



Repatha® (evolocumab) clinical trials:

CLINICAL EVIDENCE FOR INITIATING REPATHA® DURING HOSPITALIZATION FOR ACS^{1,2}

Learn more about clinical studies that examine targeting
LDL-C in the acute setting for ACS patients^{1,2}

INDICATIONS

Repatha® is indicated:

- In adults with established cardiovascular disease to reduce the risk of myocardial infarction, stroke, and coronary revascularization.
- As an adjunct to diet, alone or in combination with other low-density lipoprotein cholesterol (LDL-C)-lowering therapies, in adults with primary hyperlipidemia, including heterozygous familial hypercholesterolemia (HeFH) to reduce LDL-C.

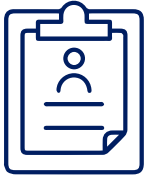
IMPORTANT SAFETY INFORMATION

Contraindication: Repatha® is contraindicated in patients with a history of a serious hypersensitivity reaction to evolocumab or any of the excipients in Repatha®. Serious hypersensitivity reactions including angioedema have occurred in patients treated with Repatha®.

ACS = acute coronary syndrome; LDL-C = low-density lipoprotein cholesterol.

Please see additional Important Safety Information throughout.

 **Repatha®**
(evolocumab) injection
140 mg/mL



FOURIER TRIAL

Further Cardiovascular **Outcomes Research** With
PCSK9 **Inhibition** in Subjects With **Elevated Risk**

The objective of FOURIER was to evaluate the effectiveness of Repatha® (evolocumab) to reduce CV events in patients with established CVD who remained at risk despite high- or moderate-intensity statin therapy.³ 81% of patients had previously experienced ≥ 1 MI.⁴ The FOURIER trial included MI patients with a median time of approximately 3.4 years since their most recent previous MI.³

The impact of initiating Repatha® in the acute phase of ACS on LDL-C lowering was not studied.³



EVACS TRIAL

Evolocumab in **Acute Coronary Syndrome**

In EVACS, an investigator-sponsored study conducted in the US, Repatha® was administered in-hospital early postinfarction. The study assessed the mean percent change in LDL-C from baseline, comparing placebo and Repatha® groups at day 30.¹



EVOPACS TRIAL

Evolocumab for Early Reduction of LDL-Cholesterol Levels
in **Patients With Acute Coronary Syndromes**

In EVOPACS, an investigator-sponsored study conducted in Switzerland, Repatha® was administered in-hospital in the acute phase of ACS. The percent change in LDL-C from baseline to week 8 was assessed.²

Adding Repatha® to statin therapy during hospitalization after ACS may help patients achieve the guideline-recommended LDL-C level^{1,2}

IMPORTANT SAFETY INFORMATION (continued)

Hypersensitivity Reactions: Hypersensitivity reactions, including angioedema, have been reported in patients treated with Repatha®. If signs or symptoms of serious hypersensitivity reactions occur, discontinue treatment with Repatha®, treat according to the standard of care, and monitor until signs and symptoms resolve.

FOURIER TRIAL

Further Cardiovascular **Outcomes** Research With PCSK9 Inhibition in Subjects With **Elevated Risk**

IN FOURIER, REPATHA® ADDED TO A STATIN WAS STUDIED IN ESTABLISHED CVD PATIENTS WHO REMAINED AT RISK OF ANOTHER CV EVENT⁴

27,564 patients with established CVD and LDL-C ≥70 mg/dL and/or non-HDL-C ≥100 mg/dL despite high- or moderate-intensity statin therapy⁴



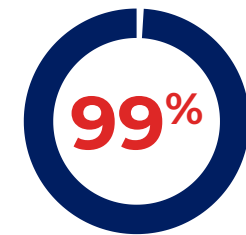
Patients were aged ≥40 to ≤85 years with prior MI, stroke, or symptomatic PAD^{3,*}



81% of patients already experienced ≥1 MI⁵



Median baseline LDL-C for enrolled patients was 92 mg/dL³



99% of patients were receiving high- or moderate-intensity statin therapy³



70% of patients in the Repatha® arm were on high-intensity statins³

Study Design: FOURIER was a double-blind, randomized, placebo-controlled, event-driven trial in 27,564 adult patients with established cardiovascular disease and with LDL-C ≥70 mg/dL and/or non-HDL-C ≥100 mg/dL despite high- or moderate-intensity statin therapy. Patients received either subcutaneous injections of Repatha® (140 mg every 2 weeks or 420 mg once monthly) or placebo. On stable background lipid-lowering therapy, median LDL-C at baseline was 92 mg/dL.⁴

THE ADDITION OF REPATHA® RESULTED IN A SUSTAINED AND CONSISTENT LDL-C REDUCTION⁴

- **63% mean reduction** in LDL-C from baseline at week 12 in the statin + Repatha® group compared to statin alone⁴
- **87% of patients achieved LDL-C ≤70 mg/dL** with Repatha® added to a statin at 48 weeks³
- Adding Repatha® to a statin can **lower LDL-C in just 4 weeks**³

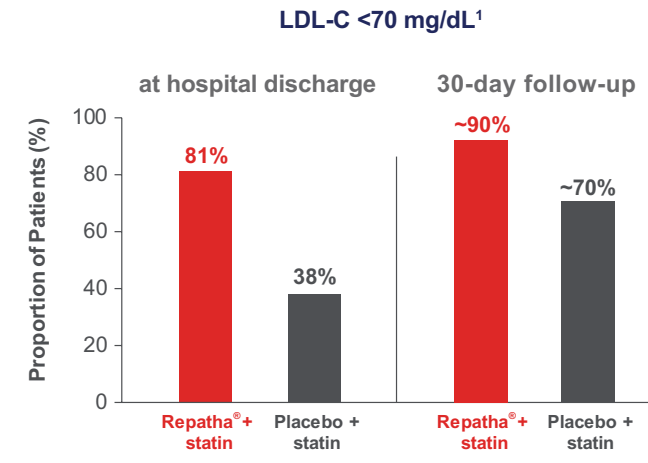
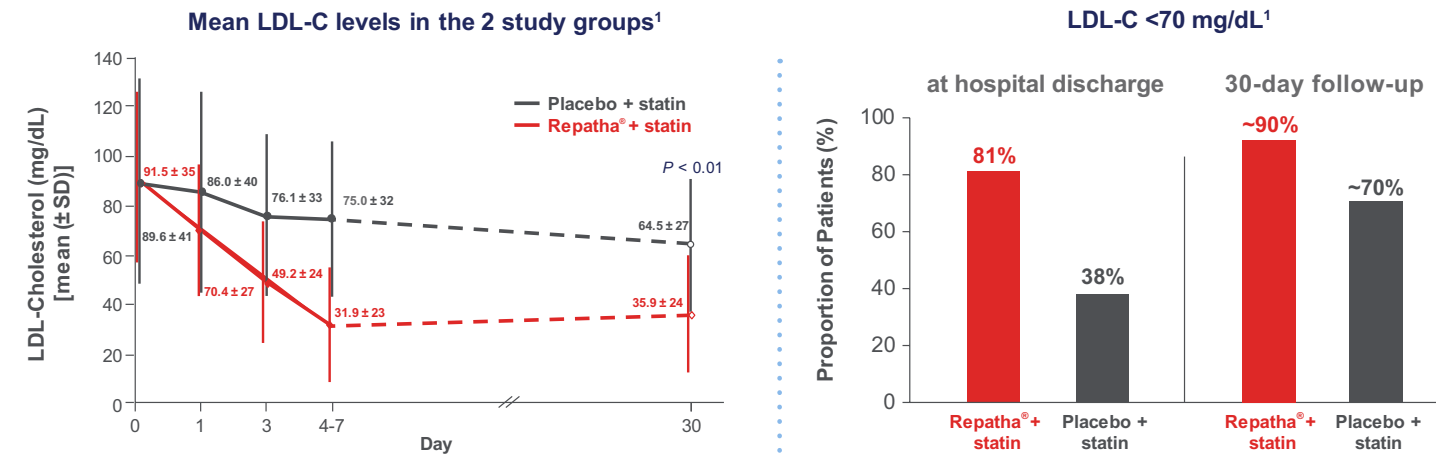
*Symptomatic peripheral arterial disease (history of claudication with ABI <0.85 or previous revascularization or amputation).⁵

EVACS TRIAL

Evolocumab in Acute Coronary Syndrome

IN EVACS, REPATHA® ADDED TO A STATIN WAS ADMINISTERED IN-HOSPITAL DURING THE EARLY POSTINFARCTION PERIOD, WITHIN 24 HOURS OF HOSPITALIZATION¹

Repatha® added to statin therapy reduced LDL-C levels throughout hospitalization and at 30-day follow-up more than a statin alone¹



The number of Repatha® and placebo patients with any adverse event was 10 and 12, respectively, and with a serious adverse event, 2 and 6, respectively¹

Study Design: The EVACS trial (Evolocumab in Acute Coronary Syndrome) enrolled patients with non-ST-segment-elevation myocardial infarction and troponin I of ≥5 ng/mL and randomly assigned them in a 1:1 ratio to a single dose of evolocumab SQ 420 mg or matching placebo within 24 hours of presentation. There were 57 patients enrolled in the study (30 Repatha® arm; 27 placebo arm). The primary endpoint was the change in LDL-C at 30 days. Other atherogenic lipid outcomes were also measured. All patients received high-intensity statins unless contraindicated and were treated in accordance with current ACS guidelines.¹

The EVACS trial was not designed to assess a correlation between LDL-C reduction and CV events.¹

IMPORTANT SAFETY INFORMATION (continued)

Adverse Reactions in Primary Hyperlipidemia: The most common adverse reactions (>5% of patients treated with Repatha® and more frequently than placebo) were: nasopharyngitis, upper respiratory tract infection, influenza, back pain, and injection site reactions.

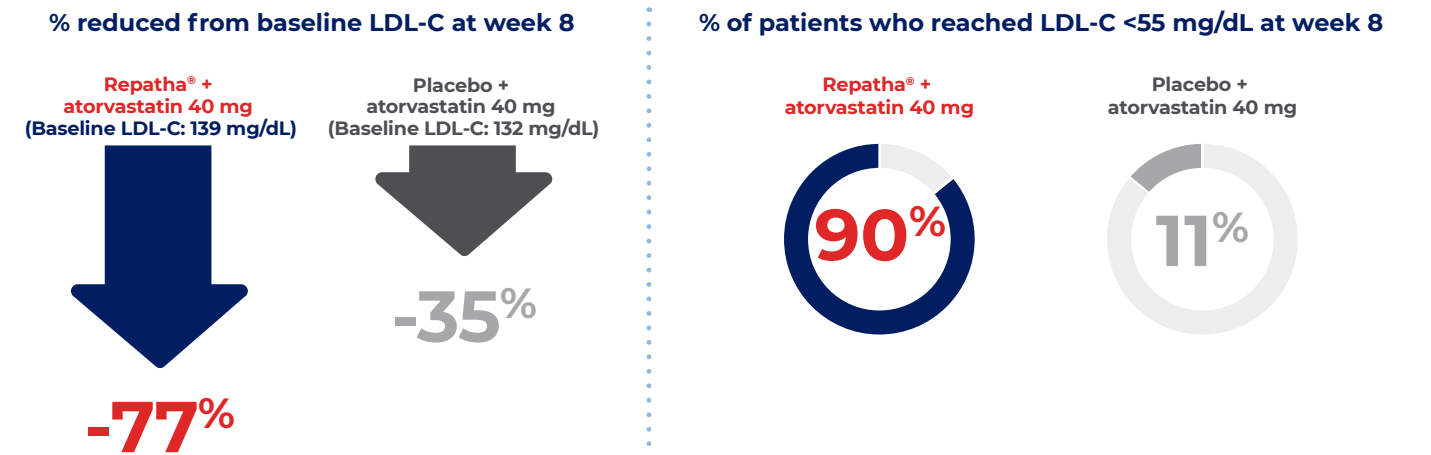
From a pool of the 52-week trial and seven 12-week trials: Local injection site reactions occurred in 3.2% and 3.0% of Repatha®-treated and placebo-treated patients, respectively. The most common injection site reactions were erythema, pain, and bruising. Hypersensitivity reactions occurred in 5.1% and 4.7% of Repatha®-treated and placebo-treated patients, respectively. The most common hypersensitivity reactions were rash (1.0% versus 0.5% for Repatha® and placebo, respectively), eczema (0.4% versus 0.2%), erythema (0.4% versus 0.2%), and urticaria (0.4% versus 0.1%).

EVOPACS TRIAL

Evolocumab for Early Reduction of LDL-Cholesterol Levels in Patients With Acute Coronary Syndromes

IN THE EVOPACS TRIAL, WHEN INITIATED IN-HOSPITAL AT THE ACUTE PHASE OF ACS, REPATHA® ADDED TO A STATIN REDUCED LDL-C AT 8 WEEKS²

95% of patients on Repatha® added to a statin achieved the AHA/ACC Guideline-recommended threshold of below 70 mg/dL vs 37% of patients on placebo + statin^{2,5}



Study Design: EVOPACS was a randomized, double-blind, placebo-controlled, multicenter, investigator-sponsored study conducted in Switzerland evaluating the safety and efficacy of Repatha® when administered in the acute phase of ACS (NSTEMI/UA <72 hours, STEMI <24 hours) typically within 72 hours of symptom onset. There were 308 patients enrolled in the study (155 Repatha® arm; 153 placebo arm). Patients presenting with ACS were included if their LDL-C levels were either ≥70 mg/dL despite high-intensity statin therapy, or ≥90 mg/dL despite low- or moderate-intensity statin, or ≥125 mg/dL in statin-naïve patients or patients not on stable statin therapy.²

Patients were randomized to receive Repatha® 420 mg once monthly subcutaneously plus high-intensity statin therapy or placebo plus high-intensity statin therapy; 78.2% of patients were not on background statin therapy prior to randomization.²

THE SAFETY AND TOLERABILITY OF REPATHA® WERE CONSISTENT WITH PREVIOUS TRIALS²

The EVOPACS trial was not designed to assess a correlation between LDL-C reduction and CV events²

AHA/ACC = American Heart Association/American College of Cardiology; ESC = European Society of Cardiology; NSTEMI = non-ST-segment-elevation myocardial infarction; STEMI = ST-elevation myocardial infarction; SQ = subcutaneous; UA = unstable angina.

IMPORTANT SAFETY INFORMATION

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Hypersensitivity Reactions: Hypersensitivity reactions, including angioedema, have been reported in patients treated with Repatha®. If signs or symptoms of serious hypersensitivity reactions occur, discontinue treatment with Repatha®, treat according to the standard of care, and monitor until signs and symptoms resolve.

Adverse Reactions in Primary Hyperlipidemia: The most common adverse reactions (>5% of patients treated with Repatha® and more frequently than placebo) were: nasopharyngitis, upper respiratory tract infection, influenza, back pain, and injection site reactions.

From a pool of the 52-week trial and seven 12-week trials: Local injection site reactions occurred in 3.2% and 3.0% of Repatha®-treated and placebo-treated patients, respectively. The most common injection site reactions were erythema, pain, and bruising. Hypersensitivity reactions occurred in 5.1% and 4.7% of Repatha®-treated and placebo-treated patients, respectively. The most common hypersensitivity reactions were rash (1.0% versus 0.5% for Repatha® and placebo, respectively), eczema (0.4% versus 0.2%), erythema (0.4% versus 0.2%), and urticaria (0.4% versus 0.1%).

Adverse Reactions in the Cardiovascular Outcomes Trial: The most common adverse reactions (>5% of patients treated with Repatha® and more frequently than placebo) were: diabetes mellitus (8.8% Repatha®, 8.2% placebo), nasopharyngitis (7.8% Repatha®, 7.4% placebo), and upper respiratory tract infection (5.1% Repatha®, 4.8% placebo).

Among the 16,676 patients without diabetes mellitus at baseline, the incidence of new-onset diabetes mellitus during the trial was 8.1% in patients treated with Repatha® compared with 7.7% in patients that received placebo.

Immunogenicity: Repatha® is a human monoclonal antibody. As with all therapeutic proteins, there is potential for immunogenicity with Repatha®.

Please see full [Prescribing Information](#).

References: **1.** Leucker TM, Blaha MJ, Jones SR, et al. Effect of evolocumab on atherogenic lipoproteins during the peri- and early postinfarction period: a placebo-controlled, randomized trial. *Circulation*. 2020;142:419-421. **2.** Koskinas KC, Windecker S, Pedrazzini G, et al. Evolocumab for early reduction of LDL cholesterol levels in patients with acute coronary syndromes (EVOPACS). *J Am Coll Cardiol*. 2019;74:2452-2462. **3.** Sabatine MS, Giugliano RP, Keech AC, et al; FOURIER Steering Committee and Investigators. Evolocumab and clinical outcomes in patients with cardiovascular disease. *N Engl J Med*. 2017;376:1713-1722. **4.** Repatha® (evolocumab) prescribing information, Amgen. **5.** Grundy SM, Stone NJ, Bailey AL, et al. 2018 AHA/ACC/AACVPR/AAPA/ABC/ACPM/ADA/AGS/APhA/ASPC/NLA/PCNA guideline on the management of blood cholesterol: a report of the American College of Cardiology/American Heart Association Task Force on Clinical Practice Guidelines. *J Am Coll Cardiol*. 2019;73:e285-e350.