

PRODUCT MONOGRAPH  
INCLUDING PATIENT MEDICATION INFORMATION

**PrRepatha®**

evolocumab injection

Solution for Subcutaneous Injection

140 mg in 1.0 mL (140 mg/mL)

420 mg in 3.5 mL (120 mg/mL)

anti-Proprotein Convertase Subtilisin/Kexin Type 9 (anti-PCSK9) Monoclonal Antibody produced  
in Chinese hamster ovary (CHO) cells by recombinant DNA technology

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Date of Initial Authorization:  
September 10, 2015

Date of Revision:  
October 10, 2024

Submission Control Number: 287719

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## RECENT MAJOR LABEL CHANGES

7 WARNINGS AND PRECAUTIONS, General

XX/2024

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## PART I: HEALTH PROFESSIONAL INFORMATION

### 1 INDICATIONS

#### Prevention of Cardiovascular Events

Repatha® (evolocumab injection) is indicated as an adjunct to diet and standard of care therapy (including moderate- to high-intensity statin therapy alone or in combination with other lipid-lowering therapy), to reduce the risk of myocardial infarction, stroke, and coronary revascularization in adult patients with atherosclerotic cardiovascular disease (ASCVD) by further lowering low-density lipoprotein cholesterol (LDL-C) levels (see 14 CLINICAL TRIALS).

#### Primary Hyperlipidemia (including Heterozygous Familial Hypercholesterolemia [HeFH] and ASCVD)

REPATHA is indicated for the reduction of elevated LDL-C in adult patients with primary hyperlipidemia (including heterozygous familial hypercholesterolemia and ASCVD):

- as an adjunct to diet and statin therapy, with or without other lipid-lowering therapies, in patients who require additional lowering of LDL-C
- as an adjunct to diet, alone or in combination with non-statin lipid-lowering therapies, in patients for whom a statin is contraindicated

#### Pediatric Patients with Heterozygous Familial Hypercholesterolemia

REPATHA is indicated as an adjunct to diet and other LDL-C-lowering therapies (e.g., statins, ezetimibe) in pediatric patients aged 10 years and older with HeFH who require additional lowering of LDL-C.

#### Homozygous Familial Hypercholesterolemia

REPATHA is indicated as an adjunct to diet and other LDL-lowering therapies (e.g., statins, ezetimibe, LDL apheresis) in adult and pediatric patients aged 10 years and older with homozygous familial hypercholesterolemia (HoFH) who require additional lowering of LDL-C.

#### 1.1 Pediatrics

**Pediatrics (≥ 10 years of age):** The efficacy and safety of REPATHA have been established in pediatric patients ≥ 10 years of age with HeFH and HoFH. Data on efficacy and safety in HoFH patients aged 10-11 years are limited (see 14 CLINICAL TRIALS).

The efficacy and safety of REPATHA have not been established in pediatric patients <10 years of age with HeFH, HoFH or in pediatric patients with other types of hyperlipidemia (see 7.1.3 Pediatrics).

#### 1.2 Geriatrics

**Geriatrics (≥ 65 years of age):** Of the 18,546 patients treated with REPATHA in double-blinded clinical studies, 7,656 (41.3%) were ≥ 65 years of age, while 1,500 (8.1%) were ≥ 75 years of age. No overall differences in safety or efficacy were observed between these patients and younger patients (see 7.1.4 Geriatrics).

## 2 CONTRAINDICATIONS

- REPATHA is contraindicated in patients who are hypersensitive to this drug or to any ingredient in the formulation, including any non-medicinal ingredient, or component of the container. For a complete listing, see 6 DOSAGE FORMS, STRENGTHS, COMPOSITION AND PACKAGING.
- For the lipid lowering therapies such as statin or other lipid lowering therapies used in combination with REPATHA, see the 2 CONTRAINDICATIONS section of the product monographs for those medications.

## 4 DOSAGE AND ADMINISTRATION

### 4.1 Dosing Considerations

- REPATHA is administered subcutaneously.
- REPATHA is intended for patient self-administration or by a caregiver (e.g. parent) after proper training by a healthcare professional. Administration should be performed by an individual who has been trained to administer the product.
- In pediatric patients, REPATHA use should be initiated and supervised by healthcare professionals who treat children with dyslipidemias.

### 4.2 Recommended Dose and Dosage Adjustment

#### **Prevention of Cardiovascular Events and Primary Hyperlipidemia in Adult Patients (including HeFH and ASCVD) and HeFH in Pediatric Patients (aged 10 years and older)**

The recommended dose for REPATHA is either 140 mg every 2 weeks or 420 mg once monthly; both doses are clinically equivalent. When switching dosage regimens, administer the first dose of the new regimen on the next scheduled date of the prior regimen.

One prefilled syringe\* (PFS) or prefilled autoinjector (AI) delivers the 140 mg every 2 week dose. One single-use automated mini-doser (AMD) with 3.5 mL prefilled cartridge delivers the 420 mg once monthly dose. Alternatively, 3 prefilled syringes\* or 3 prefilled AIs administered consecutively within 30 minutes delivers the 420 mg once monthly dose.

#### **Homozygous Familial Hypercholesterolemia**

Adult and Pediatric Patients (aged 10 years and older): The initial recommended dose is 420 mg once monthly. After 12 weeks of treatment, dose frequency can be up-titrated to 420 mg once every 2 weeks if a clinically meaningful response is not achieved. Patients on apheresis may initiate treatment with 420 mg every two weeks to correspond with their apheresis schedule. One AMD with prefilled cartridge delivers the 420 mg once monthly dose. Alternatively, three prefilled syringes\* or 3 prefilled AIs administered consecutively within 30 minutes deliver the 420 mg once monthly or 420 mg every 2 weeks dose.

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\*Pre-filled syringes are not available in Canada

### **Patients with Renal Impairment**

There is limited experience in patients with severe or end-stage renal disease (ESRD) receiving hemodialysis. No dosage adjustment may be required in these patient populations. However, REPATHA should be used with caution in patients with severe renal impairment (see 10 CLINICAL PHARMACOLOGY, Pharmacokinetics, Special Populations and Conditions, Renal Insufficiency).

### **Patients with Hepatic Impairment**

No dosage adjustment is necessary in patients with mild to moderate hepatic impairment.

### **Geriatric Patients**

No dosage adjustment is necessary in geriatric patients.

### **4.3 Reconstitution**

Not applicable

### **4.4 Administration**

Prior to subcutaneous administration, allow REPATHA to sit at room temperature up to 25°C for at least 30 minutes for the prefilled syringe\* or autoinjector and at least 45 minutes for the automated mini-doser with prefilled cartridge. Do not warm in any other way.

Avoid vigorous shaking of the product.

Visually inspect the solution for particles and discoloration. Do not use if the solution is discoloured, cloudy, or if flakes or particles are present.

Doses may be administered in the upper arm, thigh, or abdomen. Injection sites should be rotated and injections should not be given into areas where the skin is tender, bruised, red, or hard.

Comprehensive instructions for the administration of REPATHA are provided in the Patient Medication Information.

### **4.5 Missed Dose**

If an every 2 week or once monthly dose is missed, instruct the patient to:

- Administer REPATHA as soon as possible if there are more than 7 days until the next scheduled dose, or,
- Omit the missed dose and administer the next dose according to the original schedule.

## **5 OVERDOSAGE**

There is no specific treatment for REPATHA overdose. In the event of an overdose, the patient should be treated symptomatically and supportive measures instituted as required.

For management of a suspected drug overdose, contact your regional poison control centre.

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\*Pre-filled syringes are not available in Canada

## 6 DOSAGE FORMS, STRENGTHS, COMPOSITION AND PACKAGING

To help ensure the traceability of biologic products, including biosimilars, health professionals should recognise the importance of recording both the brand name and the non-proprietary (active ingredient) name as well as other product-specific identifiers such as the Drug Identification Number (DIN) and the batch/lot number of the product supplied.

### Dosage Forms, Strengths, Composition and Packaging

| Route of Administration | Dosage Form / Strength/Composition   | Non-medicinal Ingredients   |
|-------------------------|--|---|
| Subcutaneous injection  | Solution<br>Prefilled syringe* and autoinjector: 140 mg/mL<br>Automated mini-doser with prefilled cartridge: 120 mg/mL | proline, glacial acetic acid (acetate), polysorbate 80, sodium hydroxide, water for injection |

REPATHA is provided as:

- One mL solution (140 mg/mL evolocumab) in a single-use prefilled autoinjector with type 1 glass syringe and stainless steel needle (140 mg/mL AI); supplied as a 1-pack, 2-pack, and 3-pack.
- 3.5 mL solution in a single-use prefilled cartridge assembly made of Crystal Zenith® resin which is co-packaged with the administration device. The administration device is a compact, sterile, single-use, disposable, injection device intended for use only with the provided 3.5 mL prefilled cartridge assembly. (120 mg/mL AMD); supplied as a 1-pack.
- One mL solution (140 mg/mL evolocumab) in a single-use prefilled syringe\* made from type I glass with stainless steel needle (140 mg/mL PFS); supplied as a 1-pack.

REPATHA is a clear to opalescent, colourless to yellowish sterile, preservative-free solution, practically free from particles.

Each 1 mL prefilled syringe\* and autoinjector contains 140 mg evolocumab, proline, glacial acetic acid, polysorbate 80, water for injection and sodium hydroxide.

Each 3.5 mL automated mini-doser and prefilled cartridge contains 420 mg evolocumab (120 mg/mL), proline, glacial acetic acid, polysorbate 80, water for injection and sodium hydroxide.

## 7 WARNINGS AND PRECAUTIONS

### General

#### ***Concomitant Lipid Lowering Therapies***

When using REPATHA in combination with statins or other lipid lowering therapies (e.g., ezetimibe), the prescriber should refer to the 7 WARNINGS AND PRECAUTIONS sections of the product monographs for those medications.

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\*Prefilled syringes are not available in Canada

### ***Hypersensitivity in Latex-sensitive patients***

The autoinjector, automated mini-doser with prefilled cartridge, and prefilled syringe\* are not made with natural rubber latex (see 12 SPECIAL HANDLING INSTRUCTIONS).

### ***Immune***

Hypersensitivity reactions (e.g., rash, urticaria, angioedema) have been reported in patients treated with REPATHA, including some that led to discontinuation of therapy. If signs or symptoms of serious allergic reactions occur, discontinue treatment with REPATHA and treat according to the standard of care and monitor until signs and symptoms resolve (see 8 ADVERSE REACTIONS).

### ***Hepatic/Biliary/Pancreatic***

The safety and efficacy of REPATHA in patients with severe hepatic impairment has not been studied. REPATHA should be used with caution in patients with severe hepatic impairment (Childs-Pugh, Class C).

The effects of REPATHA in patients with or at risk of hepatitis C virus (HCV) infection remain uncertain.

### ***Renal***

No dose adjustment is necessary in patients with mild to moderate renal impairment. There is limited experience with REPATHA in patients with severe renal impairment (see 10 CLINICAL PHARMACOLOGY, Special Populations and Conditions, Renal Insufficiency).

### ***Reproductive Health: Female and Male Potential***

#### ***Fertility:***

No data are available on the effect of REPATHA on human fertility. For further fertility information regarding animal studies, see 16 NON-CLINICAL TOXICOLOGY.

## **7.1 Special Populations**

### **7.1.1 Pregnant Women**

No studies have been conducted with REPATHA in pregnant women and relevant data from clinical use are very limited.

Studies in monkeys showed that evolocumab crosses the placental barrier. The serum concentrations in infant monkeys at birth were comparable to the maternal serum. For further information regarding animal studies, see 16 NON-CLINICAL TOXICOLOGY.

Animal studies are not always predictive of human response. Therefore, it is not known whether REPATHA can cause fetal harm when administered to a pregnant woman. For patients being treated for primary hyperlipidemia, REPATHA can be used alone or in combination with other lipid-lowering therapies. Statin product monographs recommend discontinuation when a patient becomes pregnant, therefore REPATHA should also be discontinued (see the *Special Populations* section of the product monograph of the statins). For patients being treated for

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\*Prefilled syringes are not available in Canada



homozygous familial hypercholesterolemia REPATHA should be used during pregnancy only if the potential benefit justifies the potential risk to the fetus.

Women who become pregnant during REPATHA treatment, or their healthcare provider, are encouraged to call Amgen at 1-866-502-6436 to report the pregnancy.

### **7.1.2 Breast-feeding**

There is no information regarding the presence of evolocumab in human milk, the effects on the breastfed infant, or the effects on milk production. A risk to breastfed newborns and infants cannot be excluded. The development and health benefits of breastfeeding should be considered along with the mother's clinical need for REPATHA and any potential adverse effects on the breastfed infant from REPATHA or from the underlying maternal condition.

### **7.1.3 Pediatrics**

The efficacy and safety of REPATHA have been established in pediatric patients  $\geq 10$  years of age with HeFH and HoFH. A clinical study to evaluate the effects of REPATHA treatment was conducted in 157 pediatric patients aged 10 to 17 years old with HeFH and who received at least one dose of REPATHA or placebo. No new safety concerns were identified and the safety data in this pediatric population were generally consistent with the known safety profile of the product in adults with HeFH.

Twenty-six pediatric patients aged 11 to 17 years with HoFH have been treated with REPATHA in clinical studies. The efficacy and safety data were generally consistent between pediatric and adult patients with HoFH. Data on efficacy and safety in HoFH patients aged 10-11 years are limited (see 14 CLINICAL TRIALS, Homozygous Familial Hypercholesterolemia (HoFH), Trial Design and Study Demographics).

REPATHA has not been studied in pediatric patients  $< 10$  years of age with HeFH, HoFH or in pediatric patients with other types of dyslipidemia (see 14 CLINICAL TRIALS).

### **7.1.4 Geriatrics**

Of the 18,546 patients treated with REPATHA in double-blind clinical studies, 7,656 (41.3%) were  $\geq 65$  years of age and 1,500 (8.1%) were  $\geq 75$  years of age. No overall differences in safety or efficacy were observed between these patients and younger patients.

## **8 ADVERSE REACTIONS**

### **8.1 Adverse Reaction Overview**

The safety of REPATHA was evaluated in approximately 37,756 patients; 20,238 patients received REPATHA, representing 30,387 patient-years of exposure of REPATHA. The most common adverse reactions with REPATHA reported in  $> 2\%$  of patients and greater than control were nasopharyngitis, upper respiratory tract infection, influenza and injection site reactions (pain, erythema, bruising, swelling and hemorrhage). Rash, urticaria, back pain, arthralgia and nausea have also been reported.

The safety profile in the pediatric population was generally consistent with the safety profile of REPATHA in the adult population.

## 8.2 Clinical Trial Adverse Reactions

Clinical trials are conducted under very specific conditions. The adverse reaction rates observed in the clinical trials; therefore, may not reflect the rates observed in practice and should not be compared to the rates in the clinical trials of another drug. Adverse reaction information from clinical trials may be useful for identifying and approximating rates of drug reactions in real-world use.

### ***Adverse Reactions in the Cardiovascular Outcomes Trial***

In a double-blind, randomized, placebo controlled cardiovascular outcomes trial, 13,769 patients received at least one dose of REPATHA and 13,756 received placebo (see 14 CLINICAL TRIALS, Prevention of Cardiovascular Events). The mean age of enrolled patients was 62.5 years (range: 40 to 86 years), and 45% were 65 years of age and older. Twenty-five percent (25%) were women, 85% were White, 2% were Black, 10% were Asian, 8% identified as Hispanic. Patients were exposed to REPATHA or placebo for a mean of 24.1 months; 91% of patients were exposed for  $\geq 12$  months, 54% were exposed for  $\geq 24$  months, and 5% were exposed for  $\geq 36$  months.

In general, the safety profile of REPATHA in these patients was consistent with the known safety profile of REPATHA in patients with primary hyperlipidemia (Table 1, Table 2). Serious adverse events were reported in 25% of REPATHA- and placebo-treated patients. Adverse events led to treatment discontinuation in 4.4% of REPATHA-treated patients and 4.2% of placebo-treated patients. Common adverse reactions ( $\geq 5\%$  of patients in either treatment group) included diabetes mellitus, (REPATHA: 8.8%, placebo: 8.2%), nasopharyngitis (REPATHA: 7.8%, placebo 7.4%) and upper respiratory tract infection (REPATHA 5.1%, placebo: 4.8%).

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 assigned to REPATHA compared with 7.7% in those assigned to placebo.

### ***Adverse Events in the Cardiovascular Outcomes Open-label Extension Trials***

In two open-label, single-arm, multicentre, extension studies, 6,630 patients received at least one dose of REPATHA (see 14 CLINICAL TRIALS, Prevention of Cardiovascular Events). Patients who were randomized to placebo in the parent Cardiovascular Outcomes Trial were exposed to REPATHA in the extension studies up to 5.3 years [median (Q1, Q3) = 5.0 (4.4, 5.0) years]. Patients who were randomized to REPATHA in the parent Cardiovascular Outcomes Trial were exposed to REPATHA across both the parent and extension studies up to 8.4 years [median (Q1, Q3) = 7.0 years (6.5, 7.5) years].

The types and frequency of adverse events within the extension studies were consistent with those observed in previous REPATHA studies. No new safety risks with REPATHA were identified from the results of the extension studies, including in patients achieving an LDL-C  $< 0.65$  mmol/L or  $< 1.03$  mmol/L.

### ***Adverse Reactions in Patients with Primary Hyperlipidemia (including Heterozygous Familial Hypercholesterolemia and ASCVD)***

#### ***Adverse Reactions in Seven Pooled 12-Week Controlled Trials***

In seven pooled 12-week, double-blind, randomized, placebo-controlled trials, 993 patients received 140 mg of REPATHA subcutaneously every 2 weeks and 1,059 patients received 420 mg of REPATHA subcutaneously monthly. The mean age was 57 years (range, 18 to 80 years), 29% were older than 65 years, 49% were women, 85% White, 5% Black, 9% Asian, and

5% Hispanic. Adverse events, by system organ class and preferred term, for the 12-week placebo controlled trials occurring in  $\geq 1\%$  of patients and occurring more frequently in REPATHA groups (QM dosing and Q2W dosing) than placebo groups (QM dosing and Q2W dosing), are shown in Table 1.

**Table 1. Adverse Events Reported by  $\geq 1\%$  of REPATHA-treated Patients and More Frequently Than with Placebo by System Organ Class and Preferred Term in the 12-week Studies**

| <b>System Organ Class<br/>Preferred Term</b>                | <b>Any Placebo<br/>(N = 1,224)<br/>n (%)</b> | <b>EvoMab 140 mg Q2W or 420 mg QM<br/>(N = 2,052)<br/>n (%)</b> |
|---|--|---|
| <b>Gastrointestinal disorders</b>                           |  |   |
| Nausea  | 15 (1.2)                                     | 36 (1.8)  |
| <b>General disorders and administration site conditions</b> |  |   |
| Fatigue   | 12 (1.0)                                     | 33 (1.6)  |
| <b>Infections and infestations</b>                          |  |   |
| Nasopharyngitis   | 48 (3.9)                                     | 82 (4.0)  |
| Upper Respiratory Tract Infection                           | 24 (2.0)                                     | 43 (2.1)  |
| Urinary Tract Infection                                     | 15 (1.2)                                     | 26 (1.3)  |
| Influenza   | 13 (1.1)                                     | 25 (1.2)  |
| <b>Injury, poisoning and procedural complications</b>       |  |   |
| Contusion   | 6 (0.5)                                      | 21 (1.0)  |
| <b>Musculoskeletal and connective tissue disorders</b>      |  |   |
| Back Pain   | 27 (2.2)                                     | 47 (2.3)  |
| Arthralgia  | 19 (1.6)                                     | 37 (1.8)  |
| Muscle Spasms   | 15 (1.2)                                     | 27 (1.3)  |
| <b>Respiratory, thoracic and mediastinal disorders</b>      |  |   |
| Cough   | 8 (0.7)                                      | 25 (1.2)  |

Includes the following studies: 20090158, 20101154, 20101155, 20110114, 20110115, 20110117, 20110231.

N = number of subjects randomized and dosed in the full analysis set; EvoMab = Evolocumab; Q2W = every 2 weeks (subcutaneous) and QM = monthly (subcutaneous)

Coded using MedDRA version 17.0

#### *Adverse Reactions in a 52-Week Controlled Trial*

In a 52-week, double-blind, randomized, placebo-controlled trial, REPATHA (420 mg QM (n = 599) was compared to placebo (n = 302) in patients with primary hyperlipidemia on background lipid lowering therapy. The mean age was 56 years (range: 22 to 75 years), 23% were older than 65 years, 52% were women, 80% White, 8% Black, 6% Asian, and 6% Hispanic. The overall incidence of treatment emergent adverse events was comparable between the evolocumab QM (74.8%) and placebo QM (74.2%) treatment groups. Serious adverse events were reported 33 (5.5%) subjects in the evolocumab QM group and 13 (4.3%) in the placebo group. Treatment emergent adverse events leading to discontinuation of the product were 13 (2.2%) vs. 3 (1.0%) in the evolocumab QM group and the placebo QM group, respectively. Adverse events reported in at least 2% of REPATHA-treated patients, and more frequently than in placebo-treated patients are shown in Table 2.

**Table 2. Adverse Events Reported by  $\geq 2\%$  of REPATHA-treated Patients and More Frequently Than with Placebo by System Organ Class and Preferred Term in the 52-week Study**

| <b>System Organ Class</b><br>Preferred Term                 | <b>Placebo SC QM</b><br>(N = 302)<br>n (%) | <b>EvoMab 420 mg QM</b><br>(N = 599)<br>n (%) |
|---|--|---|
| <b>Gastrointestinal Disorders</b>                           |  |   |
| Diarrhea  | 8 (2.6)                                    | 18 (3.0)                                      |
| Abdominal Pain Upper  | 2 (0.7)                                    | 13 (2.2)                                      |
| <b>General Disorders and Administration Site Conditions</b> |  |   |
| Injection Site Erythema                                     | 6 (2.0)                                    | 16 (2.7)                                      |
| <b>Infection and Infestations</b>                           |  |   |
| Nasopharyngitis   | 29 (9.6)                                   | 63 (10.5)                                     |
| Upper Respiratory Tract Infection                           | 19 (6.3)                                   | 56 (9.3)                                      |
| Influenza   | 19 (6.3)                                   | 45 (7.5)                                      |
| Urinary Tract Infection                                     | 11 (3.6)                                   | 27 (4.5)                                      |
| Sinusitis   | 9 (3.0)                                    | 25 (4.2)                                      |
| Gastroenteritis   | 6 (2.0)                                    | 18 (3.0)                                      |
| <b>Musculoskeletal and Connective Tissue Disorders</b>      |  |   |
| Back Pain   | 17 (5.6)                                   | 37 (6.2)                                      |
| Myalgia   | 9 (3.0)                                    | 24 (4.0)                                      |
| Musculoskeletal Pain  | 9 (3.0)                                    | 20 (3.3)                                      |
| Osteoarthritis  | 5 (1.7)                                    | 12 (2.0)                                      |
| <b>Nervous System Disorders</b>                             |  |   |
| Headache  | 11 (3.6)                                   | 24 (4.0)                                      |
| Dizziness   | 8 (2.6)                                    | 22 (3.7)                                      |
| <b>Respiratory Thoracic and Mediastinal Disorders</b>       |  |   |
| Cough   | 11 (3.6)                                   | 27 (4.5)                                      |
| Oropharyngeal Pain  | 4 (1.3)                                    | 15 (2.5)                                      |
| <b>Vascular Disorders</b>                                   |  |   |
| Hypertension  | 7 (2.3)                                    | 19 (3.2)                                      |

N = number of subjects randomized and dosed in the full analysis set; EvoMab = Evolocumab; QM = monthly (subcutaneous)

Coded using MedDRA version 17.0

The incidence of treatment emergent adverse events in the homozygous familial hypercholesterolemia population was 12 (36.4%) in the evolocumab 420 mg QM group and 10 (62.5%) in the placebo group. No adverse reactions led to discontinuation during 12-week treatment.

## **Adverse Reactions in Integrated Phase 2 and Phase 3 Controlled Trials**

### **Allergic Reactions**

Hypersensitivity events were reported in 4.5% and 3.9% of REPATHA-treated and control-treated patients, respectively. The most common allergic reactions were rash (1.3% versus 1.2% for REPATHA and control, respectively), eczema (0.6% versus 0.4%), erythema (0.3% versus 0.3%), and urticaria (0.3% versus 0.2%) (see 7 WARNINGS AND PRECAUTIONS, General, Immune).

### **Injection Site Reactions**

Injection site reactions have been reported in patients treated with REPATHA (2.2% REPATHA-treated vs. 1.7% control-treated). The most common injection site reactions were pain, bruising, erythema, swelling and hemorrhage. Most of these reactions were mild in severity. The proportions of patients who discontinued treatment due to local injection site reactions were 0.1% in the REPATHA group and 0.1% in the control group. The proportions of patients who experienced recurrent local injection site reactions were 0.51% in the REPATHA group and 0.37% in the control group.

## **8.2.1 Clinical Trial Adverse Reactions – Pediatrics**

### **Adverse Reactions in Pediatric Patients with HeFH**

In a randomized, multicentre, placebo-controlled, double-blind, 24-week trial, 157 pediatric patients aged 10-17 with HeFH received at least one dose of REPATHA or placebo; 104 patients received 420 mg REPATHA subcutaneously once monthly (see **14 CLINICAL TRIALS**). The mean age was 13.7 years (range: 10 to 17 years), 56% were female, 85% White, 1% Black, 1% Asian, and 13% other; 8% identified as Hispanic ethnicity. The safety profile of REPATHA in these patients was generally consistent with the safety profile of REPATHA in adult patients with HeFH. Common adverse reactions (> 5% of patients treated with REPATHA and occurring more frequently than placebo) included nasopharyngitis (11.5% REPATHA, 11.3% placebo), headache (10.6% REPATHA, 1.9% placebo), oropharyngeal pain (6.7% REPATHA, 0.0% placebo), influenza (5.8% REPATHA, 3.8% placebo), and upper respiratory tract infection (5.8% REPATHA, 1.9% placebo).

### **Adverse Events in Pediatric Patients with HoFH in Open Label Studies**

Two open-label studies included 26 pediatric HoFH patients who received at least one dose of REPATHA for a combined exposure of 62.2 patient-years. In the first study, adverse events were reported in 7 of the 12 pediatric HoFH patients and none of the adverse events led to discontinuation of REPATHA. In the second study, adverse events were reported in 12 of the 14 pediatric HoFH patients with one adverse event of rash leading to discontinuation of REPATHA. The safety profile of REPATHA in these patients was generally consistent with the safety profile of REPATHA in adult patients with HoFH.

## **8.3 Less Common Clinical Trial Adverse Reactions**

### **Less Common Clinical Trial Adverse Drug Reactions (< 1%)**

The adverse reactions described below are from a pool of the 52-week trial and seven 12-week trials that included 2,651 patients treated with REPATHA, including 557 exposed for 6 months and 404 exposed for 1 year. The mean and median exposure durations of REPATHA in this pool of eight trials were 20 weeks and 12 weeks, respectively.

The following adverse reactions were reported in the 8 pooled control trials at an incidence of < 1% of patients:

**BLOOD AND LYMPHATIC SYSTEM DISORDERS:** *Anemia (0.1% placebo vs. 0.6% REPATHA)*

**CARDIAC DISORDERS:** *Palpitations (0.3% placebo vs. 0.7% REPATHA)*

**GASTROINTESTINAL DISORDERS:** *Abdominal Pain Upper (0.6% placebo vs. 0.8% REPATHA), Dyspepsia (0.4% placebo vs. 0.6% REPATHA), Abdominal Distension (0.4% placebo vs. 0.5% REPATHA)*

**GENERAL DISORDERS AND ADMINISTRATION SITE CONDITIONS:** *Injection Site Pain (0.6% placebo vs. 0.9% REPATHA), Edema Peripheral (0.7% placebo vs. 0.8% REPATHA), Seasonal Allergy (0.5% placebo vs. 0.6% REPATHA)*

**INFECTIONS AND INFESTATIONS:** *Cystitis (0.7% placebo vs. 0.8% REPATHA),*

**INJURY, POISONING AND PROCEDURAL COMPLICATIONS:** *Arthropod Bite (0.1% placebo vs. 0.8% REPATHA),*

**INVESTIGATIONS:** *Blood Creatine Phosphokinase Increased (0.5% placebo vs. 0.9% REPATHA)*

**NERVOUS SYSTEM DISORDERS:** *Paresthesia (0.1% placebo vs. 0.6% REPATHA)*

**MUSCULOSKELETAL AND CONNECTIVE TISSUE DISORDERS:** *Osteoarthritis (0.5% placebo vs. 0.6% REPATHA), Musculoskeletal Chest Pain (0.4% placebo vs. 0.5% REPATHA) Tendonitis (0.3% placebo vs. 0.5% REPATHA)*

**PSYCHIATRIC DISORDERS:** *Anxiety (0.2% placebo vs. 0.5% REPATHA)*

### 8.3.1 Less Common Clinical Trial Adverse Reactions – Pediatrics

The safety profile in the pediatric population was generally consistent with the safety profile of REPATHA in the adult population.

### 8.4 Abnormal Laboratory Findings: Hematologic, Clinical Chemistry and Other Quantitative Data

Not applicable

### 8.5 Post-Market Adverse Reactions

In addition to the events listed above, the following adverse reactions have been identified post-market in patients receiving REPATHA:

- Hypersensitivity reactions including angioedema
- Influenza-like illness
- Myalgia (with or without associated muscle weakness)

## **9 DRUG INTERACTIONS**

### **9.1 Serious Drug Interactions**

No serious drug interactions have been established.

### **9.2 Drug Interactions Overview**

No formal drug-drug interaction studies have been conducted for REPATHA.

### **9.3 Drug-Behavioural Interactions**

Interactions with behaviour have not been established.

### **9.4 Drug-Drug Interactions**

The pharmacokinetic interaction between statins and REPATHA was evaluated in the REPATHA clinical studies. An approximately 20% increase in the clearance of REPATHA was observed in adult patients co-administered with statins. This increased clearance is in part mediated by statins increasing the concentration of PCSK9 which did not adversely impact the pharmacodynamic effect of REPATHA on lipids. No statin dose adjustments are necessary when used in combination with REPATHA.

### **9.5 Drug-Food Interactions**

Interactions with food have not been established.

### **9.6 Drug-Herb Interactions**

Interactions with herbal products have not been established.

### **9.7 Drug-Laboratory Test Interactions**

Interactions with laboratory tests have not been established.

## **10 CLINICAL PHARMACOLOGY**

### **10.1 Mechanism of Action**

REPATHA (evolocumab) is a fully human monoclonal immunoglobulin G2 (IgG2) that binds to Proprotein Convertase Subtilisin/Kexin Type 9 (PCSK9). REPATHA binds selectively and with high affinity to PCSK9 and inhibits circulating PCSK9 from binding to the low-density lipoprotein (LDL) receptor (LDLR) on the liver cell surface, thus preventing PCSK9-mediated LDLR degradation therefore increasing the number of LDLR available to clear LDL, thereby lowering serum LDL-C levels.

### **10.2 Pharmacodynamics**

REPATHA reduced free PCSK9 in a concentration-related manner. Following a single subcutaneous administration of REPATHA 140 mg or 420 mg, maximum suppression of circulating free PCSK9 occurred within 4 hours, followed by a reduction of LDL-C from baseline reaching nadir by 14 and 21 days, respectively. Free PCSK9 concentrations returned to baseline upon discontinuation of REPATHA.

## 10.3 Pharmacokinetics

### Absorption and Distribution

Following a single subcutaneous administration of 140 mg or 420 mg REPATHA, median times to peak serum concentrations ( $t_{max}$ ) were 3 to 4 days. A greater than dose proportional increase was observed, with a 3.2-fold and 4.9-fold increase in REPATHA maximum concentrations ( $C_{max}$ ) and total exposure ( $AUC_{last}$ ), respectively, for a 3-fold increase in dose (140 mg to 420 mg). The absolute bioavailability of REPATHA after SC administration was about 72% as determined by population pharmacokinetics analysis.

Following multiple SC administration of REPATHA at 140 mg every 2 weeks (Q2W) or 420 mg monthly (QM), steady state was reached by 12 weeks and an approximate two to three-fold accumulation was observed in trough serum concentrations.

Following a single 420 mg REPATHA intravenous dose, the mean volume of distribution was estimated 3.3 (0.5) L, suggesting that REPATHA has limited tissue distribution.

### Metabolism and Excretion

REPATHA is expected to be degraded into small peptides and amino acids via catabolic pathways. Two mechanisms of elimination for evolocumab were observed. At low concentrations, the elimination is predominately through saturable binding to target PCSK9, while at higher concentrations the elimination of evolocumab is largely through a non-saturable elimination by endogenous immunoglobulin G (IgG) clearance mechanism.

Following a single 420 mg intravenous dose of REPATHA, the mean (SD) systemic clearance was estimated to be 12 (2) mL/hr. Statins increase the clearance of REPATHA by approximately 20%.

Based on a population pharmacokinetic analysis, the estimated effective half-life of REPATHA in patients is about 11 days for 140 mg SC Q2W and 17 days for 420 mg SC QM.

### Special Populations and Conditions

Population pharmacokinetic analyses based on data from 3,414 patients suggest that age (18-80 years), race, or gender had no significant impact on REPATHA pharmacokinetics. Body weight influenced the pharmacokinetics of REPATHA without having notable impact on LDL-C reduction. Therefore, no dose adjustments are recommended based on these demographics.

- **Pediatric patients with HeFH** (10 to 17 years, n = 103)

Following subcutaneous administration of 420 mg REPATHA once monthly, mean (SD) serum trough concentrations were 22.4 (14.7) mcg/mL and 25.8 (19.2) mcg/mL at week 12 and week 24, respectively.

- **Pediatric patients with HoFH** (11 to 17 years, n = 12)

Following subcutaneous administration of 420 mg REPATHA once monthly, mean (SD) serum trough concentrations were 20.3 (14.6) mcg/mL and 17.6 (28.6) mcg/mL at week 12 and week 80, respectively



- **Hepatic Insufficiency**

Following a single 140 mg subcutaneous dose of REPATHA, the exposure to REPATHA was found to be approximately 40% to 50% lower in patients with mild or moderate hepatic impairment (N = 8) compared with healthy patients. However, the time course and extent of absolute LDL-C lowering effect were found to be similar between patients with mild or moderate hepatic impairment and healthy patients. Patients with severe hepatic impairment (Childs-Pugh C) have not been studied.

- **Renal Insufficiency**

Population pharmacokinetic analysis of integrated data from the REPATHA clinical studies did not reveal a difference in pharmacokinetics between patients with no renal impairment and patients with mild or moderate renal impairment.

Single 140 mg subcutaneous doses of REPATHA were studied in 6 patients with normal renal function (estimated glomerular filtration rate [eGFR]  $\geq 90$  mL/min/1.73 m<sup>2</sup>), 6 patients with severe renal impairment (eGFR  $< 30$  mL/min/1.73 m<sup>2</sup>), and 6 patients with end stage renal disease (ESRD) receiving hemodialysis. The mean evolocumab exposure, as assessed by C<sub>max</sub>, was found to be approximately 30% to 45% lower in patients with severe renal impairment and ESRD compared with patients with normal renal function. The pharmacodynamics of REPATHA in patients with severe renal impairment and ESRD were comparable to patients with normal renal function, and there were no clinically meaningful differences in LDL-C lowering.

## 11 STORAGE, STABILITY AND DISPOSAL

REPATHA prefilled syringes\*, autoinjectors and automated mini-dosers with prefilled cartridges should be refrigerated at 2°C to 8°C in the original carton. If removed from the refrigerator, REPATHA should be kept at controlled room temperature up to 25°C in the original carton and must be used within 30 days.

Protect from direct light and temperatures above 25°C. Do not freeze. Do not shake. Do not use REPATHA beyond the expiration date.

## 12 SPECIAL HANDLING INSTRUCTIONS

Any unused medicinal product or waste material should be disposed of in accordance with local requirements.

The autoinjector, automated mini-doser with prefilled cartridge, and prefilled syringe\* are not made with natural rubber latex (see 7 WARNINGS AND PRECAUTIONS).

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\*Prefilled syringes are not available in Canada

## PART II: SCIENTIFIC INFORMATION

### 13 PHARMACEUTICAL INFORMATION

#### Drug Substance

Proper name: Evolocumab

Chemical name: anti-PCSK9 monoclonal antibody

Molecular formula and molecular mass: 144 kDa

Structural formula: Evolocumab is a fully human monoclonal antibody of the immunoglobulin G2 (IgG2) subclass consisting of 2 heavy chains and 2 light chains of the lambda subclass. Evolocumab contains 36 total cysteine residues involved in both intrachain and interchain disulfide bonds. Each heavy chain contains 441 amino acids with 4 intrachain disulfides. Each light chain contains 215 amino acids with 2 intrachain disulfides. Each heavy chain contains an N-linked glycan at a consensus glycosylation site on asparagine 291.

Physicochemical properties: Repatha® is a clear to opalescent, colourless to yellowish sterile, preservative-free solution, practically free from particles.

#### Product Characteristics

REPATHA has high affinity binding to Proprotein Convertase Subtilisin/Kexin Type 9 (PCSK9). Evolocumab is produced using recombinant DNA technology in Chinese hamster ovary (CHO) cells.

### 14 CLINICAL TRIALS

#### 14.1 Clinical Trials by Indication

##### Prevention of Cardiovascular Events

##### *Trial Design and Study Demographics*

**Table 3. Summary of Trial Design and Patient Demographics**

| Study #                            | Trial design   | Dosage, Route of Administration and Duration                                     | Study subjects (n) | Mean age (Range) | Gender           |
|------------------------------------|--|--|--------------------|------------------|------------------|
| FOURIER<br>Cardiovascular outcomes | Randomized, placebo-controlled, double-blind, event-driven | REPATHA 140 mg SC Q2W<br>REPATHA 420 mg SC QM<br>Placebo SC Q2W<br>Placebo SC QM | 27, 564            | 62.5<br>(40-86)  | 24.6%<br>females |

The cardiovascular outcomes study (FOURIER) was a phase 3, double-blind, randomized, placebo-controlled, event-driven, study to evaluate the effects of REPATHA treatment in adult patients with established cardiovascular disease as evidenced by a history of myocardial infarction, non-hemorrhagic stroke, or symptomatic peripheral arterial disease. Enrolled patients were required to have one or more additional major risk factors (e.g. diabetes mellitus, current daily cigarette smoking, age  $\geq$  65 years, or recent myocardial infarction [within 6 months]) or two or more minor risk factors (e.g. history of coronary revascularization, elevated non-HDL-C, metabolic syndrome). Eligible patients were required to be on a stable, moderate- to high-intensity statin background therapy at randomization consisting of an effective statin dose, i.e.,

at least atorvastatin 20 mg daily or equivalent, and where locally approved, highly effective statin therapy (defined as at least atorvastatin 40 mg daily or equivalent) was recommended. Patients with NYHA class III and class IV heart failure were excluded from the study.

A total of 27,564 (13,784 REPATHA; 13,780 placebo) adult patients were randomized 1:1 to receive either REPATHA (140 mg every 2 weeks or 420 mg once monthly) or placebo (every 2 weeks or once monthly, respectively) subcutaneously; 86% used the every 2 weeks regimen throughout the trial. Randomization was stratified by the final screening LDL-C level (< 2.2 mmol/L vs ≥ 2.2 mmol/L) and by geographical region (Europe, North America, Latin America and Asia Pacific).

The primary endpoint was the time to cardiovascular death, myocardial infarction, hospitalization for unstable angina, stroke, or coronary revascularization, whichever occurred first. The key secondary endpoint was time to cardiovascular death, myocardial infarction, or stroke, whichever occurred first.

The study ended after a minimum of 1,630 patients had experienced a key secondary endpoint event of cardiovascular death, myocardial infarction, or stroke. Patients were to complete all planned visits regardless of their adherence to investigational product. The median follow-up duration was 26 months. Overall, 99.2% of patients were followed until the end of the trial or death.

The mean (SD) age at baseline was 63 (9) years, with 45% being at least 65 years old; 25% were women. The trial population was 85% white, 2% black, and 10% Asian; 8% identified as Hispanic ethnicity. Regarding prior diagnoses of cardiovascular disease, 81% had prior myocardial infarction, 19% had prior non-hemorrhagic stroke, and 13% had symptomatic peripheral arterial disease. Selected additional baseline risk factors included hypertension (80%), diabetes mellitus (1% type 1; 36% type 2), current daily cigarette smoking (28%), New York Heart Association class I or II congestive heart failure (23%), and eGFR < 60 mL/min per 1.73 m<sup>2</sup> (6%). Most patients were on a high- (69%) or moderate-intensity (30%) statin therapy at baseline, and 5% were also taking ezetimibe. Most patients were taking at least one other cardiovascular medication including anti-platelet agents (93%), beta blockers (76%), angiotensin converting enzyme (ACE) inhibitors (56%), or angiotensin receptor blockers (23%). On stable background lipid-lowering therapy, the median (Q1, Q3) LDL-C at baseline was 2.4 (2.1, 2.8) mmol/L; the mean (SD) was 2.5 (0.7) mmol/L.

FOURIER-OLE consisted of two open-label extension (OLE) studies to evaluate the long-term safety and efficacy of REPATHA in patients who completed the FOURIER parent study. All patients received REPATHA 140 mg every 2 weeks or 420 mg once monthly for approximately 5 years.

The primary endpoint was subject incidence of adverse events. Secondary efficacy endpoints included percent change of LDL-C from baseline at each scheduled visit and achievement of an LDL-C level < 1.03 mmol/L at each scheduled visit.

### **Study Results**

In the FOURIER study, REPATHA significantly reduced the risk for the primary composite endpoint (time to cardiovascular death, myocardial infarction, stroke, hospitalization for unstable angina, or coronary revascularization, whichever occurred first) and the key secondary composite endpoint (time to cardiovascular death, myocardial infarction, or stroke, whichever occurred first). The Kaplan-Meier estimates of the cumulative incidence of the primary and key secondary composite endpoints over time are shown in Figure 1 and Figure 2 below.

The results of primary and secondary efficacy endpoints are shown in Table 4.

**Table 4. Treatment Effects of REPATHA Compared with Placebo in Patients with Established Cardiovascular Disease (FOURIER)**

|   | Placebo<br>(N = 13,780)<br>n (%) | REPATHA<br>(N = 13,784)<br>n (%) | Hazard Ratio<br>(95% CI) | p-value <sup>a</sup> |
|---|----------------------------------|----------------------------------|--------------------------|----------------------|
| <b>Primary endpoint</b>   |                                  |                                  |                          |                      |
| Time to cardiovascular death, myocardial infarction, hospitalization for unstable angina, stroke, or coronary revascularization, whichever occurred first | 1,563 (11.34)                    | 1,344 (9.75)                     | 0.85 (0.79, 0.92)        | <0.0001              |
| <b>Key secondary endpoint</b>   |                                  |                                  |                          |                      |
| Time to cardiovascular death, myocardial infarction, or stroke, whichever occurred first  | 1,013 (7.35)                     | 816 (5.92)                       | 0.80 (0.73, 0.88)        | <0.0001              |
| <b>Other secondary endpoints</b>  |                                  |                                  |                          |                      |
| Time to cardiovascular death  | 240 (1.74)                       | 251 (1.82)                       | 1.05 (0.88, 1.25)        | 0.6188 <sup>b</sup>  |
| Time to death by any cause <sup>c</sup>   | 426 (3.09)                       | 444 (3.22)                       | 1.04 (0.91, 1.19)        |                      |
| Time to first fatal or non-fatal myocardial infarction  | 639 (4.64)                       | 468 (3.40)                       | 0.73 (0.65, 0.82)        |                      |
| Time to first fatal or non-fatal stroke   | 262 (1.90)                       | 207 (1.50)                       | 0.79 (0.66, 0.95)        |                      |
| Time to first coronary revascularization  | 965 (7.00)                       | 759 (5.51)                       | 0.78 (0.71, 0.86)        |                      |
| Time to first hospitalization for unstable angina <sup>d</sup>  | 239 (1.73)                       | 236 (1.71)                       | 0.99 (0.82, 1.18)        |                      |

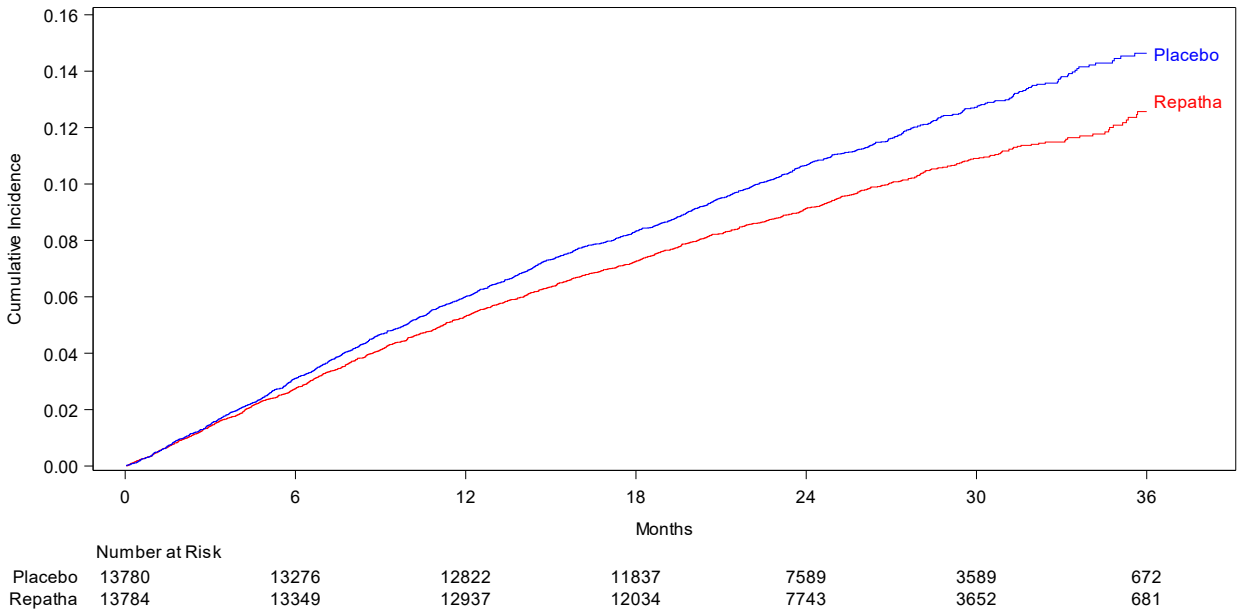
<sup>a</sup> Two-sided log-rank test stratified by randomization stratification factors (final screening LDL-C and geographic region) collected via IVRS

<sup>b</sup> Based on pre-specified hierarchical nature of the statistical testing for multiplicity adjustment, the statistical testing could not be performed for the other secondary endpoints due to non-statistical significant result of time to cardiovascular death.

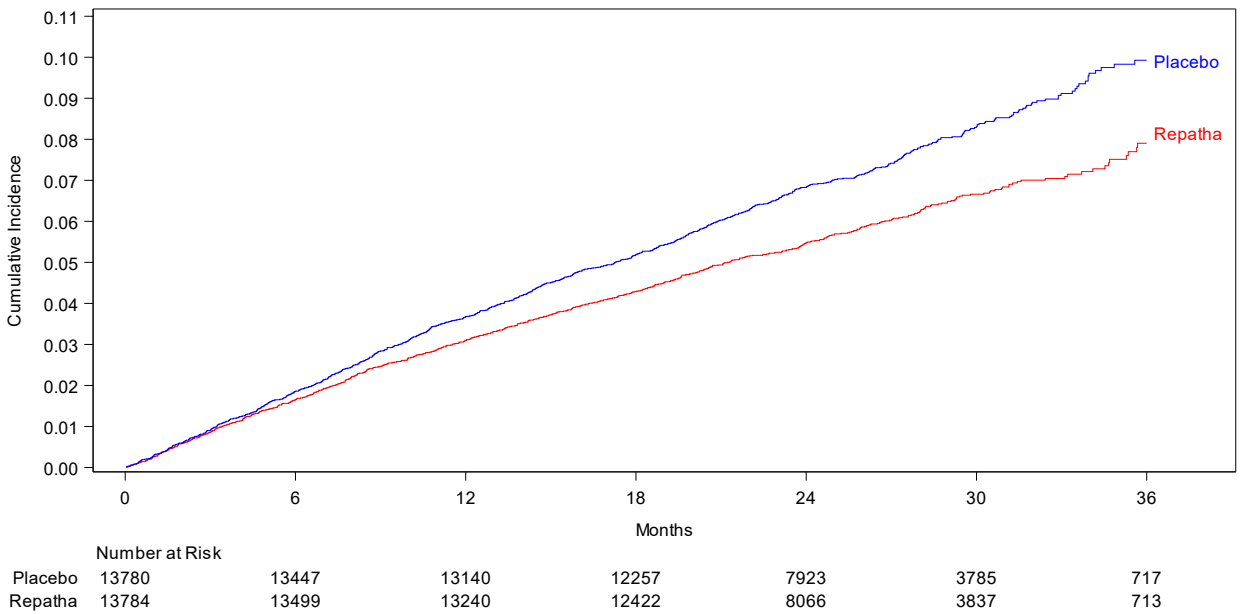
<sup>c</sup> Time to death by any cause is not a component of either the primary composite endpoint or key secondary composite endpoint

<sup>d</sup> Not a prespecified endpoint; an ad-hoc analysis was performed to ensure results are provided for each individual component of the primary endpoint.

**Figure 1. Cumulative Incidence Estimates for the Primary Composite Endpoint Over 3 Years**



**Figure 2. Cumulative Incidence Estimates for the Key Secondary Composite Endpoint Over 3 Years**



The percent change from baseline at each scheduled assessment in LDL-C was assessed as an exploratory endpoint in the study. At Week 12, the LS (least squares) mean percent change from baseline in LDL-C was -2.42 in the placebo group and -63.11 in the REPATHA group. Of the patients treated with REPATHA, 9,518 (69.1%) achieved at least one LDL-C value < 0.65 mmol/L. The safety profile of REPATHA-treated patients with post-baseline LDL-C < 0.65 mmol/L was similar to that of REPATHA-treated patients with higher post-baseline LDL-C  $\geq$  1 mmol/L.

In a sub-study of 1,974 patients enrolled in the cardiovascular outcomes study, who had established cardiovascular disease, and who did not have mild cognitive impairment or dementia, REPATHA (n = 586) was non-inferior to placebo (n = 618) on select cognitive function domains assessed using neuropsychological function tests measured over a median follow-up of 19 months.

In the FOURIER-OLE studies, the observed mean percent reduction from baseline in LDL-C ranged from 53.4% to 67.2%. The subject incidences of achieving a post-baseline LDL-C level < 1.03 mmol/L following treatment ranged from 54.6% to 76.1%.

## Primary Hyperlipidemia (including Heterozygous Familial Hypercholesterolemia and ASCVD)

### Trial Design and Study Demographics

**Table 5. Summary of Patient Demographics**

| Study #                       | Trial design  | Dosage, Route of Administration and Duration   | Study subjects (n) | Mean age (Range) | Gender        |
|-------------------------------|---|--|--------------------|------------------|---------------|
| RUTHERFORD-2                  | Double-blind, randomized, placebo-controlled                                    | REPATHA 140 mg SC Q2W<br>REPATHA 420 mg SC QM<br>Placebo SC Q2W<br>Placebo SC QM   | 329                | 51.2<br>(19-79)  | 42.2% females |
| LAPLACE-2 Combination Therapy | Double-blind, randomized, placebo and ezetimibe-controlled, combination therapy | REPATHA 140 mg SC Q2W<br>REPATHA 420 mg SC QM<br>Placebo SC Q2W<br>Placebo SC QM<br>ezetimibe 10 mg PO QD                  | 1,896              | 59.8<br>(20-80)  | 45.8% females |
| DESCARTES Long-Term Efficacy  | Double-blind, Randomized, placebo-controlled, long term                         | REPATHA 420 mg SC QM<br>Placebo SC QM  | 901                | 56.2<br>(25-75)  | 52.3% females |
| GAUSS-2 Statin-Intolerant     | Double-blind, randomized, ezetimibe-controlled                                  | REPATHA 140 mg SC Q2W<br>REPATHA 420 mg SC QM<br>Placebo PO QD<br>Placebo SC Q2W<br>Placebo SC QM<br>Ezetimibe 10 mg PO QD | 307                | 61.5<br>(22-80)  | 45.9% females |

Q2W = once every 2 weeks; QM = once monthly; QD = once daily, SC = subcutaneously, PO = oral

RUTHERFORD-2 was an international, multicentre, double-blind, randomized, placebo-controlled, 12-week study of REPATHA in 329 patients with heterozygous familial hypercholesterolemia on statins with or without other lipid-lowering therapies. Patients were randomized to receive subcutaneous injections of REPATHA 140 mg every two weeks, 420 mg once monthly, or placebo. HeFH was diagnosed by the Simon Broome criteria (1991). In this study 38% of patients had clinical atherosclerotic cardiovascular disease. The mean age at baseline was 51 years (range, 19 to 79 years), 15% of the patients were ≥ 65 years old, 42% were women, 90% were White, 5% were Asian, and 1% were Black. The average LDL-C at baseline was 4.0 mmol/L with 76% of the patients on high-intensity statin therapy.

LAPLACE-2 was an international, multicentre, double-blind, randomized controlled trial in which patients were initially randomized to an open-label specific statin regimen for a 4-week lipid stabilization period followed by random assignment to subcutaneous injections of REPATHA 140 mg every 2 weeks, REPATHA 420 mg once monthly, or placebo for 12 weeks. The trial included 1,896 patients with primary hyperlipidemia (including 526 who had atherosclerotic cardiovascular disease) who received REPATHA or placebo as add-on therapy to daily doses of statins (atorvastatin 10 mg or 80 mg with or without ezetimibe 10 mg daily, rosuvastatin 5 mg or 40 mg, or simvastatin 40 mg). Among these patients, the mean age at baseline was 60 years (range: 20 to 80 years), 35% were ≥ 65 years old, 46% were women, 94% were White, 4% were Black, 1% were Asian and 5% were Hispanic or Latino. After 4 weeks background statin

therapy, the mean baseline LDL-C was 2.8 mmol/L (range 2.3 – 3.2 mmol/L) across the five groups.

DESCARTES was an international, multicentre, double-blind, randomized, placebo-controlled, 52-week trial that included 901 patients with primary hyperlipidemia (including 156 who had atherosclerotic cardiovascular disease) who were assigned to background lipid-lowering therapy based on underlying cardiovascular risk. Patients who did not reach target LDL-C goal on atorvastatin 80 mg also received ezetimibe 10 mg and thus had LDL-C levels more refractory to treatment. After stabilization on background therapy, patients were randomly assigned to the addition of placebo or REPATHA 420 mg administered subcutaneously once monthly. Among these patients, the mean age at baseline was 56 years (range, 25 to 75 years), 23% were  $\geq 65$  years, 52% were women, 80% were White, 8% were Black, 6% were Asian, and 6% were Hispanic or Latino. After stabilization on the assigned background therapy, the mean baseline LDL-C was 2.6 mmol/L (range 2.3 – 3.0 mmol/L) across the background therapy groups.

GAUSS-2 was a multicentre, double-blind, randomized, ezetimibe-controlled, 12-week trial that included 307 patients with primary hyperlipidemia (including 117 who had atherosclerotic cardiovascular disease) who had tried at least two different statins and who were unable to continue on the lowest effective dose of either due to intolerable myalgia, myositis or rhabdomyolysis (which resolved when the statins were discontinued or the doses reduced). Patients were randomly assigned to receive subcutaneous injections of REPATHA 140 mg every 2 weeks, REPATHA 420 mg once monthly, or placebo every 2 weeks or monthly with ezetimibe 10 mg daily for 12 weeks. Among these patients, 55 patients were on statin therapy at baseline, while the mean age was 62 years (range: 22 to 80 years), 41% were  $\geq 65$  years old, 46% women, 94% White, 2% Black, 3% Asian, and 2.3% Hispanic or Latino. The mean baseline LDL-C was 5.0 mmol/L.

### **Study Results**

In the RUTHERFORD-2 study, the differences between REPATHA and placebo group in mean percent change in LDL-C from baseline to Week 12 was -61% (95%CI: -67%, -55%;  $p < 0.0001$ ) and -60% (95%CI: -68%, -53%;  $p < 0.0001$ ) for the 140 mg every 2 weeks and 420 mg once monthly dosages, respectively. For additional results see Table 6.



**Table 6. Effect of REPATHA on Lipid Parameters in Adult Patients with HeFH (Mean % Change from Baseline to Week 12 in RUTHERFORD-2)**

| Treatment Group                                     | LDL-C <sup>a</sup> | Non-HDL-C          | Apo B              | Total Cholesterol |
|---|--------------------|--------------------|--------------------|-------------------|
| Placebo every 2 weeks (n = 54)                      | -2                 | -1                 | -1                 | -2                |
| REPATHA 140 mg every 2 weeks <sup>†</sup> (n = 110) | -63                | -56                | -50                | -43               |
| Mean difference from placebo (95% CI)               | -61*<br>(-67, -55) | -55*<br>(-60, -49) | -49*<br>(-55, -44) | -41<br>(-45, -36) |
| Placebo once monthly (n = 55)                       | 4                  | 5                  | 5                  | 3                 |
| REPATHA 420 mg once monthly <sup>†</sup> (n = 110)  | -57                | -50                | -45                | -37               |
| Mean difference from placebo (95% CI)               | -60*<br>(-68, -53) | -55*<br>(-62, -48) | -49*<br>(-56, -43) | -40<br>(-46, -34) |

<sup>a</sup> Calculated LDL-C.

Estimates are least squares means from a repeated measures model, which included treatment group, stratification factor, scheduled visit and the interaction of treatment with scheduled visit as covariates.

Inferential statistics for total cholesterol are not presented since it was an exploratory endpoint.

\* p < 0.0001 compared with placebo; type I error was controlled among all primary and secondary endpoints.

<sup>†</sup>140 mg every 2 weeks or 420 mg once monthly yield similar reductions in LDL-C

In the LAPLACE-2 study, the overall difference between REPATHA and placebo in mean percent change in LDL-C from baseline to Week 12 was -73% (95% CI: -77%, -70%; p < 0.0001) and -64% (95% CI: -69%, -60%; p < 0.0001) for the 140 mg every 2 weeks and 420 mg once monthly dosages, respectively. The difference between REPATHA and ezetimibe in mean percent change in LDL-C from baseline to Week 12 was -45% (95% CI: -51%, -40%; p < 0.0001) and -42% (95% CI: -48%, -37%; p < 0.0001) for the 140 mg every 2 weeks and 420 mg once monthly dosages, respectively. For individual results see Table 7.

**Table 7. Effect of REPATHA on Lipid Parameters in Adult Patients with Primary Hyperlipidemia on Atorvastatin 10 mg or 80 mg with or without Ezetimibe 10 mg daily, Rosuvastatin 5 mg or 40 mg, or Simvastatin 40 mg (Mean % Change from Baseline to Week 12 in LAPLACE-2)**

| Treatment Group                                     | LDL-C <sup>a</sup>  | Non-HDL-C           | Apo B               | Total Cholesterol |
|---|---------------------|---------------------|---------------------|-------------------|
| <b>Background Treatment with Atorvastatin 10 mg</b> |                     |                     |                     |                   |
| <b>Q2W</b>  |                     |                     |                     |                   |
| Placebo every 2 weeks (n = 56)                      | 10                  | 8                   | 8                   | 6                 |
| Ezetimibe 10 mg daily (n = 56)                      | -21                 | -18                 | -16                 | -14               |
| REPATHA 140 mg every 2 weeks <sup>†</sup> (n = 110) | -65                 | -53                 | -51                 | -37               |
| Mean difference of REPATHA from placebo (95% CI)    | -74*<br>(-81, -68)  | -62*<br>(-67, -56)  | -59*<br>(-64, -54)  | -43<br>(-47, -38) |
| Mean difference of REPATHA from Ezetimibe (95% CI)  | -44**<br>(-50, -37) | -35**<br>(-41, -29) | -35**<br>(-40, -30) | -23<br>(-27, -18) |
| <b>QM</b>   |                     |                     |                     |                   |
| Placebo once monthly (n = 55)                       | 1                   | 2                   | 0                   | 1                 |
| Ezetimibe 10 mg daily (n = 55)                      | -17                 | -15                 | -11                 | -11               |
| REPATHA 420 mg once monthly <sup>†</sup> (n = 110)  | -60                 | -53                 | -47                 | -37               |
| Mean difference of REPATHA from placebo (95% CI)    | -61*<br>(-68, -54)  | -55*<br>(-61, -48)  | -47*<br>(-53, -42)  | -38<br>(-43, -33) |
| Mean difference of REPATHA from Ezetimibe (95% CI)  | -43**<br>(-50, -36) | -38**<br>(-44, -31) | -36**<br>(-42, -30) | -25<br>(-30, -21) |
| <b>Background Treatment with Atorvastatin 80 mg</b> |                     |                     |                     |                   |
| <b>Q2W</b>  |                     |                     |                     |                   |
| Placebo every 2 weeks (n = 55)                      | 15                  | 12                  | 12                  | 9                 |
| Ezetimibe 10 mg daily (n = 56)                      | -15                 | -14                 | -12                 | -10               |
| REPATHA 140 mg every 2 weeks <sup>†</sup> (n = 109) | -65                 | -55                 | -50                 | -36               |
| Mean difference of REPATHA from placebo (95% CI)    | -80*<br>(-91, -68)  | -67*<br>(-76, -57)  | -61*<br>(-69, -54)  | -46<br>(-53, -39) |
| Mean difference of REPATHA from Ezetimibe (95% CI)  | -50**<br>(-61, -39) | -41**<br>(-50, -31) | -37**<br>(-45, -30) | -26<br>(-33, -20) |
| <b>QM</b>   |                     |                     |                     |                   |
| Placebo once monthly (n = 55)                       | 12                  | 10                  | 7                   | 6                 |
| Ezetimibe 10 mg daily (n = 54)                      | -21                 | -17                 | -12                 | -12               |
| REPATHA 420 mg once monthly <sup>†</sup> (n = 110)  | -62                 | -50                 | -46                 | -33               |
| Mean difference of REPATHA from placebo (95% CI)    | -74*<br>(-84, -65)  | -60*<br>(-68, -52)  | -53*<br>(-61, -45)  | -39<br>(-45, -33) |
| Mean difference of REPATHA from Ezetimibe (95% CI)  | -41**<br>(-51, -32) | -33**<br>(-41, -24) | -34**<br>(-42, -26) | -20<br>(-26, -14) |

**Table 7. Effect of REPATHA on Lipid Parameters in Adult Patients with Primary Hyperlipidemia on Atorvastatin 10 mg or 80 mg with or without Ezetimibe 10 mg daily, Rosuvastatin 5 mg or 40 mg, or Simvastatin 40 mg (Mean % Change from Baseline to Week 12 in LAPLACE-2)**

| Treatment Group                                     | LDL-C <sup>a</sup> | Non-HDL-C          | Apo B              | Total Cholesterol |
|---|--------------------|--------------------|--------------------|-------------------|
| <b>Background Treatment with Rosuvastatin 5 mg</b>  |                    |                    |                    |                   |
| <b>Q2W</b>  |                    |                    |                    |                   |
| Placebo every 2 weeks (n = 58)                      | 8                  | 8                  | 6                  | 6                 |
| REPATHA 140 mg every 2 weeks <sup>†</sup> (n = 113) | -63                | -52                | -50                | -36               |
| Mean difference of REPATHA from placebo (95% CI)    | -71*<br>(-78, -64) | -60*<br>(-66, -54) | -57*<br>(-62, -51) | -43<br>(-47, -39) |
| <b>QM</b>   |                    |                    |                    |                   |
| Placebo once monthly (n = 57)                       | 5                  | 6                  | 5                  | 3                 |
| REPATHA 420 mg once monthly <sup>†</sup> (n = 115)  | -61                | -52                | -49                | -36               |
| Mean difference of REPATHA from placebo (95% CI)    | -66*<br>(-72, -59) | -57*<br>(-63, -52) | -53*<br>(-58, -48) | -39<br>(-44, -35) |
| <b>Background Treatment with Rosuvastatin 40 mg</b> |                    |                    |                    |                   |
| <b>Q2W</b>  |                    |                    |                    |                   |
| Placebo every 2 weeks (n = 56)                      | 10                 | 9                  | 5                  | 4                 |
| REPATHA 140 mg every 2 weeks <sup>†</sup> (n = 111) | -62                | -51                | -46                | -33               |
| Mean difference of REPATHA from placebo (95% CI)    | -71*<br>(-80, -63) | -60*<br>(-67, -52) | -51*<br>(-57, -44) | -38<br>(-42, -33) |
| <b>QM</b>   |                    |                    |                    |                   |
| Placebo once monthly (n = 55)                       | 3                  | 3                  | 3                  | 1                 |
| REPATHA 420 mg once monthly <sup>†</sup> (n = 112)  | -56                | -46                | -44                | -30               |
| Mean difference of REPATHA from placebo (95% CI)    | -59*<br>(-69, -48) | -50*<br>(-58, -41) | -47*<br>(-54, -39) | -31<br>(-37, -25) |
| <b>Background Treatment with Simvastatin 40 mg</b>  |                    |                    |                    |                   |
| <b>Q2W</b>  |                    |                    |                    |                   |
| Placebo every 2 weeks (n = 56)                      | 5                  | 2                  | 0                  | 0                 |
| REPATHA 140 mg every 2 weeks <sup>†</sup> (n = 112) | -69                | -59                | -56                | -42               |
| Mean difference of REPATHA from placebo (95% CI)    | -74*<br>(-80, -67) | -61*<br>(-67, -55) | -56*<br>(-61, -51) | -42<br>(-47, -38) |
| <b>QM</b>   |                    |                    |                    |                   |
| Placebo once monthly (n = 55)                       | 3                  | 6                  | 4                  | 1                 |
| REPATHA 420 mg once monthly <sup>†</sup> (n = 115)  | -59                | -51                | -49                | -36               |
| Mean difference of REPATHA from placebo (95% CI)    | -62*<br>(-71, -52) | -57*<br>(-65, -49) | -53*<br>(-59, -46) | -37<br>(-43, -31) |

<sup>a</sup> Calculated LDL-C.

Estimates are least squares means from a repeated measures model, which included treatment group, stratification factor, scheduled visit and the interaction of treatment with scheduled visit as covariates.

Inferential statistics for total cholesterol are not presented since it was an exploratory endpoint.

\* p < 0.0001 compared with placebo; type I error was controlled among all primary and secondary endpoints.

<sup>†</sup>140 mg every 2 weeks or 420 mg once monthly yield similar reductions in LDL-C

\*\*p < 0.0001 compared with ezetimibe; type I error was controlled among all primary and secondary endpoints.

In the DESCARTES study for these patients with primary hyperlipidemia on cholesterol-lowering diet alone, or on atorvastatin therapy with or without ezetimibe along with a cholesterol-lowering diet, the overall difference between REPATHA 420 mg once monthly and placebo in mean percent change in LDL-C from baseline to Week 52 was -59% (95% CI: -64%, -55%; p < 0.0001). For individual results see Table 8.

**Table 8. Effect of REPATHA on Lipid Parameters in Adult Patients with Primary Hyperlipidemia on Cholesterol-lowering Diet Alone, or Atorvastatin 10mg or 80 mg with or without Ezetimibe 10 mg daily along with a Cholesterol-lowering diet (Mean % Change from Baseline to Week 52 in DESCARTES)**

| Treatment Group   | LDL-C <sup>a</sup> | Non-HDL-C          | Apo B              | Total Cholesterol  |
|---|--------------------|--------------------|--------------------|--------------------|
| <b><i>Cholesterol-lowering Diet Alone</i></b>   |                    |                    |                    |                    |
| Placebo once monthly (n = 37)   | 11                 | 9                  | 0                  | 5                  |
| REPATHA 420 mg once monthly (n = 74)  | -53                | -45                | -43                | -31                |
| Mean difference of REPATHA from placebo (95% CI)  | -64*<br>(-72, -55) | -54*<br>(-62, -47) | -43*<br>(-50, -36) | -36*<br>(-42, -31) |
| <b><i>Background Treatment with Atorvastatin 10 mg and Cholesterol-lowering Diet</i></b>                  |                    |                    |                    |                    |
| Placebo once monthly (n = 129)  | 8                  | 9                  | 3                  | 5                  |
| REPATHA 420 mg once monthly (n = 254)   | -56                | -46                | -45                | -30                |
| Mean difference of REPATHA from placebo (95% CI)  | -64*<br>(-70, -59) | -55*<br>(-59, -50) | -48*<br>(-52, -43) | -35*<br>(-39, -32) |
| <b><i>Background Treatment with Atorvastatin 80 mg and Cholesterol-lowering Diet</i></b>                  |                    |                    |                    |                    |
| Placebo once monthly (n = 73)   | 11                 | 12                 | 5                  | 8                  |
| REPATHA 420 mg once monthly (n = 145)   | -47                | -38                | -39                | -25                |
| Mean difference of REPATHA from placebo (95% CI)  | -58*<br>(-69, -46) | -50*<br>(-60, -39) | -45*<br>(-53, -36) | -33*<br>(-40, -26) |
| <b><i>Background Treatment with Atorvastatin 80 mg, Ezetimibe 10 mg and Cholesterol-lowering Diet</i></b> |                    |                    |                    |                    |
| Placebo once monthly (n = 63)   | 3                  | 2                  | 1                  | 2                  |
| REPATHA 420 mg once monthly (n = 126)   | -46                | -39                | -37                | -27                |
| Mean difference of REPATHA from placebo (95% CI)  | -49*<br>(-60, -38) | -41*<br>(-51, -31) | -38*<br>(-46, -29) | -29*<br>(-36, -22) |

<sup>a</sup> Calculated LDL-C.

Estimates are least squares means from a repeated measures model, which included treatment group, stratification factor, scheduled visit and the interaction of treatment with scheduled visit as covariates.

\* p < 0.0001 compared with placebo; type I error was controlled among all primary and secondary endpoints.

In the GAUSS-2 study, the difference between REPATHA and ezetimibe in mean percent change in LDL-C from baseline to Week 12 was -39% (95% CI: -45%, -34%;  $p < 0.0001$ ) and -38% (95% CI: -43%, -33%;  $p < 0.0001$ ) for the 140 mg every 2 weeks and 420 mg once monthly dosages, respectively. For additional results see Table 9.

**Table 9. Effect of REPATHA on Lipid Parameters in Adult Patients with Primary Hyperlipidemia (Mean % Change from Baseline to Week 12 Compared to Ezetimibe in GAUSS-2)**

| Treatment Group  | LDL-C <sup>a</sup>  | Non-HDL-C           | Apo B               | Total Cholesterol |
|--|---------------------|---------------------|---------------------|-------------------|
| <b>Q2W</b>   |                     |                     |                     |                   |
| Ezetimibe 10 mg daily<br>(n = 51)                      | -18                 | -17                 | -13                 | -13               |
| REPATHA 140 mg every 2 weeks <sup>†</sup><br>(n = 103) | -57                 | -49                 | -46                 | -38               |
| Mean difference from Ezetimibe<br>(95% CI)             | -39**<br>(-45, -34) | -32**<br>(-37, -27) | -33**<br>(-38, -28) | -25<br>(-29, -21) |
| <b>QM</b>  |                     |                     |                     |                   |
| Ezetimibe 10 mg daily<br>(n = 51)                      | -15                 | -13                 | -10                 | -11               |
| REPATHA 420 mg once monthly <sup>†</sup><br>(n = 102)  | -53                 | -46                 | -43                 | -36               |
| Mean difference from Ezetimibe<br>(95% CI)             | -38**<br>(-43, -33) | -33**<br>(-37, -29) | -33**<br>(-38, -28) | -25<br>(-29, -22) |

<sup>a</sup> Calculated LDL-C.

Estimates are least squares means from a repeated measures model, which included treatment group, stratification factor, scheduled visit and the interaction of treatment with scheduled visit as covariates.

Inferential statistics for total cholesterol are not presented since it was an exploratory endpoint.

<sup>†</sup>140 mg every 2 weeks or 420 mg once monthly yield similar reductions in LDL-C

\*\* $p < 0.0001$  compared with ezetimibe; type I error was controlled among all primary and secondary endpoints.

## Acute Phase of Acute Coronary Syndrome (ACS)

### Effect on LDL-C During Acute Phase of Acute Coronary Syndrome (ACS)

#### Trial Design and Study Demographics

EVOPACS was a single country, multicentre, double-blind, randomized, placebo-controlled, 8-week study conducted on 308 patients admitted to the hospital within 24 to 72 hours of an ACS event. Overall, 57 (19%) of eligible patients were women and the mean (SD) age of patients was 60.8 (11.3) years.

If patients were not on a statin or were on statin treatment other than atorvastatin 40 mg prior to screening, this was stopped and atorvastatin 40 mg once daily was initiated. Most subjects (241 [78%]) were not on stable statin treatment for  $\geq 4$  weeks prior to screening and most (235 [76%]) were not taking a statin at baseline. By week 4, 281 (97%) subjects were receiving high-intensity statins.

## Study Results

At baseline, LDL-C values were 3.61 mmol/L in the evolocumab plus atorvastatin group and 3.42 mmol/L in the placebo plus atorvastatin group. At week 8, LDL-C values were 0.79 mmol/L in evolocumab plus atorvastatin group and 2.06 mmol/L in placebo plus atorvastatin group. The study met its primary objective for REPATHA 420 mg once monthly in significantly reducing LDL-C from baseline to week 8 compared to placebo ( $p < 0.001$ ). The mean (SD) reduction in calculated LDL-C from baseline at week 8 was 77.1% (15.8%) in the evolocumab plus atorvastatin group and 35.4% (26.6%) in the placebo plus atorvastatin group, with a least squares (LS) mean difference (95% CI) of 40.7% (36.2%, 45.2%). LDL-C reductions in this study were consistent with previous studies where evolocumab was added to stable lipid-lowering therapy.

The effects of evolocumab in this patient population were consistent with those observed in previous studies in the evolocumab clinical development program and no new safety concerns were noted.

## Heterozygous Familial Hypercholesterolemia (HeFH) in Pediatric Patients (10 to 17 years of age)

### Effect of REPATHA on LDL-C in Pediatric Patients with HeFH

#### Trial Design and Study Demographics

Table 10. Summary of Trial Design and Patient Demographics

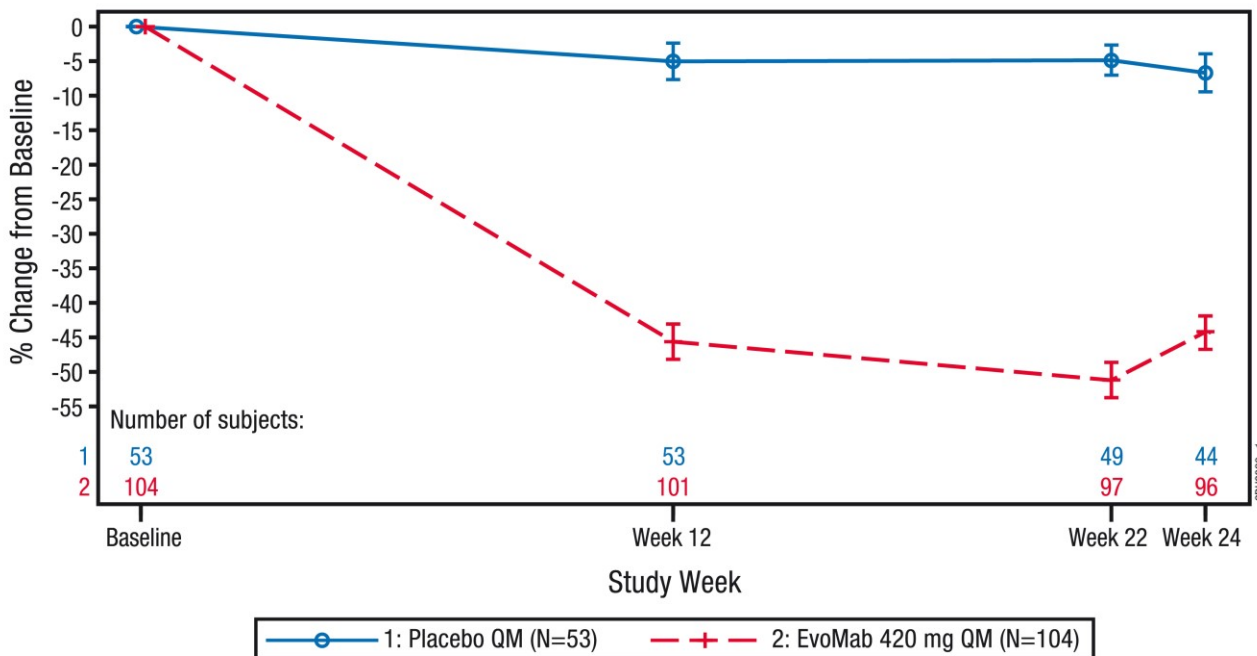
| Study #    | Trial design   | Dosage, Route of Administration and Duration | Study subjects (n) | Mean age (Range) | Gender        |
|------------|--|--|--------------------|------------------|---------------|
| HAUSER-RCT | Randomized, multicentre, placebo-controlled, double-blind, parallel group, 24 week study | REPATHA 420 mg SC QM<br>Placebo SC QM        | 157                | 13.7<br>(10-17)  | 56.1% females |

HAUSER-RCT was a randomized, multicentre, placebo-controlled, double-blind, parallel group, 24-week study in 157 pediatric patients aged 10 to 17 years old with HeFH. HeFH was diagnosed by diagnostic criteria (Simon Broome Register Group [1991], the Dutch Lipid Clinic Network [1999], MEDPED [1993] or by genetic testing. Patients were required to be on a low-fat diet and were receiving optimized background lipid-lowering therapy (statin with or without ezetimibe). Patients were randomly assigned 2:1 to receive Repatha (420 mg evolocumab once monthly subcutaneously;  $n=104$ ) or placebo ( $n=53$ ) for 24 weeks. Patients' mean age was 14 years (range: 10 to 17 years): 56.1% of patients were female, 85% were white, 1% Black, 1% Asian and 8% were Hispanic or Latino. The mean LDL-C at baseline was 4.77 mmol/L.

## Study Results

Study HAUSER-RCT in pediatric patients aged 10 to under 17 with HeFH, met its primary endpoint; the difference between REPATHA and placebo in mean percent change in LDL-C from baseline to Week 24 was -38% (95% CI: -46%, -31%). For additional results, see Figure 3 and Table 11.

**Figure 3. Effect of REPATHA on Calculated LDL-C in Pediatric Patients with HeFH – Mean Percent Change from Baseline by Scheduled Visit and Treatment Group (HAUSER-RCT)**



EvoMab = evolocumab; LDL-C = low density lipoprotein cholesterol; QM = monthly (subcutaneous)

N = number of patients randomized and dosed in the full analysis set.

Vertical lines represent the standard error around the mean. Plot is based on observed data and no imputation is used for missing values.

**Table 11. Effect of REPATHA on Lipid Parameters in Pediatric Patients with HeFH (Mean Percent Change from Baseline to Week 24 in HAUSER-RCT)**

| Treatment Group  | LDL-C <sup>a</sup> | Non-HDL-C         | ApoB              | Total Cholesterol |
|--|--------------------|-------------------|-------------------|-------------------|
| Placebo once monthly (n = 53)                                | -6                 | -6                | -2                | -5                |
| % change from baseline                                       |                    |                   |                   |                   |
| REPATHA 420 mg once monthly (n = 104)                        | -44                | -41               | -35               | -32               |
| % change from baseline                                       |                    |                   |                   |                   |
| Mean difference in % change of REPATHA from placebo (95% CI) | -38<br>(-45, -31)  | -35<br>(-42, -28) | -32<br>(-39, -26) | -27<br>(-32, -21) |

<sup>a</sup> Calculated LDL-C.

All adjusted p-values < 0.0001

CI = Confidence Interval; LDL-C = low density lipoprotein cholesterol; HDL-C = high density lipoprotein cholesterol;

ApoB = apolipoprotein B

n = number of patients randomized and dosed in the full analysis set

## Homozygous Familial Hypercholesterolemia (HoFH)

### Trial Design and Study Demographics

**Table 12. Summary of Trial Design and Patient Demographics**

| Study #    | Trial design  | Dosage, Route of Administration and Duration | Study subjects (n)              | Mean age (Range) | Gender        |
|------------|---|--|---------------------------------|------------------|---------------|
| TESLA      | Double-blind, randomized, placebo-controlled 12-week study  | REPATHA 420 mg QM<br>placebo SC QM           | 49                              | 34.3<br>(13-57)  | 25% females   |
| TAUSSIG    | Multicentre, Open-label 5-year extension study              | REPATHA 420 mg QM<br>REPATHA 420 mg Q2W      | 300 (14 pediatric, 286 adult)   | 47.5<br>(13-78)  | 44% females   |
| HAUSER-OLE | Ongoing, Open-label, single-arm, multicentre, 80 week study | REPATHA 420 mg SC QM                         | 12<br>(pediatric HoFH subjects) | 12.4<br>(11-17)  | 16.7% females |

Q2W = once every 2 weeks; QM = once monthly; SC = subcutaneously.

TESLA Part B was a multicentre, double-blind, randomized, placebo-controlled, 12-week trial in 49 HoFH patients (not on lipid-apheresis therapy), 33 of whom received REPATHA 420 mg once monthly and 16 of whom received placebo, as an adjunct to other lipid-lowering therapies (e.g., statins, ezetimibe, bile-acid sequestrants). The mean age at baseline was 31 years, 49% were female, 90% Caucasian, 4% were Asian, and 6% other. The trial included 10 adolescents (ages 13 to 17 years), 7 of whom received REPATHA.

The mean LDL-C at baseline was 9.0 mmol/L with all patients on statins and 92% on ezetimibe. The diagnosis of HoFH was made by genetic confirmation or a clinical diagnosis based on a history of an untreated LDL-C concentration > 12.9 mmol/L together with either xanthoma before 10 years of age or evidence of HeFH in both parents. Twenty-four (49%) participants had homozygous genetic defects, 24 (49%) participants had compound heterozygous genetic defects and one had heterozygous genetic defects; overall, the gene affected was the LDLR for 96%. The primary endpoint was percent change from baseline in LDL-C at week 12.

TAUSSIG was a multicentre, open-label 5-year extension study to assess the long-term safety and efficacy of REPATHA in patients with severe familial hypercholesterolemia (FH), including homozygous familial hypercholesterolemia (HoFH), who were treated with REPATHA as an adjunct to other lipid-lowering therapies. A total of 106 HoFH patients (72 non-apheresis and 34 apheresis) enrolled in TAUSSIG. All patients in the study were initially treated with REPATHA 420 mg once monthly except for those receiving lipid apheresis at enrollment, who began with REPATHA 420 mg every two weeks. Dose frequency in non-apheresis patients could be titrated up to 420 mg once every 2 weeks based on LDL-C response and PCSK9 levels. Of the 72 non-apheresis HoFH patients in TAUSSIG (who started on the 420 mg QM dose), 53 patients up-titrated to the 420 mg Q2W dose, with 48 of these 53 patients having received ≥ 12 weeks of both doses. The diagnosis of HoFH was made by genetic confirmation or a clinical diagnosis based on a history of an untreated LDL-C concentration > 13.0 mmol/L together with either xanthoma before 10 years of age or evidence of HeFH in both parents. The statistical analysis of efficacy data from this study is descriptive in nature, and no hypotheses were tested.



HAUSER-OLE was an open-label, single-arm, multicentre, 80-week study to evaluate the safety, tolerability and efficacy of REPATHA for LDL-C reduction that was designed to include pediatric patients aged 10 to under 18 years with HoFH. The diagnosis of HoFH was made by genetic confirmation in all patients. Patients were on a low-fat diet and receiving background lipid-lowering therapy (atorvastatin or rosuvastatin with or without ezetimibe). No patients were receiving lipid apheresis. Overall, 12 patients received 420 mg REPATHA subcutaneously once monthly. The mean age was 12 years (range 11 to 17 years), with 6 patients within the age range of 10-11 years, 83% were male, 75% were white, 17% Asian and 8% Other. Median LDL-C at baseline was 10.3 mmol/L.

### Study Results

In Part B of TESLA, REPATHA 420 mg once monthly significantly reduced LDL-C at week 12 as compared with placebo: mean percent change from baseline to Week 12 was -32% (95% CI: -45%, -19%;  $p < 0.001$ ). For additional information see Table 13.

**Table 13. Effect of REPATHA on Lipid Parameters in Patients with HoFH (Mean % Change from Baseline to Week 12 in TESLA)**

| Treatment Group                                  | LDL-C <sup>a</sup> | Non-HDL-C         | Apo B             | Total Cholesterol |
|--|--------------------|-------------------|-------------------|-------------------|
| Placebo once monthly (n = 16)                    | 9                  | 8                 | 4                 | 8                 |
| REPATHA 420 mg once monthly (n = 33)             | -23                | -22               | -19               | -19               |
| Mean difference of REPATHA from placebo (95% CI) | -32*<br>(-45,-19)  | -30<br>(-42, -18) | -23*<br>(-35,-11) | -27<br>(-38, -16) |

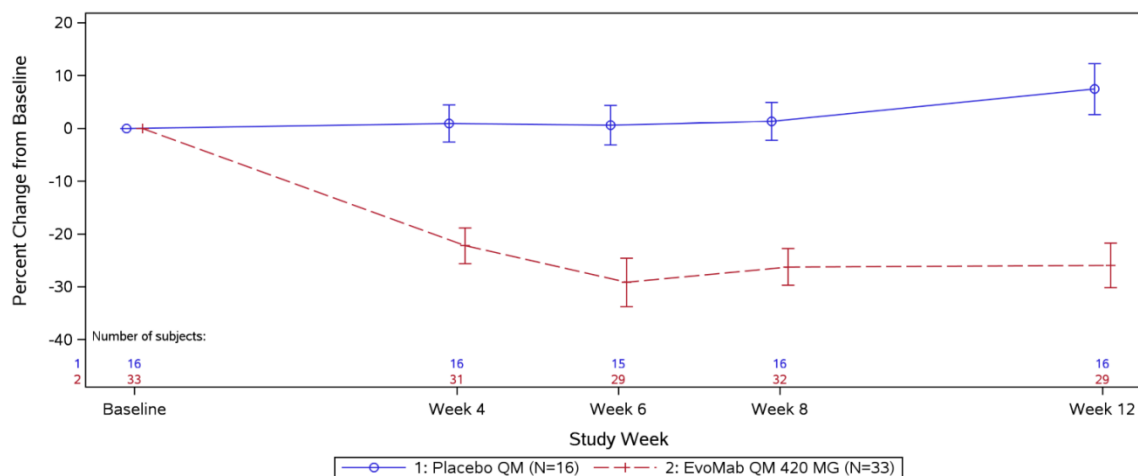
<sup>a</sup> Calculated LDL-C.

Estimates are least squares means from a repeated measures model, which included treatment group, screening LDL-C, scheduled visit and the interaction of treatment with scheduled visit as covariates.

Inferential statistics for non-HDL-C and total cholesterol are not presented since it was an exploratory endpoint.

\*  $p < 0.001$  compared with placebo; type I error was controlled among all primary and secondary endpoints.

**Figure 4. Effect of REPATHA on LDL-C in Patients with HoFH – Mean Percent Change from Baseline by Scheduled Visit and Treatment Group**



N = number of patients that were randomized and dosed in the full analysis set; EvoMab = Evolocumab; QM = monthly.

Vertical lines represent the standard error around the mean. Plot is based on observed data and no imputation is used for missing values.

#### *Long-term Study in Patients with HoFH*

In TAUSSIG, long-term use of REPATHA demonstrated a sustained treatment effect as evidenced by reduction of LDL-C in patients with HoFH (overall, non-apheresis and apheresis) (Table 14). Changes in other lipid parameters (total cholesterol, ApoB, and non-HDL-C,) also demonstrate a sustained effect of long-term REPATHA administration in patients with HoFH.

**Table 14. Effect of REPATHA on LDL-C in Patients with HoFH (Mean % Change from Baseline to OLE Week 48 in TAUSSIG)**

| Patient Population (N)      | OLE Week 12      | OLE Week 24     | OLE Week 36     | OLE Week 48     |
|-----------------------------|------------------|-----------------|-----------------|-----------------|
| HoFH (overall)<br>(N = 106) | -21<br>(n = 104) | -21<br>(n = 99) | -27<br>(n = 94) | -25<br>(n = 93) |
| Median                      | -18              | -22             | -27             | -26             |
| Range                       | -92, 38          | -74, 147        | -75, 36         | -76, 157        |
| Non-apheresis<br>(N = 72)   | -23<br>(n = 70)  | -26<br>(n = 69) | -31<br>(n = 65) | -28<br>(n = 64) |
| Median                      | -21              | -28             | -32             | -28             |
| Range                       | -85, 23          | -74, 147        | -75, 28         | -74, 157        |
| Apheresis<br>(N = 34)       | -18<br>(n = 34)  | -11<br>(n = 30) | -19<br>(n = 29) | -19<br>(n = 29) |
| Median                      | -15              | -17             | -13             | -14             |
| Range                       | -92, 38          | -58, 120        | -70, 36         | -76, 47         |

OLE = open-label extension

N (n) = Number of evaluable patients (N) and patients with observed LDL values at specific schedule visit (n) in the HoFH Final Analysis Set (overall non-apheresis and apheresis)

Values are calculated LDL-C.

A total of 48 patients were included in the HoFH Evolocumab Titration Analysis Set, which included non-apheresis patients who received evolocumab 420 mg QM for at least 12 weeks in the OLE study followed by evolocumab 420 mg Q2W for at least 12 weeks in the OLE study. Mean percent reductions from baseline in LDL-C were 20% at week 12 of QM treatment and 30% at week 12 of Q2W treatment.

Among 14 patients aged 13 to under 18 years with HoFH, mean percent reduction from baseline in LDL-C at OLE week 12 was 9.4%.

In HAUSER-OLE, in 12 patients aged 11 to under 18 years with HoFH, the median (Q1, Q3) percent change from baseline in calculated LDL-C at week 12 was -12% (-33, 2.6), at week 48 was -15% (-39, 3.7) and at week 80 was -14.3% (-40.6, 3.5).

## 14.2 Comparative Bioavailability Studies

Not Applicable.

## 14.3 Immunogenicity

As with all therapeutic proteins, there is potential for immunogenicity. The detection of anti-drug binding antibody formation is highly dependent on the sensitivity and specificity of the assay. Additionally, the observed incidence of antibody (including neutralizing antibody) positivity in an assay may be influenced by several factors, including assay methodology, sample handling, timing of sample collection, concomitant medications and underlying disease. For these reasons, comparison of the incidence of antibodies to evolocumab with incidence of antibodies in other studies or to other products may be misleading.

In a pool of clinical studies, 48 out of 17,992 adult patients (0.3%) treated with at least one dose of REPATHA tested positive for the development of anti-evolocumab binding antibodies. Of the patients whose sera tested positive for binding antibodies, none tested positive for neutralizing antibodies.

No anti-evolocumab antibodies were detected in clinical studies of pediatric patients treated with REPATHA.

There was no evidence of impact of anti-evolocumab antibody development on the pharmacokinetic profile, clinical response or safety of REPATHA in the clinical studies.

## 15 MICROBIOLOGY

No microbiological information is required for this drug product.

## 16 NON-CLINICAL TOXICOLOGY

### General Toxicology

No adverse effects were observed in cynomolgus monkeys administered vehicle control or evolocumab at 3, 30, or 300 mg/kg SC QW for 6 months followed by a 25 week recovery period. The NOAEL for evolocumab was 300 mg/kg QW, which corresponds to a  $C_{max}$  and  $AUC_{0-168}$  at the end of the study of 11,700 mcg/mL and 1,730,000 mcg•hr/mL. This evolocumab dose level provided an AUC exposure 133-fold higher than achieved in patients receiving evolocumab at 420 mg Q2W.

In addition, no adverse effects were noted in hamsters administered vehicle control or evolocumab at 100 and 300 mg/kg QW SC for 3 months. The NOAEL for this study was 300 mg/kg, which corresponds to a  $C_{max}$  of 2,080 mcg/mL and  $AUC_{0-168}$  of 266,000 mcg•hr/mL. This evolocumab dose level provided an AUC exposure 21-fold higher than achieved in patients receiving evolocumab at 420 mg Q2W.

The intended pharmacological effect of decreased serum LDL-C and total cholesterol was observed in these studies and was reversible upon cessation of treatment.

No adverse effects were observed when evolocumab was administered in combination with rosuvastatin to cynomolgus monkeys given rosuvastatin alone (5 mg/kg; administered QD orally in a gelatin capsule), a combination of evolocumab (10 mg/kg; administered SC Q2W) and rosuvastatin (5 mg/kg; administered QD orally), or a combination of evolocumab (100 mg/kg; administered SC Q2W) and rosuvastatin (5 mg/kg; administered QD orally). The NOAEL was the highest dose level tested (100 mg/kg evolocumab with 5 mg/kg rosuvastatin), which corresponded to evolocumab  $C_{max}$  and  $AUC_t$  values on study day 85 of 1740 mcg/mL and 248000 mcg•hr/mL, respectively, and rosuvastatin  $C_{max}$  and  $AUC_t$  values of 15.7 ng/mL and 184 ng•hr/mL, respectively. Reductions in serum LDL-C and total cholesterol were more pronounced than observed previously with evolocumab alone and were reversible upon cessation of treatment.

## **Carcinogenicity**

In a lifetime pharmacology study, hamsters received vehicle control or evolocumab administered SC, Q2W at 10, 30, or 100 mg/kg until terminal necropsy in week 86 (females) or week 105 (males). The expected PD effect (serum LDL-C lowering) was observed in all evolocumab dose groups throughout the study. Evolocumab was not carcinogenic in hamsters in this study. This evolocumab dose level provided an AUC exposure 7-fold higher than achieved in patients receiving evolocumab at 420 mg Q2W.

## **Genotoxicity**

Genotoxicity and mutagenicity studies were not conducted.

## **Reproductive and Developmental Toxicology**

Male and female hamsters were administered vehicle control or evolocumab at 10, 30 or 100 mg/kg SC Q2W before cohabitation (males for 4 weeks; females for 2 weeks) and through mating and implantation. Evolocumab administration did not result in any effects on mating, fertility, estrous cycling, male reproductive assessments (organ weights or sperm parameters), or embryo-fetal survival. In sexually mature cynomolgus monkeys, no effects were observed on reproductive organ weight or histopathology, menstrual cycling or sperm parameters following administration of evolocumab at 3, 30, or 300 mg/kg SC QW for 6 months.

Cynomolgus monkeys were administered 0 or 50 mg/kg evolocumab by SC injection once between GD20 to GD22 (dependent on pregnancy determination), on GD35, and Q2W thereafter through gestation until parturition. Embryo-fetal and post-natal development (including skeletal, neurobehavioural and external/ visceral assessments) were not affected in offspring of pregnant cynomolgus monkeys administered. Treated mothers displayed up to a 70% reduction in serum LDL-C compared to control females. Offspring of evolocumab treated mothers were exposed to therapeutic levels of evolocumab via placental transfer and displayed no reductions in serum LDL-C. The developmental no observed effect level (NOEL) was 50 mg/kg Q2W. This evolocumab dose level provided an AUC exposure 5-fold higher than achieved in patients receiving evolocumab at 420 mg Q2W.

## PATIENT MEDICATION INFORMATION

### READ THIS FOR SAFE AND EFFECTIVE USE OF YOUR MEDICINE

PrRepatha®

evolocumab injection

Single-use Prefilled SureClick® Autoinjector

Read this carefully before you or your child start taking **REPATHA** and each time you get a refill. This leaflet is a summary and will not tell you everything about this drug. Talk to your healthcare professional about your medical condition and treatment and ask if there is any new information about **REPATHA**. Keep this leaflet, as you may need to read it again.

#### What is REPATHA used for?

REPATHA is used:

- along with diet and in combination with usual therapy, including cholesterol-lowering medications called statins, to reduce the risk of heart attack, stroke, and certain heart procedures (to restore blood flow to the heart) in adult patients who have cardiovascular disease by further lowering low-density lipoprotein (LDL) cholesterol.
- along with diet, alone or together with other cholesterol-lowering therapies, in adults with primary hyperlipidemia (high LDL cholesterol level in your blood) to reduce LDL cholesterol.
- along with diet and other cholesterol-lowering therapies, to reduce LDL cholesterol in people 10 years and older who need additional lowering of the high LDL cholesterol in their blood because of a condition that runs in their family (heterozygous familial hypercholesterolemia [HeFH]).
- along with diet and other cholesterol-lowering therapies, to reduce LDL cholesterol in people 10 years and older who need additional lowering of the high LDL cholesterol in their blood because of a condition that runs in their family (homozygous familial hypercholesterolemia [HoFH]).

#### How does REPATHA work?

REPATHA is a medicine used to lower levels of cholesterol. REPATHA lowers levels of total cholesterol, “bad” cholesterol (LDL cholesterol), and fatty substances called triglycerides in the blood. In addition, REPATHA raises levels of “good” cholesterol (HDL cholesterol).

Evolocumab, the active ingredient of REPATHA, works by helping the liver’s ability to remove bad cholesterol from the blood. Cholesterol is one of several fatty substances found in the bloodstream. Your total cholesterol is made up mainly of LDL and HDL cholesterol. LDL cholesterol is often called “bad” cholesterol because it can build up in the walls of your arteries forming plaque. Eventually this plaque build-up can lead to a narrowing of the arteries. This narrowing can slow or block blood flow to vital organs such as the heart and brain. This blocking of blood flow can result in a heart attack or stroke and can cause other health problems. HDL cholesterol is often called “good” cholesterol because it helps keep the bad cholesterol from building up in the arteries and protects against heart disease. Triglycerides are another form of fat in your blood that may increase your risk of heart disease.

## What are the ingredients in REPATHA?

Medicinal ingredients: evolocumab

Non-medicinal ingredients: glacial acetic acid, polysorbate 80, proline, sodium hydroxide and water for injection. The autoinjector is not made with natural rubber latex.

## REPATHA comes in the following dosage forms:

REPATHA is available in the presentations listed below. Your doctor will prescribe the type that is best for you or your child.

- 1 mL single-use prefilled autoinjector (SureClick®). Each 1 mL prefilled autoinjector contains 140 mg of evolocumab (140 mg/mL).
- 3.5 mL prefilled cartridge with an automated mini-doser (AMD). Each 3.5 mL prefilled cartridge contains 420 mg of evolocumab (120 mg/mL).
- 1 mL single-use prefilled syringe\*. Each 1 mL prefilled syringe\* contains 140 mg of evolocumab (140 mg/mL).

## Do not use REPATHA if:

- You or your child have ever had an allergic reaction to REPATHA or any of the ingredients in REPATHA.

**To help avoid side effects and ensure proper use, talk to your healthcare professional before you or your child take REPATHA. Talk about any health conditions or problems you or your child may have, including if you or your child:**

- Use REPATHA together with a statin and other cholesterol lowering medicines, please read the package leaflet of that particular medicine.

## Other warnings you should know about:

### Children and adolescents

The use of REPATHA has been studied in children 10 years of age and older being treated for heterozygous or homozygous familial hypercholesterolemia.

The use of REPATHA has not been studied in children under 10 years of age or in children with other types of hypercholesterolemia.

### Pregnancy and Breastfeeding

REPATHA has not been tested in pregnant women. It is not known if REPATHA will harm your unborn baby.

If you are trying to get pregnant or think you may be pregnant when taking REPATHA:

- Inform your doctor
- If you are also taking a statin along with REPATHA, stop taking REPATHA and read the package leaflet of the statin that you are taking with REPATHA

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\* Prefilled syringes are not available in Canada

Women who become pregnant during REPATHA treatment, or their healthcare provider, are encouraged to call Amgen at 1-866-502-6436 to report the pregnancy.

It is not known whether REPATHA is found in breast milk. It is important to tell your doctor if you are breastfeeding or plan to do so. Your doctor will then help you decide whether to stop breastfeeding, or whether to stop taking REPATHA, considering the benefit of breastfeeding to the baby and the benefit of REPATHA to the mother.

**Tell your healthcare professional about all the medicines you or your child take, including any drugs, vitamins, minerals, natural supplements or alternative medicines.**

**The following may interact with REPATHA:**

No important drug interactions have been identified for REPATHA. No drug-drug interaction studies have been carried out for REPATHA.

**How to take REPATHA:**

REPATHA is given as an injection under the skin (subcutaneous or SC). REPATHA is available in the presentations listed below. Your doctor will prescribe the type that is best for you or your child.

- Single-use prefilled autoinjector (SureClick®)
- Single-use automated mini-doser
- Single-use prefilled syringe\*

If your doctor decides that you or your child or a caregiver (e.g. parent) can give the injections of REPATHA, you or your child or your caregiver should receive training on the right way to prepare and inject REPATHA. Do not try to inject REPATHA until you or your child have been shown the right way by your healthcare provider.

- When using the prefilled autoinjector (SureClick®), place the correct (yellow) end of the autoinjector on the skin before injecting (Please see the detailed Instructions for Use below).

Always take REPATHA exactly as your doctor has told you or your child. Check with your doctor if you are not sure.

- Before starting REPATHA, you or your child should be on a diet to lower cholesterol.
- You or your child should stay on this cholesterol lowering diet while taking REPATHA.

If your doctor has prescribed REPATHA along with a statin or other cholesterol lowering medicine for you or your child, follow your doctor's instructions on how to take these medicines together. In this case, please read the dosage instructions in the package leaflet of the other medicines.

Ask your doctor if you or your child have any further questions on how to use REPATHA.

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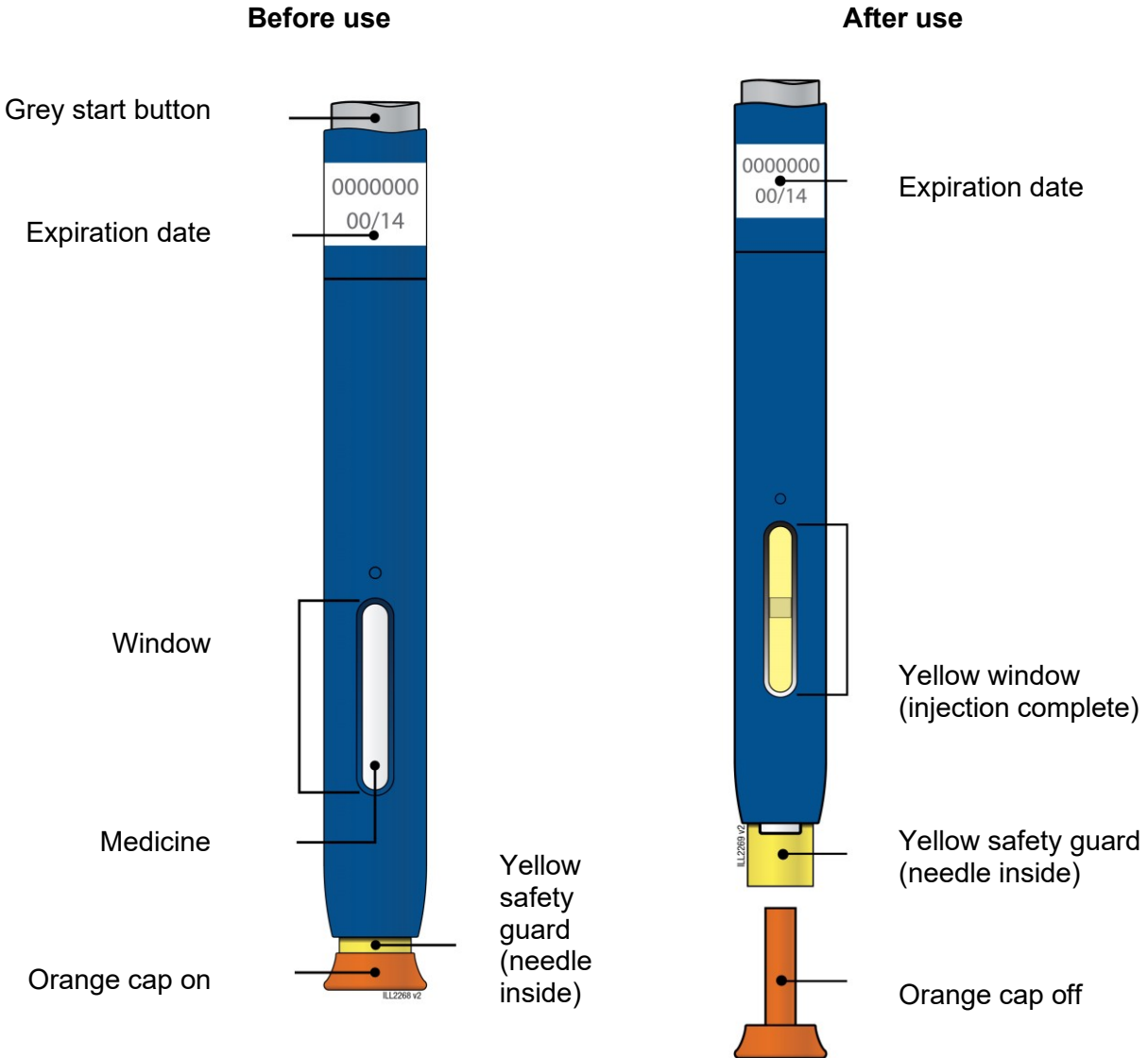
\* Prefilled syringes are not available in Canada



## REPATHA Single-Use Prefilled SureClick® Autoinjector

The following instructions are for preparing and giving an injection of REPATHA using a single-use prefilled SureClick® autoinjector.

### Guide to Parts



**Important: Needle is inside the yellow safety guard**

## Important

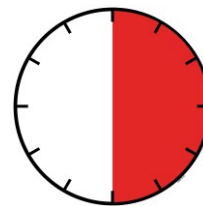
### Before you use the REPATHA SureClick® autoinjector, read this important information:

- Keep the REPATHA SureClick® autoinjector in original carton to protect from light during storage.
- The REPATHA SureClick® autoinjector should be kept in the refrigerator (2°C to 8°C).
- It is important that you do not try to give yourself the injection unless you have received training from your healthcare provider.
- The REPATHA SureClick® autoinjector is not made with natural rubber latex.
- Keep the REPATHA SureClick® autoinjector out of sight and reach of children.
- **Do not** freeze or use the REPATHA SureClick® autoinjector if it has been frozen.
- **Do not** shake the REPATHA SureClick® autoinjector.
- **Do not** remove the orange cap from the REPATHA SureClick® autoinjector until you are ready to inject.
- **Do not** use the REPATHA SureClick® autoinjector if it has been dropped on a hard surface. Part of the REPATHA SureClick® autoinjector may be broken even if you cannot see the break. Use a new REPATHA SureClick® autoinjector.
- **Do not** use the REPATHA SureClick® autoinjector after the expiration date.

A healthcare provider familiar with REPATHA should be able to answer your questions. For more information, contact the RepathaREADY® Support Program at 1-888-Repatha (1-888-737-2842) or visit [www.repatha.ca](http://www.repatha.ca).

### Step 1: Prepare

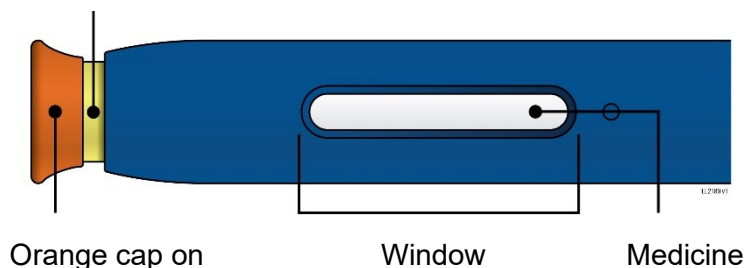
- A.** Remove one REPATHA SureClick® autoinjector from the package.
1. Carefully lift the autoinjector straight up out of the box.
  2. Put the original package with any unused autoinjectors back in the refrigerator.
  3. Wait at least 30 minutes for the autoinjector to naturally reach room temperature before injecting.
    - **Do not** try to warm the autoinjector by using a heat source such as hot water or microwave.
    - **Do not** leave the autoinjector in direct sunlight.
    - **Do not** shake the autoinjector.
    - **Do not** remove the orange cap from the autoinjector yet.



**30 minutes**

**B. Inspect the REPATHA SureClick® autoinjector.**

Yellow safety guard (needle inside)



**Make sure the medicine in the window is clear and colourless to slightly yellow.**

**Check the expiration date.**

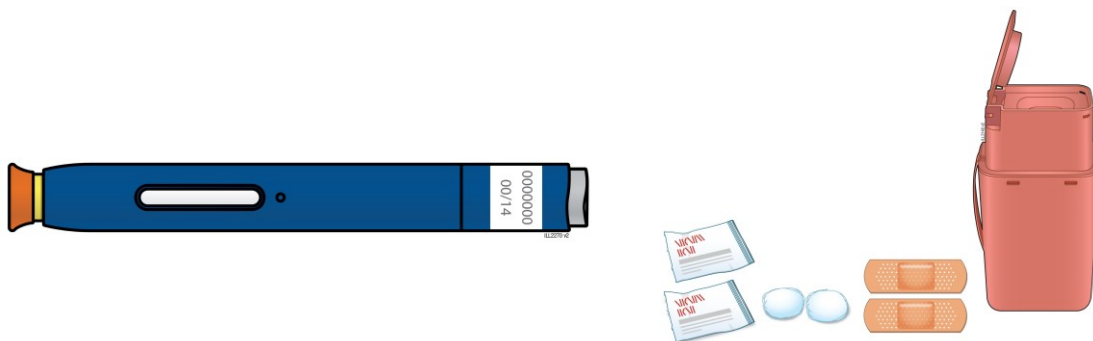
- **Do not** use autoinjector if medicine is cloudy or discoloured or contains large lumps, flakes, or particles.
- **Do not** use autoinjector if any part appears cracked or broken.
- **Do not** use autoinjector if the autoinjector has been dropped.
- **Do not** use autoinjector if the orange cap is missing or not securely attached.
- **Do not** use autoinjector if the expiration date has passed.

In all cases, use a new autoinjector, and contact the RepathaREADY® Support Program at 1-888-Repatha (1-888-737-2842).

**C. Gather all materials needed for your injection.**

Wash your hands thoroughly with soap and water. **On a clean, well-lit work surface, place the:**

- New autoinjector
- Alcohol wipes
- Cotton ball or gauze pad
- Adhesive bandage
- Sharps disposal container (see **Step 4: Finish**)



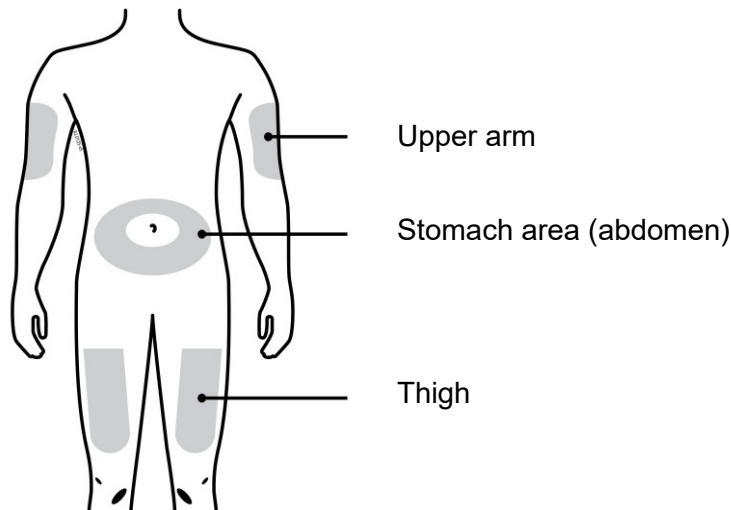
D. Prepare and clean your injection site.

**Only use these injection sites:**

- Thigh
- Stomach area (abdomen), except for a **five** centimeter (two inch) area around your belly button
- Outer area of upper arm (only if someone else is giving you the injection)

Clean the injection site with an alcohol wipe. Let your skin dry.

- **Do not** touch this area again before injecting.
- Choose a different site each time you give yourself an injection. If you need to use the same injection site, just make sure it is not the same spot on that site you used last time.
- **Do not** inject into areas where the skin is tender, bruised, red, or hard. Avoid injecting into areas with scars or stretch marks.



**Step 2: Get ready**

E. Pull the orange cap straight off, only when you are ready to inject. **Do not** leave the orange cap off for more than five **minutes**. This can dry out the medicine and may clog the needle when you take the injection.



Orange cap

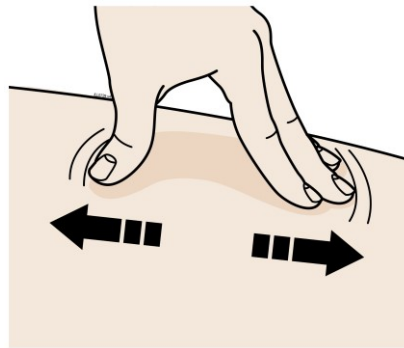
It is normal to see a drop of liquid at the end of the needle or yellow safety guard.

- **Do not** twist, bend, or wiggle the orange cap.
- **Do not** put the orange cap back onto the autoinjector.
- **Do not** put fingers into the yellow safety guard.
- **Do not** remove the orange cap from the autoinjector until you are ready to inject.

If you are unable to inject, please contact your healthcare provider.

- F. Create a firm surface at the selected injection site (thigh, stomach, or outer areas of the upper arm), by using **either** the Stretch method **or** the Pinch method.

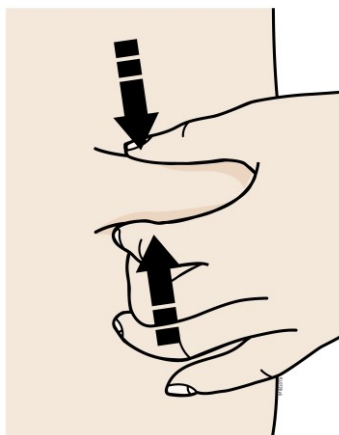
**Stretch Method:**



Stretch the skin firmly by moving your thumb and fingers in opposite directions, creating an area about five centimeters (two inches) wide.

**OR**

**Pinch Method:**

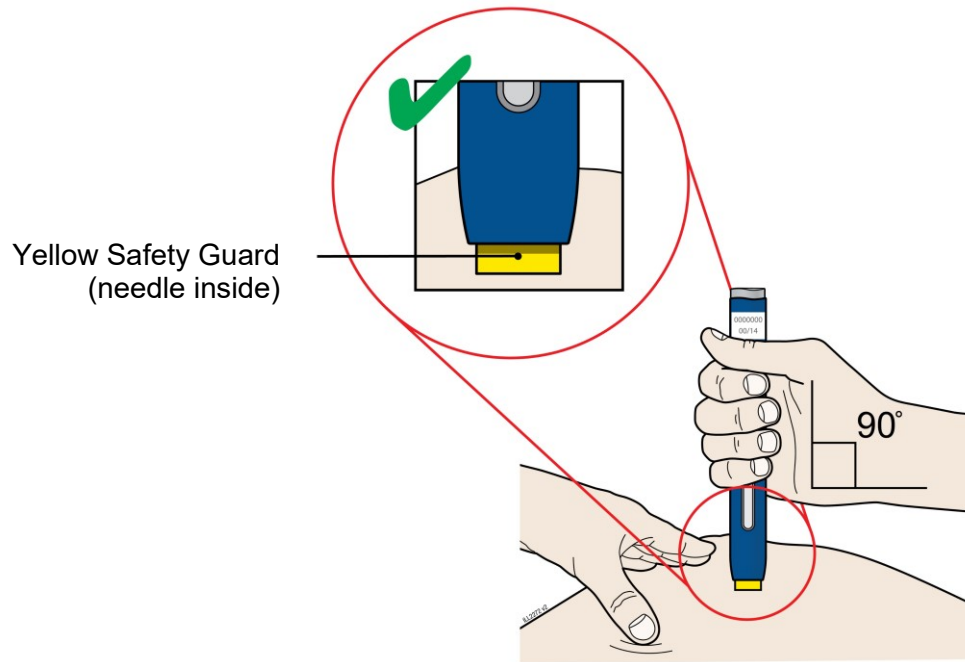


Pinch the skin firmly between your thumb and fingers, creating an area about five centimeters (two inches) wide.

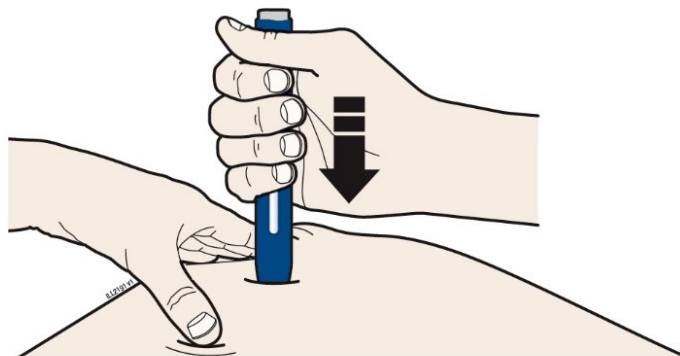
**Important:** It is important to keep skin stretched or pinched while injecting.

### Step 3: Inject

- G. Keep holding the stretched or pinched skin. With the orange cap off, **put** the yellow safety guard on your skin at 90 degrees. The **needle is inside** the yellow safety guard. Do not touch the grey start button yet.

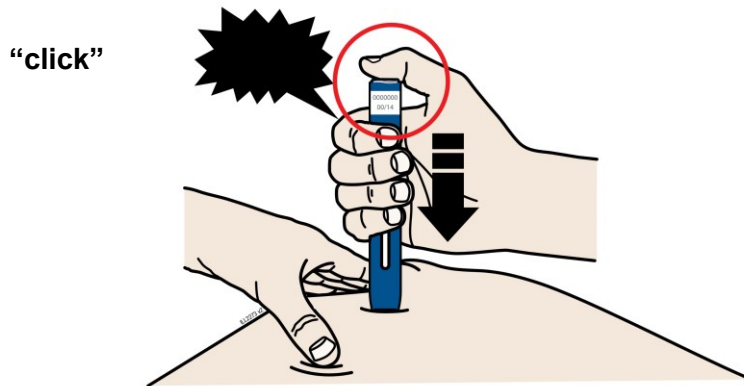


- H. Firmly **push** down autoinjector onto skin until it stops moving.

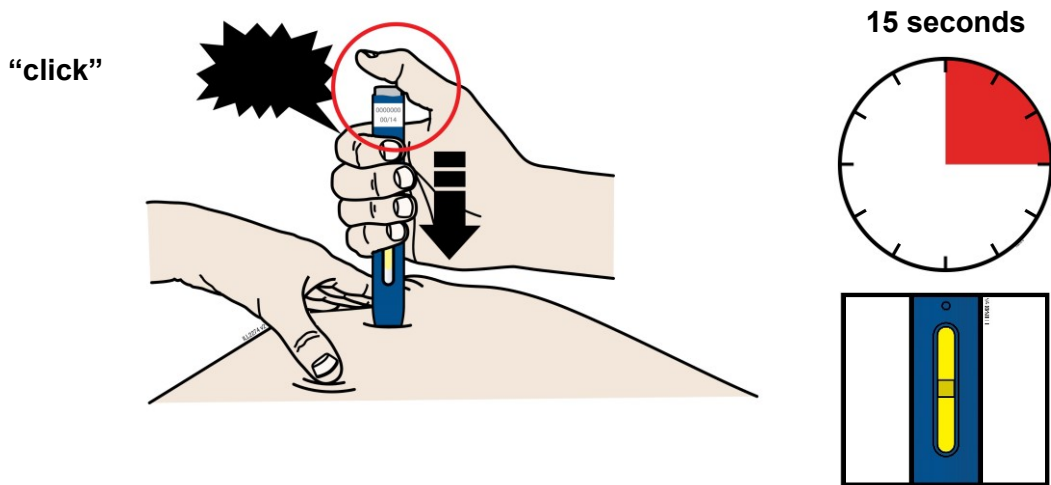


**Important:** You must push all the way down but **do not** touch the grey start button until you are ready to inject.

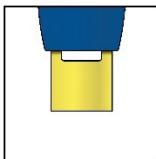
- I. When you are ready to inject, **press** the grey start button. You will hear a click.



- J. Keep **pushing** down on skin. Then **lift** your thumb while still holding the autoinjector on your skin. Your injection could take about 15 seconds.



Window turns from clear to yellow when the injection is done. You may hear a second click.

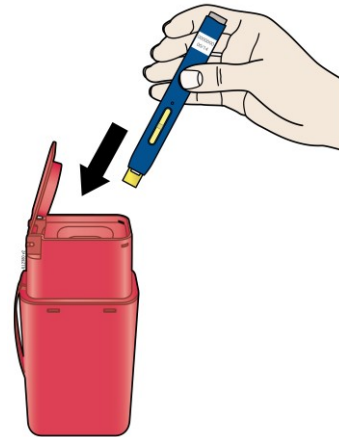


**NOTE:** After you remove the autoinjector from your skin, the needle will be automatically covered.

#### Step 4: Finish

- K. Discard the used autoinjector and orange needle cap.

Discard the used autoinjector and the orange cap in a sharps disposal container.



Talk with your healthcare provider about proper disposal. There may be local guidelines for disposal.

Keep the autoinjector and the sharps disposal container out of the sight and reach of children.

- **Do not** reuse the autoinjector
- **Do not** recap the autoinjector or put fingers into the yellow safety guard
- **Do not** recycle the autoinjector or sharps disposal container or throw them into household trash

- L. Examine the injection site.

If there is blood, press a cotton ball or gauze pad on your injection site. **Do not** rub the injection site. Apply an adhesive bandage if needed.

#### Commonly Asked Questions:

##### **What will happen if I press the grey start button before I am ready to do the injection on my skin?**

You can lift your finger up off the grey start button and place the prefilled autoinjector back on your injection site. Then, you can push the grey start button again.

##### **Can I move the autoinjector around on my skin while I am choosing an injection site?**

It is okay to move the autoinjector around on the injection site as long as you **do not** press the grey start button. However, if you press the grey start button and the yellow safety guard is pushed into the autoinjector, the injection will begin.

##### **Can I release the grey start button after I start my injection?**

You can release the grey start button, but continue to hold the autoinjector firmly against your skin during the injection.



### **Will the grey start button pop up after I release my thumb?**

The grey start button may not pop up after you release your thumb if you held your thumb down during the injection. This is okay.

### **What do I do if I did not hear a second click?**

If you did not hear a second click, you can confirm a complete injection by checking that the window has turned yellow.

### **Whom do I contact if I need help with the autoinjector or my injection?**

A healthcare provider familiar with REPATHA should be able to answer your questions. For more information, contact the RepathaREADY® Support Program at 1-888-Repatha (1-888-737-2842) or visit [www.repatha.ca](http://www.repatha.ca).

### **Usual dose:**

*Prevention of Cardiovascular Events and Primary Hyperlipidemia in Adult Patients (including HeFH and atherosclerotic cardiovascular disease) and HeFH in Pediatric Patients (aged 10 years and older)*

The usual dose for REPATHA is 140 mg every 2 weeks or 420 mg once monthly. If you or your child and your doctor have decided that you should switch from one dosing regimen to the other, take the first dose of the new regimen on the day you were scheduled to take the previous one.

#### *Homozygous Familial Hypercholesterolemia*

Adult and Pediatric Patients (aged 10 years and older): The usual dose for REPATHA is 420 mg, either once monthly or every 2 weeks. If you or your child are on apheresis you may initiate treatment with 420 mg every 2 weeks to correspond with your apheresis schedule.

### **Overdose:**

If you think you, or a person you are caring for, have taken too much REPATHA, contact a healthcare professional, hospital emergency department, or regional poison control centre immediately, even if there are no symptoms.

### **Missed Dose:**

If you or your child forget to take your every 2 week or once monthly dose of REPATHA or are not able to take the dose at the regular time, administer your missed dose as soon as you remember, as long as there are more than 7 days until your next scheduled dose. If there are 7 days or less until your next scheduled dose, administer the next dose according to the original schedule. This will put you back on your original schedule. If you or your child are not sure when to take REPATHA after a missed dose, ask your healthcare provider or pharmacist.

### **What are possible side effects from using REPATHA?**

Like all medicines, REPATHA can cause side effects, although not everybody gets them. REPATHA may cause allergic reactions. Call your healthcare provider or go to the nearest hospital emergency room right away if you or your child have any symptoms of an allergic reaction including a severe rash, redness, severe itching, a swollen face or trouble breathing.

The following are not all the possible side effects you or your child may have when taking REPATHA. If you or your child have a troublesome symptom or side effect that is not listed here or becomes bad enough to interfere with your daily activities, tell your healthcare professional.

- Flu or flu-like symptoms (high temperature, sore throat, runny nose, cough and chills)
- Common cold, such as runny nose, sore throat or sinus infections (nasopharyngitis or upper respiratory tract infections)
- Nausea
- Back pain
- Joint pain (arthralgia)
- Muscle pain (myalgia), with or without associated muscle weakness
- Injection site reactions (redness, bruising, pain, swelling, or bleeding)
- Allergic reactions including rash, hives, red itchy bumps on your skin (urticaria), and in rare cases, swelling of face, mouth, tongue or throat (angioedema)

### **Reporting Side Effects**

You can report any suspected side effects associated with the use of health products to Health Canada by:

- Visiting the Web page on Adverse Reaction Reporting (<https://www.canada.ca/en/health-canada/services/drugs-health-products/medeffect-canada.html>) for information on how to report online, by mail or by fax; or
- Calling toll-free at 1-866-234-2345.

*NOTE: Contact your health professional if you need information about how to manage your side effects. The Canada Vigilance Program does not provide medical advice.*

### **Storage:**

Store in a refrigerator at 2°C to 8°C in the original carton. When removed from the refrigerator, REPATHA should be kept at controlled room temperature (up to 25°C) in the original carton and must be used within 30 days. Protect REPATHA from direct light and do not expose to temperatures above 25°C. Do not freeze. Do not shake.

Keep REPATHA and all medicines out of the reach and sight of children.

Do not throw away any medicines via wastewater or household waste. Ask your doctor or pharmacist how to throw away medicines you no longer use.

**If you want more information about REPATHA:**

- Talk to your healthcare professional
- Find the full product monograph that is prepared for healthcare professionals and includes this Patient Medication Information by visiting the Health Canada website: (<https://www.canada.ca/en/health-canada/services/drugs-health-products/drug-products/drug-product-database.html>); the RepathaREADY<sup>®</sup> Support Program at 1-888-Repatha (1-888-737-2842) or by visiting [www.repatha.ca](http://www.repatha.ca).

This leaflet was prepared by Amgen Canada Inc.

Last Revised: July 2024

## PATIENT MEDICATION INFORMATION

### READ THIS FOR SAFE AND EFFECTIVE USE OF YOUR MEDICINE

PrRepatha®

evolocumab injection

#### Single-use Prefilled Cartridge with Automated Mini-Doser (AMD)

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REPATHA is used:

- along with diet and in combination with usual therapy, including cholesterol-lowering medications called statins, to reduce the risk of heart attack, stroke, and certain heart procedures (to restore blood flow to the heart) in adult patients who have cardiovascular disease by further lowering low-density lipoprotein (LDL) cholesterol.
- along with diet, alone or together with other cholesterol-lowering therapies, in adults with primary hyperlipidemia (high LDL cholesterol level in your blood) to reduce LDL cholesterol.
- along with diet and other cholesterol-lowering therapies, to reduce LDL cholesterol in people 10 years and older who need additional lowering of the high LDL cholesterol in their blood because of a condition that runs in their family (heterozygous familial hypercholesterolemia [HeFH]).
- along with diet and other cholesterol-lowering therapies, to reduce LDL cholesterol in people 10 years and older who need additional lowering of the high LDL cholesterol in their blood because of a condition that runs in their family (homozygous familial hypercholesterolemia [HoFH]).

#### How does REPATHA work?

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## What are the ingredients in REPATHA?

Medicinal ingredients: evolocumab

Non-medicinal ingredients: glacial acetic acid, polysorbate 80, proline, sodium hydroxide and water for injection. The automated mini-doser is not made with natural rubber latex.

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## Other warnings you should know about:

### Children and adolescents

The use of REPATHA has been studied in children 10 years of age and older being treated for heterozygous or homozygous familial hypercholesterolemia.

The use of REPATHA has not been studied in children under 10 years of age or in children with other types of hypercholesterolemia.

### Pregnancy and Breastfeeding

REPATHA has not been tested in pregnant women. It is not known if REPATHA will harm your unborn baby.

If you are trying to get pregnant or think you may be pregnant when taking REPATHA:

- Inform your doctor
- If you are also taking a statin along with REPATHA, stop taking REPATHA and read the package leaflet of the statin that you are taking with REPATHA

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\* Prefilled syringes are not available in Canada

Women who become pregnant during REPATHA treatment, or their healthcare provider, are encouraged to call Amgen at 1-866-502-6436 to report the pregnancy.

It is not known whether REPATHA is found in breast milk. It is important to tell your doctor if you are breastfeeding or plan to do so. Your doctor will then help you decide whether to stop breastfeeding, or whether to stop taking REPATHA, considering the benefit of breastfeeding to the baby and the benefit of REPATHA to the mother.

**Tell your healthcare professional about all the medicines you or your child take, including any drugs, vitamins, minerals, natural supplements or alternative medicines.**

**The following may interact with REPATHA:**

No important drug interactions have been identified for REPATHA. No drug-drug interaction studies have been carried out for REPATHA.

**How to take REPATHA:**

REPATHA is given as an injection under the skin (subcutaneous or SC). REPATHA is available in the presentations listed below. Your doctor will prescribe the type that is best for you or your child.

- Single-use prefilled autoinjector (SureClick®)
- Single-use automated mini-doser
- Single-use prefilled syringe\*

If your doctor decides that you or your child or a caregiver (e.g. parent) can give the injections of REPATHA, you or your child or your caregiver should receive training on the right way to prepare and inject REPATHA. Do not try to inject REPATHA until you or your child have been shown the right way by your healthcare provider.

Always take REPATHA exactly as your doctor has told you or your child. Check with your doctor if you are not sure.

- Before starting REPATHA, you or your child should be on a diet to lower cholesterol.
- You or your child should stay on this cholesterol lowering diet while taking REPATHA.

If your doctor has prescribed REPATHA along with a statin or other cholesterol lowering medicine for you or your child, follow your doctor's instructions on how to take these medicines together. In this case, please read the dosage instructions in the package leaflet of the other medicines.

Ask your doctor if you or your child have any further questions on how to use REPATHA.

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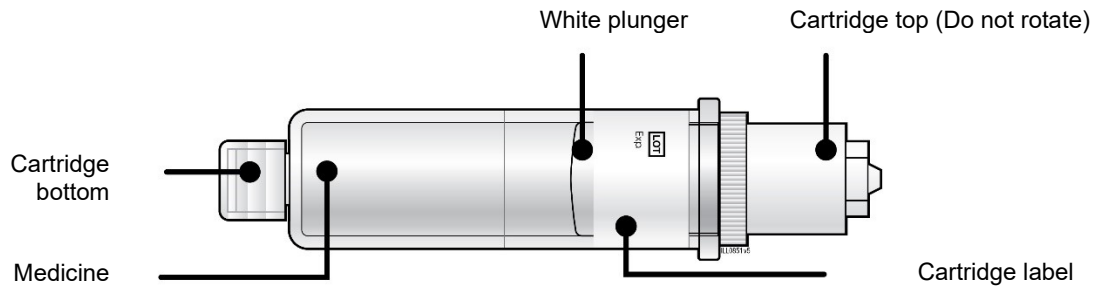
\* Prefilled syringes are not available in Canada

## REPATHA Automated Mini-Doser and Prefilled Cartridge

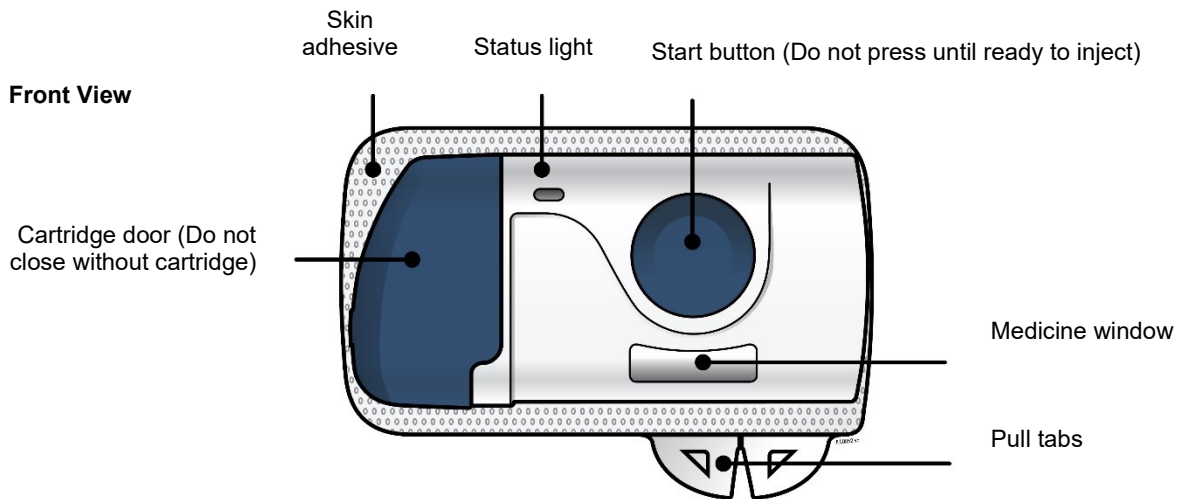
The following instructions are for preparing and giving an injection of REPATHA using an automated mini-doser and single-use prefilled cartridge.

### Guide to Parts

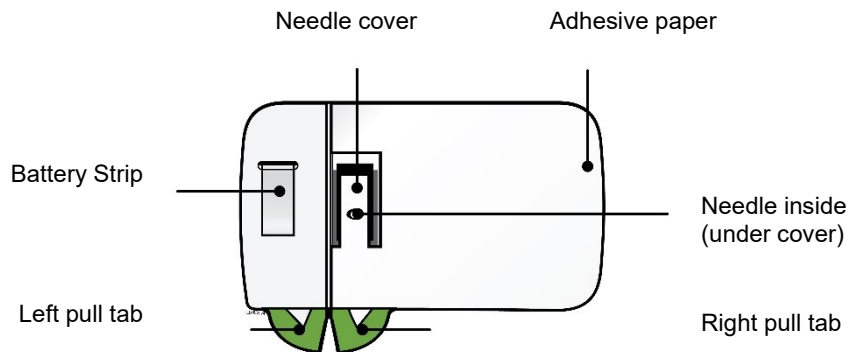
#### Prefilled Cartridge



#### Automated Mini-Doser



#### Back View



**Important:** Needle is inside.

**Important:** Before you use the automated mini-doser and prefilled cartridge for use with REPATHA, read this important information:

### **Storing your automated mini-doser and prefilled cartridge**

- Keep the automated mini-doser and prefilled cartridge out of the reach of children.
- Keep the automated mini-doser and prefilled cartridge in the original carton to protect from light or physical damage.
- The automated mini-doser and prefilled cartridge must be kept in the refrigerator at 2°C to 8°C.
- If removed from the refrigerator, the automated mini-doser and prefilled cartridge should be kept at room temperature at 20°C to 25°C in the original carton and must be used within 30 days.
- **Do not** store the automated mini-doser and prefilled cartridge in extreme heat (e.g., Above 25°C) or cold (e.g., avoid storing in your vehicle's glove box or trunk). **Do not** freeze.

### **Using your automated mini-doser and prefilled cartridge**

- It is important that you do not try to give yourself the injection unless you have received training from your healthcare provider.
- The automated mini-doser and prefilled cartridge are not made with natural rubber latex.
- Adult supervision is recommended for children aged 13 years and younger while using the automated mini-doser and prefilled cartridge.
- **Do not** use the automated mini-doser and prefilled cartridge after the expiration date on the carton.
- **Do not** shake the automated mini-doser or prefilled cartridge.
- **Do not** remove the automated mini-doser and prefilled cartridge from the carton or clear tray until you are ready to inject.
- **Do not** touch the start button until you place the loaded automated mini-doser and prefilled cartridge onto your skin and are ready to inject.
- You can only press the start button once. If an error occurs, the automated mini-doser cannot be used.
- **Do not** use the automated mini-doser and prefilled cartridge if either have been dropped onto a hard surface. Part of the automated mini-doser and prefilled cartridge may be broken even if you cannot see the break. Use a new automated mini-doser and prefilled cartridge.
- **Do not** reuse the automated mini-doser and prefilled cartridge. The automated mini-doser and prefilled cartridge are for single-use only.



- **Do not** let the automated mini-doser get wet from water or any other liquids. It contains electronics that should not get wet.
- The single-use automated mini-doser for subcutaneous injection is intended only for use with the prefilled cartridge.
- Moderate physical activities can be performed during the injection process, such as walking, reaching and bending.

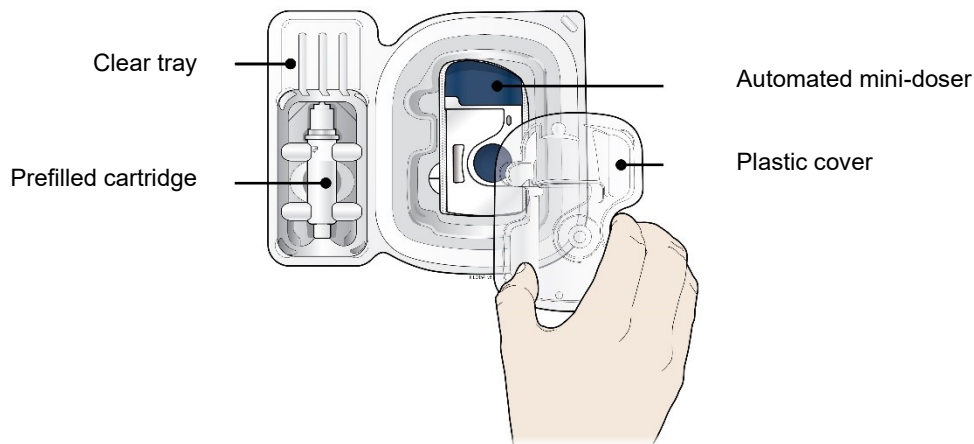
A healthcare provider who knows how to use the automated mini-doser should be able to answer your questions. For more information, contact the RepathaREADY® Support Program at 1-888-Repatha (1-888-737-2842) or visit [www.repatha.ca](http://www.repatha.ca).

### Step 1: Prepare

- A.** Remove the automated mini-doser and prefilled cartridge carton from the refrigerator. Wait 45 minutes.

**Important: Wait at least 45 minutes for the automated mini-doser and prefilled cartridge to naturally reach room temperature in the carton, before you inject.**

- **Do not** try to warm the prefilled cartridge by using a heat source such as hot water or a microwave
- B.** Open the carton and peel away the white paper cover. Remove the automated mini-doser cover from the clear tray.



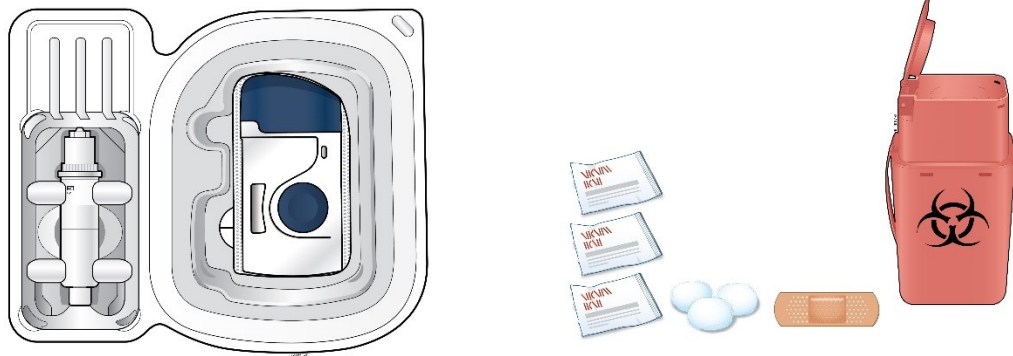
Leave the automated mini-doser and prefilled cartridge in the clear tray until you are ready to inject.

- **Do not** touch the start button until the automated mini-doser is on skin and you are ready to inject.
- **Do not** use if the white paper cover is missing or damaged.

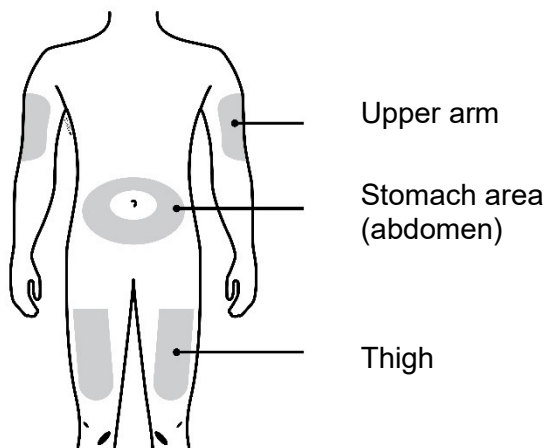
- C. Gather all materials needed for your injection and then wash your hands thoroughly with soap and water.

**On a clean, well-lit surface, place the:**

- Clear tray containing the automated mini-doser and prefilled cartridge
- Alcohol wipes
- Cotton ball or gauze pad
- Adhesive bandage
- Sharps disposal container



- D. To securely attach the automated mini-doser, prepare and clean an injection site that is less likely to have body hair, or you can trim the area. Use a firm and flat skin surface.



**You can use:**

- Thigh
- Stomach area (abdomen), except for a **five** centimeter (two inch) area around your belly button
- Outer area of upper arm (only if someone else is giving you the injection)

Clean the injection site with an alcohol wipe. Let your skin dry.

- **Do not** touch this area again before injecting
- **Do not** inject into areas where the skin is tender, bruised, red, or hard. Avoid injecting into areas with wrinkles, skin folds, moles, excessive hair, scars or stretch marks

**Important: To attach the automated mini-doser securely, it is important to use a firm and flat skin surface.**

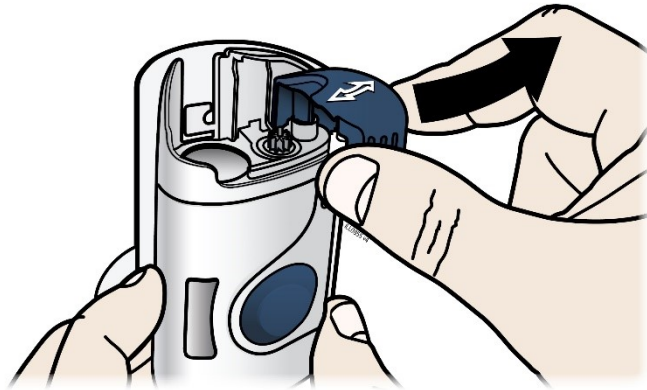
## Step 2: Get ready

- E. Open the automated mini-doser by swinging the cartridge door to the right. Then, **leave the door open**. **Do not** close the cartridge door before the cartridge is loaded.

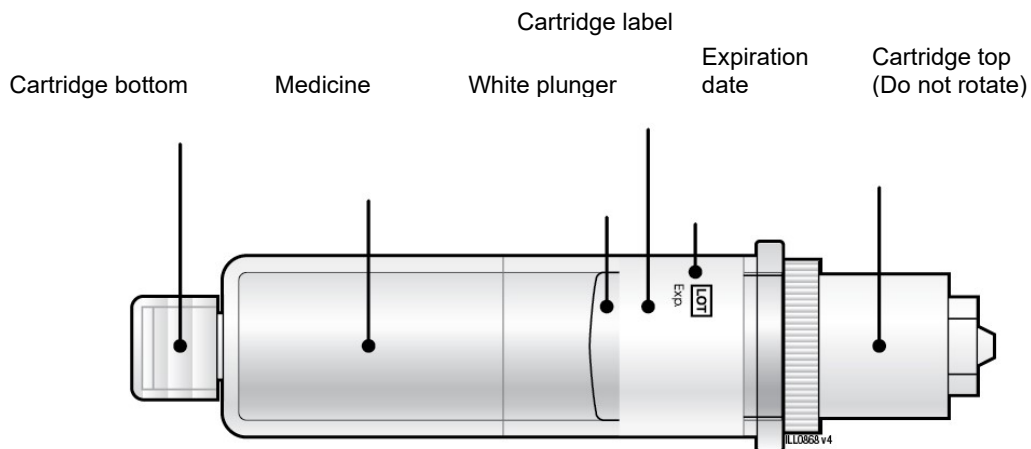
If you accidentally close the cartridge door, press on the left side of the door to release the door latch.

If you are still unable to open the door, call 1-888-Repatha (1-888-737-2842) or visit [www.repatha.ca](http://www.repatha.ca).

**Do not** press the start button until you are ready to inject.



- F. Inspect the cartridge.



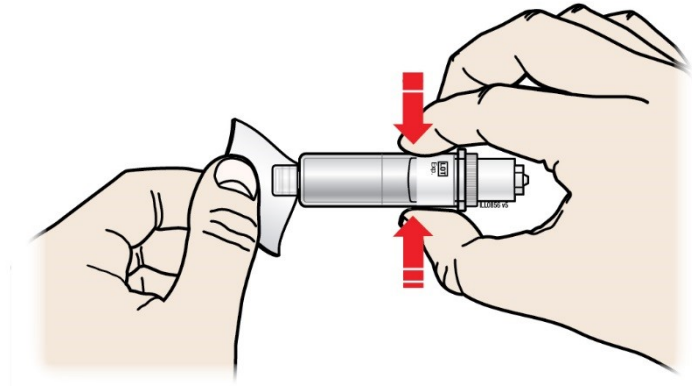
**Make sure the medicine in the cartridge is clear and colourless to slightly yellow.**

- **Do not** use if the medicine is cloudy or discoloured or contains flakes or particles
- **Do not** use if any part of the cartridge appears cracked or broken
- **Do not** use if pieces of the cartridge are missing or not securely attached

- **Do not** use if the expiration date on the cartridge has passed

In any above cases, use a new automated mini-doser and prefilled cartridge and call 1-888-Repatha (1-888-737-2842) or visit [www.repatha.ca](http://www.repatha.ca).

**G.** Clean the cartridge bottom.

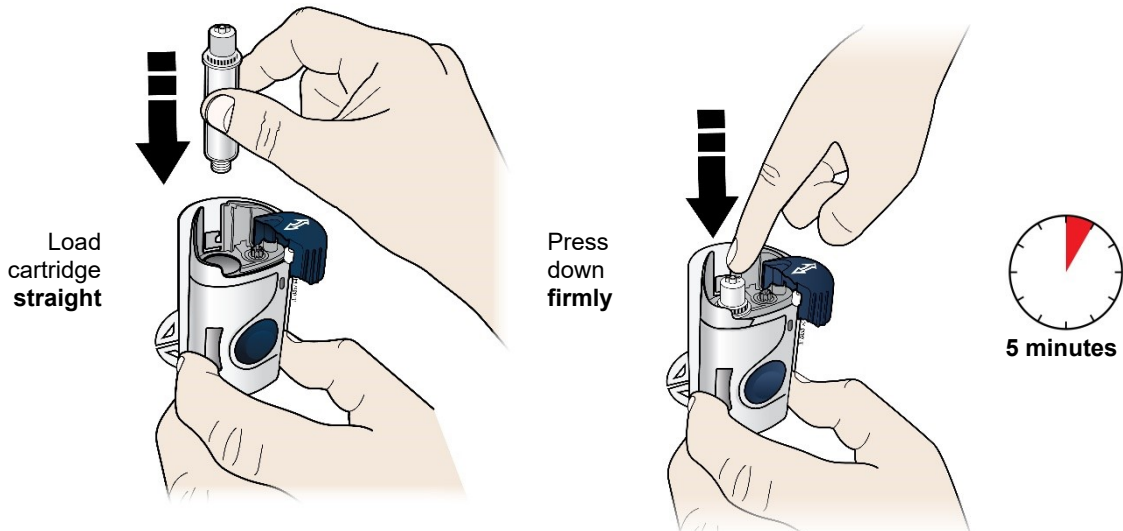


**Grab Here**

Hold the cartridge barrel and clean the cartridge bottom with an alcohol wipe.

- **Do not** touch the bottom of the cartridge after cleaning with alcohol wipe
- **Do not** remove or rotate the cartridge top or bottom

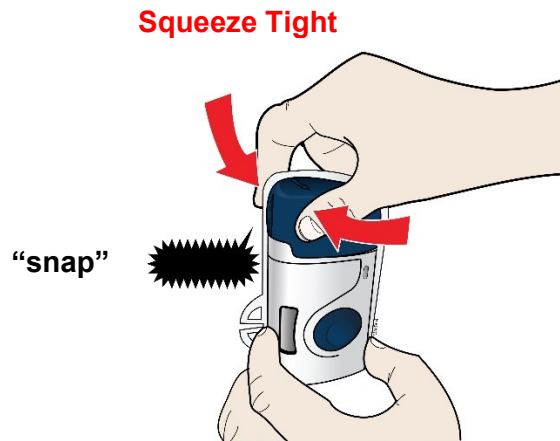
**H.** Load the cleaned cartridge into the automated mini-doser and firmly press on the top until it is secured in place. **Do not** insert the cartridge more than five minutes before injection. This can dry out the medicine.



Insert the cartridge bottom first.

- **Do not** touch the start button until you have placed the loaded automated mini-doser on your skin

- I. Swing the door to the left. Then, squeeze firmly until it snaps shut. Apply enough pressure when closing the door and make sure there is a “snap” before going to the next step.



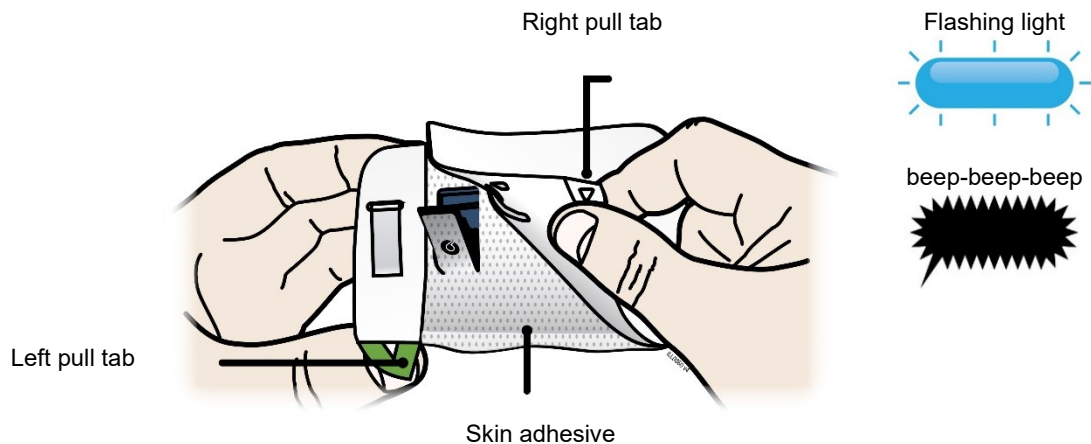
Make sure the cartridge fits securely in the automated mini-doser before you close the door.

- **Do not** close the door if the cartridge is missing or not fully inserted
- **Do not** touch the start button until you have placed the loaded automated mini-doser on your skin

**Important:** After you load the automated mini-doser, proceed to the next step without delay.

### Step 3: Inject

- J. **Peel away both** green pull tabs to show the adhesive. The automated mini-doser is on when the blue status light flashes.

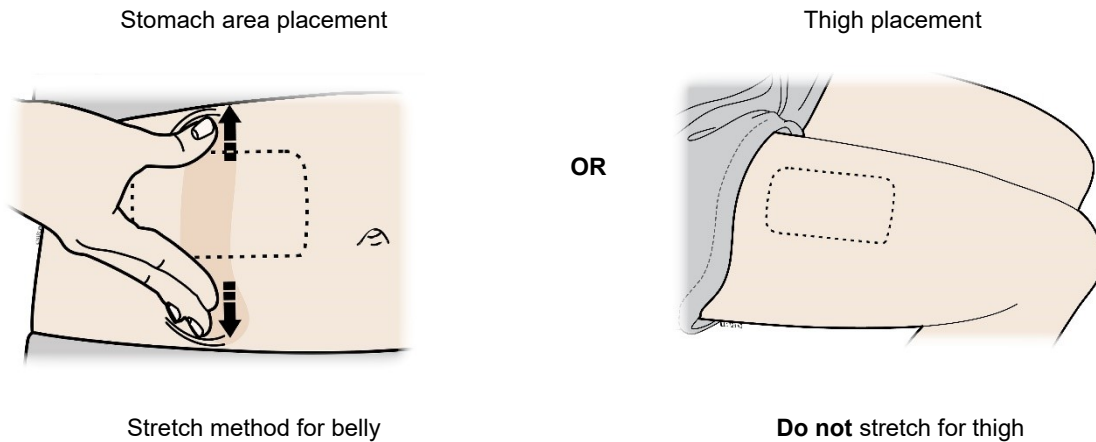


You must remove **both** green pull tabs to turn the loaded automated mini-doser on. You will hear beeping and see a flashing blue status light.

- **Do not** touch the skin adhesive
- **Do not** touch the start button until you have placed the loaded automated mini-doser on your skin

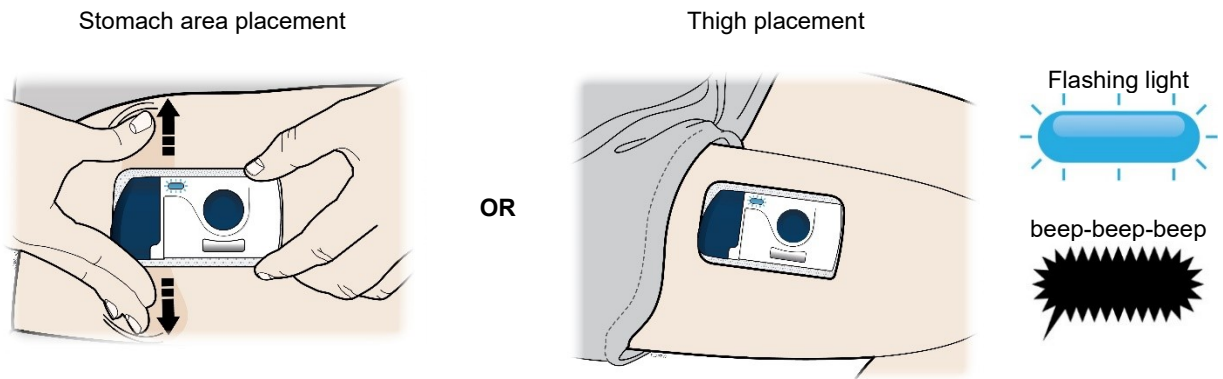
- **Do not** touch or contaminate the needle cover area
- **Do not** place the loaded automated mini-doser on your body if the red status light flashes continuously
- **Do not** pull the skin adhesive backing off of the automated mini-doser
- **Do not** fold the skin adhesive over onto itself

**K.** Choose your automated mini-doser injection site. Only use the outer arm if someone else is giving the injection.



**Important:** Adjust your body posture to avoid skin folds and bulges.

**L.** When the blue light flashes, the automated mini-doser is ready. **Keep the stretch** (stomach area method only). Hold the loaded automated mini-doser with the blue light visible, and place it on your skin. You may hear beeps.

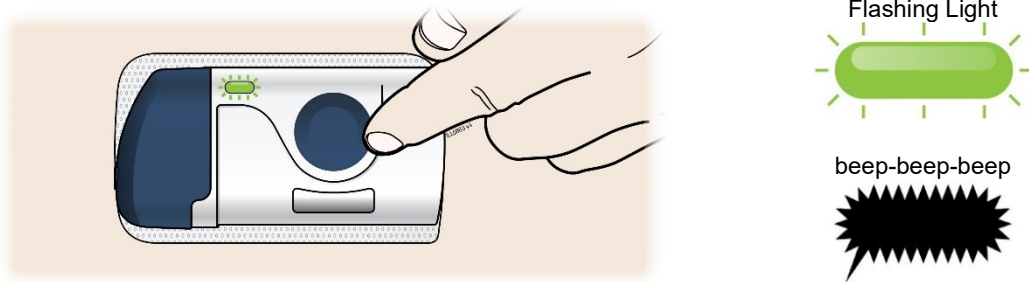


The loaded automated mini-doser will lay flat on your body. Make sure all of the adhesive is attached to your skin. Run a finger around the adhesive edges to secure it.

Make sure clothing does not get in the way of the loaded automated mini-doser, and you can see the blue light at all times.

- **Do not** try to reposition the loaded automatic mini-doser after it has been placed onto your skin.

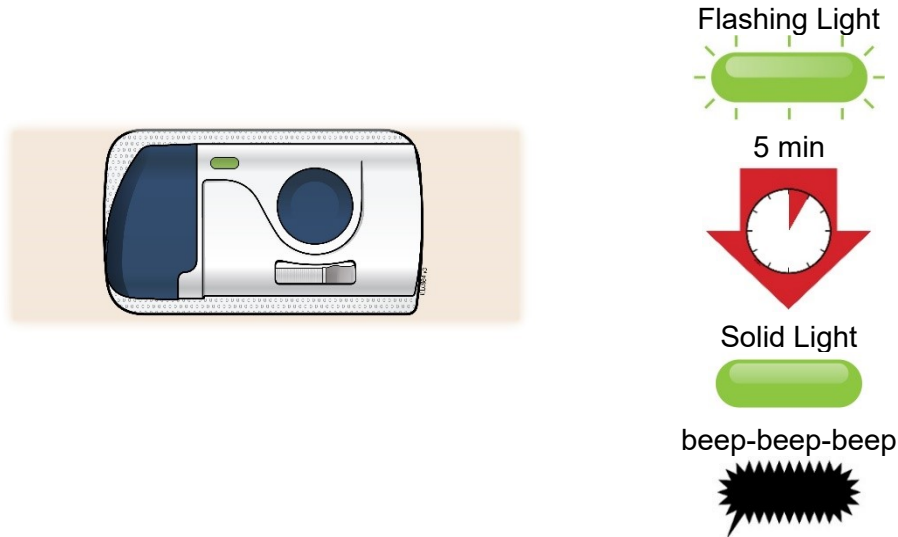
- M.** Firmly **press and release** the start button. A flashing green light and a click signal the injection has started.



- You may hear a pumping sound.
- You may feel a pinch.
- Make sure you see a green, flashing status light.
- You may hear beeps indicating your injection has started.

**Important:** If medication leaks from the loaded automated mini-doser, call 1-888-Repatha (1-888-737-2842) or visit [www.repatha.ca](http://www.repatha.ca).

- N.** Injection takes about five minutes to finish. The status light turns **solid green**, and the device beeps, when done.



**It is okay to hear a pumping sound start and stop during injection.**

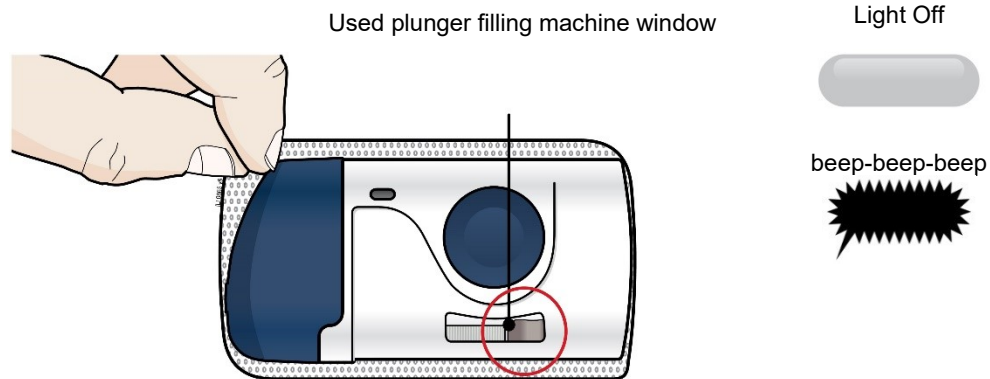
**Injection is finished when:**

- The status light changes to **solid green**.
- You hear several beeps.
- The plunger fills the medicine window.



#### Step 4: Finish

- O. When the injection is done, grab the skin adhesive to carefully peel the automated mini-doser off skin. After removal, check the medicine window. The green light should now be off.



Check to see that the used plunger completely fills the medicine window, and the green solid light is turned off, letting you know all medicine has been injected. If the plunger did not fill the window, call 1-888-Repatha (1-888-737-2842) or visit [www.repatha.ca](http://www.repatha.ca).

- The used automated mini-doser will beep when removed from your skin.
  - It is normal to see a few drops of fluid on your skin after you remove the used automated mini-doser.
- P. Discard the used automated mini-doser in a sharps container.

The automated mini-doser contains batteries, electronics, and a needle.

Put the used automated mini-doser in a sharps disposal container right away after use. **Do not** throw away (dispose of) the automated mini-doser in your household trash.



If you do not have a sharps disposal container, you may use a household container that is:

- Made of a heavy-duty plastic,
- Can be closed with a tight-fitting, puncture-resistant lid, without sharps being able to come out,
- Upright and stable during use,
- Leak-resistant, and
- Properly labeled to warn of hazardous waste inside the container.

When your sharps disposal container is almost full, you will need to follow your community guidelines for the right way to dispose of your sharps disposal container. There may be provincial or local laws about how you should throw away used needles and syringes.



- **Do not** remove the used cartridge from the automated mini-doser.
- **Do not** reuse the automated mini-doser.

**Do not** recycle the automated mini-doser or sharps disposal container or throw them into household trash.

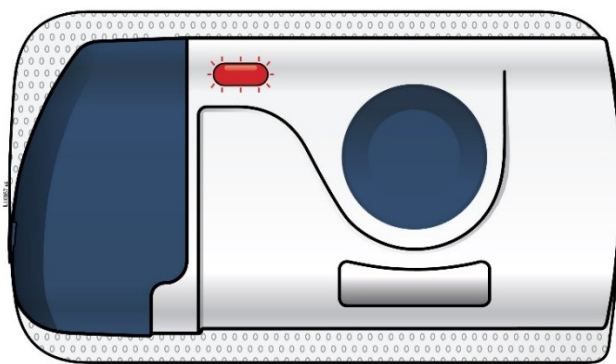
**Important:** Always keep the sharps disposal container out of the reach of children.

**Q.** Examine injection site.

If there is blood, press a cotton ball or gauze pad on your injection site. **Do not** rub the injection site. Apply an adhesive bandage if needed.

### Troubleshooting:

What do I do if the loaded automated mini-doser status light continuously flashes red and I hear beeps?



Flashing Warning Light



beep-beep-beep-beep-beep



**Stop using** the loaded automated mini-doser. If the automated mini-doser is attached to your body, carefully remove it. Call 1-888-Repatha (1-888-737-2842) or visit [www.repatha.ca](http://www.repatha.ca).

### Commonly Asked Questions:

**What if I hear the automated mini-doser beep and see a red blinking light when it is on my body?**

This means that an error has occurred. When this happens, the injection will automatically stop. Remove the automated mini-doser from your body by slowly and carefully peeling it off of your skin, call 1-888-Repatha (1-888-737-2842) or visit [www.repatha.ca](http://www.repatha.ca).

**What should I do if the automated mini-doser comes off my body during the injection?**

Though unlikely, if the automated mini-doser comes off during the injection, the automated mini-doser will make a beeping sound, you will see the blinking red light, and the automated mini-doser will stop. The loaded automated mini-doser can no longer be used, and do not reapply to your body. Call 1-888-Repatha (1-888-737-2842) or visit [www.repatha.ca](http://www.repatha.ca).

**What if I push the start button before I place the automated mini-doser on my skin?**

If you have removed the adhesive backing and pressed the start button, the automated mini-doser will make a beeping sound and you will see the blinking red light. The automated

mini-doser will not inject. Stop using the automated mini-doser, call 1-888-Repatha (1-888-737-2842) or visit [www.repatha.ca](http://www.repatha.ca).

**What if the automated mini-doser does not beep and the blue status light does not blink when I remove the pull tabs?**

Check to see if both green pull tabs have been fully removed from the automated mini-doser, including the adhesive paper over the battery strip and needle cover. If both green pull tabs have been fully removed and the automated mini-doser still does not turn on, use a new automated mini-doser and prefilled cartridge. Call 1-888-Repatha (1-888-737-2842) or visit [www.repatha.ca](http://www.repatha.ca).

**What if I push the start button and nothing happens?**

Remove the automated mini-doser by slowly and carefully peeling it away from your skin. Do not reapply the same automated mini-doser that you have already placed on your skin. Call 1-888-Repatha (1-888-737-2842) or visit [www.repatha.ca](http://www.repatha.ca).

**What if I cannot open the cartridge door to insert the cartridge?**

To open the automated mini-doser door, press on the left side of the door to release the door latch. If you are still unable to open the door, call 1-888-Repatha (1-888-737-2842) or visit [www.repatha.ca](http://www.repatha.ca).

**Additional environmental conditions:**

Relative humidity range is 15% to 85%.











Altitude range is -300 meters to 3500 meters.

During injection, keep the automated mini-doser a minimum of 30 cm (12 inches) away from other electronics such as cellular phones.

Warning: Do not modify the device.

Automated mini-doser operating temperature range is 15°C to 40°C.

[www.devicepatents.com](http://www.devicepatents.com)

| SYMBOL TABLE   |  |   |  |   |
|--|--|---|--|---|
| <br>Do not re-use                   | <br>Serial number                 | <br>Type BF Applied Part | <br>Do not use if packaging is damaged | <br>Automated mini-doser containing<br>420 mg/3.5 mL (120 mg/mL) |
| <br>Sterilized using ethylene oxide | <br>Refer to Instructions for Use | <br>Lot number           | <br>Keep dry                           | <br>Open here  |

**Usual dose:**

*Prevention of Cardiovascular Events and Primary Hyperlipidemia in Adult Patients (including HeFH and atherosclerotic cardiovascular disease) and HeFH in Pediatric Patients (aged 10 years and older).*

The usual dose for REPATHA is 140 mg every 2 weeks or 420 mg once monthly. If you or your child and your doctor have decided that you should switch from one dosing regimen to the other, take the first dose of the new regimen on the day you were scheduled to take the previous one.

***Homozygous Familial Hypercholesterolemia***

Adult and Pediatric Patients (aged 10 years and older): The usual dose for REPATHA is 420 mg, either once monthly or every 2 weeks. If you or your child are on apheresis you may initiate treatment with 420 mg every 2 weeks to correspond with your apheresis schedule.

**Overdose:**

If you think you, or a person you are caring for, have taken too much REPATHA, contact a healthcare professional, hospital emergency department, or regional poison control centre immediately, even if there are no symptoms.

**Missed Dose:**

If you or your child forget to take your every 2 week or once monthly dose of REPATHA or are not able to take the dose at the regular time, administer your missed dose as soon as you remember, as long as there are more than 7 days until your next scheduled dose. If there are 7 days or less until your next scheduled dose, administer the next dose according to the original schedule. This will put you back on your original schedule. If you or your child are not sure when to take REPATHA after a missed dose, ask your healthcare provider or pharmacist.

**What are possible side effects from using REPATHA?**

Like all medicines, REPATHA can cause side effects, although not everybody gets them. REPATHA may cause allergic reactions. Call your healthcare provider or go to the nearest hospital emergency room right away if you or your child have any symptoms of an allergic reaction including a severe rash, redness, severe itching, a swollen face or trouble breathing.

The following are not all the possible side effects you or your child may have when taking REPATHA. If you or your child have a troublesome symptom or side effect that is not listed here or becomes bad enough to interfere with your daily activities, tell your healthcare professional.

- Flu or flu-like symptoms (high temperature, sore throat, runny nose, cough and chills)
- Common cold, such as runny nose, sore throat or sinus infections (nasopharyngitis or upper respiratory tract infections)
- Nausea
- Back pain
- Joint pain (arthralgia)
- Muscle pain (myalgia), with or without associated muscle weakness

- Injection site reactions (redness, bruising, pain, swelling, or bleeding)
- Allergic reactions including rash, hives, red itchy bumps on your skin (urticaria), and in rare cases, swelling of face, mouth, tongue or throat (angioedema)

### **Reporting Side Effects**

You can report any suspected side effects associated with the use of health products to Health Canada by:

- Visiting the Web page on Adverse Reaction Reporting (<https://www.canada.ca/en/health-canada/services/drugs-health-products/medeffect-canada.html>) for information on how to report online, by mail or by fax; or
- Calling toll-free at 1-866-234-2345.

*NOTE: Contact your health professional if you need information about how to manage your side effects. The Canada Vigilance Program does not provide medical advice.*

### **Storage:**

Store in a refrigerator at 2°C to 8°C in the original carton. When removed from the refrigerator, REPATHA should be kept at controlled room temperature (up to 25°C) in the original carton and must be used within 30 days. Protect REPATHA from direct light and do not expose to temperatures above 25°C. Do not freeze. Do not shake.

Keep REPATHA and all medicines out of the reach and sight of children.

Do not throw away any medicines via wastewater or household waste. Ask your doctor or pharmacist how to throw away medicines you no longer use.

### **If you want more information about REPATHA:**

- Talk to your healthcare professional
- Find the full product monograph that is prepared for healthcare professionals and includes this Patient Medication Information by visiting the Health Canada website: (<https://www.canada.ca/en/health-canada/services/drugs-health-products/drug-products/drug-product-database.html>); the RepathaREADY® Support Program at 1-888-Repatha (1-888-737-2842) or by visiting [www.repatha.ca](http://www.repatha.ca).

This leaflet was prepared by Amgen Canada Inc.

Last Revised: July 2024

## PATIENT MEDICATION INFORMATION

### READ THIS FOR SAFE AND EFFECTIVE USE OF YOUR MEDICINE

PrRepatha®

evolocumab injection

Single-use Prefilled Syringe\*

Read this carefully before you or your child start taking **REPATHA** and each time you get a refill. This leaflet is a summary and will not tell you everything about this drug. Talk to your healthcare professional about your medical condition and treatment and ask if there is any new information about **REPATHA**. Keep this leaflet, as you may need to read it again.

#### What is REPATHA used for?

REPATHA is used:

- along with diet and in combination with usual therapy, including cholesterol-lowering medications called statins, to reduce the risk of heart attack, stroke, and certain heart procedures (to restore blood flow to the heart) in adult patients who have cardiovascular disease by further lowering low-density lipoprotein (LDL) cholesterol.
- along with diet, alone or together with other cholesterol-lowering therapies, in adults with primary hyperlipidemia (high LDL cholesterol level in your blood) to reduce LDL cholesterol.
- along with diet and other cholesterol-lowering therapies, to reduce LDL cholesterol in people 10 years and older who need additional lowering of the high LDL cholesterol in their blood because of a condition that runs in their family (heterozygous familial hypercholesterolemia [HeFH]).
- along with diet and other cholesterol-lowering therapies, to reduce LDL cholesterol in people 10 years and older who need additional lowering of the high LDL cholesterol in their blood because of a condition that runs in their family (homozygous familial hypercholesterolemia [HoFH]).

#### How does REPATHA work?

REPATHA is a medicine used to lower levels of cholesterol. REPATHA lowers levels of total cholesterol, “bad” cholesterol (LDL cholesterol), and fatty substances called triglycerides in the blood. In addition, REPATHA raises levels of “good” cholesterol (HDL cholesterol).

Evolocumab, the active ingredient of REPATHA, works by helping the liver’s ability to remove bad cholesterol from the blood. Cholesterol is one of several fatty substances found in the bloodstream. Your total cholesterol is made up mainly of LDL and HDL cholesterol. LDL cholesterol is often called “bad” cholesterol because it can build up in the walls of your arteries forming plaque. Eventually this plaque build-up can lead to a narrowing of the arteries. This narrowing can slow or block blood flow to vital organs such as the heart and brain. This blocking of blood flow can result in a heart attack or stroke and can cause other health problems. HDL cholesterol is often called “good” cholesterol because it helps keep the bad

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\* Prefilled syringes are not available in Canada

cholesterol from building up in the arteries and protects against heart disease. Triglycerides are another form of fat in your blood that may increase your risk of heart disease.

### **What are the ingredients in REPATHA?**

Medicinal ingredients: evolocumab

Non-medicinal ingredients: glacial acetic acid, polysorbate 80, proline, sodium hydroxide and water for injection. The prefilled syringe is not made with natural rubber latex.

### **REPATHA comes in the following dosage forms:**

REPATHA is available in the presentations listed below. Your doctor will prescribe the type that is best for you or your child.

- 1 mL single-use prefilled autoinjector (SureClick®). Each 1 mL prefilled autoinjector contains 140 mg of evolocumab (140 mg/mL).
- 3.5 mL prefilled cartridge with an automated mini-doser (AMD). Each 3.5 mL prefilled cartridge contains 420 mg of evolocumab (120 mg/mL).
- 1 mL single-use prefilled syringe\*. Each 1 mL prefilled syringe\* contains 140 mg of evolocumab (140 mg/mL).

### **Do not use REPATHA if:**

- You or your child have ever had an allergic reaction to REPATHA or any of the ingredients in REPATHA.

**To help avoid side effects and ensure proper use, talk to your healthcare professional before you or your child take REPATHA. Talk about any health conditions or problems you or your child may have, including if you or your child:**

- Use REPATHA together with a statin and other cholesterol lowering medicines, please read the package leaflet of that particular medicine.

### **Other warnings you should know about:**

#### **Children and adolescents**

The use of REPATHA has been studied in children 10 years of age and older being treated for heterozygous or homozygous familial hypercholesterolemia.

The use of REPATHA has not been studied in children under 10 years of age or in children with other types of hypercholesterolemia.

#### **Pregnancy and Breastfeeding**

REPATHA has not been tested in pregnant women. It is not known if REPATHA will harm your unborn baby.

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\* Prefilled syringes are not available in Canada

If you are trying to get pregnant or think you may be pregnant when taking REPATHA:

- Inform your doctor
- If you are also taking a statin along with REPATHA, stop taking REPATHA and read the package leaflet of the statin that you are taking with REPATHA

Women who become pregnant during REPATHA treatment, or their healthcare provider, are encouraged to call Amgen at 1-866-502-6436 to report the pregnancy.

It is not known whether REPATHA is found in breast milk. It is important to tell your doctor if you are breastfeeding or plan to do so. Your doctor will then help you decide whether to stop breastfeeding, or whether to stop taking REPATHA, considering the benefit of breastfeeding to the baby and the benefit of REPATHA to the mother.

**Tell your healthcare professional about all the medicines you or your child take, including any drugs, vitamins, minerals, natural supplements or alternative medicines.**

#### **The following may interact with REPATHA:**

No important drug interactions have been identified for REPATHA. No drug-drug interaction studies have been carried out for REPATHA.

#### **How to take REPATHA:**

REPATHA is given as an injection under the skin (subcutaneous or SC). REPATHA is available in the presentations listed below. Your doctor will prescribe the type that is best for you or your child.

- Single-use prefilled autoinjector (SureClick®)
- Single-use automated mini-doser
- Single-use prefilled syringe\*

If your doctor decides that you or your child or a caregiver (e.g. parent) can give the injections of REPATHA, you or your child or your caregiver should receive training on the right way to prepare and inject REPATHA. Do not try to inject REPATHA until you or your child have been shown the right way by your healthcare provider.

Always take REPATHA exactly as your doctor has told you or your child. Check with your doctor if you are not sure.

- Before starting REPATHA, you or your child should be on a diet to lower cholesterol.
- You or your child should stay on this cholesterol lowering diet while taking REPATHA.

If your doctor has prescribed REPATHA along with a statin or other cholesterol lowering medicine for you or your child, follow your doctor's instructions on how to take these medicines together. In this case, please read the dosage instructions in the package leaflet of the other medicines.

Ask your doctor if you or your child have any further questions on how to use REPATHA.

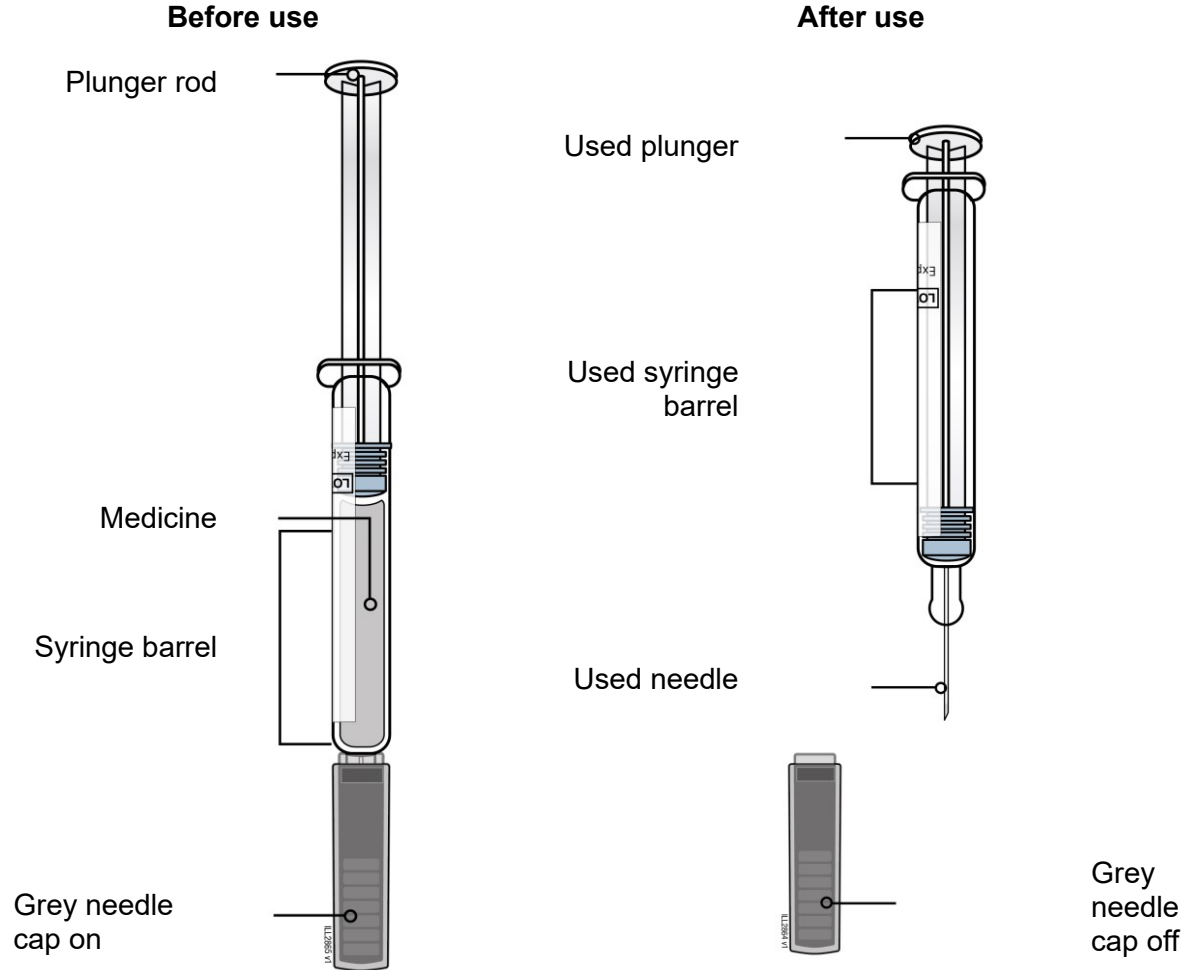
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\* Prefilled syringes are not available in Canada

**REPATHA Single-Use Prefilled Syringe\***

The following instructions are for preparing and giving an injection of REPATHA using a single-use prefilled syringe\*.

**Guide to Parts**



**Important:** Needle is inside

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\* Prefilled syringes are not available in Canada



## Important

Before you use a Single-Use REPATHA Prefilled Syringe\*, read this important information:

- Keep the REPATHA prefilled syringe\* in the original carton to protect from light during storage.
- The REPATHA prefilled syringe\* should be kept in the refrigerator between 2°C to 8°C.
- It is important that you do not try to give yourself the injection unless you have received training from your healthcare provider.
- The prefilled syringe is not made with natural rubber latex.
- Keep the REPATHA prefilled syringe\* out of the sight and reach of children.
- **DO NOT:**
  - Use the REPATHA prefilled syringe\* if the packaging is open or damaged.
  - Freeze the REPATHA prefilled syringe\* or use one that has been frozen.
  - Use the REPATHA prefilled syringe\* if it has been dropped onto a hard surface. Part of the REPATHA prefilled syringe\* may be broken even if you cannot see the break. Use a new REPATHA prefilled syringe\*.
  - Remove the grey needle cap from the REPATHA prefilled syringe\* until you are ready to inject.

A healthcare provider familiar with REPATHA should be able to answer your questions. For more information, contact the RepathaREADY® Support Program at 1-888-Repatha (1-888-737-2842) or visit [www.repatha.ca](http://www.repatha.ca).

### Step 1: Prepare

#### **A. Remove the REPATHA prefilled syringe\* carton from the refrigerator and wait 30 minutes.**

Wait at least 30 minutes for the prefilled syringe\* in the carton to naturally reach room temperature before injecting.

Check that the name REPATHA appears on the carton label.

- **DO NOT:**
  - Try to warm the REPATHA prefilled syringe\* by using a heat source such as hot water or microwave.
  - Leave the REPATHA prefilled syringe\* exposed to direct sunlight.
  - Shake the REPATHA prefilled syringe\*.

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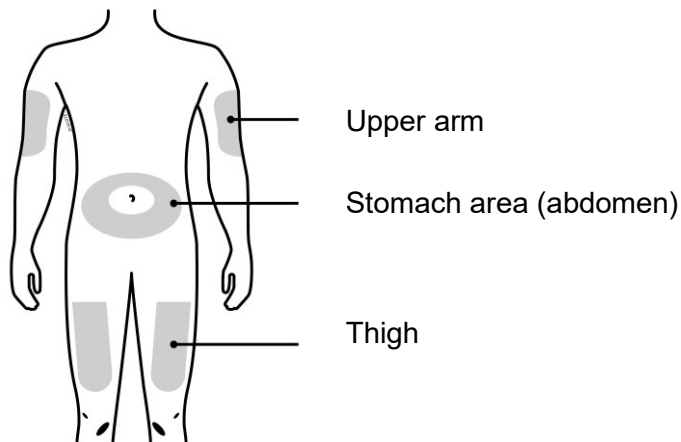
\*Prefilled syringes are not available in Canada

**B. Gather all materials needed for your injection.**

Wash your hands thoroughly with soap and water. **On a clean, well-lit, flat work surface, place:**

- One REPATHA prefilled syringe\* in carton
- Alcohol wipes
- Cotton ball or gauze pad
- Adhesive bandage
- Sharps disposal container
- **DO NOT** use if expiration date on the REPATHA prefilled syringe\* carton has passed.

**C. Choose your injection site.**



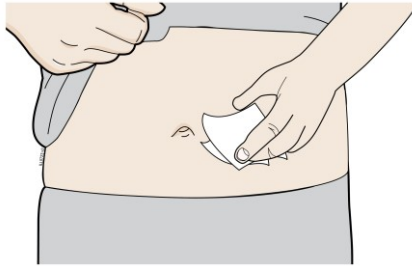
**You can use:**

- Thigh
- Stomach area (abdomen), except for the **five** centimeters (two inches) around the belly button
- Outer area of upper arm (only if someone else is giving you the injections)
- **DO NOT** choose an area where the skin is tender, bruised, red, or hard. Avoid injecting into areas with scars or stretch marks.

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\* Prefilled syringes are not available in Canada

**D. Clean your injection site.**



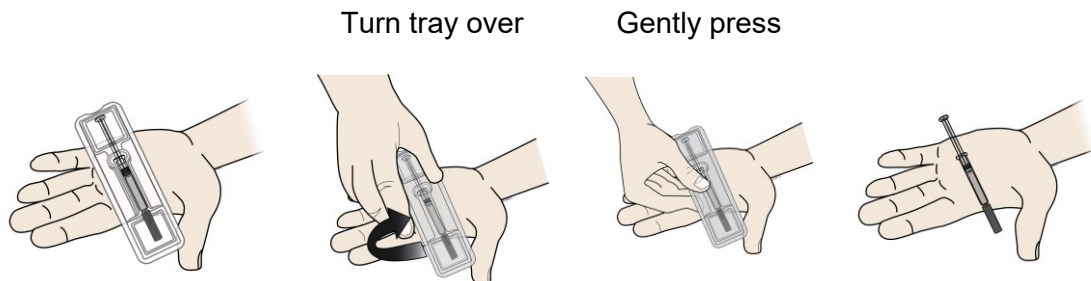
Clean your injection site with an alcohol wipe. Let your skin dry before injecting.

- **DO NOT** touch this area of skin again before injecting.

**Important:** Choose a different site each time you give yourself an injection. If you need to use the same injection site, just make sure it is not the same spot on that site you used last time.

**DO NOT** inject into areas where the skin is tender, bruised, red, or hard. Avoid injecting into areas with scars or stretch marks.

**E. Remove prefilled syringe\* from tray.**



To remove:

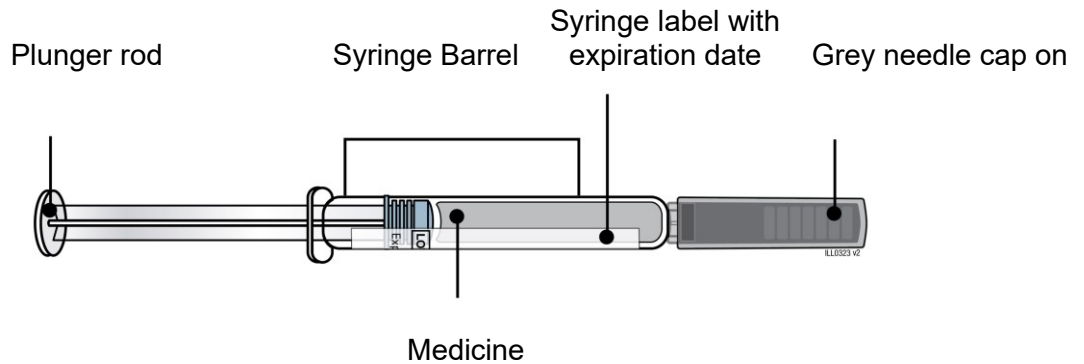
- Peel paper off of tray.
- Place the tray on your hand.
- Turn the tray over and gently press the middle of the tray's back to release the syringe into your palm.
- If prefilled syringe\* does not release from tray, gently press on back of tray.
- **DO NOT:**
  - Pick up or pull the prefilled syringe\* by the plunger rod or grey needle cap. This could damage the syringe.
  - Remove the grey needle cap from the prefilled syringe\* until you are ready to inject.

**Important:** Always hold the prefilled syringe\* by the syringe barrel.

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\* Prefilled syringes are not available in Canada

**F. Inspect medicine and syringe.**



**Always hold the prefilled syringe\* by the syringe barrel.**

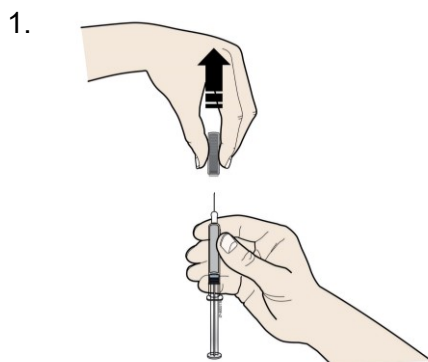
**Check that:**

- The name REPATHA appears on the prefilled syringe\* label.
- The medicine in the prefilled syringe\* is clear and colourless to slightly yellow.
- **DO NOT** use the prefilled syringe\* if:
  - any part of the prefilled syringe\* appears cracked or broken.
  - the grey needle cap is missing or not securely attached.
  - the medicine is discoloured or contains large lumps, flakes or coloured particles.
  - the expiration date on the prefilled syringe\* has passed.

In any above cases, use a new prefilled syringe\* and contact the RepathaREADY® Support Program at 1-888-Repatha (1-888-737-2842).

**Step 2: Get Ready**

**G. Carefully pull the grey needle cap straight out and away from your body.**



It is normal to see a drop of medicine at the end of the needle.



Immediately place the cap in the sharps disposal container.

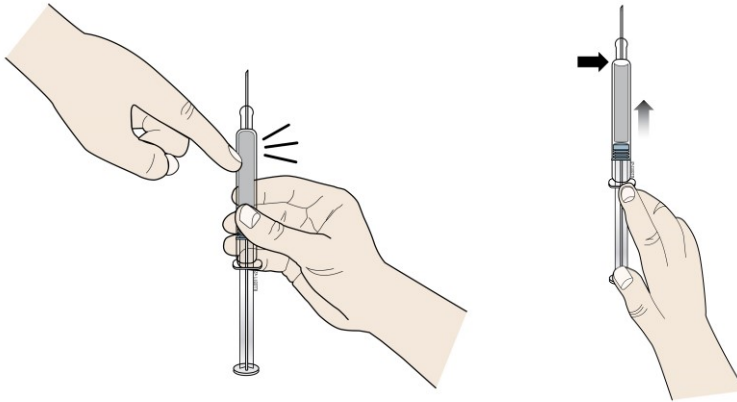
- **DO NOT:**
  - twist or bend the grey needle cap. This can damage the needle.
  - put the grey needle cap back onto the prefilled syringe\*.

#### H. Remove the air bubble/gap.

You may notice an air bubble/gap in the REPATHA prefilled syringe\*.

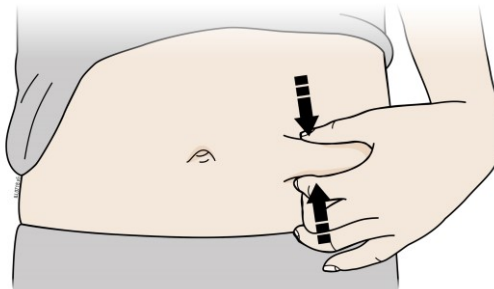
##### If you notice an air bubble/gap:

- Hold the prefilled syringe\* with the needle facing up.
- Gently tap the syringe barrel with your fingers until the air bubble/gap rises to the top of the syringe.
- Slowly and gently push the plunger rod up to get the air out of the prefilled syringe\*. Be very careful not to push out any medicine.



- **DO NOT** tap the syringe needle.

#### I. PINCH your injection site to create a firm surface.



Pinch skin firmly between your thumb and fingers, creating an area about five centimeters (two inches) wide.

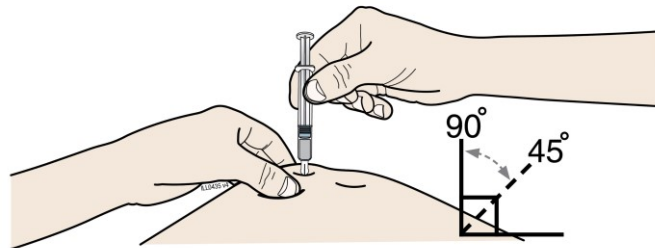
**Important:** It is important to keep the skin pinched while injecting.

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\* Prefilled syringes are not available in Canada

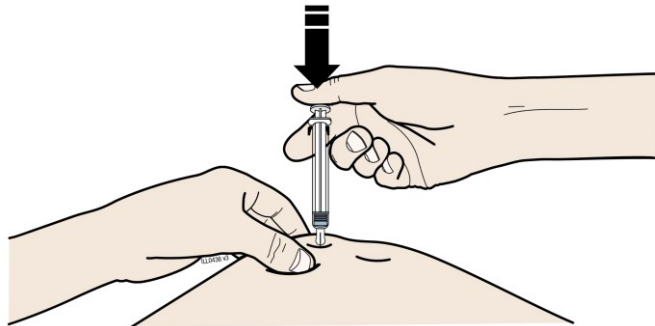
### Step 3: Inject

J. Hold the PINCH. Insert the needle into skin using a 45 to 90 degree angle.

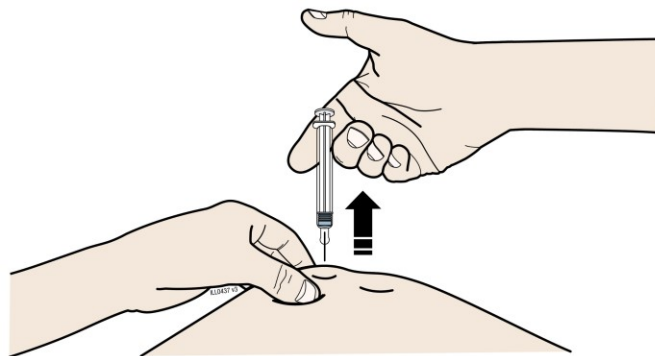


- **DO NOT** place your finger on the plunger rod while inserting the needle.

K. Using slow and constant pressure, **PUSH** the plunger rod all the way down until the syringe is empty.



L. When done, **RELEASE** your thumb, and gently lift the syringe off skin.



- **DO NOT** put the grey needle cap back onto the used syringe.

#### Step 4: Finish

M. Immediately place the used syringe in a sharps disposal container.



- **DO NOT:**

- reuse the used syringe.
- use any medicine that is left in the used syringe.
- recycle the syringe or the sharps disposal container or throw it into household trash.

**Important:** Keep the used syringe and sharps container out of the sight and reach of children.

N. **Examine the injection site.**

If there is blood, press a cotton ball or gauze pad on your injection site. Apply an adhesive bandage if needed.

- **DO NOT** rub the injection site.

**Usual dose:**

*Prevention of Cardiovascular Events and Primary Hyperlipidemia in Adult Patients (including HeFH and atherosclerotic cardiovascular disease) and HeFH in Pediatric Patients (aged 10 years and older)*

The usual dose for REPATHA is 140 mg every 2 weeks or 420 mg once monthly. If you or your child and your doctor have decided that you should switch from one dosing regimen to the other, take the first dose of the new regimen on the day you were scheduled to take the previous one.

*Homozygous Familial Hypercholesterolemia*

Adult and Pediatric Patients (aged 10 years and older): The usual dose for REPATHA is 420 mg, either once monthly or every 2 weeks. If you or your child are on apheresis you may initiate treatment with 420 mg every 2 weeks to correspond with your apheresis schedule.

**Overdose:**

If you think you, or a person you are caring for, have taken too much REPATHA, contact a healthcare professional, hospital emergency department, or regional poison control centre immediately, even if there are no symptoms.

**Missed Dose:**

If you or your child forget to take your every 2 week or once monthly dose of REPATHA or are not able to take the dose at the regular time, administer your missed dose as soon as you remember, as long as there are more than 7 days until your next scheduled dose. If there are 7 days or less until your next scheduled dose, administer the next dose according to the original schedule. This will put you back on your original schedule. If you or your child are not sure when to take REPATHA after a missed dose, ask your healthcare provider or pharmacist.

**What are possible side effects from using REPATHA?**

Like all medicines, REPATHA can cause side effects, although not everybody gets them. REPATHA may cause allergic reactions. Call your healthcare provider or go to the nearest hospital emergency room right away if you or your child have any symptoms of an allergic reaction including a severe rash, redness, severe itching, a swollen face or trouble breathing.

The following are not all the possible side effects you or your child may have when taking REPATHA. If you or your child have a troublesome symptom or side effect that is not listed here or becomes bad enough to interfere with your daily activities, tell your healthcare professional.

- Flu or flu-like symptoms (high temperature, sore throat, runny nose, cough and chills)
- Common cold, such as runny nose, sore throat or sinus infections (nasopharyngitis or upper respiratory tract infections)
- Nausea
- Back pain
- Joint pain (arthralgia)
- Muscle pain (myalgia), with or without associated muscle weakness
- Injection site reactions (redness, bruising, pain, swelling, or bleeding)
- Allergic reactions including rash, hives, red itchy bumps on your skin (urticaria), and in rare cases, swelling of face, mouth, tongue or throat (angioedema).



### **Reporting Side Effects**

You can report any suspected side effects associated with the use of health products to Health Canada by:

- Visiting the Web page on Adverse Reaction Reporting (<https://www.canada.ca/en/health-canada/services/drugs-health-products/medeffect-canada.html>) for information on how to report online, by mail or by fax; or
- Calling toll-free at 1-866-234-2345.

*NOTE: Contact your health professional if you need information about how to manage your side effects. The Canada Vigilance Program does not provide medical advice.*

### **Storage:**

Store in a refrigerator at 2°C to 8°C in the original carton. When removed from the refrigerator, REPATHA should be kept at controlled room temperature (up to 25°C) in the original carton and must be used within 30 days. Protect REPATHA from direct light and do not expose to temperatures above 25°C. Do not freeze. Do not shake.

Keep REPATHA and all medicines out of the reach and sight of children.

Do not throw away any medicines via wastewater or household waste. Ask your doctor or pharmacist how to throw away medicines you no longer use.

### **If you want more information about REPATHA:**

- Talk to your healthcare professional
- Find the full product monograph that is prepared for healthcare professionals and includes this Patient Medication Information by visiting the Health Canada website: (<https://www.canada.ca/en/health-canada/services/drugs-health-products/drug-products/drug-product-database.html>); the RepathaREADY® Support Program at 1-888-Repatha (1-888-737-2842) or by visiting [www.repatha.ca](http://www.repatha.ca).

This leaflet was prepared by Amgen Canada Inc.

Last Revised: October 10, 2024