Eligibility for alirocumab or evolocumab treatment in 1090 hypercholesterolemic patients referred to a regional cholesterol treatment center with LDL cholesterol $\geq$ 70 mg/dL despite maximal-tolerated LDL-cholesterol-lowering therapy

Background: Proprotein convertase subtilisin/kexin type 9 inhibitors, Praluent (alirocumab [ALI]) and Repatha (evolocumab [EVO]) have been approved as adjuncts to the standard-of-care maximal-tolerated dose (MTD) of low-density lipoprotein cholesterol (LDLC)-lowering therapy (LLT), statin therapy, in heterozygous (HeFH) (ALI or EVO) or homozygous (EVO) familial hypercholesterolemia, or clinical atherosclerotic cardiovascular disease (CVD) where LDLC lowering is insufficient (both). Since LDLC lowering has been revolutionized by ALI and EVO, specialty pharmaceutical pricing models will be applied to a mass market.

Methods: We applied US Food and Drug Administration (FDA) and insurance eligibility criteria for ALI and EVO to 1090 hypercholesterolemic patients serially referred over 3 years who then received $\geq$ 2 months maximal-tolerated dose of standard-of-care LDL cholesterol-lowering therapy (MTDLLT) with follow-up LDLC $\geq$ 70 mg/dL. MTDLLT did not include ALI or EVO, which had not been commercially approved before completion of this study.

Results: Of the 1090 patients, 140 (13%) had HeFH by clinical diagnostic criteria and/or CVD with LDLC $>$ 100 mg/dL despite $\geq$ 2 months on MTDLLT, meeting FDA insurance criteria for ALI or EVO therapy. Another 51 (5%) patients were statin intolerant, without HeFH or CVD.

Conclusion: If 13% of patients with HeFH-CVD and LDLC $>$ 100 mg/dL despite MTDLLT are eligible for ALI or EVO, then specialty pharmaceutical pricing models (~$14,300/year) might be used in an estimated 10 million HeFH-CVD patients. Whether the health care savings arising from the anticipated reduction of CVD events by ALI or EVO justify their costs in populations with HeFH-CVD and LDLC $>$ 100 mg/dL despite MTDLLT remains to be determined.

Keywords: proprotein convertase subtilisin/kexin type 9 inhibitors, Praluent (alirocumab), Repatha (evolocumab), hyperlipidemia, statin, PCSK9, cholesterol, heterozygous familial hypercholesterolemia, atherosclerotic cardiovascular disease

Introduction

Proprotein convertase subtilisin/kexin type 9 (PCSK9) is an enzyme expressed throughout the body,\(^1,2\) which functions to promote lipoprotein homeostasis, and has been implicated in many other disease processes.\(^1,3,4\) PCSK9 binds low-density lipoprotein (LDL) receptors, promoting LDL receptor degradation. This process prevents the receptor from returning to the cell surface, where the receptor could remove more LDL particles. However, if the PCSK9 molecule is blocked, LDL receptors are
recycled, returned to the surface of cells, and remove more LDL particles from circulation. Further, PCSK9 inhibitors have been shown to reduce lipoprotein (a) [Lp(a)], which has been associated independently with cardiovascular risk.\(^3\)\(^-\)\(^7\) PCSK9 inhibition has shown great promise to lower LDL concentrations and decrease cardiovascular risk.\(^8\)\(^,\)\(^9\)

The newly approved PCSK9 inhibitors, alirocumab (ALI) and evolocumab (EVO), are the most powerful agents currently available for lowering low-density lipoprotein cholesterol (LDLc).\(^10\)\(^-\)\(^17\) EVO facilitates regression of coronary atherosclerotic plaque, as shown by the GLAGOV Trial.\(^16\)\(^,\)\(^18\) ALI or EVO is approved for patients with heterozygous familial hypercholesterolemia (HeFH), EVO for homozygous familial hypercholesterolemia, and both for patients with atherosclerotic cardiovascular disease (CVD) unable to achieve LDLc goals despite maximal-tolerated standard-of-care dose (MTD) LDL cholesterol-lowering therapy (LLT), specifically statins, including zero-dose tolerance (statin intolerance).\(^13\)\(^,\)\(^15\)\(^,\)\(^19\) Preliminary results of safety- and efficacy-controlled clinical trials, although not powered or designed to definitively assess CVD events, revealed a 50% risk reduction in CVD events.\(^13\)\(^-\)\(^15\) Building on this preliminary data, Sabatine et al documented a 15% reduction of CVD events.\(^20\)

Priced as a specialty drug for a common disease, insurance companies have implemented prior authorizations to limit use to high-risk patients who meet approved specifications. The process of obtaining prior authorization is arduous, requiring significant amount of uncompensated time and effort. This process requires an estimated 4–6 hours per patient to navigate the prior authorization system.\(^21\) In our center the prior authorization process takes ~6 hours of uncompensated staff time per patient. Despite this considerable amount of work, access to valuable PCSK9 inhibitors is still denied at times. The insurance-imposed barrier requires a streamlined process of appropriate selection and documentation to ensure medication approval without significant amounts of patient, staff, and clinician frustration. To meet this need, frameworks have been developed to identify appropriate patients for PCSK9 inhibitor therapy. Saeed et al have published an algorithm to specifically identify eligible patients and facilitate the prior authorization process for PCSK9 inhibitors.\(^21\)

If the annual cost of the ALI or EVO were to remain ~$14,000–14,600 per patient, then specialty pharmaceutical pricing models previously reserved for drugs that benefited limited patient populations will collide with prospective treatment cohorts in the tens of millions of patients with HeFH and/or CVD, or at high risk for CVD, optimally treated with ALI or EVO.\(^13\)\(^-\)\(^15\)\(^,\)\(^22\)\(^-\)\(^24\) We have previously applied US Food and Drug Administration (FDA)-approved and commercial insurance eligibility criteria for PCSK9 inhibitor use in 734 patients serially referred to our cholesterol center and receiving ≥2 months maximal-tolerated dose of standard-of-care LDL cholesterol-lowering therapy (MTDLLT) with follow-up LDLc ≥70 mg/dL.\(^22\) We reported that 30% of these 734 hypercholesterolemic patients had clinically defined HeFH and/or CVD and retained LDLc >100 mg/dL despite MTDLLT,\(^22\) thus meeting FDA and commercial insurance eligibility for ALI or EVO treatment using LDLc goal-based guidelines.\(^25\)\(^,\)\(^26\) From our initial assessment,\(^22\) we speculated that ALI or EVO might be given to an estimated 13–23 million patients, costing $185–342 billion/year, but with an estimated 50% reduction in CVD events,\(^13\)\(^,\)\(^15\) resulting in $245 billion/year in savings to society, between the ALI or EVO costs of $185–342 billion.\(^22\) Using a simulation model of US adults aged 35–94 years, Kazi et al concluded that “PCSK9 inhibitor use in all eligible patients was estimated to reduce cardiovascular care costs by $29 billion over 5 years, but drug costs increased by $592 billion (a 38% increase over 2015 prescription drug expenditures)”.\(^27\)

In a new, previously unstudied group of 1090 hypercholesterolemic patients serially referred over 3 years for diagnosis and treatment of high LDLc, who then received ≥2 months MTDLLT, but maintained LDLc ≥70 mg/dL, our specific aim was to apply FDA and insurance eligibility criteria for ALI and EVO, and estimate costs of therapy and costs to society.

Materials and methods

The study followed a protocol (12-03) approved by the Jewish Hospital Institutional Review board, with signed informed consent.

We assessed 1090 previously unstudied and unreported hypercholesterolemic patients serially referred to our Cholesterol Center over 3 years up to June 2016, who subsequently received ≥2 months of MTDLLT, with last follow-up LDLc ≥70 mg/dL. All patients were instructed in a cholesterol-lowering diet by a registered dietitian, and received MTDLLT, predominantly with statins; a small percentage took ezetimibe and/or colesevelam, either with or without statins. None of these patients received PCSK9 inhibitors ALI or EVO because they received MTDLLT before commercial release of ALI or EVO.

After an overnight fast, lipids and lipoprotein cholesterol were serially measured by LabCorp with direct measurement of LDLc if triglycerides were >400 mg/dL. Some but not all patients had initial measurement of Lp(a). HeFH was defined
by LDL cholesterol ≥190 mg/dL and the presence of tendon xanthomas and/or by hypercholesterolemic first-degree relatives (Simon Broome criteria28). CVD included documented coronary, carotid, aortic, or peripheral artery atherosclerosis, as well as transient ischemic attack and ischemic stroke. While statin intolerance is a controversial issue and appropriate documentation of statin intolerance is difficult,29 we accepted patients intolerant to ≥3 statin medications because of development of myalgia–myositis within 2 weeks after initiation of statin therapy as “statin intolerant.”

**Statistical methods**

Data were processed using SAS version 9.4. Comparisons of entry LDL cholesterol and levels after 2 months on MTDLLT were made with paired Wilcoxon nonparametric tests.

**Results**

The 1090 hypercholesterolemic patients had LDL cholesterol ≥70 mg/dL despite ≥2 months MTDLLT. Mean±SD and median LDL cholesterol of the 1090 patients were 121±42 and 113 mg/dL at study entry, and 101±29, 94 mg/dL after ≥2 months on MTDLLT. Of the 1090 patients, 138 (13%) had HeFH by clinical diagnosis, 245 (22%) had CVD, and 96 (9%) were statin intolerant (Figure 1). Of the 245 patients who had CVD, their first CVD event was at age 62±13, median 63 years. After ≥2 months on MTDLLT, mean±SD and median LDL cholesterol in patients with HeFH were 126±45 and 121 mg/dL, 94±24 and 86 mg/dL in those with CVD events, and 118±42 and 111 mg/dL in statin-intolerant patients (Figure 1).

Of the 1090 patients, 353 (32%) had HeFH and/or a CVD event (Figure 1). Mean±SD and median LDL cholesterol at entry in these 353 patients were 137±53 mg/dL and 127 mg/dL, and after 2 months of MTDLLT, had fallen to 105±36 and 93 mg/dL, p<0.0001. Of these 353 patients, 213 (60%) had LDL cholesterol ≤100 mg/dL on MTDLLT, while 140 (13%) of the original 1090 patients had LDL cholesterol >100 mg/dL on MTDLLT (Figure 1). Mean±SD Lp(a) for these 353 patients was 40±48, median 21 mg/dL. Patients with elevated Lp(a), defined as ≥35 mg/dL, comprised 37% of this population (Table 1).

**Figure 1**

HeFH and atherosclerotic CVD in 1090 patients with LDL cholesterol ≥70 mg/dL after ≥2 months maximal-tolerated cholesterol-lowering therapy.

**Notes:** One hundred forty patients with HeFH and/or CVD (13% of the referred cohort) eligible for PCSK9 inhibitor therapy by US Food and Drug Administration and commercial insurance guidelines by virtue of LDL cholesterol on maximal-tolerated therapy >100 (dosage was MTDLLT, which included zero dose statin for those with statin intolerance).

**Abbreviations:** CVD, cardiovascular disease; HeFH, heterozygous familial hypercholesterolemia; LDL, low-density lipoprotein cholesterol; MTDLLT, maximal-tolerated dose of standard-of-care LDL cholesterol-lowering therapy; PCSK9, proprotein convertase subtilisin/kexin type 9.
In the 353 patient population, 140 patients were eligible by both FDA and commercial insurance criteria for ALI or EVO treatment, by virtue of having HeFH and/or CVD (Figure 1). Within these 140 patients, 116 (83%) were taking statins, and 24 (17%) were unable to take any statins, being intolerant to ≥3 different statins (Figure 1). In these 140 patients, median LDL-C at entry was 147 mg/dL, and at 2 months on MTDLT, 132 mg/dL, p = 0.002 (Table 1). Mean±SD Lp(a) for this group (n=84) was 40±48, median 23 mg/dL. Lp(a) ≥35 mg/dL was found in 37% of these patients (Table 1). In the 213 patients whose follow-up LDL-C on MTDLT was ≤100 mg/dL (Figure 1; Table 1), mean±SD and median initial LDL-C was 126±50 and 113 mg/dL. On follow-up these values decreased to 83±9 and 82 mg/dL, respectively, p<0.0001 (Table 1).

In the full cohort of 1090 patients, statin intolerance was present in 96 (9%) patients, and in those with neither HeFH nor CVD, in 51 (5%) (Figure 1).

Of the 140 patients having HeFH and/or a CVD event with LDL-C >100 mg/dL on MTDLT (Figure 1), 72 had HeFH alone, with LDL-C on therapy 150±44, median 144 mg/dL, 52 had CVD events alone, with LDL-C on therapy 121±19, median 113 mg/dL, and 16 had both HeFH and CVD, with LDL-C on therapy 140±24, median 139 mg/dL. In the 68 patients with CVD, the first CVD event occurred at age 61±12, median 60 years.

### Discussion

ALI and EVO are the most powerful agents currently available for lowering LDL-C.10,12–16 Further studies have shown that the drugs are also able to decrease Lp(a),6,7 a molecule implicated to work synergistically with LDL-C to cause CVD events.30–33 PCSK9 inhibitors were previously thought to decrease CVD events by 50%.13–15,24; more recent outcomes data have shown a 15%–20% reduction.24 Priced as a specialty drug for a common disease, $14,000–14,600 per patient annually, the cost of the drug class has been highly controversial as the treatment cohort may reach in the tens of millions of patients, thereby significantly increasing the cost of cardiovascular care.

Our current analysis is focused on those high-risk patients for whom ALI or EVO is specifically indicated,13–15 restricted by medical insurance carriers, as an adjunct to MTDLT in adults with HeFH or CVD who require additional lowering of LDL-C. The population cost of ALI or EVO therapy largely depends on the number of subjects judged to be at high risk by virtue of HeFH with high LDL-C,34–36 and/or by CVD with LDL-C above target goals,25 despite MTDLT. At the bottom end of the number of patients with HeFH eligible for ALI or EVO, genetic testing within a single US health care system provided an estimated prevalence of HeFH of 0.39% in unselected patients, and 0.84% in those recruited from the cardiac catheterization laboratory.37 Highlighting the undertreatment of HeFH variant carriers,38 only 46% of HeFH carriers had LDL-C on statin therapy <100 mg/dL,37 the on-therapy cutpoint used in our current study to identify candidates with HeFH and/or CVD for ALI or EVO treatment. Retrospectively applying clinical criteria for diagnosis of HeFH to the same cohort, probable HeFH was diagnosed in 24% of familial hypercholesterolemic variant carriers.37 Large-scale, whole-exome sequencing studies suggest that HeFH has a prevalence of ~1 in 217 (0.46%) northern European individuals.39 At the upper end of the number of patients with HeFH eligible for ALI or EVO, in 313 patients with severe hypercholesterolemia (LDL-C >194 mg/dL), Wang et al40 reported that 47.3% had monogenic familial

### Table 1 LDLC in 353 patients with HeFH and/or CVD at entry and after 2 months on maximal-tolerated LDL-C-lowering therapy

<table>
<thead>
<tr>
<th>Group</th>
<th>Mean±SD</th>
<th>25th percentile</th>
<th>50th percentile</th>
<th>75th percentile</th>
<th>n (%) of LDL-C &gt;100 mg/dL</th>
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<tr>
<td>HeFH and/or CVD, n=353</td>
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<tr>
<td>Initial LDL-C (mg/dL)</td>
<td>137±53</td>
<td>94</td>
<td>127</td>
<td>171</td>
<td>246 (70%)</td>
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<td>Last follow-up LDL-C</td>
<td>105±36</td>
<td>79</td>
<td>93</td>
<td>121</td>
<td>140 (40%)</td>
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<td>Lp(a) (mg/dL), n=210</td>
<td>40±48</td>
<td>7</td>
<td>21</td>
<td>56</td>
<td>128 (63%) &lt;35 mg/dL; 74 (37%) ≥35</td>
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<td>Initial LDL-C (mg/dL)</td>
<td>126±50</td>
<td>87</td>
<td>113</td>
<td>159</td>
<td>134 (63%)</td>
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<tr>
<td>Last follow-up LDL-C</td>
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<td>75</td>
<td>82</td>
<td>89</td>
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<td>Lp(a) (mg/dL), n=118</td>
<td>39±49</td>
<td>9</td>
<td>19</td>
<td>52</td>
<td>75 (64%) &lt;35 mg/dL; 43 (36%) ≥35</td>
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<td>HeFH and/or CVD, and follow-up LDL-C &gt;100, n=140</td>
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<tr>
<td>Initial LDL-C (mg/dL)</td>
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<td>147</td>
<td>193</td>
<td>112 (80%)</td>
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<tr>
<td>Last follow-up LDL-C</td>
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<td>140 (100%)</td>
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<td>Lp(a) (mg/dL), n=84</td>
<td>40±48</td>
<td>7</td>
<td>23</td>
<td>59</td>
<td>53 (63%) &lt;35 mg/dL; 31 (37%) ≥35</td>
</tr>
</tbody>
</table>

Notes: Lp(a) was available for 202 patients.

Abbreviations: CVD, cardiovascular events; HeFH, heterozygous familial hypercholesterolemia; LDL-C, low-density lipoprotein cholesterol; Lp(a), lipoprotein (a).
hypercholesterolemia, 53.7% if polygenic scores were present, and 67.1% with extreme polygenic scores.

Of our 1090 patients in the current study referred for diagnosis and treatment of hypercholesterolemia, 140 (13%) were eligible for ALI or EVO treatment by virtue of HeFH and/or CVD events and LDLC >100 mg/dL after 2 months of MTDLLT. In a previously reported cohort of 734 patients referred for diagnosis and treatment of hyperlipidemia,2 30% would be eligible for ALI or EVO therapy by virtue of HeFH and/or CVD and LDLC >100 mg/dL despite MTDLLT. The previously reported cohort of 734 patients had much higher LDL cholesterol after ≥2 months MTDLLT, with LDL cholesterol 25th, 50th, and 75th percentiles 89, 105, and 141, significantly higher than 80, 94, and 114 mg/dL in the current 1090 patients. The previously reported cohort2 had 48% of patients with HeFH and/or CVD compared to 32% in the current study. These differences in sequentially analyzed referral cohorts emphasize that the percentage of hypercholesterolemic patients eligible for PCSK9 inhibitor therapy depends on the severity of hypercholesterolemia40 in the referred population.

In the NHANES 2003–2006 general population data,16 27% of subjects had high LDL cholesterol. In a 1999–2010 general population survey, LDL cholesterol was ≥130 mg/dL in 28% of adults. If 21%–36.7%,35,36,41 of the general adult US population is judged to have high LDL cholesterol, then a high LDL cholesterol cohort would include an estimated 45–78 million subjects. Extrapolating from our referral cohort where 13% of hypercholesterolemic patients had HeFH and/or CVD with LDL cholesterol ≥100 mg/dL despite MTDLLT, it is possible that 5.9–10 million patients (13% of 45–78 million) might be candidates for treatment with ALI or EVO.

As for the general population, hypercholesterolemia is undertreated.19,42 Thirty-seven percent (78 million) adults (>21 years) were eligible for cholesterol-lowering medication, but of this group, only 55% were actively taking a cholesterol-lowering medication (~90% a statin drug).19

The advent of large-scale genetic identification of hypercholesterolemia, particularly in a population referred for diagnosis and therapy of hypercholesterolemia like ours22 and others,40 might increase the treatment population, particularly for HeFH, adding to our projected 10 million adults identified clinically.

Large numbers of subjects with elevated LDL cholesterol fail to achieve treatment targets,43,46 for many reasons.43,47,48 Beyond statin effects, ALI and EVO should optimize LDL cholesterol in most patients with HeFH, CVD, and statin intolerance.10,14,15,18,24,26,40 The paradigm-shifting improvement in LDL cholesterol lowering by ALI or EVO,13,15,50 however, comes at an annual price of $14,000–14,600 per patient.

Using a simulation model of US adults aged 35–94 years, Kazi et al27 concluded that “…reducing annual drug costs to <$4536 per patient or less would be needed for PCSK9 inhibitors to be cost-effective at <$100,000 per QALY.” Rather than a simulation model, our estimates of candidates for ALI or EVO are based on real-world referrals for diagnosis and therapy of hypercholesterolemia. For the 10 million eligible patients based on the characteristics of our current hypercholesterolemic referral group, at $14,000/patient, yearly costs of ALI or EVO might total $140 billion. In 2010, CVD-related direct medical costs in the US were estimated to be $273 billion, and indirect costs $172 billion, $445 billion total.51 If ALI or EVO therapy reduced CVD event rates by 15%,13,15,20,50 then using 2010 direct and indirect medical cost estimates, ~$67 billion would be saved. If using the secondary endpoint data (decrease of cardiovascular death, myocardial infarction, or stroke by 20%) reported by Sabatine et al50 then ~$89 billion would be saved. The researchers also reported an increase in the magnitude of risk reduction in both their primary endpoints and secondary endpoints – 12%–19% and 16%–25%, respectively, from the first year to the second year. If these risk reductions continue with prolonged use of PCSK9 inhibitors, we may see further cost savings. Programs targeted to prevention of CVD should provide substantial overall cost savings.52,53 Studies with statins34 have previously reported that prevention or reduction in CVD events results in overall cost savings, and it is possible that PCSK9 inhibitors could reduce CVD events a further 15%–20% beyond statin therapy.13,15,20

Estimating from our data, if CVD were reduced by 15%20 then CVD care would save $67 billion. For 10 million patients, PCSK9 inhibitors cost should be less than $6,700 per patient per year for the savings to outweigh the costs. Likewise, if CVD is reduced by 20%,20 CVD care is reduced by ~$89 billion. From our data we estimate that treating ~10 million patients, the cost of PCSK9 inhibitors should be <$8,900 per patient per year for care savings to outweigh the costs of the expensive, specialty drug.

Overall costs to society also need to include analysis of any potential adverse effects arising from ALI or EVO use. In a meta-analysis of 25 randomized controlled trials with PCSK9 inhibitors, Zhang et al40 “detected largely no significant difference in major adverse events rates between PCSK9 inhibitor therapy and placebo and no difference between different dosages of EVO.” Within this frame of reference,50 we speculate that costs to society arising from adverse effects specifically attributed to ALI or EVO may be minimal.
Strengths of our study include documentation that, of patients referred to a regional center for therapy of high LDLC, ≥70 mg/dL despite MTDLLT, 32% had HeFH and/or CVD, and 13% retained LDLC >100 mg/dL despite MTDLLT, meeting both FDA indications14 and commercial insurance coverage eligibility.

Limitations of our study include bias toward higher LDLc and CVD by virtue of referral to a regional cholesterol treatment center, which would increase the percentage of hypercholesterolemic patients with HeFH40 and/or CVD eligible for insurance coverage of ALI or EVO.

Conclusions
- Of our 1090 patients in the current study referred for diagnosis and treatment of hypercholesterolemia, 140 (13%) were eligible for ALI or EVO treatment by virtue of HeFH and/or CVD events and LDLC >100 mg/dL after 2 months of MTDLLT.
- For the 10 million eligible patients based on the characteristics of our current hypercholesterolemic referral group, at $14,000/patient, yearly costs of ALI or EVO might total $140 billion. In 2010, CVD-related direct medical costs in the United States were estimated to be $273 billion, and indirect costs $445 billion total.51 If ALI or EVO therapy reduced CVD event rates by 15%,13,15,20,50 then using 2010 direct and indirect medical cost estimates, ~$67 billion would be saved. If using the secondary endpoint data (decrease of cardiovascular death, myocardial infarction, or stroke by 20%) reported by Sabatine et al50 then ~$89 billion would be saved.
- Whether the health care savings arising from the anticipated reduction of CVD on the ALI or EVO justify the broad use of these specialty priced agents remains to be determined.

Acknowledgments
The study followed a protocol approved by the Jewish Hospital Institutional Review Board. The data sets used and analyzed during the current study are available from the corresponding author upon request (vybhav.jetty@gmail.com). Support was provided from the Lipoprotein Research Fund of the Jewish Hospital of Cincinnati.

Authors’ contribution
All authors made substantial contributions to conception and design, acquisition of data, analysis and interpretation of data. All were involved in the drafting, revising, and finalization of the article. Further, all authors agree to be accountable for the accuracy and integrity of the work.

Disclosure
The authors report no conflicts of interest in this work.

References


