

# RINITY

# Assessment of Unmet Clinical Needs and Healthcare Resource Use Among Statin-Treated Patients with or at Risk of Developing ASCVD

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## INTRODUCTION

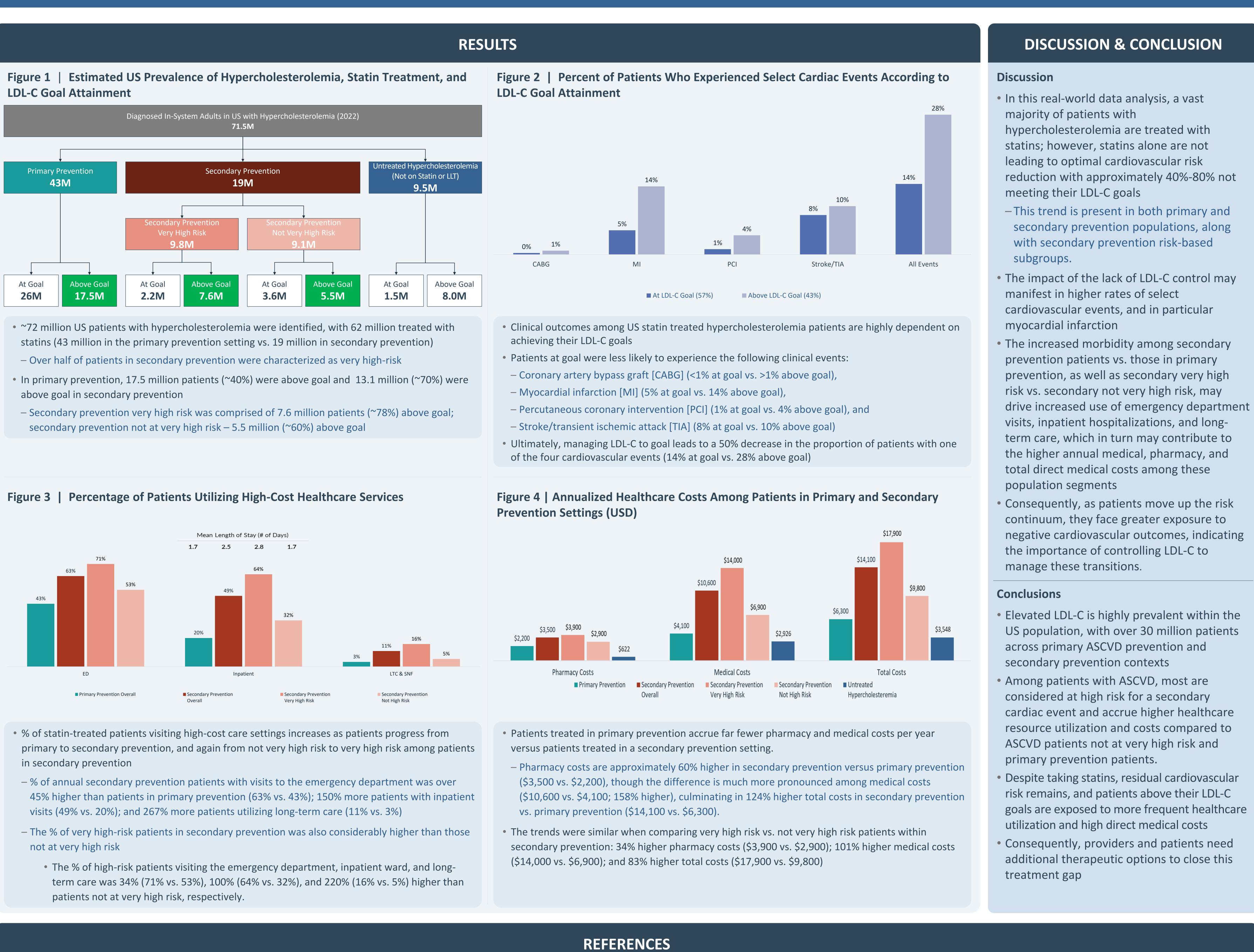
- Hypercholesterolemia is a cardiovascular condition that is characterized by high blood levels of low-density lipoprotein cholesterol (LDL-C)<sup>1,2</sup>
- Atherosclerotic cardiovascular disease (ASCVD) is a consequence of persistently high LDL-C, and is common in the US population, and especially in adults > 60 years<sup>1,2</sup>
- ASCVD risk factors include, hypercholesterolemia, metabolic syndrome, chronic kidney disease, and inflammatory conditions, along with certain races/ ethnicities<sup>3</sup>
- Statins are recommended as 1st line treatment for patients failing to control LDL-C, both in a primary prevention setting and secondary prevention setting<sup>1,2,4</sup>
- Many patients struggle to reach LDL-C goals despite use of statins, and this residual cardiovascular risk potentially leads to poorer clinical and economic outcomes
- No comprehensive study of the extent of LDL-C goal attainment in the statin-treated US population with hypercholesterolemia has been conducted
- In particular, stratification of LDL-C goal attainment by primary and secondary prevention settings is an important evidence gap
- Finally, the clinical impact of LDL-C goal attainment among statin-treated patients with hypercholesterolemia has not been established with large-scale real-world US data

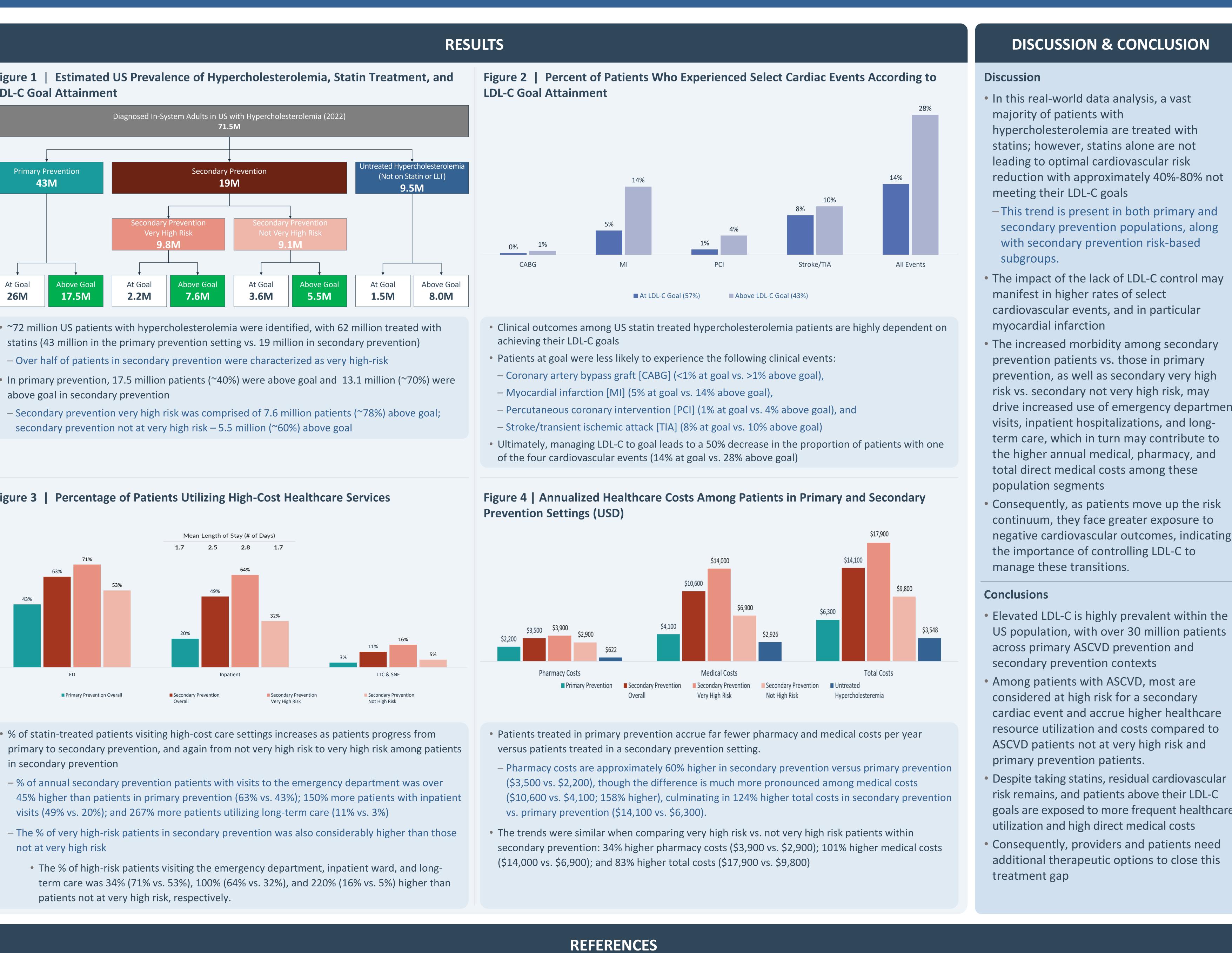
# **OBJECTIVES**

• The study objectives were to estimate the extent of LDL-C goal attainment in a representative US population, along with unmet clinical needs as a function of LDL-C goal attainment

### METHODS

- This retrospective cohort study leveraged 2017-2021 Merative MarketScan claims linked to laboratory data
- Two high-level cohorts were evaluated patients aged 18 years or older in primary and secondary prevention settings with continuous enrollment during a 1-year washout period and 2 years of follow-up:
- Primary Prevention: patients taking statins identified from January 1st, 2018 through December 31st, 2019
- Secondary Prevention: patients taking statins and had at least 1 inpatient or 2 outpatient claims of ASCVD (at least 30 days apart) from January 1st, 2018, through December 31st, 2019
- Two subsegments of the secondary prevention cohort were also evaluated – not very high-risk and very highrisk patients (evidence of multiple major ASCVD events or 1 major ASCVD event and multiple high-risk conditions)
- The data were evaluated for:
- Prevalence of diagnosed hypercholesterolemia in the US and treated with statins in primary and secondary prevention settings, along with the proportion of these patients who meet their risk-based LDL-C goals
- Clinical implications of failure to attain LDL-C goals
- Healthcare resource and direct healthcare costs among statin-treated patients





1. Faxon DP, Fuster V, Libby P. et al. Atherosclerotic Vascular Disease Conference: Writing Group III: pathophysiology, Circulation 2004; 109:2617 2. Libby P, Ridker PM, Hansson GK. Progress and challenges translating the biology of atherosclerosis. Nature 2011; 473:317 3. 2019 ACC/AHA Guideline on the Primary Prevention of Cardiovascular Disease 4. Virani SS, Smith SC Jr, Stone NJ, Grundy SM. Secondary Prevention for Atherosclerotic Cardiovascular Disease Comparing Recent US and European Guidelines on Dyslipidemia. Circulation 2020; 141:1121-1123



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