

Programme:	CVD Prevention I Lipids
Filename:	CVD Prevention I Lipids I GM Guidance I InPS Vision
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Version:	2.0 (guide to export patient lists added)
Date Released:	24/10/2023
Purpose of this document:	This document outlines the structure of the InPS Vision Clinical Audit created by InPS on behalf of the Data Quality Service to support lipid optimisation for secondary prevention of cardiovascular disease (CVD).

Document Status

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CVD Prevention - Lipids Clinical Audit

A Clinical Audit for the identification of high-risk people requiring lipid optimisation for secondary prevention of CVD has been developed. The audit risk-stratifies 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.

Audit 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 worked with InPS to create a Clinical Audit, 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 audit is named the following:










NHS Greater Manchester Shared Service

CVD Prevention

Lipids (Inclisiran) [Version 4, 28/11/2022]

CVDPL1a: Total Practice Population
 CVDPL1b: Aged >=18y
 CVDPL2a: Pts with a Cardiovascular Event ever
 CVDPL2b: Pts with CVD Event exc. Familial Hypercholesterolaemia
 CVDPL2c: Pts with CVD Event exc. FH & Inclisiran
 CVDPL2d: Pts with CVD Event exc. FH & Inc - Lipids in last 12m
 CVDPL2e: Lipids at Target in last 12m
 CVDPL2f: Pts with CVD Event exc. FH & Inc & Lipids at Target
 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: Statin Optimised - Lipids >Target Exc. Inclisiran Not Indicated in last 12m
 COHORT 4a: Eligible for Injectables
 COHORT 4b: Not Eligible for Injectables
 COHORT 5: Remaining Patients
 CVDPL4a: Pts with CVD Event exc. FH & Inc with Lipids >12m ago
 CVDPL5b: Pts with CVD Event Prescribed Inclisiran in last 6m
 CVDPL5a: Pts Aged >=18y Currently Prescribed Inclisiran
 Opted Out Local Shared Electronic Record
 Opted Out Summary Care Record

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
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.

		  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 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 1362041000000101 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

A list of patients can be viewed in the bottom left of the screen when you click on each of the cohorts. If you want to export a list of patients please follow this guide for each cohort:



Exporting Patient Lists in INPS Vision.c

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

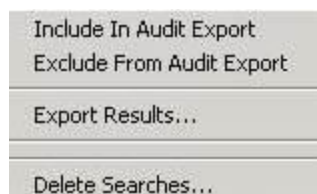
<p>PATIENT LIST FOR COHORT 4a Statins Maximised – Eligible for Injectables Based on results of search COHORT 4</p>	<p>Check the patients where the LDL value is ≥ 2.6 / Non-HDL value is ≥ 3.4</p> <p>Review eligibility for:</p> <ul style="list-style-type: none"> ▪ Ezetimibe (LDL-C value equal or greater 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 $>3.5/4^*$) <p>*4 = High Risk CVD (single previous event) *3.5 = Very High Risk CVD (recurrent events / multiple vascular beds)</p> <p>If patient confirmed statin intolerance, see NHS Statin Intolerance Pathway</p>
<p>PATIENT LIST FOR COHORT 4b Statins Maximised – Not Eligible for Injectables Based on results of search COHORT 4</p>	<p>Check the patients where the LDL value is < 2.6 / Non-HDL value is < 3.4</p> <p>Review eligibility for:</p> <ul style="list-style-type: none"> ▪ Ezetimibe (LDL-C value equal or greater to 1.8 mmol/L)
<p>PATIENT LIST FOR COHORT 5 Remaining Patients Based on results of search COHORT 5</p>	<p>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.</p> <p>If patients do appear in this list, please email: gmss.dataqualitygm@nhs.net</p>

Data Submission

If you are required to submit any data to your locality / PCN etc. you can export the results from Clinical Audit in Excel format. Please follow these steps:

- 1 Create a folder in a location of your choice to save the Excel spreadsheet
- 2 Navigate to the Clinical Audit
- 3 Right click on the CVD Prevention heading to view the following options:

CVD Prevention



- 4 Select **Export Results**
- 5 Browse to the folder you set up in step 1 to save the Excel spreadsheet and **Save**

Queries

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