

Programme:	CVD Prevention I Lipids
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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).

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.








Search Criteria

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:

- 0 | Produced by: nhsgm.dataquality@nhs.net
 - PRACTICE REPORTS TO WORK THROUGH
 - CVDPL1a | Total Practice Population
 - CVDPL1b | Aged >=18y
 - CVDPL2a | Pts with a Cardiovascular Event Ever
 - CVDPL2b | CVD Event | Exc. Familial Hypercholesterolemia
 - CVDPL2c | CVD Event | Exc. FH & Inclisiran
 - CVDPL2d | CVD Event | Exc. FH & Inclisiran | Lipids in las...
 - CVDPL2e | Lipids at Target in last 12m | with TC <...
 - CVDPL2f | CVD Event | Exc. FH & Inclisiran | Lipids a...
 - COHORT 1 | Not on a Statin
 - COHORT 2 | On Suboptimal Statin
 - COHORT 3 | On Suboptimal Statin Dose
 - COHORT 4 Sub | Statin Optimised | Lipids >Target
 - COHORT 4 | Exc. Inclisiran Not Indicated in L...
 - COHORT 4a | Eligible for Injectables with ...
 - COHORT 4b | Not Eligible for Injectables
 - COHORT 5 | Remaining Patients
 - Opted Out | Local Shared Electronic Record
 - Opted Out | Summary Care Record
 - Lipids in last 12m | inc. TC and Triglycerides
 - CVDPL4a | CVD Event | Exc. FH & Inclisiran | with Lipids ...
 - CVDPL5b | CVD Event | Prescribed Inclisiran in last 6m
 - CVDPL5a | Aged >=18y Currently Prescribed Inclisiran

| 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 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 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.
<input checked="" type="checkbox"/>  Inclisiran 284mg/1.5ml solution for injection pre-filled syringes
<input checked="" type="checkbox"/>  Leqvio 284mg/1.5ml solution for injection pre-filled syringes (Novartis Pharmaceuticals UK Ltd) |
| CVDPL2d | CVD Event Exc. FH & Inclisiran 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 |
| 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 |
| CVDPL2f | CVD Event Exc. FH & Inclisiran 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 Patient on maximal tolerated lipid lowering therapy
134391005 Statin not indicated
315363002 Statins contraindicated
413174003 Statin not tolerated
16524331000119104 H/O rhabdomyolysis due to statin
293432006 Adverse reaction caused by statin
293433001 Adverse reaction caused by simvastatin
293434007 Adverse reaction caused by fluvastatin
293435008 Adverse reaction caused by pravastatin
294970008 Statin allergy
294971007 Simvastatin allergy
294972000 Fluvastatin allergy
294973005 Pravastatin allergy
787206005 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 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
136204100000101 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 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 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)
88909100000102 I Dissent to share Summary Care Record
77744100000102 I Express dissent for Summary Care Record dataset upload |
| 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:

4 CVD Prevention | Lipids | GM | v03-05-2024

PRACTICE REPORTS TO WORK THROUGH

- BRING IN FOR BLOODS | PATIENT LIST | LAST LIPIDS OVER 12m AGO
- PATIENT LIST FOR COHORT 1 | Not On a Statin
- PATIENT LIST FOR COHORT 2 | On Suboptimal Statin
- PATIENT LIST FOR COHORT 3 | On Suboptimal Statin Dose
- PATIENT LIST FOR COHORT 4a | Statins Maximised | Eligible for Injectables
- PATIENT LIST FOR COHORT 4b | Statins Maximised | Not Eligible for Inje...
- PATIENT LIST FOR COHORT 5 | Remaining Patients

| 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 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 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 I Patient on maximal tolerated lipid lowering therapy and consider next step therapies. |

| | |
|---|---|
| PATIENT LIST FOR COHORT 3 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 Patient on maximal tolerated lipid lowering therapy and consider next step therapies. |
| PATIENT LIST FOR COHORT 4a 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: <ul style="list-style-type: none"> ▪ 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 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: <ul style="list-style-type: none"> ▪ Ezetimibe (LDL-C value equal or greater to 1.8 mmol/L) |
| PATIENT LIST FOR COHORT 5 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:

 [CVD Prevention | Lipids Data | Q- | 2024-2025 | v03-05-2024](#)

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.