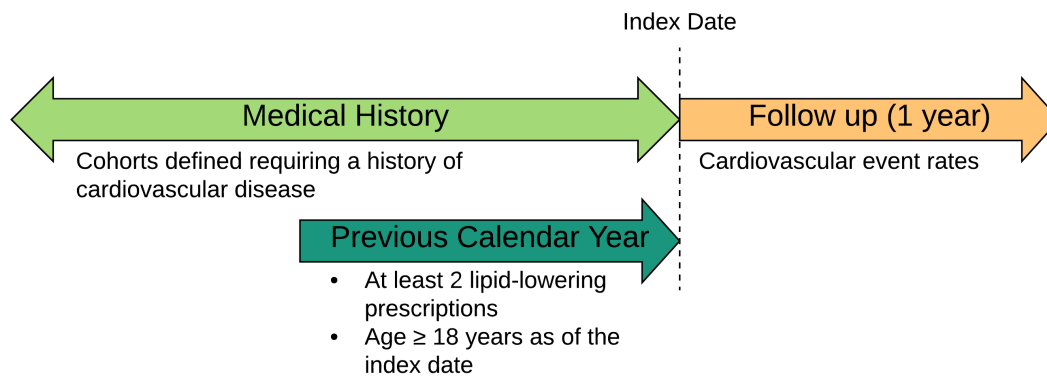


## Supplementary Materials

**Supplementary Materials for “A Longitudinal Evaluation of Treatment Patterns, Risk Factors and Outcomes in Patients with Cardiovascular Disease Treated with Lipid-Lowering Therapy in the United Kingdom”****Supplementary Figure 1:****Definition for Each Annual Cohort****Notes:**

- Index date for all cohorts is defined as of January 1 of each year from 2008 to 2017.
- Lookback periods extend into prior years.
- Lipid-lowering prescription history is based on the previous calendar year.
- Medical history is based on all previous information.
- Follow-up is 1 year for CV event rates.

## Supplementary Materials

Supplementary Table 1: Cohort Attrition

Processing Step	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
<b>Total Patients</b>	1,628,239	1,628,239	1,628,239	1,628,239	1,628,239	1,628,239	1,628,239	1,628,239	1,628,239	1,628,239
<b>Available on January 1</b>	1,050,490	1,037,918	1,021,587	990,511	954,263	919,929	849,966	752,156	610,655	502,000
<b>Met Age Inclusion (≥ 18 years)</b>	1,049,660	1,037,195	1,020,955	989,960	953,787	919,504	849,594	751,845	610,404	501,797
<b>Received Lipid Lowering Therapy (≥ 2 prescriptions)</b>	553,934	586,563	613,583	613,919	603,078	604,187	575,218	517,589	422,424	353,568
<b>History of Documented CVD (Final Cohort)</b>	173,424	177,577	179,137	176,677	172,505	170,501	160,634	142,193	114,452	94,418

Note that “Total Patients” is not the count of patients in the complete CPRD database. It represents the patients available after extracting potentially eligible patients from the complete CPRD database.

## Supplementary Materials

Supplementary Table 2: Baseline Demographic and Clinical Characteristics of the 2008 through 2017 Documented CVD Cohorts

Variable	2008 (n = 173,424)	2009 (n = 177,577)	2010 (n = 179,137)	2011 (n = 176,677)	2012 (n = 172,505)	2013 (n = 170,501)	2014 (n = 160,634)	2015 (n = 142,193)	2016 (n = 114,452)	2017 (n = 94,418)
Age (years)	71.6 (10.7)	71.9 (10.8)	72.2 (10.9)	72.3 (10.9)	72.5 (11.0)	72.6 (11.0)	72.8 (11.0)	72.8 (11.1)	72.8 (11.1)	72.5 (11.1)
Male (%)	59.9%	60.5%	60.8%	61.1%	61.4%	61.9%	62.2%	62.5%	62.8%	63.1%
Body Mass Index (kg/m <sup>2</sup> )	28.1 (5.0)	28.2 (5.1)	28.3 (5.1)	28.4 (5.2)	28.5 (5.2)	28.5 (5.3)	28.5 (5.3)	28.6 (5.3)	28.7 (5.4)	28.8 (5.4)
Smoking	15.1%	15.0%	14.9%	15.2%	15.0%	15.1%	15.1%	14.3%	14.1%	13.9%
Type 2 Diabetes	18.4%	19.0%	19.5%	20.2%	20.6%	21.0%	21.4%	21.4%	21.9%	22.4%
Chronic Kidney Disease Stage 3-5	22.4%	24.1%	24.9%	25.1%	24.9%	24.7%	24.6%	23.9%	23.6%	22.8%
Hypertension	95.3%	92.2%	95.0%	94.9%	94.7%	94.8%	94.7%	94.4%	94.3%	94.0%
Myocardial Infarction (MI)	22.5%	22.9%	23.4%	23.9%	24.5%	25.1%	25.4%	25.8%	26.6%	27.4%

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<b>Ischemic Stroke (IS)</b>	5.5%	5.8%	6.2%	6.6%	7.0%	7.2%	7.3%	7.4%	7.6%	7.9%
<b>Total Cholesterol (mmol/L)</b>	4.2 (0.9)	4.2 (0.9)	4.2 (0.9)	4.2 (0.9)	4.2 (0.9)	4.2 (0.9)	4.2 (0.9)	4.1 (0.9)	4.1 (0.9)	4.1 (1.0)
<b>LDL Cholesterol (mmol/L)</b>	2.2 (0.8)	2.2 (0.8)	2.2 (0.8)	2.2 (0.8)	2.2 (0.8)	2.2 (0.8)	2.1 (0.8)	2.1 (0.8)	2.1 (0.8)	2.1 (0.8)
<b>HDL Cholesterol (mmol/L)</b>	1.3 (0.4)	1.3 (0.4)	1.3 (0.4)	1.3 (0.4)	1.3 (0.4)	1.3 (0.4)	1.3 (0.4)	1.3 (0.4)	1.3 (0.4)	1.3 (0.4)

## Supplementary Materials

Supplementary Table 3: Baseline Demographic and Clinical Characteristics of the 2008 through 2017 MI Subset

Variable	2008 (n = 38,999)	2009 (n = 40,624)	2010 (n = 41,895)	2011 (n = 42,239)	2012 (n = 42,277)	2013 (n = 42,744)	2014 (n = 40,764)	2015 (n = 36,697)	2016 (n = 30,421)	2017 (n = 25,900)
Age (years)	70.1 (11.7)	70.3 (11.8)	70.5 (11.9)	70.6 (11.9)	70.7 (12.0)	70.8 (12.0)	70.8 (11.9)	70.9 (11.9)	70.7 (11.9)	70.4 (11.7)
Male (%)	68.7%	69.2%	69.3%	69.6%	69.8%	70.2%	70.5%	70.7%	71.1%	70.9%
Body Mass Index (kg/m <sup>2</sup> )	28.0 (4.9)	28.1 (4.9)	28.2 (5.0)	28.3 (5.0)	28.4 (5.1)	28.5 (5.2)	28.6 (5.2)	28.6 (5.2)	28.7 (5.3)	28.9 (5.4)
Smoking	16.5%	16.6%	16.6%	16.9%	16.7%	16.6%	16.7%	16.0%	15.5%	15.2%
Type 2 Diabetes	17.7%	18.3%	18.6%	19.2%	19.7%	20.1%	20.8%	21.1%	21.4%	21.9%
Chronic Kidney Disease Stage 3-5	23.3%	24.5%	25.4%	25.3%	25.1%	24.7%	24.4%	23.6%	23.1%	22.1%
Hypertension	98.2%	98.1%	98.1%	98.3%	98.3%	98.3%	98.2%	98.3%	98.2%	98.1%
Myocardial Infarction (MI)	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
Ischemic Stroke (IS)	1.7%	1.8%	1.9%	2.0%	2.1%	2.2%	2.2%	2.2%	2.2%	2.2%

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<b>Total Cholesterol (mmol/L)</b>	4.1 (0.9)	4.1 (0.9)	4.1 (0.9)	4.1 (0.9)	4.1 (0.9)	4.1 (0.9)	4.0 (0.9)	4.0 (0.9)	4.0 (0.9)	4.0 (1.0)
<b>LDL Cholesterol (mmol/L)</b>	2.1 (0.7)	2.1 (0.7)	2.1 (0.7)	2.1 (0.7)	2.1 (0.8)	2.1 (0.8)	2.1 (0.7)	2.0 (0.8)	2.0 (0.8)	2.0 (0.8)
<b>HDL Cholesterol (mmol/L)</b>	1.3 (0.4)	1.2 (0.4)	1.2 (0.4)	1.2 (0.4)	1.3 (0.4)	1.3 (0.4)	1.3 (0.4)	1.3 (0.4)	1.2 (0.4)	1.2 (0.4)