this search excludes patients who have a diagnosis of Familial Hypercholesterolaemia as these patients should be reviewed via another pathway. **FHYP_COD Cluster RefSet: 999006811000230109** **FHYPGEN_COD Cluster RefSet: 999017251000230106** **FAMHYPGEN_COD Cluster RefSet: 999029651000230105** **SECHYPERLIP_COD Cluster RefSet: 999029611000230106**

CVDPL2c	CVD Event l Exc. FH & Inclisiran	Based on results of search CVDPL2b, this search excludes patients who already have Inclisiran recorded in their record in the last 6 months. Inclisiran 284mg/1.5ml solution for injection pre-filled syringes Leqvio 284mg/1.5ml solution for injection pre-filled syringes (Novartis Pharmaceuticals UK Ltd)
CVDPL2d	CVD Event l Exc. FH & Inclisiran l Lipids in last 12m	Based on results of search CVDPL2c, this search includes patients where their last lipid results were recorded in the last 12 months. **LDLCCHOL_COD Cluster RefSet: 999018771000230107** **NONHDLCHOL_COD Cluster RefSet: 999017731000230106** **TCHOL_COD Cluster RefSet: 999005451000230100**
CVDPL2e	Lipids at Target in last 12m	Based on results of search CVDPL2d, this search includes patients whose lipids are at target in the last 12 months, so the practice is aware of this cohort. **LDL Value <=1.8** **Non-HDL Value <=2.5** **Total Cholesterol Value <=3.5**
CVDPL2f	CVD Event l Exc. FH & Inclisiran l Lipids at Target	Based on results of search CVDPL2d, this search excludes patients whose lipids are at target in the last 12 months to enable a final list of patients to be broken down into various cohorts.
COHORT 1	Not on a Statin	Based on results of search CVDPL2f this search excludes: - Statins issued in the last 6 months - Maximum tolerated therapy - Expiring statin contraindications - Persisting statin contraindications Atorvastatin Rosuvastatin Simvastatin Fluvastatin Pravastatin **407568002 l Patient on maximal tolerated lipid lowering therapy** **134391005 l Statin not indicated** **315363002 l Statins contraindicated** **413174003 l Statin not tolerated** **16524331000119104 l H/O rhabdomyolysis due to statin** **293432006 l Adverse reaction caused by statin** **293433001 l Adverse reaction caused by simvastatin** **293434007 l Adverse reaction caused by fluvastatin** **293435008 l Adverse reaction caused by pravastatin** **294970008 l Statin allergy** **294971007 l Simvastatin allergy** **294972000 l Fluvastatin allergy** **294973005 l Pravastatin allergy** **787206005 l Rhabdomyolysis due to statin**
COHORT 2	On Suboptimal Statin	Based on results of search CVDPL2f this search excludes: - Cohort 1 - Atorvastatin / Rosuvastatin issued in the last 6 months - Maximum tolerated therapy - Expiring statin contraindications - Persisting statin contraindications and includes: - Simvastatin / Fluvastatin / Pravastatin issued in the last 6 months
COHORT 3	On Suboptimal Statin Dose	Based on results of search CVDPL2f this search excludes: - Cohorts 1 & 2 - Maximum tolerated therapy - Expiring statin contraindications - Persisting statin contraindications - Atorvastatin (80mg) / Rosuvastatin (40mg) issued in the last 6 months
COHORT 4 Sub	Statin Optimised l Lipids >Target	Based on results of search CVDPL2f this search excludes: - Cohorts 1, 2 & 3
COHORT 4	Exc. Inclisiran Not Indicated in last 12m	Based on results of search COHORT 4 Sub this search excludes: - Patients with a code of 'Inclisiran Not Indicated' in the last 12 months as these patients have already been assessed for Inclisiran **1362041000000101 l Inclisiran not indicated**
COHORT 4a	Eligible for Injectables	Based on results of search COHORT 4 this search includes

		-Patients with a latest LDL value of >=2.6 or a latest Non-HDL value of >=3.4 or a latest Total Cholesterol value of >=4.4 so that injectables can be considered
COHORT 4b	Not Eligible for Injectables	Based on results of search COHORT 4 this search includes -Patients with a latest LDL value of <2.6 or a latest Non-HDL value of <3.4 or a latest Total Cholesterol value of <4.4 to identify those not eligible for injectables
COHORT 5	Remaining Patients	Based on results of search CVDPL2f this search excludes: - Cohorts 1, 2, 3 & 4
Opted Out	Local Shared Electronic Record	Based on results of search CVDPL2f this search includes: - Patients opted out of the Local Shared Electronic Record (for info purposes only should any searches be created on the GM Care Record) **416409005 I Refused consent for upload to local shared electronic record**
Opted Out	Summary Care Record	Based on results of search CVDPL2f this search includes: - Patients opted out of the Summary Care Record (for info purposes only should any searches be created on the GM Care Record) **889091000000102 I Dissent to share Summary Care Record** **777441000000102 I Express dissent for Summary Care Record dataset upload**
Lipids in last 12m	Inc. Total Cholesterol and Triglycerides	Based on results of search CVDPL2d this search includes: - Patients with a triglyceride result in last the 12 months **TRIGLYC_COD Cluster RefSet: 999018411000230105**
CVDPL4a	CVD Event I Exc. FH & Inclisiran I with Lipids >12m ago	Based on results of search CVDPL2c this search excludes: - Results of search CVDPL2d to identify patients where last lipids were recorded more than 12 months ago
CVDPL5a	Aged >=18y Currently Prescribed Inclisiran	Based on results of search CVDPL1b this search includes: - Inclisiran issued in the last 6 months (all patients, not just CVD)
CVDPL5b	CVD Event I Prescribed Inclisiran in last 6m	Based on results of search CVDPL2a this search includes: - Inclisiran issued in the last 6 months for patients who have had a CVD event

Practice Reports

Within the main CVD Prevention search folder there is another folder named the following:



Some patients identified into a cohort may be missing values for Non-HDLC or LDLC required to support their management and fulfil QOF requirements. These values can be calculated from the markers provided, Total Cholesterol, HDL-C and Triglycerides, using the same methodology (the Friedewald equation) as employed by most laboratories. This is as follows:

- Non-HDL-C = Total Cholesterol – HDL-C (all measurements in mmol/L)
- LDL-C = Non-HDL-C – (Triglycerides/2.2) (all measurements in mmol/L)

These calculators can also be found online: LDL Calculated - MDCalc

IMPORTANT TO NOTE: The Friedewald equation should not be used in high Triglycerides (>4.5mmol) and in this situation follow the advice as per national lipid guidance: NHS Accelerated Access Collaborative » Summary of national guidance for lipid management (england.nhs.uk)

Report Name	Action for Practice
BLOODS - PATIENT LIST - BRING IN FOR BLOODS (LAST LIPIDS OVER 12m AGO) Based on results of search CVDPL4a	Bring patient in for lipids as the last one was recorded more than 12 months ago. Once the patient has had their blood test and the result is filed, they should then appear in one of the cohorts 1-5. Lipids test criteria: **Calculated LDL:** Use either a non-fasting or fasting sample, but fasting sample is recommended if levels are within 0.2mmol/l of treatment cut off levels. **Direct LDL:** Use a non-fasting sample only, 0.2mmol/l recommendation not applicable
PATIENT LIST FOR COHORT 1 l Not on a Statin Based on results of search COHORT 1	Aim to re-initiate statin. Where clinically appropriate and acceptable to patient aim for a High intensity Statin (Atorvastatin/Rosuvastatin) at maximal dose (80mg/40mg respectively). If not possible confirm and code patient as statin intolerant or statin contraindicated.
PATIENT LIST FOR COHORT 2 l On Suboptimal Statin Based on results of search COHORT 2	Aim to switch patient to a High intensity Statin (Atorvastatin/Rosuvastatin) at maximal dose (80mg/40mg respectively) where clinically appropriate and acceptable to patient. If not possible code patient as: **407568002 l Patient on maximal tolerated lipid lowering therapy** and consider next step therapies.
PATIENT LIST FOR COHORT 3 l On Suboptimal Statin Dose Based on results of search COHORT 3	Aim to up-titrate dose of current High intensity Statin (Atorvastatin/Rosuvastatin) to maximal dose (80mg/40mg respectively) where clinically appropriate and acceptable to patient. If not possible code patient as: **407568002 l Patient on maximal tolerated lipid lowering therapy** and consider next step therapies.
PATIENT LIST FOR COHORT 4a l Statins Maximised – Eligible for Injectables Based on results of search COHORT 4	Check the patients where the LDL value is >=2.6 / Non-HDL value is >=3.4 Review eligibility for: ▪ Ezetimibe (LDL-C value equal or greater to 1.8 mmol/L) ▪ Inclisiran (LDL-C value equal or greater to 2.6 mmol/L) ▪ Referral for PCSK9-i as GM Lipid Flowchart (LDL-C >3.5/4*) *4 = High Risk CVD (single previous event) *3.5 = Very High Risk CVD (recurrent events / multiple vascular beds) If patient confirmed statin intolerance, see NHS Statin Intolerance Pathway
PATIENT LIST FOR COHORT 4b l Statins Maximised – Not Eligible for Injectables Based on results of search COHORT 4	Check the patients where the LDL value is <2.6 / Non-HDL value is <3.4 Review eligibility for: ▪ Ezetimibe (LDL-C value equal or greater to 1.8 mmol/L)
PATIENT LIST FOR COHORT 5 l Remaining Patients Based on results of search COHORT 5	This search has been created as a safety netting search should any patients appear. It is not expected that this search will produce any figures. If patients do appear in this list please email gmss.dataqualitygm@nhs.net

Data Submission

If you are required to submit any data to your locality / PCN etc. you can run the main CVD Prevention – Lipids folder. Within that folder is an Audit Report that will populate once searches have finished running:

To save this you need to **View Results**, then **Export to CSV** and save in a folder of your choice.

Queries

Should you have any queries, suggestions for improvement, or feel that patients are missing or are appearing in error, please email nhsgm.dataquality@nhs.net so we can review the relevant indicator/s.