ANNEX I

SUMMARY OF PRODUCT CHARACTERISTICS
This medicinal product is subject to additional monitoring. This will allow quick identification of new safety information. Healthcare professionals are asked to report any suspected adverse reactions. See section 4.8 for how to report adverse reactions.

1. **NAME OF THE MEDICINAL PRODUCT**

Repatha 140 mg solution for injection in pre-filled syringe
Repatha 140 mg solution for injection in pre-filled pen
Repatha 420 mg solution for injection in cartridge

2. **QUALITATIVE AND QUANTITATIVE COMPOSITION**

Repatha 140 mg solution for injection in pre-filled syringe
Each pre-filled syringe contains 140 mg of evolocumab in 1 mL of solution.

Repatha 140 mg solution for injection in pre-filled pen
Each pre-filled pen contains 140 mg of evolocumab in 1 mL of solution.

Repatha 420 mg solution for injection in cartridge
Each cartridge contains 420 mg of evolocumab in 3.5 mL of solution (120 mg/mL).

Repatha is a human IgG2 monoclonal antibody produced using recombinant DNA technology in Chinese hamster ovary (CHO) cells.

For the full list of excipients, see section 6.1.

3. **PHARMACEUTICAL FORM**

Solution for injection (injection).
Solution for injection (injection) (SureClick).
Solution for injection (injection) (automated mini-doser).

The solution is clear to opalescent, colourless to yellowish, and practically free from particles.

4. **CLINICAL PARTICULARS**

4.1 **Therapeutic indications**

Hypercholesterolaemia and mixed dyslipidaemia

Repatha is indicated in adults with primary hypercholesterolaemia (heterozygous familial and non-familial) or mixed dyslipidaemia, as an adjunct to diet:
- in combination with a statin or statin with other lipid lowering therapies in patients unable to reach LDL-C goals with the maximum tolerated dose of a statin or,
- alone or in combination with other lipid-lowering therapies in patients who are statin-intolerant, or for whom a statin is contraindicated.

Homozygous familial hypercholesterolaemia

Repatha is indicated in adults and adolescents aged 12 years and over with homozygous familial hypercholesterolaemia in combination with other lipid-lowering therapies.

The effect of Repatha on cardiovascular morbidity and mortality has not yet been determined.
4.2 Posology and method of administration

Prior to initiating Repatha, secondary causes of hyperlipidaemia or mixed dyslipidaemia (e.g., nephrotic syndrome, hypothyroidism) should be excluded.

Posology

Primary hypercholesterolaemia and mixed dyslipidaemia in adults
The recommended dose of Repatha is either 140 mg every two weeks or 420 mg once monthly; both doses are clinically equivalent.

Homozygous familial hypercholesterolaemia in adults and adolescents aged 12 years and over
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.

Patients with renal impairment
No dose adjustment is necessary in patients with mild to moderate renal impairment, see section 4.4 for patients with severe renal impairment (eGFR < 30 mL/min/1.73 m²).

Patients with hepatic impairment
No dose adjustment is necessary in patients with mild hepatic impairment, see section 4.4 for patients with moderate and severe hepatic impairment.

Elderly patients (age ≥ 65 years)
No dose adjustment is necessary in elderly patients.

Paediatric population
The safety and efficacy of Repatha in children aged less than 18 years has not been established in the indication for primary hypercholesterolaemia and mixed dyslipidaemia. No data are available.

The safety and efficacy of Repatha in children aged less than 12 years has not been established in the indication for homozygous familial hypercholesterolaemia. No data are available.

Method of administration

Subcutaneous use.

Repatha is for subcutaneous injection into the abdomen, thigh or upper arm region. Injection sites should be rotated and injections should not be given into areas where the skin is tender, bruised, red, or hard. Repatha must not be administered intravenously or intramuscularly.

Repatha 140 mg solution for injection in pre-filled syringe
The 420 mg dose once monthly or every 2 weeks should be delivered using three pre-filled syringes administered consecutively within 30 minutes.

Repatha 140 mg solution for injection in pre-filled pen
The 420 mg dose once monthly or every 2 weeks should be delivered using three pre-filled pens administered consecutively within 30 minutes.

Repatha 420 mg solution for injection in cartridge
The 420 mg dose once monthly or every 2 weeks should be delivered using a single cartridge with the automated mini doser.
Repatha is intended for patient self-administration after proper training. Administration of Repatha can also be performed by an individual who has been trained to administer the product.

For single use only.

For instructions on administration, see section 6.6 and the ‘Instructions for Use’ provided in the carton.

4.3 Contraindications

Hypersensitivity to the active substance or to any of the excipients listed in section 6.1.

4.4 Special warnings and precautions for use

Renal impairment

Patients with severe renal impairment (defined as eGFR < 30 mL/min/1.73 m²) have not been studied (see section 5.3). Repatha should be used with caution in patients with severe renal impairment.

Hepatic impairment

In patients with moderate hepatic impairment, a reduction in total evolocumab exposure was observed that may lead to a reduced effect on LDL-C reduction. Therefore, close monitoring may be warranted in these patients.

Patients with severe hepatic impairment (Child-Pugh C) have not been studied (see section 5.2). Repatha should be used with caution in patients with severe hepatic impairment.

Dry natural rubber

*Repatha 140 mg solution for injection in pre-filled syringe*

The needle cover of the glass pre-filled syringe is made from dry natural rubber (a derivative of latex), which may cause allergic reactions.

*Repatha 140 mg solution for injection in pre-filled pen*

The needle cover of the pre-filled pen is made from dry natural rubber (a derivative of latex), which may cause allergic reactions.

Sodium content

This medicinal product contains less than 1 mmol sodium (23 mg) per dose, i.e. it is essentially ‘sodium-free’.

4.5 Interaction with other medicinal products and other forms of interaction

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

The pharmacokinetic interaction between statins and evolocumab was evaluated in the Repatha clinical trials. An approximately 20% increase in the clearance of evolocumab was observed in patients co-administered statins. This increased clearance is in part mediated by statins increasing the concentration of Proprotein Convertase Subtilisin/Kexin Type 9 (PCSK9) which did not adversely impact the pharmacodynamic effect of evolocumab on lipids. No statin dose adjustments are necessary when used in combination with Repatha.

No studies on pharmacokinetic and pharmacodynamics interaction between Repatha and lipid-lowering drugs other than statins and ezetimibe have been conducted.
4.6 Fertility, pregnancy and lactation

Pregnancy

There are no or limited amount of data from the use of Repatha in pregnant women.

Animal studies do not indicate direct or indirect effects with respect to reproductive toxicity (see section 5.3).

Repatha should not be used during pregnancy unless the clinical condition of the woman requires treatment with evolocumab.

Breast-feeding

It is unknown whether evolocumab is excreted in human milk.

A risk to breastfed newborns/infants cannot be excluded.

A decision must be made whether to discontinue breast-feeding or discontinue/abstain from Repatha therapy taking into account the benefit of breast-feeding for the child and the benefit of therapy for the woman.

Fertility

No data on the effect of evolocumab on human fertility are available. Animal studies did not show any effects on fertility endpoints at area under the concentration time curve (AUC) exposure levels much higher than in patients receiving evolocumab at 420 mg once monthly (see section 5.3).

4.7 Effects on ability to drive and use machines

Repatha has no known influence on the ability to drive and use machines.

4.8 Undesirable effects

Summary of the safety profile

The most commonly reported adverse reactions during primary hypercholesterolaemia and mixed dyslipidaemia pivotal trials, at the recommended doses, were nasopharyngitis (4.8%), upper respiratory tract infection (3.2%), back pain (3.1%), arthralgia (2.2%), influenza (2.3%), and nausea (2.1%). The safety profile in the homozygous familial hypercholesterolaemia population was consistent with that demonstrated in the primary hypercholesterolaemia and mixed dyslipidaemia population.

Tabulated summary of adverse reactions

Adverse reactions reported in pivotal, controlled clinical studies in patients with primary hypercholesterolaemia and mixed dyslipidaemia and homozygous familial hypercholesterolaemia are displayed by system organ class and frequency in table 1 below using the following convention: very common (≥ 1/10), common (≥ 1/100 to < 1/10), uncommon (≥ 1/1,000 to < 1/100), rare (≥ 1/10,000 to < 1/1,000) and very rare (< 1/10,000).
Table 1. Adverse reactions with Repatha

<table>
<thead>
<tr>
<th>MedDRA system organ class (SOC)</th>
<th>Adverse reactions</th>
<th>Frequency category</th>
</tr>
</thead>
<tbody>
<tr>
<td>Infections and infestations</td>
<td>Influenza</td>
<td>Common</td>
</tr>
<tr>
<td></td>
<td>Nasopharyngitis</td>
<td>Common</td>
</tr>
<tr>
<td></td>
<td>Upper respiratory tract infection</td>
<td>Common</td>
</tr>
<tr>
<td>Immune system disorders</td>
<td>Rash</td>
<td>Common</td>
</tr>
<tr>
<td></td>
<td>Urticaria</td>
<td>Uncommon</td>
</tr>
<tr>
<td>Gastrointestinal disorders</td>
<td>Nausea</td>
<td>Common</td>
</tr>
<tr>
<td>Musculoskeletal and connective tissue disorders</td>
<td>Back pain</td>
<td>Common</td>
</tr>
<tr>
<td></td>
<td>Arthralgia</td>
<td>Common</td>
</tr>
<tr>
<td>General disorders and administration site conditions</td>
<td>Injection site reactions</td>
<td>Common</td>
</tr>
</tbody>
</table>

*See section Description of selected adverse reactions

**Description of selected adverse reactions**

**Injection site reactions**
The most frequent injection site reactions were injection site erythema, injection site pain and injection site bruising.

**Paediatric population**

There is limited experience with Repatha in paediatric patients. Fourteen patients aged ≥ 12 to < 18 years with homozygous familial hypercholesterolaemia were included in clinical studies. No difference in safety was observed between adolescent and adult patients with homozygous familial hypercholesterolaemia.

The safety and effectiveness of Repatha in paediatric patients with primary hypercholesterolaemia and mixed dyslipidaemia has not been established.

**Elderly population**

Although no safety issues were observed in patients over 75 years, data are limited in this age subgroup.

Of the 6,026 total number of patients in clinical studies of Repatha, 1,779 (30%) were ≥ 65 years old, while 223 (4%) were ≥ 75 years old. No overall differences in safety or efficacy were observed between these patients and younger patients.

**Immunogenicity**

In clinical studies, 0.1% of patients (7 out of 4,846 patients with primary hyperlipidaemia and mixed dyslipidaemia and 0 out of 80 patients with homozygous familial hypercholesterolaemia) treated with at least one dose of Repatha tested positive for binding antibody development (4 of these patients had transient antibodies). The patients whose sera tested positive for binding antibodies were further evaluated for neutralising antibodies and none of the patients tested positive for neutralising antibodies. The presence of anti-evolocumab binding antibodies did not impact the pharmacokinetic profile, clinical response, or safety of Repatha.

**Reporting of suspected adverse reactions**

Reporting suspected adverse reactions after authorisation of the medicinal product is important. It allows continued monitoring of the benefit/risk balance of the medicinal product. Healthcare
professionals are asked to report any suspected adverse reactions via the national reporting system listed in Appendix V.

4.9 Overdose

No adverse effects were observed in animal studies at exposures up to 300-fold higher than those in patients treated with Repatha at 420 mg once monthly.

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.

5. PHARMACOLOGICAL PROPERTIES

5.1 Pharmacodynamic properties

Pharmacotherapeutic group: Other lipid modifying agents. ATC code: C10AX13

Mechanism of action

Evolocumab binds selectively to PCSK9 and prevents circulating PCSK9 from binding to the low density lipoprotein receptor (LDLR) on the liver cell surface, thus preventing PCSK9-mediated LDLR degradation. Increasing liver LDLR levels results in associated reductions in serum LDL-cholesterol (LDL-C).

Pharmacodynamic effects

In clinical trials, Repatha reduced unbound PCSK9, LDL-C, TC, ApoB, non-HDL-C, TC/HDL-C, ApoB/ApoA1, VLDL-C, TG and Lp(a), and increased HDL-C and ApoA1 in patients with primary hypercholesterolaemia and mixed dyslipidaemia.

A single subcutaneous administration of Repatha 140 mg or 420 mg resulted in maximum suppression of circulating unbound PCSK9 by 4 hours followed by a reduction in LDL-C reaching a mean nadir in response by 14 and 21 days, respectively. Changes in unbound PCSK9 and serum lipoproteins were reversible upon discontinuation of Repatha. No increase in unbound PCSK9 or LDL-C above baseline was observed during the washout of evolocumab suggesting that compensatory mechanisms to increase production of PCSK9 and LDL-C do not occur during treatment.

Subcutaneous regimens of 140 mg every 2 weeks and 420 mg once monthly were equivalent in average LDL-C lowering (mean of weeks 10 and 12) resulting in -72 to -57% from baseline compared with placebo. Treatment with Repatha resulted in a similar reduction of LDL-C when used alone or in combination with other lipid-lowering therapy. The effect of LDL-C lowering is sustained; the longest duration measured was 112 weeks.

Clinical efficacy in primary hypercholesterolaemia and mixed dyslipidaemia

LDL-C reduction of approximately 55% to 75% was achieved with Repatha as early as week 1 and maintained during long-term therapy. Maximal response was generally achieved within 1 to 2 weeks after dosing with 140 mg every 2 weeks and 420 mg once monthly.

In 80-85% of all patients treated with either dose, Repatha demonstrated a ≥ 50% reduction in LDL-C at the mean of weeks 10 and 12. Up to 99% of patients treated with either dose of Repatha achieved an LDL-C of < 2.6 mmol/L and up to 95% achieved an LDL-C < 1.8 mmol/L at the mean of weeks 10 and 12.

Repatha at either dose was effective in all subgroups relative to placebo and ezetimibe, with no notable differences observed between subgroups, such as age, race, gender, region, body-mass index,
National Cholesterol Education Program risk, current smoking status, baseline coronary heart disease (CHD) risk factors, family history of premature CHD, glucose tolerance status, (i.e., diabetes mellitus type 2, metabolic syndrome, or neither), hypertension, statin dose and intensity, unbound baseline PCSK9, baseline LDL-C and baseline TG.


Repatha was superior to ezetimibe in reducing LDL-C, TC, ApoB, non-HDL-C, Lp(a), TC/HDL-C, and ApoB/ApoA1.

Combination with a statin and statin with other lipid-lowering therapies

LAPLACE-2 was an international, multicentre, double-blind, randomised, 12-week study in 1,896 patients with primary hypercholesterolaemia or mixed dyslipidaemia who were randomised to receive Repatha in combination with statins (rosuvastatin, simvastatin or atorvastatin). Repatha was compared to placebo for the rosuvastatin and simvastatin groups and compared with placebo and ezetimibe for the atorvastatin group.

Repatha significantly reduced LDL-C from baseline to mean of weeks 10 and 12 compared with placebo for the rosuvastatin and simvastatin groups and compared with placebo and ezetimibe for the atorvastatin group (p < 0.001). Repatha significantly reduced TC, ApoB, non-HDL-C, TC/HDL-C, ApoB/ApoA1, VLDL-C, TG and Lp(a) and increased HDL-C from baseline to mean of weeks 10 and 12 as compared to placebo for the rosuvastatin and simvastatin groups (p < 0.05) and significantly reduced TC, ApoB, non-HDL-C, TC/HDL-C, ApoB/ApoA1 and Lp(a), compared with placebo and ezetimibe for the atorvastatin group (p < 0.001) (see tables 2 and 3).

RUTHERFORD-2 was an international, multicentre, double-blind, randomised, placebo-controlled, 12-week study in 329 patients with heterozygous familial hypercholesterolaemia on lipid-lowering therapies. Repatha significantly reduced LDL-C from baseline to mean of weeks 10 and 12 compared with placebo (p < 0.001). Repatha significantly reduced TC, ApoB, non-HDL-C, TC/HDL-C, ApoB/ApoA1 VLDL-C, TG and Lp(a) and increased HDL-C and ApoA1 from baseline to mean of weeks 10 and 12 compared to placebo (p < 0.05) (see table 2).
Table 2: Treatment effects of Repatha compared with placebo in patients with primary hypercholesterolaemia and mixed dyslipidaemia - mean percent change from baseline to average of weeks 10 and 12 (%, CI 95%)

<table>
<thead>
<tr>
<th>Study</th>
<th>Dose regimen</th>
<th>LDL-C (%)</th>
<th>Non-HDL-C (%)</th>
<th>Apo B (%)</th>
<th>TC (%)</th>
<th>Lp(a) (%)</th>
<th>VLDL-C (%)</th>
<th>HDL-C (%)</th>
<th>TG (%)</th>
<th>ApoA1 (%)</th>
<th>TC/HDL-C Ratio %</th>
<th>ApoB/ApoA1 Ratio %</th>
</tr>
</thead>
<tbody>
<tr>
<td>LAPLACE-2 (HMD) (combined rosvuavstatin, simvastatin, &amp; atorvastatin groups)</td>
<td>140 mg Q2W (N = 555)</td>
<td>-72b (75-69)</td>
<td>-60b (-63-58)</td>
<td>-56b (-58-53)</td>
<td>-41b (-43-39)</td>
<td>-30b (-35-25)</td>
<td>-18b (-23-14)</td>
<td>6b (4-8)</td>
<td>-17b (-22-13)</td>
<td>3b (1,5)</td>
<td>-45b (-47-42)</td>
<td>-56b (-59-53)</td>
</tr>
<tr>
<td>RUTHERFORD D-2 (HeFH)</td>
<td>420 mg QM (N = 562)</td>
<td>-69b (73-65)</td>
<td>-60b (-63-57)</td>
<td>-56b (-58-53)</td>
<td>-40b (-42-37)</td>
<td>-27b (-31-24)</td>
<td>-22b (-28-17)</td>
<td>8b (6,10)</td>
<td>-23b (-28-17)</td>
<td>5b (3,7)</td>
<td>-46b (-48-43)</td>
<td>-58b (-60-55)</td>
</tr>
<tr>
<td></td>
<td>140 mg Q2W (N = 110)</td>
<td>-61b (67-55)</td>
<td>-56b (-61-51)</td>
<td>-49b (-54-44)</td>
<td>-42b (-46-38)</td>
<td>-31b (-38-24)</td>
<td>-23b (-29-16)</td>
<td>8b (4,12)</td>
<td>-22b (-29-15)</td>
<td>7a (3,12)</td>
<td>-47b (-51-42)</td>
<td>-53 (-58-48)</td>
</tr>
<tr>
<td></td>
<td>420 mg QM (N = 110)</td>
<td>-66b (72-61)</td>
<td>-60b (-65-55)</td>
<td>-55b (-60-50)</td>
<td>-44b (-48-40)</td>
<td>-31b (-38-24)</td>
<td>-16b (-23-8)</td>
<td>9b (5,14)</td>
<td>-17b (-24-9)</td>
<td>5a (1,9)</td>
<td>-49b (-54-44)</td>
<td>-56b (-61-50)</td>
</tr>
</tbody>
</table>

Key: Q2W = once every 2 weeks, QM = once monthly, HMD = Primary hypercholesterolaemia and mixed dyslipidaemia; HeFH = Heterozygous familial hypercholesterolaemia; b p value < 0.05 when compared with placebo.

Statin intolerant patients

GAUSS-2 was an international, multicentre, double-blind, randomised, ezetimibe-controlled, 12-week study in 307 patients who were statin-intolerant or unable to tolerate an effective dose of a statin. Repatha significantly reduced LDL-C compared with ezetimibe (p < 0.001). Repatha significantly reduced TC, ApoB, non-HDL-C, TC/HDL-C, ApoB/ApoA1 and Lp(a), from baseline to mean of weeks 10 and 12 compared to ezetimibe (p < 0.001) (see table 3).

Treatment in the absence of a statin

MENDEL-2 was an international, multicentre, double-blind, randomised, placebo and ezetimibe-controlled, 12-week study of Repatha in 614 patients with primary hypercholesterolaemia and mixed dyslipidaemia. Repatha significantly reduced LDL-C from baseline to mean of weeks 10 and 12 compared with both placebo and ezetimibe (p < 0.001). Repatha significantly reduced TC, ApoB, non-HDL-C, TC/HDL-C, ApoB/ApoA1 and Lp(a), from baseline to mean of weeks 10 and 12 compared with both placebo and ezetimibe (p < 0.001) (see table 3).
Table 3: Treatment effects of Repatha compared with ezetimibe in patients with primary hypercholesterolaemia and mixed dyslipidaemia - mean percent change from baseline to average of weeks 10 and 12 (%, 95% CI)

<table>
<thead>
<tr>
<th>Study</th>
<th>Dose regimen</th>
<th>LDL-C (%)</th>
<th>Non-HDL-C (%)</th>
<th>Apo B (%)</th>
<th>TC (%)</th>
<th>Lp(a) (%)</th>
<th>VLDL-C (%)</th>
<th>HDL-C (%)</th>
<th>TG (%)</th>
<th>ApoA1 (%)</th>
<th>TC/HDL-C Ratio %</th>
<th>ApoB/ApoA1 Ratio %</th>
</tr>
</thead>
<tbody>
<tr>
<td>LAPLACE-2</td>
<td>Q2W (N = 219)</td>
<td>-43c (-50, -37)</td>
<td>-34c (-39, -30)</td>
<td>-34c (-38, -30)</td>
<td>-23c (-26, -19)</td>
<td>-30c (-35, -25)</td>
<td>-1 (-7, 5)</td>
<td>7c (4, 10)</td>
<td>-2 (-9, 5)</td>
<td>7c (-30, -23)</td>
<td>-38c (-42, -34)</td>
<td></td>
</tr>
<tr>
<td>(HMD) (combined atorvastatin groups)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>GAUSS-2</td>
<td>Q2W (N = 102)</td>
<td>-38 (-44, -33)</td>
<td>-32 -39, -31</td>
<td>-32 -39, -30</td>
<td>-24 -31, -17</td>
<td>-2 (-10, 7)</td>
<td>2 (1, 10)</td>
<td>3 (-11, 6)</td>
<td>5a (2, 9)</td>
<td>27c (-32, -23)</td>
<td>-35b (-40, -30)</td>
<td></td>
</tr>
<tr>
<td>(statin intolerant)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MENDEL-2</td>
<td>Q2W (N = 153)</td>
<td>-40 (-44, -37)</td>
<td>-36 -39, -32</td>
<td>-34 -39, -30</td>
<td>-28 -30, -23</td>
<td>-25 -34, -17</td>
<td>-4 (-13, 6)</td>
<td>6 (1, 10)</td>
<td>-6 (-17, 4)</td>
<td>3 (1, 7)</td>
<td>30c (-35, -25)</td>
<td>-36b (-42, -31)</td>
</tr>
<tr>
<td>(treatment in the absence of a statin)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Key: Q2W = once every 2 weeks, QM = once monthly, HMD = Primary hypercholesterolaemia and mixed dyslipidaemia, a p value < 0.05 when compared with ezetimibe, b p value < 0.001 when compared with ezetimibe, c nominal p value < 0.001 when compared with ezetimibe.

Long-term efficacy in primary hypercholesterolaemia and mixed dyslipidaemia

DESCARTES was an international, multicentre, double-blind, randomised, placebo-controlled, 52-week study in 901 patients with hyperlipidaemia who received diet alone, atorvastatin, or a combination of atorvastatin and ezetimibe. Repatha 420 mg once monthly significantly reduced LDL-C from baseline at 52 weeks compared with placebo (p < 0.001). Treatment effects were sustained over 1 year as demonstrated by reduction in LDL-C from week 12 to week 52. Reduction in LDL-C from baseline at week 52 compared with placebo was consistent across background lipid-lowering therapies optimised for LDL-C and cardiovascular risk.

Repatha significantly reduced TC, ApoB, non-HDL-C, TC/HDL-C, ApoB/ApoA1, VLDL-C, TG and Lp(a), and increased HDL-C and ApoA1 at week 52 compared with placebo (p < 0.001) (table 4).

Table 4: Treatment effects of Repatha compared with placebo in patients with primary hypercholesterolaemia and mixed dyslipidaemia - mean percent change from baseline to week 52 (%, 95% CI)

<table>
<thead>
<tr>
<th>Study</th>
<th>Dose regimen</th>
<th>LDL-C (%)</th>
<th>Non-HDL-C (%)</th>
<th>Apo B (%)</th>
<th>TC (%)</th>
<th>Lp(a) (%)</th>
<th>VLDL-C (%)</th>
<th>HDL-C (%)</th>
<th>TG (%)</th>
<th>ApoA1 (%)</th>
<th>TC/HDL-C Ratio %</th>
<th>ApoB/ApoA1 Ratio %</th>
</tr>
</thead>
<tbody>
<tr>
<td>DESCARTES</td>
<td>Q2W (N = 509)</td>
<td>-59b (-64, -55)</td>
<td>-50b (-54, -46)</td>
<td>-44b (-48, -41)</td>
<td>-33b (-36, -31)</td>
<td>-22b (-26, -19)</td>
<td>-29b (-30, -18)</td>
<td>5b (3, 8)</td>
<td>-12b (-17, -6)</td>
<td>3a (1, 5)</td>
<td>-37b (-40, -34)</td>
<td>-46b (-50, -43)</td>
</tr>
</tbody>
</table>

Key: QM = once monthly, a nominal p value < 0.001 when compared with placebo, b p value < 0.001 when compared with placebo.

OSLER and OSLER-2 are two ongoing, randomised, controlled, open-label extension studies to assess the long-term safety and efficacy of Repatha in patients who completed treatment in a ‘parent’ study.
In each extension study, patients were randomised 2:1 to receive either Repatha plus standard of care (evolocumab group) or standard of care alone (control group) for the first year of the study. At the end of the first year (week 52 in OSLER and week 48 in OSLER-2), patients were eligible to enter the all Repatha period in which all patients could receive open-label Repatha for either another 4 years (OSLER) or 1 year (OSLER-2).

A total of 1,324 patients enrolled in OSLER. Repatha 420 mg once monthly significantly reduced LDL-C from baseline at week 12 and week 52 compared with control (nominal \( p < 0.001 \)). Treatment effects were maintained over 12 weeks as demonstrated by reduction in LDL-C from week 12 in the parent study to week 112 in the open-label extension. A total of 2,928 patients enrolled in OSLER-2. Repatha significantly reduced LDL-C from baseline at week 12 compared with control (nominal \( p < 0.001 \)). Treatment effects were maintained as demonstrated by reduction in LDL-C from week 12 to week 24 in the open-label extension. Repatha significantly reduced TC, ApoB, non-HDL-C, TC/HDL-C, ApoB/ApoA1, VLDL-C, TG and Lp(a) , and increased HDL-C and ApoA1 from baseline to week 52 in OSLER and to week 24 in OSLER-2 compared with control (nominal \( p < 0.001 \)). LDL-C and other lipid parameters returned to baseline within 12 weeks after discontinuation of Repatha at the beginning of OSLER or OSLER-2 without evidence of rebound.

TAUSSIG is an ongoing multicentre, open-label, 5-year extension study to assess the long-term safety and efficacy of Repatha, as an adjunct to other lipid lowering therapies, in patients with severe familial hypercholesterolaemia, including homozygous familial hypercholesterolaemia. A total of 102 severe familial hypercholesterolaemia patients and 96 homozygous familial hypercholesterolaemia patients enrolled in TAUSSIG. All patients in the study were initially treated with Repatha 420 mg once monthly, except for those receiving apheresis at enrolment who began with Repatha 420 mg once every 2 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. Long-term use of Repatha demonstrated a sustained treatment effect as evidenced by reduction of LDL-C in patients with severe familial hypercholesterolaemia (table 5).

Changes in other lipid parameters (TC, ApoB, non-HDL-C, TC/HDL-C, and ApoB/ApoA1) also demonstrated a sustained effect of long-term Repatha administration in patients with severe familial hypercholesterolaemia.

**Table 5: Effect of Repatha on LDL-C in patients with severe familial hypercholesterolaemia – median percent change from baseline to OLE week 36**

<table>
<thead>
<tr>
<th>Patient population (N)</th>
<th>OLE week 12 (n = 16)</th>
<th>OLE week 24 (n = 8)</th>
<th>OLE week 36 (n = 5)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Severe FH (N = 102)</td>
<td>-47</td>
<td>-45</td>
<td>-48</td>
</tr>
</tbody>
</table>

Key: OLE = open-label extension. N (n) = Number of evaluable patients (N) and patients with observed LDL values at specific scheduled visit (n) in the severe familial hypercholesterolaemia interim analysis set.

The clinical relevance, including the long-term safety, of sustained very low levels of LDL-C (i.e., < 0.65 mmol/L [< 25 mg/dL]) have not yet been established. Available data demonstrate that there are no clinically meaningful differences between the safety profiles of patients with LDL-C levels < 0.65 mmol/L and those with higher LDL-C, see section 4.8.

**Clinical efficacy in homozygous familial hypercholesterolaemia**

TESLA was an international, multicentre, double-blind, randomised, placebo-controlled 12-week study in 49 homozygous familial hypercholesterolaemia patients aged 12 to 65 years. Repatha 420 mg once monthly, as an adjunct to other lipid-lowering therapies (e.g., statins, bile-acid sequestrants), significantly reduced LDL-C and ApoB at week 12 compared with placebo (\( p < 0.001 \)) (table 6). Changes in other lipid parameters (TC, non-HDL-C, TC/HDL-C, and ApoB/ApoA1) also demonstrated a treatment effect of Repatha administration in patients with homozygous familial hypercholesterolaemia.
See section 4.2 for information on paediatric use.

adolescent and adult patients with homozygous familial hypercholesterolaemia. There are limited data available on the use of Repatha in the paediatric population. Fourteen adolescent patients aged ≥ 12 to < 18 years with homozygous familial hypercholesterolaemia have been included in clinical trials. No overall differences in safety or efficacy were observed between adolescent and adult patients with homozygous familial hypercholesterolaemia.

See section 4.2 for information on paediatric use.

### Table 6: Treatment effects of Repatha compared with placebo in patients with homozygous familial hypercholesterolaemia - mean percent change from baseline to week 12 (%; CI 95%)

<table>
<thead>
<tr>
<th>Study</th>
<th>Dose regimen</th>
<th>LDL-C (%)</th>
<th>Non-HDL-C (%)</th>
<th>Apo B (%)</th>
<th>TC (%)</th>
<th>Lp(a) (%)</th>
<th>VLDL-C (%)</th>
<th>HDL-C (%)</th>
<th>TG (%)</th>
<th>TC/ HDL-C Ratio %</th>
<th>ApoB/ApoA1 Ratio %</th>
</tr>
</thead>
<tbody>
<tr>
<td>TESLA (HoFH)</td>
<td>420 mg QM (N = 33)</td>
<td>-32(^b) (-45, -19)</td>
<td>-30(^a) (-42, -18)</td>
<td>-23(^b) (-35, -11)</td>
<td>-27(^a) (-38, -16)</td>
<td>-12 (-25, 2)</td>
<td>-44 (-128, 40)</td>
<td>-0.1 (-9, 9)</td>
<td>0.3 (-15, 16)</td>
<td>-26(^a) (-38, -14)</td>
<td>-28(^a) (-39, -17)</td>
</tr>
</tbody>
</table>

Key: HoFH = homozygous familial hypercholesterolaemia; QM = once monthly; \(^a\) nominal p value < 0.001 when compared with placebo; \(^b\) p value < 0.001 when compared with placebo.

### Long-term efficacy in homozygous familial hypercholesterolaemia

In TAUSSIG, long-term use of Repatha demonstrated a sustained treatment effect as evidenced by reduction of LDL-C of approximately 20% to 30% in patients with homozygous familial hypercholesterolaemia not on apheresis and approximately 15% to 25% in patients with homozygous familial hypercholesterolaemia on apheresis (table 7). Changes in other lipid parameters (TC, ApoB, non-HDL-C, TC/HDL-C, and ApoB/ApoA1) also demonstrated a sustained effect of long-term Repatha administration in patients with homozygous familial hypercholesterolaemia. Reductions in LDL-C and changes in other lipid parameters in 13 adolescent patients (aged ≥ 12 to < 18 years) with homozygous familial hypercholesterolaemia are comparable to those in the overall population of patients with homozygous familial hypercholesterolaemia.

### Table 7: Effect of Repatha on LDL-C in patients with homozygous familial hypercholesterolaemia - mean percent change from baseline to OLE week 36

<table>
<thead>
<tr>
<th>Patient population (N)</th>
<th>OLE week 12</th>
<th>OLE week 24</th>
<th>OLE week 36</th>
</tr>
</thead>
<tbody>
<tr>
<td>HoFH (N = 96)</td>
<td>-20 (n = 70)</td>
<td>-23 (n = 46)</td>
<td>-24 (n = 30)</td>
</tr>
<tr>
<td>Non-apheresis (N = 65)</td>
<td>-22 (n = 46)</td>
<td>-24 (n = 33)</td>
<td>-24 (n = 27)</td>
</tr>
<tr>
<td>Apheresis (N = 31)</td>
<td>-17 (n = 24)</td>
<td>-20 (n = 13)</td>
<td>-21 (n = 3)</td>
</tr>
</tbody>
</table>

Key: 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 interim analysis set.

The effect of Repatha on cardiovascular morbidity and mortality has not yet been demonstrated.

### Paediatric population

The European Medicines Agency has waived the obligation to submit the results of studies with Repatha in all subsets of the paediatric population in the treatment of mixed dyslipidaemia.

The European Medicines Agency has deferred the obligation to submit the results of studies with Repatha in one or more subsets of the paediatric population in the treatment of elevated cholesterol.

There are limited data available on the use of Repatha in the paediatric population. Fourteen adolescent patients aged ≥ 12 to < 18 years with homozygous familial hypercholesterolaemia have been included in clinical trials. No overall differences in safety or efficacy were observed between adolescent and adult patients with homozygous familial hypercholesterolaemia.

See section 4.2 for information on paediatric use.
5.2 Pharmacokinetic properties

Absorption and distribution

Following a single subcutaneous dose of 140 mg or 420 mg Repatha administered to healthy adults, median peak serum concentrations were attained in 3 to 4 days. Administration of single subcutaneous dose of 140 mg resulted in a $C_{\text{max}}$ mean (SD) of 13.0 (10.4) $\mu g/mL$ and AUC$_{\text{last}}$ mean (SD) of 96.5 (78.7) day$\cdot$$\mu g/mL$. Administration of single subcutaneous dose 420 mg resulted in a $C_{\text{max}}$ mean (SD) of 46.0 (17.2) $\mu g/mL$ and AUC$_{\text{last}}$ mean (SD) of 842 (333) day$\cdot$$\mu g/mL$. Three subcutaneous 140 mg doses were bioequivalent to a single subcutaneous 420 mg dose. The absolute bioavailability after SC dosing was determined to be 72% from pharmacokinetic models.

Following a single 420 mg Repatha intravenous dose, the mean (SD) steady-state volume of distribution was estimated to be 3.3 (0.5) L, suggesting evolocumab has limited tissue distribution.

Biotransformation

Repatha is composed solely of amino acids and carbohydrates as native immunoglobulin and is unlikely to be eliminated via hepatic metabolic mechanisms. Its metabolism and elimination are expected to follow the immunoglobulin clearance pathways, resulting in degradation to small peptides and individual amino acids.

Elimination

Evolocumab was estimated to have an effective half-life of 11 to 17 days.

In patients with primary hypercholesterolaemia or mixed dyslipidaemia on high dose statin, the systemic exposure of evolocumab was slightly lower than in subjects on low-to-moderate dose statin (the ratio of AUC$_{\text{last}}$ 0.74 [90% CI 0.29; 1.9]). An approximately 20% increase in the clearance is in part mediated by statins increasing the concentration of PCSK9 which did not adversely impact the pharmacodynamic effect of evolocumab on lipids. Population pharmacokinetic analysis indicated no appreciable differences in evolocumab serum concentrations in hypercholesterolaemic patients (non-familial hypercholesterolaemia or familial hypercholesterolaemia) taking concomitant statins.

Linearity/non-linearity

Following a single 420 mg intravenous dose, the mean (SD) systemic clearance was estimated to be 12 (2) mL/hr. In clinical studies with repeated subcutaneous dosing over 12 weeks, dose proportional increases in exposure were observed with dose regimens of 140 mg and greater. An approximate two to three-fold accumulation was observed in trough serum concentrations ($C_{\text{min}}$ (SD) 7.21 (6.6)) following 140 mg doses every 2 weeks or following 420 mg doses administered monthly ($C_{\text{min}}$ (SD) 11.2 (10.8)), and serum trough concentrations approached steady-state by 12 weeks of dosing. No time dependent changes were observed in serum concentrations over a period of 124 weeks.

Renal impairment

No dose adjustment is necessary in patients with mild to moderate renal impairment. Population pharmacokinetic analysis of integrated data from the Repatha clinical trials did not reveal a difference in pharmacokinetics of evolocumab in patients with mild or moderate renal impairment relative to non-renally impaired patients. Repatha has not been studied in patients with severe renal impairment (see section 4.4).

Hepatic impairment

No dose adjustment is necessary in patients with mild hepatic impairment (Child-Pugh class A). Single 140 mg subcutaneous doses of Repatha were studied in 8 patients with mild hepatic
impairment, 8 patients with moderate hepatic impairment and 8 healthy subjects. The exposure to evolocumab was found to be approximately 40-50% lower compared to healthy subjects. However, baseline PCSK9 levels and the degree and time course of PCSK9 neutralisation were found to be similar between patients with mild or moderate hepatic impairment and healthy volunteers. This resulted in similar time course and extent of absolute LDL-C lowering. Repatha has not been studied in patients with severe hepatic impairment (Child-Pugh class C) (see section 4.4).

**Body Weight**

Body weight was a significant covariate in population PK analysis impacting evolocumab trough concentrations, however there was no impact on LDL-C reduction. Following repeat subcutaneous administration of 140 mg every 2 weeks, the 12 week trough concentrations were 147% higher and 70% lower in patients of 69 kg and 93 kg respectively, than that of the typical 81 kg subject. Less impact from body weight was seen with repeated subcutaneous evolocumab 420 mg monthly doses.

**Other special populations**

Population pharmacokinetic analyses suggest that no dose adjustments are necessary for age, race or gender. The pharmacokinetics of evolocumab were influenced by body weight without having any notable effect on LDL-C lowering. Therefore, no dose adjustments are necessary based on body weight.

5.3 Preclinical safety data

Evolocumab was not carcinogenic in hamsters at exposures much higher than patients receiving evolocumab at 420 mg once monthly. The mutagenic potential of evolocumab has not been evaluated.

In hamsters and cynomolgus monkeys at exposures much higher than patients receiving 420 mg evolocumab once monthly, no effect on male or female fertility was observed.

In cynomolgus monkeys at exposures much higher than patients receiving 420 mg evolocumab once monthly, no effects on embryo-foetal or postnatal development (up to 6 months of age) were observed.

Apart from a reduced T-cell Dependent Antibody Response in cynomolgus monkeys immunised with keyhole limpet hemocyanin (KLH) after 3 months of treatment with evolocumab, no adverse effects were observed in hamsters (up to 3 months) and cynomolgus monkeys (up to 6 months) at exposures much higher than patients receiving evolocumab at 420 mg once monthly. The intended pharmacological effect of decreased serum LDL-C and total cholesterol were observed in these studies and was reversible upon cessation of treatment.

In combination with rosuvastatin for 3 months, no adverse effects were observed in cynomolgus monkeys at exposures much higher than patients receiving 420 mg evolocumab once monthly. Reductions in serum LDL-C and total cholesterol were more pronounced than observed previously with evolocumab alone, and were reversible upon cessation of treatment.

6. PHARMACEUTICAL PARTICULARS

6.1 List of excipients

- Proline
- Glacial acetic acid
- Polysorbate 80
- Sodium hydroxide (for pH adjustment)
- Water for injections
6.2 Incompatibilities

In the absence of compatibility studies, this medicinal product must not be mixed with other medicinal products.

6.3 Shelf life

2 years.

6.4 Special precautions for storage

Store in a refrigerator (2°C – 8°C). Do not freeze.

Repatha 140 mg solution for injection in pre-filled syringe
Keep in the original carton in order to protect from light.

Repatha 140 mg solution for injection in pre-filled pen
Keep in the original carton in order to protect from light.

Repatha 420 mg solution for injection in cartridge
Keep in the original carton in order to protect from light and moisture.

If removed from the refrigerator, Repatha may be stored at room temperature (up to 25°C) in the original carton and must be used within 1 month.

6.5 Nature and contents of container

Repatha 140 mg solution for injection in pre-filled syringe

One mL solution in a single use pre-filled syringe made from type I glass with stainless steel 27 gauge needle.

The needle cover of the pre-filled syringe is made from dry natural rubber (a derivative of latex, see section 4.4).

Pack size of one pre-filled syringe.

Repatha 140 mg solution for injection in pre-filled pen

One mL solution in a single use pre-filled pen made from type I glass with stainless steel 27 gauge needle.

The needle cover of the pre-filled pen is made from dry natural rubber (a derivative of latex, see section 4.4).

Pack sizes of one, two, three or multipack of six (3x2) pre-filled pens.

Repatha 420 mg solution for injection in cartridge

A 3.5 mL solution in a single use cartridge made from cyclic olefin polymer with elastomer septum and piston as product-contact materials, and a resin cap. The pre-filled cartridge is assembled with a telescopic screw device component. The cartridge assembly is co-packed with an administration device. The fluid path within the administration device is made from stainless steel and non-DEHP polyvinyl chloride, with a stainless steel 29 gauge needle. The administration device contains silver oxide-zinc batteries and includes an adhesive patch made from polyester tape with an acrylate adhesive. The administration device is designed for use only with the provided 3.5 mL pre-filled cartridge assembly.
Pack sizes of one cartridge/automated mini doser or multipack of three (3x1) cartridges/automated mini dosers.

Not all pack sizes may be marketed.

6.6 Special precautions for disposal and other handling

Before administration, the solution should be inspected. Do not inject the solution if it contains particles, or is cloudy or discoloured. To avoid discomfort at the site of injection, allow the medicine to reach room temperature (up to 25°C) before injecting. Inject the entire contents.

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

7. MARKETING AUTHORISATION HOLDER

Amgen Europe B.V.
Minervum 7061
4817 ZK Breda
The Netherlands

8. MARKETING AUTHORISATION NUMBER(S)

Repatha 140 mg solution for injection in pre-filled syringe

EU/1/15/1016/001 - 1 pre-filled syringe

Repatha 140 mg solution for injection in pre-filled pen

EU/1/15/1016/002 - 1 pre-filled pen
EU/1/15/1016/003 - 2 pre-filled pens
EU/1/15/1016/004 - 3 pre-filled pens
EU/1/15/1016/005 - 6 (3x2) pre-filled pens (multipack)

Repatha 420 mg solution for injection in cartridge

EU/1/15/1016/006 - 1 cartridge with co-packed automated mini doser
EU/1/15/1016/007 – 3 (3x1) cartridges with co-packed automated mini dosers (multipack)

9. DATE OF FIRST AUTHORISATION/RENEWAL OF THE AUTHORISATION

Date of first authorisation: 17 July 2015

10. DATE OF REVISION OF THE TEXT

Detailed information on this medicinal product is available on the website of the European Medicines Agency http://www.ema.europa.eu.
ANNEX II

A. MANUFACTURER OF THE BIOLOGICAL ACTIVE SUBSTANCE AND MANUFACTURERS RESPONSIBLE FOR BATCH RELEASE

B. CONDITIONS OR RESTRICTIONS REGARDING SUPPLY AND USE

C. OTHER CONDITIONS AND REQUIREMENTS OF THE MARKETING AUTHORISATION

D. CONDITIONS OR RESTRICTIONS WITH REGARD TO THE SAFE AND EFFECTIVE USE OF THE MEDICINAL PRODUCT
A. MANUFACTURER OF THE BIOLOGICAL ACTIVE SUBSTANCE AND MANUFACTURERS RESPONSIBLE FOR BATCH RELEASE

Name and address of the manufacturer of the biological active substance
Immunex Rhode Island Corporation
40 Technology Way
West Greenwich
Rhode Island, 02817
United States

Name and address of the manufacturers responsible for batch release
Amgen Europe B.V.
Minervum 7061
4817 ZK Breda
The Netherlands

Amgen Technology (Ireland) Unlimited Company
Pottery Road
Dun Laoghaire
Co Dublin
Ireland

Amgen NV
Arianelaan 5
1200 Brussel
Belgium

The printed package leaflet of the medicinal product must state the name and address of the manufacturer responsible for the release of the concerned batch.

B. CONDITIONS OR RESTRICTIONS REGARDING SUPPLY AND USE

Medicinal product subject to medical prescription.

C. OTHER CONDITIONS AND REQUIREMENTS OF THE MARKETING AUTHORISATION

- Periodic Safety Update Reports

The requirements for submission of periodic safety update reports for this medicinal product are set out in the list of Union reference dates (EURD list) provided for under Article 107c(7) of Directive 2001/83/EC and any subsequent updates published on the European medicines web-portal.

D. CONDITIONS OR RESTRICTIONS WITH REGARD TO THE SAFE AND EFFECTIVE USE OF THE MEDICINAL PRODUCT

- Risk Management Plan (RMP)

The MAH shall perform the required pharmacovigilance activities and interventions detailed in the agreed RMP presented in Module 1.8.2 of the Marketing Authorisation and any agreed subsequent updates of the RMP.
An updated RMP should be submitted:

- At the request of the European Medicines Agency;
- Whenever the risk management system is modified, especially as the result of new information being received that may lead to a significant change to the benefit/risk profile or as the result of an important (pharmacovigilance or risk minimisation) milestone being reached.
ANNEX III

LABELLING AND PACKAGE LEAFLET
A. LABELLING
PARTICULARS TO APPEAR ON THE OUTER PACKAGING

CARTON PRE-FILLED SYRINGE

1. NAME OF THE MEDICINAL PRODUCT

Repatha 140 mg solution for injection in pre-filled syringe

evolocumab

2. STATEMENT OF ACTIVE SUBSTANCE(S)

Each pre-filled syringe contains 140 mg of evolocumab in 1 mL of solution.

3. LIST OF EXCIPIENTS

Proline, glacial acetic acid, polysorbate 80, sodium hydroxide, water for injections.

4. PHARMACEUTICAL FORM AND CONTENTS

Solution for injection.

1 pre-filled syringe.

5. METHOD AND ROUTE(S) OF ADMINISTRATION

For subcutaneous use.
Read the package leaflet before use.

6. SPECIAL WARNING THAT THE MEDICINAL PRODUCT MUST BE STORED OUT OF THE SIGHT AND REACH OF CHILDREN

Keep out of the sight and reach of children.

7. OTHER SPECIAL WARNING(S), IF NECESSARY

Contains latex, read the package leaflet before use.

8. EXPIRY DATE

EXP

9. SPECIAL STORAGE CONDITIONS

Store in a refrigerator.
Do not freeze.
Store in the original carton in order to protect from light.
<table>
<thead>
<tr>
<th>10.</th>
<th>SPECIAL PRECAUTIONS FOR DISPOSAL OF UNUSED MEDICINAL PRODUCTS OR WASTE MATERIALS DERIVED FROM SUCH MEDICINAL PRODUCTS, IF APPROPRIATE</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>11.</th>
<th>NAME AND ADDRESS OF THE MARKETING AUTHORISATION HOLDER</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Amgen Europe B.V.</td>
</tr>
<tr>
<td></td>
<td>Minervum 7061,</td>
</tr>
<tr>
<td></td>
<td>NL-4817 ZK Breda, The Netherlands</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>12.</th>
<th>MARKETING AUTHORISATION NUMBER(S)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>EU/1/15/1016/001</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>13.</th>
<th>BATCH NUMBER</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Lot</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>14.</th>
<th>GENERAL CLASSIFICATION FOR SUPPLY</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>15.</th>
<th>INSTRUCTIONS ON USE</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>16.</th>
<th>INFORMATION IN BRAILLE</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Repatha 140 syringe</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>17.</th>
<th>UNIQUE IDENTIFIER – 2D BARCODE</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>2D barcode carrying the unique identifier included</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>18.</th>
<th>UNIQUE IDENTIFIER - HUMAN READABLE DATA</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>PC</td>
</tr>
<tr>
<td></td>
<td>SN</td>
</tr>
<tr>
<td>MINIMUM PARTICULARS TO APPEAR ON BLISTERS OR STRIPS</td>
<td></td>
</tr>
<tr>
<td>---------------------------------------------------</td>
<td></td>
</tr>
<tr>
<td>PRE-FILLED SYRINGE BLISTER</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>1. NAME OF THE MEDICINAL PRODUCT</th>
</tr>
</thead>
<tbody>
<tr>
<td>Repatha 140 mg solution for injection evolocumab</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>2. NAME OF THE MARKETING AUTHORISATION HOLDER</th>
</tr>
</thead>
<tbody>
<tr>
<td>Amgen Europe B.V.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>3. EXPIRY DATE</th>
</tr>
</thead>
<tbody>
<tr>
<td>EXP</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>4. BATCH NUMBER</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lot</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>5. OTHER</th>
</tr>
</thead>
<tbody>
<tr>
<td>MINIMUM PARTICULARS TO APPEAR ON SMALL IMMEDIATE PACKAGING UNITS</td>
</tr>
<tr>
<td>---------------------------------------------------------------</td>
</tr>
<tr>
<td>LABEL PRE-FILLED SYRINGE</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>1. NAME OF THE MEDICINAL PRODUCT AND ROUTE(S) OF ADMINISTRATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>Repatha 140 mg injection</td>
</tr>
<tr>
<td>evolocumab</td>
</tr>
<tr>
<td>SC</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>2. METHOD OF ADMINISTRATION</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>3. EXPIRY DATE</th>
</tr>
</thead>
<tbody>
<tr>
<td>EXP</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>4. BATCH NUMBER</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lot</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>5. CONTENTS BY WEIGHT, BY VOLUME OR BY UNIT</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 ml</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>6. OTHER</th>
</tr>
</thead>
</table>
PARTICULARS TO APPEAR ON THE OUTER PACKAGING

CARTON PRE-FILLED PEN

1. NAME OF THE MEDICINAL PRODUCT

Repatha 140 mg solution for injection in pre-filled pen
evolutcumab

2. STATEMENT OF ACTIVE SUBSTANCE(S)

Each pre-filled pen contains 140 mg of evolocumab in 1 mL of solution.

3. LIST OF EXCIPIENTS

Proline, glacial acetic acid, polysorbate 80, sodium hydroxide, water for injections.

4. PHARMACEUTICAL FORM AND CONTENTS

Solution for injection.
1 SureClick pre-filled pen.
2 SureClick pre-filled pens.
3 SureClick pre-filled pens.

5. METHOD AND ROUTE(S) OF ADMINISTRATION

For subcutaneous use.
Read the package leaflet before use.

6. SPECIAL WARNING THAT THE MEDICINAL PRODUCT MUST BE STORED OUT OF THE SIGHT AND REACH OF CHILDREN

Keep out of the sight and reach of children.

7. OTHER SPECIAL WARNING(S), IF NECESSARY

Contains latex, read the package leaflet before use.

8. EXPIRY DATE

EXP
9. **SPECIAL STORAGE CONDITIONS**

Store in a refrigerator.
Do not freeze.
Store in the original carton in order to protect from light.

10. **SPECIAL PRECAUTIONS FOR DISPOSAL OF UNUSED MEDICINAL PRODUCTS OR WASTE MATERIALS DERIVED FROM SUCH MEDICINAL PRODUCTS, IF APPROPRIATE**

11. **NAME AND ADDRESS OF THE MARKETING AUTHORISATION HOLDER**

Amgen Europe B.V.
Minervum 7061,
NL-4817 ZK Breda,
The Netherlands

12. **MARKETING AUTHORISATION NUMBER(S)**

EU/1/15/1016/002
EU/1/15/1016/003
EU/1/15/1016/004

13. **BATCH NUMBER**

Lot

14. **GENERAL CLASSIFICATION FOR SUPPLY**

15. **INSTRUCTIONS ON USE**

16. **INFORMATION IN BRAILLE**

Repatha 140 pen

17. **UNIQUE IDENTIFIER – 2D BARCODE**

2D barcode carrying the unique identifier included

18. **UNIQUE IDENTIFIER - HUMAN READABLE DATA**

PC
SN
PARTICULARS TO APPEAR ON THE OUTER PACKAGING

CARTON PRE-FILLED PEN (without blue box)

1. **NAME OF THE MEDICINAL PRODUCT**

Repatha 140 mg solution for injection in pre-filled pen evolocumab

2. **STATEMENT OF ACTIVE SUBSTANCE(S)**

Each pre-filled pen contains 140 mg of evolocumab in 1 mL of solution.

3. **LIST OF EXCIPIENTS**

Proline, glacial acetic acid, polysorbate 80, sodium hydroxide, water for injections.

4. **PHARMACEUTICAL FORM AND CONTENTS**

Solution for injection.
2 SureClick pre-filled pens. Component of a multi-pack, can’t be sold separately.

5. **METHOD AND ROUTE(S) OF ADMINISTRATION**

For subcutaneous use.
Read the package leaflet before use.

6. **SPECIAL WARNING THAT THE MEDICINAL PRODUCT MUST BE STORED OUT OF THE SIGHT AND REACH OF CHILDREN**

Keep out of the sight and reach of children.

7. **OTHER SPECIAL WARNING(S), IF NECESSARY**

Contains latex, read the package leaflet before use.

8. **EXPIRY DATE**

EXP

9. **SPECIAL STORAGE CONDITIONS**

Store in a refrigerator.
Do not freeze.
Store in the original carton in order to protect from light.
10. **SPECIAL PRECAUTIONS FOR DISPOSAL OF UNUSED MEDICINAL PRODUCTS OR WASTE MATERIALS DERIVED FROM SUCH MEDICINAL PRODUCTS, IF APPROPRIATE**

11. **NAME AND ADDRESS OF THE MARKETING AUTHORISATION HOLDER**

Amgen Europe B.V.
Minervum 7061,
NL-4817 ZK Breda,
The Netherlands

12. **MARKETING AUTHORISATION NUMBER(S)**

EU/1/15/1016/005

13. **BATCH NUMBER**

Lot

14. **GENERAL CLASSIFICATION FOR SUPPLY**

15. **INSTRUCTIONS ON USE**

16. **INFORMATION IN BRAILLE**

Repatha 140 pen

17. **UNIQUE IDENTIFIER – 2D BARCODE**

2D barcode carrying the unique identifier included

18. **UNIQUE IDENTIFIER - HUMAN READABLE DATA**

PC
SN
### PARTICULARS TO APPEAR ON THE OUTER PACKAGING

**MULTIPACK LABEL PRE-FILLED PEN** (with blue box)

### 1. NAME OF THE MEDICINAL PRODUCT

Repatha 140 mg solution for injection in pre-filled pen evolocumab

### 2. STATEMENT OF ACTIVE SUBSTANCE(S)

Each SureClick pre-filled pen contains 140 mg of evolocumab in 1 mL of solution.

### 3. LIST OF EXCIPIENTS

Proline, glacial acetic acid, polysorbate 80, sodium hydroxide, water for injections.

### 4. PHARMACEUTICAL FORM AND CONTENTS

**Solution for injection.**
Multipack: 6 (3 packs of 2) single use SureClick pre-filled pens.

### 5. METHOD AND ROUTE(S) OF ADMINISTRATION

For subcutaneous use.

### 6. SPECIAL WARNING THAT THE MEDICINAL PRODUCT MUST BE STORED OUT OF THE SIGHT AND REACH OF CHILDREN

Keep out of the sight and reach of children.

### 7. OTHER SPECIAL WARNING(S), IF NECESSARY

Contains latex, read the package leaflet before use.

### 8. EXPIRY DATE

EXP

### 9. SPECIAL STORAGE CONDITIONS

Store in a refrigerator.
Do not freeze.
Store in the original carton in order to protect from light.
<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>10.</td>
<td>SPECIAL PRECAUTIONS FOR DISPOSAL OF UNUSED MEDICINAL PRODUCTS OR WASTE MATERIALS DERIVED FROM SUCH MEDICINAL PRODUCTS, IF APPROPRIATE</td>
</tr>
<tr>
<td>11.</td>
<td>NAME AND ADDRESS OF THE MARKETING AUTHORISATION HOLDER</td>
</tr>
</tbody>
</table>
| | Amgen Europe B.V.  
| | Minervum 7061,  
| | NL-4817 ZK Breda,  
| | The Netherlands |
| 12. | MARKETING AUTHORISATION NUMBER(S) |
| | EU/1/15/1016/005 |
| 13. | BATCH NUMBER |
| | Lot |
| 14. | GENERAL CLASSIFICATION FOR SUPPLY |
| 15. | INSTRUCTIONS ON USE |
| 16. | INFORMATION IN BRAILLE |
| | Repatha 140 pen |
| 17. | UNIQUE IDENTIFIER – 2D BARCODE |
| | 2D barcode carrying the unique identifier included |
| 18. | UNIQUE IDENTIFIER - HUMAN READABLE DATA |
| | PC  
| | SN |
| **MINIMUM PARTICULARS TO APPEAR ON SMALL IMMEDIATE PACKAGING UNITS** |
| **LABEL PRE-FILLED PEN** |

1. **NAME OF THE MEDICINAL PRODUCT AND ROUTE(S) OF ADMINISTRATION**

   Repatha 140 mg injection
evolocumab
   SC

2. **METHOD OF ADMINISTRATION**

3. **EXPIRY DATE**

   EXP

4. **BATCH NUMBER**

   Lot

5. **CONTENTS BY WEIGHT, BY VOLUME OR BY UNIT**

   1 mL

6. **OTHER**
# PARTICULARS TO APPEAR ON THE OUTER PACKAGING

## CARTON AUTOMATED MINI DOSER

### 1. NAME OF THE MEDICINAL PRODUCT

Repatha 420 mg solution for injection in cartridge evolocumab

### 2. STATEMENT OF ACTIVE SUBSTANCE(S)

Each cartridge contains 420 mg of evolocumab in 3.5 mL of solution (120 mg/mL).

### 3. LIST OF EXCIPIENTS

Proline, glacial acetic acid, polysorbate 80, sodium hydroxide, water for injections.

### 4. PHARMACEUTICAL FORM AND CONTENTS

Solution for injection. 
1 cartridge and automated mini doser.

### 5. METHOD AND ROUTE(S) OF ADMINISTRATION

For subcutaneous use. 
Read the package leaflet before use.

### 6. SPECIAL WARNING THAT THE MEDICINAL PRODUCT MUST BE STORED OUT OF THE SIGHT AND REACH OF CHILDREN

Keep out of the sight and reach of children.

### 7. OTHER SPECIAL WARNING(S), IF NECESSARY

### 8. EXPIRY DATE

EXP

### 9. SPECIAL STORAGE CONDITIONS

Store in a refrigerator. 
Do not freeze. 
Store in the original carton in order to protect from light and moisture.
10. SPECIAL PRECAUTIONS FOR DISPOSAL OF UNUSED MEDICINAL PRODUCTS OR WASTE MATERIALS DERIVED FROM SUCH MEDICINAL PRODUCTS, IF APPROPRIATE

11. NAME AND ADDRESS OF THE MARKETING AUTHORISATION HOLDER

Amgen Europe B.V.
Minervum 7061,
NL-4817 ZK Breda,
The Netherlands

12. MARKETING AUTHORISATION NUMBER(S)

EU/1/15/1016/006

13. BATCH NUMBER

Lot

14. GENERAL CLASSIFICATION FOR SUPPLY

15. INSTRUCTIONS ON USE

Repatha 420 cartridge

16. INFORMATION IN BRAILLE

17. UNIQUE IDENTIFIER – 2D BARCODE

2D barcode carrying the unique identifier included

18. UNIQUE IDENTIFIER - HUMAN READABLE DATA

PC
SN
<table>
<thead>
<tr>
<th>PARTICULARS TO APPEAR ON THE OUTER PACKAGING</th>
</tr>
</thead>
<tbody>
<tr>
<td>CARTON AUTOMATED MINI DOSER (without blue box)</td>
</tr>
</tbody>
</table>

1. **NAME OF THE MEDICINAL PRODUCT**

Repatha 420 mg solution for injection in cartridge evolocumab

2. **STATEMENT OF ACTIVE SUBSTANCE(S)**

Each cartridge contains 420 mg of evolocumab in 3.5 mL of solution (120 mg/mL).

3. **LIST OF EXCIPIENTS**

Proline, glacial acetic acid, polysorbate 80, sodium hydroxide, water for injections.

4. **PHARMACEUTICAL FORM AND CONTENTS**

Solution for injection.
1 cartridge and automated mini doser. Component of a multi-pack, can’t be sold separately.

5. **METHOD AND ROUTE(S) OF ADMINISTRATION**

For subcutaneous use.
Read the package leaflet before use.

6. **SPECIAL WARNING THAT THE MEDICINAL PRODUCT MUST BE STORED OUT OF THE SIGHT AND REACH OF CHILDREN**

Keep out of the sight and reach of children.

7. **OTHER SPECIAL WARNING(S), IF NECESSARY**

8. **EXPIRY DATE**

EXP

9. **SPECIAL STORAGE CONDITIONS**

Store in a refrigerator.
Do not freeze.
Store in the original carton in order to protect from light and moisture.
10. SPECIAL PRECAUTIONS FOR DISPOSAL OF UNUSED MEDICINAL PRODUCTS OR WASTE MATERIALS DERIVED FROM SUCH MEDICINAL PRODUCTS, IF APPROPRIATE

11. NAME AND ADDRESS OF THE MARKETING AUTHORISATION HOLDER

Amgen Europe B.V.
Minervum 7061,
NL-4817 ZK Breda,
The Netherlands

12. MARKETING AUTHORISATION NUMBER(S)

EU/1/15/1016/007

13. BATCH NUMBER

Lot

14. GENERAL CLASSIFICATION FOR SUPPLY

15. INSTRUCTIONS ON USE

16. INFORMATION IN BRAILLE

Repatha 420 cartridge

17. UNIQUE IDENTIFIER – 2D BARCODE

2D barcode carrying the unique identifier included

18. UNIQUE IDENTIFIER - HUMAN READABLE DATA

PC
SN
PARTICULARS TO APPEAR ON THE OUTER PACKAGING

MULTIPACK LABEL AUTOMATED MINI DOSER (with blue box)

1. **NAME OF THE MEDICINAL PRODUCT**

Repatha 420 mg solution for injection in cartridge
evolocumab

2. **STATEMENT OF ACTIVE SUBSTANCE(S)**

Each cartridge contains 420 mg of evolocumab in 3.5 mL of solution (120 mg/mL).

3. **LIST OF EXCIPIENTS**

Proline, glacial acetic acid, polysorbate 80, sodium hydroxide, water for injections.

4. **PHARMACEUTICAL FORM AND CONTENTS**

Solution for injection.
Multipack: 3 (3 packs of 1) cartridges and automated mini dosers.

5. **METHOD AND ROUTE(S) OF ADMINISTRATION**

For subcutaneous use.
Read the package leaflet before use.

6. **SPECIAL WARNING THAT THE MEDICINAL PRODUCT MUST BE STORED OUT OF THE SIGHT AND REACH OF CHILDREN**

Keep out of the sight and reach of children.

7. **OTHER SPECIAL WARNING(S), IF NECESSARY**

8. **EXPIRY DATE**

EXP

9. **SPECIAL STORAGE CONDITIONS**

Store in a refrigerator.
Do not freeze.
Store in the original carton in order to protect from light and moisture.
10. **SPECIAL PRECAUTIONS FOR DISPOSAL OF UNUSED MEDICINAL PRODUCTS OR WASTE MATERIALS DERIVED FROM SUCH MEDICINAL PRODUCTS, IF APPROPRIATE**

11. **NAME AND ADDRESS OF THE MARKETING AUTHORISATION HOLDER**

Amgen Europe B.V.
Minervum 7061,
NL-4817 ZK Breda,
The Netherlands

12. **MARKETING AUTHORISATION NUMBER(S)**

EU/1/15/1016/007

13. **BATCH NUMBER**

Lot

14. **GENERAL CLASSIFICATION FOR SUPPLY**

15. **INSTRUCTIONS ON USE**

16. **INFORMATION IN BRAILLE**

Repatha 420 cartridge

17. **UNIQUE IDENTIFIER – 2D BARCODE**

2D barcode carrying the unique identifier included

18. **UNIQUE IDENTIFIER - HUMAN READABLE DATA**

PC
SN
**MINIMUM PARTICULARS TO APPEAR ON SMALL IMMEDIATE PACKAGING UNITS**

**LABEL CARTRIDGE**

1. **NAME OF THE MEDICINAL PRODUCT AND ROUTE(S) OF ADMINISTRATION**

   Repatha 420 mg injection
evolocumab
SC

2. **METHOD OF ADMINISTRATION**

3. **EXPIRY DATE**

   EXP

4. **BATCH NUMBER**

   Lot

5. **CONTENTS BY WEIGHT, BY VOLUME OR BY UNIT**

   3.5 ml

6. **OTHER**
B. PACKAGE LEAFLET
Package leaflet: Information for the user

Repatha 140 mg solution for injection in pre-filled syringe
evolocumab

This medicine is subject to additional monitoring. This will allow quick identification of new safety information. You can help by reporting any side effects you may get. See the end of section 4 for how to report side effects.

Read all of this leaflet carefully before you start using this medicine because it contains important information for you.
- Keep this leaflet. You may need to read it again.
- If you have any further questions, ask your doctor, pharmacist or nurse.
- This medicine has been prescribed for you only. Do not pass it on to others. It may harm them, even if their signs of illness are the same as yours.
- If you get any side effects, talk to your doctor, pharmacist or nurse. This includes any possible side effects not listed in this leaflet. See section 4.

What is in this leaflet
1. What Repatha is and what it is used for
2. What you need to know before you use Repatha
3. How to use Repatha
4. Possible side effects
5. How to store Repatha
6. Contents of the pack and other information

1. What Repatha is and what it is used for

What Repatha is and how it works

Repatha is a medicine that lowers levels of 'bad' cholesterol, a type of fat, in the blood.

Repatha contains the active substance evolocumab, a monoclonal antibody (a type of specialised protein designed to attach to a target substance in the body). Evolocumab is designed to attach to a substance called PCSK9 that affects the liver’s ability to take in cholesterol. By attaching to, and mopping up PCSK9, the medicine increases the amount of cholesterol entering the liver and so lowers the level of cholesterol in the blood.

Repatha is used in patients who cannot control their cholesterol levels with a cholesterol lowering diet alone. You should stay on your cholesterol lowering diet while taking this medicine.

What Repatha is used for

Repatha is used in addition to your cholesterol lowering diet if you are:
- an adult with a high cholesterol level in your blood (primary hypercholesterolaemia [heterozygous familial and non-familial] or mixed dyslipidaemia). It is given:
  - together with a statin or other cholesterol lowering medication, if the maximum dose of a statin does not lower levels of cholesterol sufficiently.
  - alone or together with other cholesterol lowering medications when statins do not work well or cannot be used.
- 12 years and older with a high cholesterol level in your blood because of a condition that runs in your family (homozygous familial hypercholesterolaemia or HoFH). It is given:
  - together with other cholesterol lowering treatments.
2. **What you need to know before you use Repatha**

**Do not use Repatha** if you are allergic to evolocumab or any of the other ingredients of this medicine (listed in section 6).

**Warnings and precautions**

Talk to your doctor, pharmacist or nurse before using Repatha if you have:
- liver disease,
- severe kidney problems.

The needle cover of the glass pre-filled syringe is made from dry natural rubber (a derivative of latex), which may cause allergic reactions.

**Children and adolescents**

The use of Repatha has not been studied in children under 18 years of age being treated for primary hypercholesterolaemia and mixed dyslipidaemia.

The use of Repatha has not been studied in children under 12 years of age being treated for homozygous familial hypercholesterolaemia.

**Other medicines and Repatha**

Tell your doctor or pharmacist if you are taking, have recently taken or might take any other medicines.

**Pregnancy and breast-feeding**

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

Inform your doctor if you are trying to get pregnant, think you may be pregnant or become pregnant taking Repatha.

It is not known whether Repatha is found in breast milk.

It is important to tell your doctor if you are breast-feeding or plan to do so. Your doctor will then help you decide whether to stop breast-feeding, or whether to stop taking Repatha, considering the benefit of breast-feeding to the baby and the benefit of Repatha to the mother.

**Driving and using machines**

Repatha has no or negligible influence on the ability to drive and use machines.

**Repatha contains sodium**

This medicine contains less than 1 mmol sodium (23 mg) per dose, i.e. it is essentially ‘sodium-free’ and should not affect a sodium-controlled diet.

3. **How to use Repatha**

Always use this medicine exactly as your doctor has told you. Check with your doctor if you are not sure.
Repatha is given as an injection under the skin (subcutaneous).

The recommended dose depends on the underlying condition:
- for primary hypercholesterolaemia and mixed dyslipidaemia the dose is either 140 mg every two weeks or 420 mg once monthly.
- for homozygous familial hypercholesterolaemia the recommended starting dose is 420 mg once monthly. After 12 weeks your doctor may decide to increase the dose to 420 mg every two weeks. If you also receive apheresis, a procedure similar to dialysis where cholesterol and other fats are removed from the blood, your doctor may decide to start you on a dose of 420 mg every two weeks to coincide with your apheresis treatment.

If your doctor prescribes a dose of 420 mg you must use three pre-filled syringes because each pre-filled syringe only contains 140 mg of medicine. After reaching room temperature, all injections should be given within a 30 minute period.

If your doctor decides that you or a caregiver can give the injections of Repatha, you or your caregiver should receive training on how to prepare and inject Repatha correctly. Do not try to inject Repatha until you have been shown how to do it by your doctor or nurse.

See the detailed “Instructions for Use” at the end of this leaflet for instructions about how to store, prepare, and give your Repatha injections at home.

Before starting Repatha, you should be on a diet to lower your cholesterol. You should keep on this cholesterol lowering diet while taking Repatha.

If your doctor has prescribed Repatha along with another cholesterol lowering medicine, 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 that particular medicine as well.

If you use more Repatha than you should

Contact your doctor or pharmacist immediately.

If you forget to take Repatha

Take Repatha as soon as you can after the missed dose. Then, contact your doctor who will tell you when you should schedule your next dose, and follow the new schedule exactly as your doctor has told you.

4. Possible side effects

Like all medicines, this medicine can cause side effects, although not everybody gets them.

Common: may affect up to 1 in 10 people
- Flu (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)
- Feeling sick (nausea)
- Back pain
- Joint pain (arthralgia)
- Injection site reactions, redness, bruising or pain
- Rash

Uncommon: may affect up to 1 in 100 people
- Hives, red itchy bumps on your skin (urticaria)
Reporting of side effects

If you get any side effects, talk to your doctor, pharmacist or nurse. This includes any possible side effects not listed in this leaflet. You can also report side effects directly via the national reporting system listed in Appendix V. By reporting side effects you can help provide more information on the safety of this medicine.

5. How to store Repatha

Keep this medicine out of the sight and reach of children.

Do not use this medicine after the expiry date which is stated on the label and carton after EXP. The expiry date refers to the last day of that month.

Store in a refrigerator (2°C – 8°C). Do not freeze.
Store in the original carton in order to protect from light.

Your pre-filled syringe may be left outside the refrigerator to reach room temperature (up to 25°C) before injection. This will make the injection more comfortable. After removal from the refrigerator, Repatha may be stored at room temperature (up to 25°C) in the original carton and must be used within 1 month.

Do not throw away any medicines via wastewater or household waste.

Ask your pharmacist how to throw away medicines you no longer use. These measures will help protect the environment.

6. Contents of the pack and other information

What Repatha contains

- The active substance is evolocumab. Each pre-filled syringe contains 140 mg of evolocumab in 1 mL of solution.
- The other ingredients are proline, glacial acetic acid, polysorbate 80, sodium hydroxide, water for injections.

What Repatha looks like and contents of the pack

Repatha is a solution which is clear to opalescent, colourless to yellowish, and practically free from particles. Do not use this medicine if you notice it is discoloured or contains large lumps, flakes or coloured particles.

Each pack contains one single use pre-filled syringe.

Marketing Authorisation Holder and Manufacturer

Amgen Europe B.V.
Minervum 7061
4817 ZK Breda
The Netherlands
Marketing Authorisation Holder
Amgen Europe B.V.
Minervum 7061
4817 ZK Breda
The Netherlands

Manufacturer
Amgen Technology (Ireland) Unlimited Company
Pottery Road
Dun Laoghaire
Co Dublin
Ireland

Manufacturer
Amgen NV
Arianelaan 5
1200 Brussel
Belgium

For any information about this medicine, please contact the local representative of the Marketing Authorisation Holder:

België/Belgique/Belgien
s.a. Amgen n.v.
Tel/Tél: +32 (0)2 7752711

България
Амджен България ЕООД
Тел.: +359 (0)2 424 7440

Česká republika
Amgen s.r.o.
Tel: +420 221 773 500

Danmark
Amgen, filial af Amgen AB, Sverige
Tlf: +45 39617500

Deutschland
AMGEN GmbH
Tel.: +49 89 1490960

Eesti
Amgen Switzerland AG Vilniaus filialas
Tel: +372 586 09553

Ελλάδα
Amgen Ελλάς Φαρμακευτικά Ε.Π.Ε.
Τηλ.: +30 210 3447000

España
Amgen S.A.
Tel: +34 93 600 18 60

Lietuva
Amgen Switzerland AG Vilniaus filialas
Tel: +370 5 219 7474

Luxembourg/Luxemburg
s.a. Amgen
Belgique/Belgien
Tel/Tél: +32 (0)2 7752711

Magyarország
Amgen Kft.
Tel.: +36 1 35 44 700

Malta
Amgen B.V.
The Netherlands
Tel: +31 (0)76 5732500

Nederland
Amgen B.V.
Tel: +31 (0)76 5732500

Norge
Amgen AB
Tel: +47 23308000

Österreich
Amgen GmbH
Tel: +43 (0)1 50 217

Polska
Amgen Biotechnologia Sp. z o.o.
Tel.: +48 22 581 3000
France
Amgen S.A.S.
Tel: +33 (0)9 69 363 363

Hrvatska
Amgen d.o.o.
Tel: +385 (0)1 562 57 20

Ireland
Amgen Limited
United Kingdom
Tel: +44 (0)1223 420305

Ísland
Vistor hf.
Sími: +354 535 7000

Italia
Amgen S.r.l.
Tel: +39 02 6241121

Κύπρος
C.A. Papaellinas Ltd
Τηλ.: +357 22741 741

Latvija
Amgen Switzerland AG Rīgas filiāle
Tel: +371 257 25888

Portugal
Amgen Biofarmacêutica, Lda.
Tel: +351 21 4220550

România
Amgen România SRL
Tel: +4021 527 3000

Slovenija
AMGEN zdravila d.o.o.
Tel: +386 (0)1 585 1767

Slovenská republika
Amgen Slovakia s.r.o.
Tel: +421 33 321 13 22

Suomi/Finland
Amgen AB, sivuliike Suomessa/Amgen AB, filial i Finland
Puh/Tel: +358 (0)9 54900500

Sverige
Amgen AB
Tel: +46 (0)8 6951100

United Kingdom
Amgen Limited
Tel: +44 (0)1223 420305

This leaflet was last revised in.

Other sources of information

Detailed information on this medicine is available on the European Medicines Agency web site:
**Instructions for use:**
Repatha single use pre-filled syringe

### Guide to parts

<table>
<thead>
<tr>
<th>Before use</th>
<th>After use</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Plunger rod</strong></td>
<td><strong>Used plunger</strong></td>
</tr>
<tr>
<td><strong>Medicine</strong></td>
<td><strong>Used syringe barrel</strong></td>
</tr>
<tr>
<td><strong>Syringe barrel</strong></td>
<td><strong>Used Needle</strong></td>
</tr>
<tr>
<td><strong>Grey needle cap on</strong></td>
<td><strong>Grey needle cap off</strong></td>
</tr>
</tbody>
</table>

⚠️ Needle is inside.
### Important

**Before you use a single use Repatha pre-filled syringe, read this important information:**

- Your healthcare provider will tell you how many Repatha pre-filled syringes are needed for your dose. If injecting more than one Repatha pre-filled syringe, after reaching room temperature, all injections should be given within a 30 minute period.
- Keep the Repatha pre-filled syringe in the original carton in order to protect it from light.
- The Repatha pre-filled syringe is to be stored 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 grey needle cap on the Repatha pre-filled syringe is composed of dry natural rubber, which is made from latex. Tell your healthcare provider if you are allergic to latex.
- Keep the Repatha pre-filled syringe out of the sight and reach of children.

🚫 **DO NOT:**

- Use the Repatha pre-filled syringe if the packaging is open or damaged.
- Freeze the Repatha pre-filled syringe or use one that has been frozen.
- Use the Repatha pre-filled syringe if it has been dropped onto a hard surface. Part of the syringe may be broken even if you cannot see the break. Use a new Repatha pre-filled syringe.
- Remove the grey needle cap from the Repatha pre-filled syringe until you are ready to inject.

### Step 1: Prepare

<table>
<thead>
<tr>
<th></th>
<th>Remove the Repatha pre-filled syringe carton from the refrigerator and wait 30 minutes.</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td></td>
</tr>
</tbody>
</table>

Wait at least 30 minutes for the pre-filled 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 pre-filled syringe by using a heat source such as hot water or microwave.
- Leave the Repatha pre-filled syringe exposed to direct sunlight.
- Shake the Repatha pre-filled syringe.

<table>
<thead>
<tr>
<th></th>
<th>Gather all materials needed for your injection.</th>
</tr>
</thead>
<tbody>
<tr>
<td>B</td>
<td></td>
</tr>
</tbody>
</table>

Wash your hands thoroughly with soap and water.

**On a clean, well-lit, flat work surface, place:**

- One Repatha pre-filled syringe in its tray.
- Alcohol wipes.
- Cotton ball or gauze pad.
- Plaster.
- Sharps disposal container.

🚫 **DO NOT** use if expiry date on the Repatha pre-filled syringe carton has passed.
Choose your injection site.

You can use:

- Thigh.
- Belly, except for the 2 inches (5 centimetres) 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.

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.

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.
**Remove the pre-filled syringe from the tray.**

To remove:
- Peel the paper off of the 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 the pre-filled syringe does not release from the tray, gently press on the back of tray.

**DO NOT:**
- Pick up or pull the pre-filled syringe by the plunger rod or grey needle cap. This could damage the syringe.
- Remove the grey needle cap from the pre-filled syringe until you are ready to inject.

Always hold the pre-filled syringe by the syringe barrel.

**Inspect medicine and syringe.**

Always hold the pre-filled syringe by the syringe barrel.

Check that:
- The name Repatha appears on the pre-filled syringe label.
- The medicine in the pre-filled syringe is clear and colourless to slightly yellow.

**DO NOT** use the pre-filled syringe if:
- any part of the pre-filled 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 pre-filled syringe has passed.
### Step 2: Get ready

**A** Carefully pull the grey needle cap straight out and away from your body. Do not leave the grey needle cap off for more than 5 minutes. This can dry out the medicine.

1. 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.

2. 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 pre-filled syringe.

**B** Remove the air bubble / gap.

You may notice an air bubble/gap in the Repatha pre-filled syringe.

**If you notice an air bubble/gap:**
- Hold the pre-filled 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 pre-filled syringe. Be very careful not to push out any medicine.

   **DO NOT** tap the syringe needle.

**C** PINCH your injection site to create a firm surface.

Pinch skin firmly between your thumb and fingers, creating an area about 2 inches (5 centimetres) wide.

**!** It is important to keep the skin pinched while injecting.
### Step 3: Inject

<table>
<thead>
<tr>
<th>Action</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>A</strong></td>
<td>Hold the PINCH. Insert the needle into the skin using a 45 to 90 degree angle.</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Action</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>B</strong></td>
<td>Using slow and constant pressure, PUSH the plunger rod all the way down until the syringe is empty.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Action</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>C</strong></td>
<td>When done, RELEASE your thumb, and gently lift the syringe off skin.</td>
</tr>
</tbody>
</table>

⚠️ **DO NOT** put the grey needle cap back onto the used syringe.
### Step 4: Finish

<table>
<thead>
<tr>
<th>A</th>
<th>Immediately place the used syringe in a sharps disposal container.</th>
</tr>
</thead>
</table>

![Image of syringe being placed in sharps container]

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

- **DO NOT** reuse the used syringe.
- **DO NOT** use any medicine that is left in the used syringe.
- **DO NOT** recycle the syringe or the sharps disposal container or throw it into household rubbish.

⚠ Keep the used syringe and sharps container out of the sight and reach of children.

<table>
<thead>
<tr>
<th>B</th>
<th>Examine the injection site.</th>
</tr>
</thead>
</table>

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

- **DO NOT** rub the injection site.
1. **What Repatha is and what it is used for**

**What Repatha is and how it works**

Repatha is a medicine that lowers levels of ‘bad’ cholesterol, a type of fat, in the blood.

Repatha contains the active substance evolocumab, a monoclonal antibody (a type of specialised protein designed to attach to a target substance in the body). Evolocumab is designed to attach to a substance called PCSK9 that affects the liver’s ability to take in cholesterol. By attaching to, and mopping up PCSK9, the medicine increases the amount of cholesterol entering the liver and so lowers the level of cholesterol in the blood.

Repatha is used in patients who cannot control their cholesterol levels with a cholesterol lowering diet alone. You should stay on your cholesterol lowering diet while taking this medicine.

**What Repatha is used for**

Repatha is used in addition to your cholesterol lowering diet if you are:

- an adult with a high cholesterol level in your blood (primary hypercholesterolaemia [heterozygous familial and non-familial] or mixed dyslipidaemia). It is given:
  - together with a statin or other cholesterol lowering medication, if the maximum dose of a statin does not lower levels of cholesterol sufficiently.
  - alone or together with other cholesterol lowering medications when statins do not work well or cannot be used.

- 12 years and older with a high cholesterol level in your blood because of a condition that runs in your family (homozygous familial hypercholesterolaemia or HoFH). It is given:
  - together with other cholesterol lowering treatments.
2. What you need to know before you use Repatha

Do not use Repatha if you are allergic to evolocumab or any of the other ingredients of this medicine (listed in section 6).

Warnings and precautions

Talk to your doctor, pharmacist or nurse before using Repatha if you have:
- liver disease,
- severe kidney problems.

The needle cover of the glass pre-filled pen is made from dry natural rubber (a derivative of latex), which may cause allergic reactions.

Children and adolescents

The use of Repatha has not been studied in children under 18 years of age being treated for primary hypercholesterolaemia and mixed dyslipidaemia.

The use of Repatha has not been studied in children under 12 years of age being treated for homozygous familial hypercholesterolaemia.

Other medicines and Repatha

Tell your doctor or pharmacist if you are taking, have recently taken or might take any other medicines.

Pregnancy and breast-feeding

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

Inform your doctor if you are trying to get pregnant, think you may be pregnant or become pregnant taking Repatha.

It is not known whether Repatha is found in breast milk.

It is important to tell your doctor if you are breast-feeding or plan to do so. Your doctor will then help you decide whether to stop breast-feeding, or whether to stop taking Repatha, considering the benefit of breast-feeding to the baby and the benefit of Repatha to the mother.

Driving and using machines

Repatha has no or negligible influence on the ability to drive and use machines.

Repatha contains sodium

This medicine contains less than 1 mmol sodium (23 mg) per dose, i.e. it is essentially ‘sodium-free’ and should not affect a sodium-controlled diet.

3. How to use Repatha

Always use this medicine exactly as your doctor has told you. Check with your doctor if you are not sure.
Repatha is given as an injection under the skin (subcutaneous).

The recommended dose depends on the underlying condition:

- for primary hypercholesterolaemia and mixed dyslipidaemia the dose is either 140 mg every two weeks or 420 mg once monthly.
- for homozygous familial hypercholesterolaemia the recommended starting dose is 420 mg once monthly. After 12 weeks your doctor may decide to increase the dose to 420 mg every two weeks. If you also receive apheresis, a procedure similar to dialysis where cholesterol and other fats are removed from the blood, your doctor may decide to start you on a dose of 420 mg every two weeks to coincide with your apheresis treatment.

If your doctor prescribes a dose of 420 mg you must use three pre-filled pens because each pre-filled pen only contains 140 mg of medicine. After reaching room temperature, all injections should be given within a 30 minute period.

If your doctor decides that you or a caregiver can give the injections of Repatha, you or your caregiver should receive training on how to prepare and inject Repatha correctly. Do not try to inject Repatha until you have been shown how to do it by your doctor or nurse.

See the detailed “Instructions for Use” at the end of this leaflet for instructions about how to store, prepare, and give your Repatha injections at home.

Before starting Repatha, you should be on a diet to lower your cholesterol. You should keep on this cholesterol lowering diet while taking Repatha.

If your doctor has prescribed Repatha along with another cholesterol lowering medicine, 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 that particular medicine as well.

If you use more Repatha than you should

Contact your doctor or pharmacist immediately.

If you forget to take Repatha

Take Repatha as soon as you can after the missed dose. Then, contact your doctor who will tell you when you should schedule your next dose, and follow the new schedule exactly as your doctor has told you.

4. Possible side effects

Like all medicines, this medicine can cause side effects, although not everybody gets them.

**Common: may affect up to 1 in 10 people**

- Flu (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)
- Feeling sick (nausea)
- Back pain
- Joint pain (arthralgia)
- Injection site reactions, redness, bruising or pain
- Rash

**Uncommon: may affect up to 1 in 100 people**

- Hives, red itchy bumps on your skin (urticaria)
Reporting of side effects

If you get any side effects, talk to your doctor, pharmacist or nurse. This includes any possible side effects not listed in this leaflet. You can also report side effects directly via the national reporting system listed in Appendix V. By reporting side effects you can help provide more information on the safety of this medicine.

5. How to store Repatha

Keep this medicine out of the sight and reach of children.

Do not use this medicine after the expiry date which is stated on the label and carton after EXP. The expiry date refers to the last day of that month.

Store in a refrigerator (2°C – 8°C). Do not freeze.
Store in the original carton in order to protect from light.

Your pre-filled pen may be left outside the refrigerator to reach room temperature (up to 25°C) before injection. This will make the injection more comfortable. After removal from the refrigerator, Repatha may be stored at room temperature (up to 25°C) in the original carton and must be used within 1 month.

Do not throw away any medicines via wastewater or household waste.

Ask your pharmacist how to throw away medicines you no longer use. These measures will help protect the environment.

6. Contents of the pack and other information

What Repatha contains
- The active substance is evolocumab. Each SureClick pre-filled pen contains 140 mg of evolocumab in 1 mL of solution.
- The other ingredients are proline, glacial acetic acid, polysorbate 80, sodium hydroxide, water for injections.

What Repatha looks like and contents of the pack

Repatha is a solution which is clear to opalescent, colourless to yellowish, and practically free from particles. Do not use this medicine if you notice it is discoloured or contains large lumps, flakes or coloured particles.

Each pack contains one, two, three or six single use SureClick pre-filled pens.

Marketing Authorisation Holder and Manufacturer
Amgen Europe B.V.
Minervum 7061
4817 ZK Breda
The Netherlands
Marketing Authorisation Holder
Amgen Europe B.V.
Minervum 7061
4817 ZK Breda
The Netherlands

Manufacturer
Amgen Technology (Ireland) Unlimited Company
Pottery Road
Dun Laoghaire
Co Dublin
Ireland

Manufacturer
Amgen NV
Arianelaan 5
1200 Brussel
Belgium

For any information about this medicine, please contact the local representative of the Marketing Authorisation Holder:

België/Belgique/Belgien
s.a. Amgen n.v.
Tel/Tél: +32 (0)2 7752711

България
Амджен България ЕООД
Тел.: +359 (0)2 424 7440

Česká republika
Amgen s.r.o.
Tel: +420 221 773 500

Danmark
Amgen, filial af Amgen AB, Sverige
Tlf: +45 39617500

Deutschland
AMGEN GmbH
Tel.: +49 89 1490960

Eesti
Amgen Switzerland AG Vilniaus filialas
Tel: +372 586 09553

Ελλάδα
Amgen Ελλάς Φαρμακευτικά Ε.Π.Ε.
Τηλ.: +30 210 3447000

España
Amgen S.A.
Tel: +34 93 600 18 60

Lietuva
Amgen Switzerland AG Vilniaus filialas
Tel: +370 5 219 7474

Luxembourg/Luxemburg
s.a. Amgen
Belgique/Belgien
Tel/Tél: +32 (0)2 7752711

Magyarország
Amgen Kft.
Tel.: +36 1 35 44 700

Malta
Amgen B.V.
The Netherlands
Tel: +31 (0)76 5732500

Nederland
Amgen B.V.
Tel: +31 (0)76 5732500

Norge
Amgen AB
Tel: +47 23308000

Österreich
Amgen GmbH
Tel: +43 (0)1 50 217

Polska
Amgen Biotechnologia Sp. z o.o.
Tel.: +48 22 581 3000
France
Amgen S.A.S.
Tél: +33 (0)9 69 363 363

Hrvatska
Amgen d.o.o.
Tel: +385 (0)1 562 57 20

Ireland
Amgen Limited
United Kingdom
Tel: +44 (0)1223 420305

Íslанд
Vistor hf.
Sími: +354 535 7000

Italia
Amgen S.r.l.
Tel: +39 02 6241121

Κύπρος
C.A. Papaellinas Ltd
Τηλ.: +357 22741 741

Latvija
Amgen Switzerland AG Rīgas filiāle
Tel: +371 257 25888

Portugal
Amgen Biofarmacêutica, Lda.
Tel: +351 21 4220550

România
Amgen România SRL
Tel: +4021 527 3000

Slovenija
AMGEN zdravila d.o.o.
Tel: +386 (0)1 585 1767

Slovenská republika
Amgen Slovakia s.r.o.
Tel: +421 33 321 13 22

Suomi/Finland
Amgen AB, sivuuliike Suomessa/Amgen AB, filial i Finland
Puh/Tel: +358 (0)9 54900500

Sverige
Amgen AB
Tel: +46 (0)8 6951100

United Kingdom
Amgen Limited
Tel: +44 (0)1223 420305

This leaflet was last revised in.

Other sources of information

Detailed information on this medicine is available on the European Medicines Agency web site:
### Instructions for use:
Repatha single use SureClick pre-filled pen

#### Guide to parts

<table>
<thead>
<tr>
<th>Before use</th>
<th>After use</th>
</tr>
</thead>
<tbody>
<tr>
<td>Grey start button</td>
<td>Yellow window (injection complete)</td>
</tr>
<tr>
<td>Window</td>
<td>Yellow safety guard</td>
</tr>
<tr>
<td>Medicine</td>
<td>Orange cap off</td>
</tr>
<tr>
<td>Orange cap on</td>
<td>Orange cap off</td>
</tr>
</tbody>
</table>

⚠️ Needle is inside
Important

Before you use the Repatha pre-filled pen, read this important information:

- Your healthcare provider will tell you how many Repatha pre-filled pens are needed for your dose. If injecting more than one Repatha pre-filled pen, after reaching room temperature, all injections should be given within a 30 minute period.
- Keep the Repatha pre-filled pen in original carton to protect it from light.
- The Repatha pre-filled pen is to be stored 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 orange cap on a Repatha pre-filled pen contains a needle cover (located inside the cap) that is composed of dry natural rubber, which is made from latex. Tell your healthcare provider if you are allergic to latex.
- Keep the Repatha pre-filled pen out of the sight and reach of children.

⚠️ DO NOT:

- freeze or use the Repatha pre-filled pen if it has been frozen.
- shake the Repatha pre-filled pen.
- remove the orange cap from the Repatha pre-filled pen until you are ready to inject.
- use the Repatha pre-filled pen if it has been dropped on a hard surface. Part of the Repatha pre-filled pen may be broken even if you cannot see the break.
- use the Repatha pre-filled pen after the expiration date.

### Step 1: Prepare

<table>
<thead>
<tr>
<th>A</th>
<th>Remove one Repatha pre-filled pen from the package.</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Carefully lift the pre-filled pen straight up out of the box.</td>
</tr>
<tr>
<td>2.</td>
<td>Put the original package with any unused pre-filled pens back in the refrigerator.</td>
</tr>
<tr>
<td>3.</td>
<td>Wait at least 30 minutes for the pre-filled pen to naturally reach room temperature before injecting.</td>
</tr>
</tbody>
</table>

⚠️ DO NOT:

- try to warm the pre-filled pen by using a heat source such as hot water or microwave.
- leave the pre-filled pen in direct sunlight.
- shake the pre-filled pen.
- remove the orange cap from the pre-filled pen yet.
B  Inspect the Repatha pre-filled pen.

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

Check the expiration date.

☐ DO NOT use pre-filled pen if:
  × medicine is cloudy or discoloured or contains large lumps, flakes, or particles.
  × any part appears cracked or broken.
  × the pre-filled pen has been dropped.
  × the orange cap is missing or not securely attached.
  × the expiration date has passed.

In all cases, use a new pre-filled pen.

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 pre-filled pen.
● Alcohol wipes.
● Cotton ball or gauze pad.
● Plaster.
● Sharps disposal container.

D  Prepare and clean your injection site.

You can use:

● Thigh.
● Belly, except for a 2 inch (5 centimetres) 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

<table>
<thead>
<tr>
<th>Step 2: Get ready</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>A</strong> Pull the orange cap straight off, only when you are ready to inject. <strong>Do not</strong> leave the orange cap off for more than 5 minutes. This can dry out the medicine.</td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td><img src="image1.png" alt="Image" /></td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td>It is normal to see a drop of liquid at the end of the needle or yellow safety guard.</td>
</tr>
<tr>
<td><strong>DO NOT:</strong></td>
</tr>
<tr>
<td>✗ twist, bend or wiggle the orange cap.</td>
</tr>
<tr>
<td>✗ put the orange cap back onto the pre-filled pen.</td>
</tr>
<tr>
<td>✗ put fingers into the yellow safety guard.</td>
</tr>
<tr>
<td><strong>DO NOT</strong> remove the orange cap from the pre-filled pen until you are ready to inject.</td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td><strong>B</strong> Stretch or pinch your injection site to create a firm surface.</td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td><strong>Stretch method</strong></td>
</tr>
<tr>
<td><img src="image2.png" alt="Image" /></td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td>Stretch skin firmly by moving your thumb and fingers in the opposite direction, creating an area about 2 inches (5 centimetres) wide.</td>
</tr>
<tr>
<td><strong>OR</strong></td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td><strong>Pinch method</strong></td>
</tr>
<tr>
<td><img src="image3.png" alt="Image" /></td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td>Pinch skin firmly between your thumb and fingers, creating an area about 2 inches (5 centimetres) wide.</td>
</tr>
<tr>
<td><strong>It is important to keep skin stretched or pinched while injecting.</strong></td>
</tr>
</tbody>
</table>
**Step 3: Inject**

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>A</strong></td>
<td><strong>Hold the stretch or pinch. With the orange cap off, PLACE the pre-filled pen on the skin at 90 degrees.</strong></td>
</tr>
<tr>
<td><img src="image" alt="Diagram" /></td>
<td>90º</td>
</tr>
<tr>
<td><img src="image" alt="Warning" /></td>
<td><strong>DO NOT</strong> touch the grey start button yet.</td>
</tr>
<tr>
<td><strong>B</strong></td>
<td><strong>Firmly PUSH down the pre-filled pen onto the skin until it stops moving.</strong></td>
</tr>
<tr>
<td><img src="image" alt="Diagram" /></td>
<td><strong>PUSH DOWN</strong></td>
</tr>
<tr>
<td><img src="image" alt="Warning" /></td>
<td>You must push all the way down but <strong>DO NOT</strong> touch the grey start button until you are ready to inject.</td>
</tr>
<tr>
<td><strong>C</strong></td>
<td><strong>When you are ready to inject, PRESS the grey start button. You will hear a click.</strong></td>
</tr>
<tr>
<td><img src="image" alt="Diagram" /></td>
<td><strong>“click”</strong></td>
</tr>
</tbody>
</table>
D  Keep PUSHING down on the skin. Then LIFT thumb. Your injection could take about 15 seconds.

NOTE: After you remove the pre-filled pen from your skin, the needle will be automatically covered.

Step 4: Finish

A  Discard the used pre-filled pen and orange needle cap.

Discard the used pre-filled pen 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 pre-filled pen and the sharps disposal container out of the sight and reach of children.

DO NOT:
- reuse the pre-filled pen.
- recap the pre-filled pen or put fingers into the yellow safety guard.
- recycle the pre-filled pen or sharps disposal container or throw them into household rubbish.

B  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 a plaster if needed.
Package leaflet: Information for the user

Repatha 420 mg solution for injection in cartridge
evolocumab

This medicine is subject to additional monitoring. This will allow quick identification of new safety information. You can help by reporting any side effects you may get. See the end of section 4 for how to report side effects.

Read all of this leaflet carefully before you start using this medicine because it contains important information for you.
- Keep this leaflet. You may need to read it again.
- If you have any further questions, ask your doctor, pharmacist or nurse.
- This medicine has been prescribed for you only. Do not pass it on to others. It may harm them, even if their signs of illness are the same as yours.
- If you get any side effects, talk to your doctor, pharmacist or nurse. This includes any possible side effects not listed in this leaflet. See section 4.

What is in this leaflet
1. What Repatha is and what it is used for
2. What you need to know before you use Repatha
3. How to use Repatha
4. Possible side effects
5. How to store Repatha
6. Contents of the pack and other information

1. What Repatha is and what it is used for

What Repatha is and how it works

Repatha is a medicine that lowers levels of ‘bad’ cholesterol, a type of fat, in the blood.

Repatha contains the active substance evolocumab, a monoclonal antibody (a type of specialised protein designed to attach to a target substance in the body). Evolocumab is designed to attach to a substance called PCSK9 that affects the liver’s ability to take in cholesterol. By attaching to, and mopping up PCSK9, the medicine increases the amount of cholesterol entering the liver and so lowers the level of cholesterol in the blood.

Repatha is used in patients who cannot control their cholesterol levels with a cholesterol lowering diet alone. You should stay on your cholesterol lowering diet while taking this medicine.

What Repatha is used for

Repatha is used in addition to your cholesterol lowering diet if you are:
- an adult with a high cholesterol level in your blood (primary hypercholesterolaemia [heterozygous familial and non-familial] or mixed dyslipidaemia). It is given:
  - together with a statin or other cholesterol lowering medication, if the maximum dose of a statin does not lower levels of cholesterol sufficiently.
  - alone or together with other cholesterol lowering medications when statins do not work well or cannot be used.
- 12 years and older with a high cholesterol level in your blood because of a condition that runs in your family (homozygous familial hypercholesterolaemia or HoFH). It is given:
  - together with other cholesterol lowering treatments.
2. **What you need to know before you use Repatha**

Do not use Repatha if you are allergic to evolocumab or any of the other ingredients of this medicine (listed in section 6).

**Warnings and precautions**

Talk to your doctor, pharmacist or nurse before using Repatha if you have:
- liver disease,
- severe kidney problems.

**Children and adolescents**

The use of Repatha has not been studied in children under 18 years of age being treated for primary hypercholesterolaemia and mixed dyslipidaemia.

The use of Repatha has not been studied in children under 12 years of age being treated for homozygous familial hypercholesterolaemia.

**Other medicines and Repatha**

Tell your doctor or pharmacist if you are taking, have recently taken or might take any other medicines.

**Pregnancy and breast-feeding**

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

Inform your doctor if you are trying to get pregnant, think you may be pregnant or become pregnant taking Repatha.

It is not known whether Repatha is found in breast milk.

It is important to tell your doctor if you are breast-feeding or plan to do so. Your doctor will then help you decide whether to stop breast-feeding, or whether to stop taking Repatha, considering the benefit of breast-feeding to the baby and the benefit of Repatha to the mother.

**Driving and using machines**

Repatha has no or negligible influence on the ability to drive and use machines.

**Repatha contains sodium**

This medicine contains less than 1 mmol sodium (23 mg) per dose, i.e. it is essentially ‘sodium-free’ and should not affect a sodium-controlled diet.

3. **How to use Repatha**

Always use this medicine exactly as your doctor has told you. Check with your doctor if you are not sure.

Repatha is given as an injection under the skin (subcutaneous).
The recommended dose depends on the underlying condition:

- for primary hypercholesterolaemia and mixed dyslipidaemia the dose is either 140 mg every two weeks or 420 mg once monthly.
- for homozygous familial hypercholesterolaemia the recommended starting dose is 420 mg once monthly. After 12 weeks your doctor may decide to increase the dose to 420 mg every two weeks. If you also receive apheresis, a procedure similar to dialysis where cholesterol and other fats are removed from the blood, your doctor may decide to start you on a dose of 420 mg every two weeks to coincide with your apheresis treatment.

If your doctor decides that you or a caregiver can give the injections of Repatha using the automated mini-doser, you or your caregiver should receive training on how to prepare and inject Repatha correctly. Do not try to use the automated mini-doser until you have been shown how to do it by your doctor or nurse. It is recommended that 12 and 13 year olds are supervised by an adult when they are using the automated mini-doser.

See the detailed “Instructions for Use” at the end of this leaflet for instructions about how to store, prepare, and use your Repatha automated mini-doser at home.

Before starting Repatha, you should be on a diet to lower your cholesterol. You should keep on this cholesterol lowering diet while taking Repatha.

If your doctor has prescribed Repatha along with another cholesterol lowering medicine, 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 that particular medicine as well.

**If you use more Repatha than you should**

Contact your doctor or pharmacist immediately.

**If you forget to take Repatha**

Take Repatha as soon as you can after the missed dose. Then, contact your doctor who will tell you when you should schedule your next dose, and follow the new schedule exactly as your doctor has told you.

**4. Possible side effects**

Like all medicines, this medicine can cause side effects, although not everybody gets them.

**Common: may affect up to 1 in 10 people**

- Flu (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)
- Feeling sick (nausea)
- Back pain
- Joint pain (arthralgia)
- Injection site reactions, redness, bruising or pain
- Rash

**Uncommon: may affect up to 1 in 100 people**

- Hives, red itchy bumps on your skin (urticaria)
Reporting of side effects

If you get any side effects, talk to your doctor, pharmacist or nurse. This includes any possible side effects not listed in this leaflet. You can also report side effects directly via the national reporting system listed in Appendix V. By reporting side effects you can help provide more information on the safety of this medicine.

5. How to store Repatha

Keep this medicine out of the sight and reach of children.

Do not use this medicine after the expiry date which is stated on the label and carton after EXP. The expiry date refers to the last day of that month.

Store in a refrigerator (2°C – 8°C). Do not freeze.
Store in the original carton in order to protect from light and moisture.

Your medicine (cartridge and automated mini-doser) may be left outside the refrigerator to reach room temperature (up to 25°C) before injection. This will make the injection more comfortable. After removal from the refrigerator, Repatha may be stored at room temperature (up to 25°C) in the original carton and must be used within 1 month.

Do not throw away any medicines via wastewater or household waste.

Ask your pharmacist how to throw away medicines you no longer use. These measures will help protect the environment.

6. Contents of the pack and other information

What Repatha contains
- The active substance is evolocumab. Each cartridge contains 420 mg of evolocumab in 3.5 mL of solution (120 mg/mL).
- The other ingredients are proline, glacial acetic acid, polysorbate 80, sodium hydroxide, water for injections.

What Repatha looks like and contents of the pack

Repatha is a solution which is clear to opalescent, colourless to yellowish, and practically free from particles. Do not use this medicine if you notice it is discoloured or contains large lumps, flakes or coloured particles.

Each pack contains one single use cartridge co-packed with a single use automated mini-doser.

Marketing Authorisation Holder and Manufacturer
Amgen Europe B.V.
Minervum 7061
4817 ZK Breda
The Netherlands

Marketing Authorisation Holder
Amgen Europe B.V.
Minervum 7061
4817 ZK Breda
The Netherlands
Manufacturer
Amgen Technology (Ireland) Unlimited Company
Pottery Road
Dun Laoghaire
Co Dublin
Ireland

Manufacturer
Amgen NV
Arianelaan 5
1200 Brussel
Belgium

For any information about this medicine, please contact the local representative of the Marketing Authorisation Holder:

België/Belgique/Belgien
s.a. Amgen n.v.
Tel/Tél: +32 (0)2 7752711

Lietuva
Amgen Switzerland AG Vilniaus filialas
Tel: +370 5 219 7474

Àustria
Amgen GmbH
Tel: +43 (0)1 35 44 700

Magyarország
Amgen Kft.
Tel.: +36 1 35 44 700

Česká republika
Amgen s.r.o.
Tel: +420 221 773 500

Luxembourg/Luxemburg
s.a. Amgen Belgique/Belgien
Tel/Tél: +32 (0)2 7752711

Danmark
Amgen, filial af Amgen AB, Sverige
Tlf: +45 39617500

Malta
Amgen B.V.
The Netherlands
Tel: +31 (0)76 5732500

Deutschland
AMGEN GmbH
Tel.: +49 89 1490960

Nederland
Amgen B.V.
Tel: +31 (0)76 5732500

Eesti
Amgen Switzerland AG Vilniaus filialas
Tel: +372 586 09553

Norge
Amgen AB
Tel: +47 23308000

Ελλάδα
Amgen Ελλάς Φαρμακευτικά Ε.Π.Ε.
Τηλ.: +30 210 3447000

Österreich
Amgen GmbH
Tel: +43 (0)1 50 217

España
Amgen S.A.
Tel: +34 93 600 18 60

Polska
Amgen Biotechnologia Sp. z o.o.
Tel.: +48 22 581 3000

France
Amgen S.A.S.
Tél: +33 (0)9 69 363 363

Portugal
Amgen Biofarmacêutica, Lda.
Tel: +351 21 4220550
Hrvatska
Amgen d.o.o.
Tel: +385 (0)1 562 57 20

România
Amgen România SRL
Tel: +4021 527 3000

Ireland
Amgen Limited
United Kingdom
Tel: +44 (0)1223 420305

Slovenija
AMGEN zdravila d.o.o.
Tel: +386 (0)1 585 1767

Ísland
Vistor hf.
Sími: +354 535 7000

Slovenská republika
Amgen Slovakia s.r.o.
Tel: +421 33 321 13 22

Italia
Amgen S.r.l.
Tel: +39 02 6241121

Suomi/Finland
Amgen AB, sivuliike Suomessa/Amgen AB, filial i Finland
Puh/Tel: +358 (0)9 54900500

Kύπρος
C.A. Papaellinas Ltd
Τηλ.: +357 22741 741

Sverige
Amgen AB
Tel: +46 (0)8 6951100

Latvija
Amgen Switzerland AG Rīgas filiāle
Tel: +371 257 25888

United Kingdom
Amgen Limited
Tel: +44 (0)1223 420305

This leaflet was last revised in.

Other sources of information

Detailed information on this medicine is available on the European Medicines Agency web site:
**Instructions for use:**
Repatha single use automated mini-doser and cartridge

<table>
<thead>
<tr>
<th>Guide to parts</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Cartridge</strong></td>
</tr>
<tr>
<td>Cartridge top</td>
</tr>
<tr>
<td>White plunger (Do not rotate)</td>
</tr>
<tr>
<td>Cartridge bottom</td>
</tr>
<tr>
<td>Medicine</td>
</tr>
<tr>
<td>Cartridge label</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Automated mini-doser</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Front view</strong></td>
</tr>
<tr>
<td>Skin adhesive</td>
</tr>
<tr>
<td>Status light (Do not press until ready to inject)</td>
</tr>
<tr>
<td>Cartridge door (do not close without cartridge)</td>
</tr>
<tr>
<td>Medicine window</td>
</tr>
<tr>
<td>Pull tabs</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>Back view</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>Needle cover</td>
</tr>
<tr>
<td>Adhesive paper</td>
</tr>
<tr>
<td>Battery strip</td>
</tr>
<tr>
<td>Needle inside (under cover)</td>
</tr>
<tr>
<td>Left pull tab</td>
</tr>
<tr>
<td>Right pull tab</td>
</tr>
</tbody>
</table>

**Important:** Needle is inside.
Important

Before you use the automated mini-doser and cartridge for use with Repatha, read this important information:

Storing your automated mini-doser and cartridge

- Keep the automated mini-doser and cartridge out of the sight and reach of children.
- Keep the automated mini-doser and cartridge in the original carton in order to protect from light or physical damage.
- The automated mini-doser and cartridge must be kept in the refrigerator (2°C – 8°C).
- If removed from the refrigerator, the automated mini-doser and cartridge can be kept at room temperature (20°C – 25°C) in the original carton and must be used within 1 month.
- **Do not** store the automated mini-doser and cartridge in extreme heat or cold. For example, avoid storing in your vehicle’s glove box or boot. **Do not** freeze.

Using your automated mini-doser and cartridge

- It is important that you do not try to give yourself the injection unless you have received training from your healthcare provider.
- Adult supervision is recommended for 12 and 13 year olds while using the automated mini-doser and cartridge.
- **Do not** use the automated mini-doser and cartridge after the expiration date on the carton.
- **Do not** shake the automated mini-doser or cartridge.
- **Do not** remove the automated mini-doser and cartridge from the box or clear tray until you are ready to inject.
- **Do not** touch the start button until you place the loaded automated mini-doser and 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 cartridge if either have been dropped onto a hard surface. Part of the automated mini-doser and cartridge may be broken even if you cannot see the break. Use a new automated mini-doser and cartridge.
- **Do not** reuse the automated mini-doser and cartridge. The automated mini-doser and cartridge are for single use only.
- **Do not** freeze the automated mini-doser and cartridge.
- **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 cartridge.

In any above cases, use a new automated mini-doser and cartridge. A healthcare provider familiar with Repatha should be able to answer your questions.
### Step 1: Prepare

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

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

- **Do not** try to warm the cartridge by using a heat source such as hot water or a microwave.
- **Do not** shake the automated mini-doser and cartridge.
- **Do not** use any part of the cartridge if it appears cracked or broken.
- **Do not** use if the expiration date printed on the carton label has passed.

In any above cases, use a new automated mini-doser and cartridge.

**B**  
Open the carton and peel away the white paper cover. Remove the automated mini-doser cover from the clear tray.

![Diagram of automated mini-doser and cartridge](image)

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

- **Do not** touch the start button until the automated mini-doser is on your 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 work surface, place the:

- Clear tray containing the automated mini-doser and cartridge
- Alcohol wipes
- Cotton ball or gauze pad
- Plaster
- Sharps disposal container
Choose your automated mini-doser placement. Only use the outer arm if someone else is giving the injection.

You can use:
- Your thigh
- Belly, except for a 2-inch (5 centimetre) area around your belly button
- Outer area of upper arm (only if someone else is giving the injection)

Clean your 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, scars, stretch marks, moles and excessive hair.

If you want to use the same injection site, make sure it is not the same spot on the injection site you used for a previous injection.

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

---

**Step 2: Get ready**

Open the automated mini-doser by swinging the cartridge door to the right. Then, leave the door open.

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

Cartridge top (do not rotate)

Cartridge bottom  Medicine  White plunger  Cartridge label  Expiration date

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 cartridge.

**G** Clean the cartridge bottom.

Grab here

With one hand, 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.

<table>
<thead>
<tr>
<th><img src="image1.png" alt="Image" /></th>
<th><img src="image2.png" alt="Image" /></th>
</tr>
</thead>
<tbody>
<tr>
<td>Load the cartridge <strong>straight</strong></td>
<td></td>
</tr>
<tr>
<td>Press down <strong>firmly</strong></td>
<td></td>
</tr>
</tbody>
</table>

Insert the cartridge bottom first.

- **Do not** insert the cartridge more than 5 minutes before injection. This can dry out the medicine.
- **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.

<table>
<thead>
<tr>
<th><img src="image3.png" alt="Image" /></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Squeeze tight</strong></td>
</tr>
</tbody>
</table>

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.

Right pull tab

Flashing Light

Beep-beep-beep

Left pull tab

Skin adhesive

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 for more than 5 seconds.
- **Do not** pull the skin adhesive backing off of the automated mini-doser.
- **Do not** fold the skin adhesive over onto itself.

**K** 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.

**Belly area placement**

**Thigh placement**

OR

Stretch method for belly

**Do not** stretch for thigh

Important: Adjust your body posture to avoid skin folds and bulges.
When the blue light flashes, the automated mini-doser is ready. **Keep the stretch** (belly 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 the entire 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 automated mini-doser after it has been placed onto your skin.

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

- You may hear a pumping sound.
- You may feel a needle 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 contactor your doctor or pharmacist.
Injection takes about 9 minutes. 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.

- Moderate physical activities can be performed during the injection process, such as walking, reaching and bending.

**Injection is complete when:**
- The status light changes to solid green.
- You hear several beeps.

---

**Step 4: Finish**

When the injection is done, grab the skin adhesive to carefully peel the automated mini-doser off your 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 turns off, letting you know all medicine has been injected. If the plunger did not fill the window, contact your doctor.

- 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.
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 sharps disposal container right away after use. **Do not** throw away (dispose of) the automated mini-doser in your household waste.
- Talk with your healthcare provider about proper disposal. There may be local guidelines for disposal.
- **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 waste.

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

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 a plaster if needed.

**Troubleshooting**

What to do if the loaded automated mini-doser status light continuously flashes red and you hear beeps.

**Stop using** the loaded automated mini-doser. If the automated mini-doser is attached to your body, carefully remove it.

**Additional environmental conditions**

Relative humidity range is 15% to 85%.
Altitude range is -300 metres to 3,500 metres (-984 feet to 11,483 feet).
During injection, keep the automated mini-doser a minimum of 10 cm (4 inches) away from other electronics such as mobile phones.
Warning: Do not modify the device.
Automated mini-doser operating temperature range is 15°C to 40°C.
www.devicepatents.com

**SYMBOL TABLE**

<table>
<thead>
<tr>
<th>Icon</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image1" alt="Do not use if packaging is damaged" /></td>
<td>Do not use if packaging is damaged</td>
</tr>
<tr>
<td><img src="image2" alt="Keep dry" /></td>
<td>Keep dry</td>
</tr>
<tr>
<td><img src="image3" alt="Refer to Instructions for Use" /></td>
<td>Refer to Instructions for Use</td>
</tr>
<tr>
<td><img src="image4" alt="Type BF" /></td>
<td>Type BF</td>
</tr>
<tr>
<td><img src="image5" alt="Single use" /></td>
<td>Single use</td>
</tr>
<tr>
<td><img src="image6" alt="Sterilised using ethylene oxide" /></td>
<td>Sterilised using ethylene oxide</td>
</tr>
</tbody>
</table>
Amgen Inc., One Amgen Center Drive, Thousand Oaks, CA, U.S.A.

Amgen Europe B.V., Minervum 7061, 4817 ZK, Breda, The Netherlands