

הנדון:**עדכון התווית התכשיר****עדכון עלון התכשיר****Evkeeza 150 mg/mL, Concentrate for Solution for Infusion****אבקיהזה 150 מ"ג/מ"ל, תרכיז להכנת תמיסה באינפוזיה**חברת Truemed Ltd. מבקשת להודיע על **עדכון ההתוויה** של התכשיר שבנדון כמפורט להלן:

Evkeeza is indicated as an adjunct to diet and other low-density lipoprotein-cholesterol (LDL-C) lowering therapies for the treatment of adult and adolescent paediatric patients aged 12 years 1 year and older with homozygous familial hypercholesterolaemia (HoFH).

מהות העדכון העיקרית היא הרחבת ההתוויה למטופלים מגיל שנה ומעלה.

בעקבות עדכון התווית התכשיר, עודכן עלון התכשיר ביולי 2026 ונשלח לפרסום במאגר התרופות שבאתר משרד הבריאות. ניתן לקבל את העלון מודפס על ידי פנייה לבעל הרישום: תרומד בע"מ, ישראל, רחוב בני גאון 10, פארק תעשייה פולג 'ת.ד. 8105, דרום נתניה 4250499

Evinacumab 150mg/mL

חומר פעיל:**התווית התכשיר:**

Evkeeza is indicated as an adjunct to diet and other low-density lipoprotein-cholesterol (LDL-C) lowering therapies for the treatment of adult and paediatric patients aged 1 year and older with homozygous familial hypercholesterolaemia (HoFH).

פרטי העדכון בעלון מסומנים באדום בגוף העלון המצורף למכתב זה.
עדכוני בטיחות מסומנים בצהוב.

בברכה,

Truemed Ltd.

1. NAME OF THE MEDICINAL PRODUCT

Evkeeza 150 mg/ml

2. QUALITATIVE AND QUANTITATIVE COMPOSITION

Each ml of concentrate for solution for infusion contains 150 mg of evinacumab.

One vial of 2.3 ml of concentrate contains 345 mg of evinacumab.

One vial of 8 ml of concentrate contains 1,200 mg of evinacumab.

Evinacumab is produced in Chinese hamster ovary (CHO) cells by recombinant DNA technology.

For the full list of excipients, see section 6.1.

3. PHARMACEUTICAL FORM

Concentrate for solution for infusion (sterile concentrate)

Clear to slightly opalescent, colourless to pale yellow sterile solution with a pH of 6.0 and an osmolality of approximately 500 mmol/kg.

4. CLINICAL PARTICULARS

4.1 Therapeutic indications

Evkeeza is indicated as an adjunct to diet and other low-density lipoprotein-cholesterol (LDL-C) lowering therapies for the treatment of adult and ~~adolescent paediatric~~ patients aged ~~12-17~~ years and older with homozygous familial hypercholesterolaemia (HoFH).

4.2 Posology and method of administration

Before treatment initiation of evinacumab the patient should be on an optimal LDL-C lowering regimen.

Treatment with evinacumab should be initiated and monitored by a physician experienced in the treatment of lipid disorders.

Posology

The recommended dose is 15 mg/kg body weight administered by intravenous infusion over 60 minutes once monthly (every 4 weeks).

Missed dose

If a dose is missed, it should be administered as soon as possible. Thereafter, treatment with evinacumab should be scheduled monthly from the date of the last dose.

~~The rate of infusion may be slowed, interrupted, or discontinued if the patient develops any signs of adverse reactions, including infusion-associated symptoms.~~

~~Evkeeza can be administered without regard to lipoprotein apheresis.~~

Elderly (≥ 65 years)

No ~~dosage-dose~~ adjustment is required for elderly patients (see sections 5.1 and 5.2).

Renal impairment

No dose adjustment is required in patients with renal impairment (see section 5.2).

Hepatic impairment

No dose adjustment is required in patients with hepatic impairment (see section 5.2).

Paediatric population

No dose adjustment is required for paediatric patients aged ~~12-1~~ to 17 years (~~see sections 4.8, 5.1 and 5.2~~). ~~The safety and efficacy of Evkeeza is not indicated in children aged less than 12-1 year have not been established; (see sections 4.8, 5.1 and 5.2). No data are available.~~

Method of administration

Evkeeza is for intravenous infusion use only.

Evkeeza can be administered without regard to lipoprotein apheresis.

Administration

- If refrigerated, ~~allow~~ the solution should be allowed to come to room temperature (up to 25 °C) prior to administration.
- Evinacumab should be administered over 60 minutes by intravenous infusion through an intravenous line containing a sterile, in-line or add-on 0.2-micron to 5-micron filter. ~~Do not administer evinacumab~~ Evinacumab should not be administered as an intravenous push or bolus.
- ~~Do not mix other~~ Other medicinal products should not be mixed with evinacumab or administered ed concomitantly via the same infusion line.

The rate of infusion may be slowed, interrupted, or discontinued if the patient develops any signs of adverse reactions, including infusion ~~associated symptoms~~ reactions (see sections 4.4 and 4.8).

~~For instructions~~ Instructions on dilution of the medicinal product before administration are listed in; ~~see~~ section 6.6.

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

Traceability

In order to improve the traceability of biological medicinal products, the name and the batch number of the administered product should be clearly recorded.

Hypersensitivity and infusion reactions

Hypersensitivity reactions, including anaphylaxis, and infusion reactions have been reported with evinacumab (see section 4.8). If signs or symptoms of serious hypersensitivity or serious infusion reactions occur, discontinue treatment with evinacumab, treat according to the standard-of-care, and monitor until signs and symptoms resolve.

Excipients with known effect

This medicinal product contains 30 mg of proline in each ml. Proline may be harmful for patients with hyperprolinaemia type I or type II.

This medicinal product contains 1 mg of polysorbate 80 in each ml. Polysorbates may cause allergic reactions.

4.5 Interaction with other medicinal products and other forms of interaction

No interaction studies have been performed. No interacting mechanisms between evinacumab and other lipid-lowering ~~medications~~ medicinal products have been observed.

4.6 Fertility, pregnancy and lactation

Women of childbearing potential

Women of childbearing potential ~~should have to~~ use effective contraception during treatment with evinacumab and for at least 5 months after the last dose of evinacumab.

Pregnancy

There is a limited amount of data from the use of evinacumab in pregnant women. Studies in animals have shown reproductive toxicity (see section 5.3). Human IgG antibodies are known to cross the placenta barrier; therefore, evinacumab has the potential to be transmitted from the mother to the developing foetus. Evinacumab may cause foetal harm when administered to a pregnant woman and it is not recommended during pregnancy and in women of childbearing potential not using effective contraception unless the expected benefit to the patient outweighs the potential risk to the foetus.

Breast-feeding

It is unknown whether evinacumab is excreted in human milk. Human IgGs are known to be excreted in breast milk during the first few days after birth, which decrease to low concentrations soon afterwards; consequently, a risk to the breast-fed infant cannot be excluded during this short period. Afterwards, Evkeeza could be used during breast-feeding if clinically needed.

Fertility

No human data on the effect of evinacumab on fertility are available. Animal studies do not indicate harmful effects with respect to male and female fertility (see section 5.3).

4.7 Effects on ability to drive and use machines

Evkeeza may have a minor influence on the ability to cycle, drive and use machines. Dizziness, **fatigue** and asthenia may occur following administration of Evkeeza (see section 4.8).

4.8 Undesirable effects

Summary of the safety profile

The most frequently occurring adverse reactions are nasopharyngitis (13.7%), influenza like illness (7.7%), dizziness (6.0%), back pain (5.1%) and nausea (5.1%). The most serious adverse reaction is anaphylaxis (0.9%).

Tabulated list of adverse reactions

Table 1 lists the incidence of adverse reactions in ~~the pooled controlled~~ clinical trials of evinacumab therapy involving ~~117-137 treated~~ patients (117 adult and adolescent patients) with HoFH and

persistent hypercholesterolaemia from pooled controlled clinical trials and 20 paediatric patients aged >5 to 11 years with HoFH from Study R1500-CL-17100). Adverse reactions are listed by MedDRA system organ class (SOC) and by frequency. Frequencies are defined as: very common ($\geq 1/10$); common ($\geq 1/100$ to $< 1/10$); uncommon ($\geq 1/1\ 000$ to $< 1/100$); rare ($\geq 1/10\ 000$ to $< 1/1\ 000$); very rare ($< 1/10\ 000$); not known (cannot be estimated from available data). Within each frequency grouping, adverse reactions are presented in the order of decreasing seriousness.

Table 1: Adverse reactions

MedDRA System organ class	Adverse reaction Preferred term	Frequency categories
Infections and infestations	Nasopharyngitis	Very Common <u>common</u>
	Upper respiratory tract infection	Common
Immune system disorders	Anaphylaxis	Uncommon
Nervous system disorders	Dizziness	Common
Respiratory, thoracic and mediastinal disorders	Rhinorrhoea	Common
Gastrointestinal disorders	Nausea	Common
	Abdominal pain	Common
	Constipation	Common
Musculoskeletal and connective tissue disorders	Back pain	Common
	Pain in extremity	Common
General disorders and administration site conditions	<u>Fatigue*</u>	<u>Very common</u>
	Influenza like illness	Common
	Asthenia	Common
	Infusion related reaction	Common
	Infusion site reactions	Common

*See section Paediatric population, below.

Description of selected adverse reactions

Hypersensitivity reactions

Anaphylaxis was reported in 1 (0.9%) patient treated with evinacumab (see section 4.4).

Infusion reactions

Infusion reactions (e.g., infusion site pruritus) were reported in 9 (7.7%) patients treated with evinacumab and in 2 (3.7%) patients treated with placebo.

Paediatric population

The safety profile observed in ~~1413~~ adolescent patients with HoFH aged 12 to 17 years treated with evinacumab 15 mg/kg for intravenous use IV every 4 weeks was consistent with the safety profile of adult patients with HoFH.

The safety of evinacumab was assessed in 20 paediatric patients aged ≥ 5 to 11 years. The safety profile of evinacumab observed in these patients was consistent with the safety profile observed in adult and adolescent patients aged 12 years and older, with the additional adverse reaction of fatigue. Fatigue was reported in 3 (15%) patients (see section 5.1).

The safety of evinacumab in paediatric Data are available for 5 patients aged ≥ 1 to 5 years old treated with evinacumab via compassionate use. The treatment duration was between 12 weeks and 90 weeks. Based on safety data received, no new safety concern has not been identified (see section 5.1).

Evkeeza is not indicated in children aged less than 12 years.

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. Any suspected adverse reactions should be reported to the Ministry of Health according to the National Regulation by using an online form: <https://sideeffects.health.gov.il/>

4.9 Overdose

There is no specific treatment for evinacumab 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: C10AX17

Mechanism of action

Evinacumab is a recombinant human monoclonal antibody, which specifically binds to and inhibits ANGPTL3. ANGPTL3 is a member of the angiopoietin-like protein family that is expressed primarily in the liver and plays a role in the regulation of lipid metabolism by inhibiting lipoprotein lipase (LPL) and endothelial lipase (EL).

Evinacumab blockade of ANGPTL3 lowers TG and HDL-C by releasing LPL and EL activities from ANGPTL3 inhibition, respectively. Evinacumab reduces LDL-C independent of the presence of LDL receptor (LDLR) by promoting very low-density lipoprotein (VLDL) processing and VLDL remnants clearance upstream of LDL formation through EL-dependent mechanism.

Clinical efficacy and safety

Homozygous familial hypercholesterolaemia (HoFH)

Study ELIPSE-HoFH

This was a multicentre, double-blind, randomised, placebo-controlled ~~trial~~ study evaluating the efficacy and safety of evinacumab compared to placebo in 65 patients with HoFH. The ~~trial~~ study consisted of a 24-week double-blind treatment period and a 24-week open-label treatment period. In the double-blind treatment period, 43 patients were randomised to receive evinacumab 15 mg/kg administered intravenously IV every 4 weeks and 22 patients to receive placebo. Patients were on a background of other lipid-lowering therapies (e.g. statins, ezetimibe, PCSK9 inhibitor antibodies, lomitapide, and lipoprotein apheresis). The diagnosis of HoFH was determined by genetic testing or by the presence of the following clinical criteria: history of an untreated TC > 500 mg/dl (13 mmol/l) together with either xanthoma before 10 years of age or evidence of TC > 250 mg/dl (6.47 mmol/l) in both parents. Patients regardless of mutation status were included in the trial. Patients were defined as having null/null or negative/negative variants if the variations resulted in little to no residual LDLR function; null/null variants were defined as having < 15% LDLR function based on in vitro assays and negative/negative variants were defined as having premature termination codons, splice site variations,

frame shifts, insertion/deletions or copy number variations. In this trial, 32.3% (21 of 65) of patients had null/null variants and 18.5% (12 of 65) of patients had negative/negative variants.

The mean LDL-C at baseline was 255.1 mg/dl (6.61 mmol/l) and in the subset of patients with null/null variants was 311.5 mg/dl (8.07 mmol/l) and with negative/negative variants was 289.4 mg/dl (7.50 mmol/l). At baseline, 93.8% of patients were on statins, 75.4% on ezetimibe, 76.9% on a PCSK9 inhibitor antibodies, 21.5% on lomitapide, and 33.8% were receiving lipoprotein apheresis. The mean age at baseline was 42 years (range 12 to 75) with 12.3% ≥ 65 years old; 53.8% women, 73.8% White, 15.4% Asian, 3.1% Black and 7.7% Other or not reported.

The primary efficacy endpoint was percent change in LDL-C from baseline to **Week-week 24**. At **Week-week 24**, the LS mean treatment difference between evinacumab and placebo in mean percent change in LDL-C from baseline, was -49.0% (95% CI: -65.0% to -33.1%; $p < 0.0001$). For efficacy results see Table 2.

Table 2: Effect of evinacumab on lipid parameters in patients with HoFH in study ELIPSE-HoFH

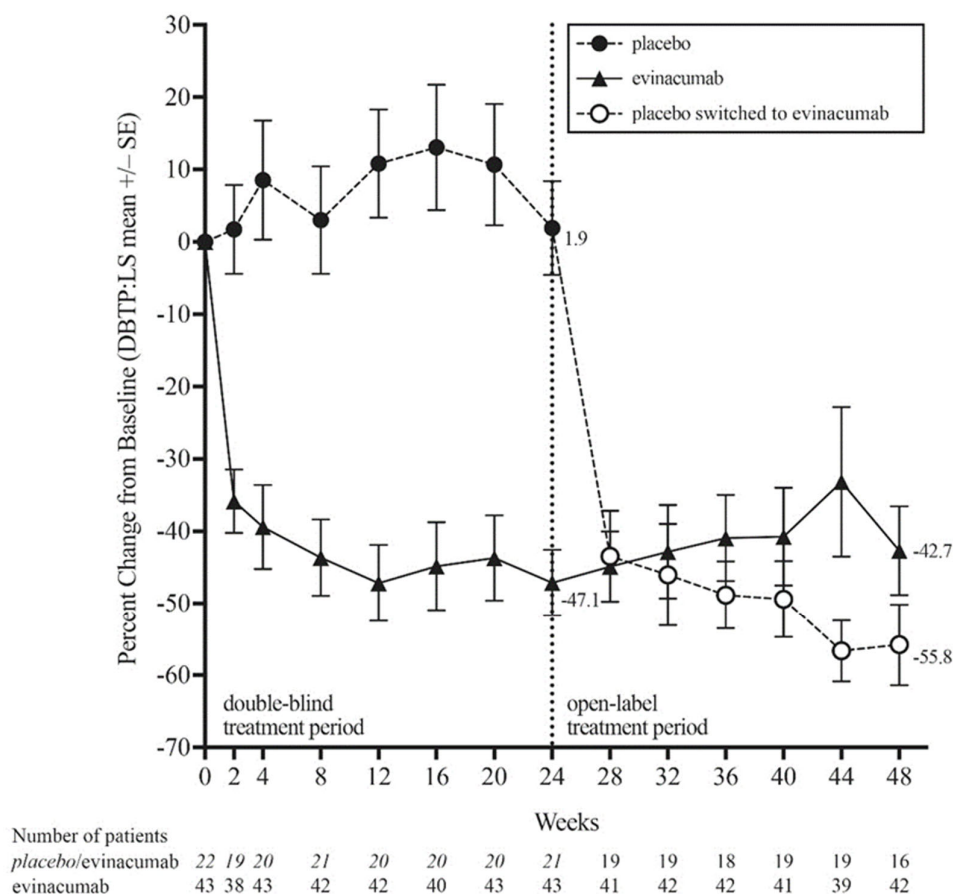
	Baseline (mean), mmol/l (N = 65)	LS mean percent change or change from baseline at Week-week 24		Difference from placebo (95% CI)	P-value
		evinacumab (N = 43)	placebo (N = 22)		
LDL-C (percent change)	6.6	-47.1%	+1.9%	-49% (-65.0 to -33.1)	< 0.0001
LDL-C (absolute change) (mmol/l)	6.6	-3.5	-0.1	-3.4 (-4.5 to -2.3)	< 0.0001
ApoB (g/l)	1.7	-41.4%	-4.5%	-36.9% (-48.6 to -25.2)	< 0.0001
Non-HDL-C	7.2	-49.7%	+2.0%	-51.7% (-64.8 to -38.5)	< 0.0001
TC	8.3	-47.4%	+1.0%	-48.4% (-58.7 to -38.1)	< 0.0001
TG	1.4	-55.0%	-4.6%	-50.4% (-65.6 to -35.2)	< 0.0001 ^a
HDL-C^b	1.2	-29.6%	+0.8%	-	-

^anominal p-value since TG is not a key secondary endpoint

^bMean percent change at **Week-week 24** results are presented based on the actual treatment received in safety population (evinacumab, n=44; placebo, n=20); there is no formal statistical testing in safety population

After the double-blind treatment period, 64 of the 65 randomised patients who entered the open-label treatment period received evinacumab. The mean percent change in LDL-C from baseline to **Week-week 48** ranged from -42.7% to -55.8%. Figure 1 shows the LDL-C mean percent change from baseline for the double-blind and observed mean percent change for the open-label treatment periods across patients who were on evinacumab or placebo during the double-blind treatment period.

Figure 1: Calculated LDL-C LS mean percent change from baseline over time through ~~Week-week~~ 24, and observed mean percent change from ~~Week-week~~ 28 through ~~Week-week~~ 48 in study ELIPSE-HoFH



At ~~Week-week~~ 24, the observed reduction in LDL-C with evinacumab was similar across predefined subgroups, including age, ~~sex~~gender, null/null or negative/negative variants, concomitant treatment with lipoprotein apheresis, and concomitant background lipid-lowering ~~medications~~medicinal product (statins, ezetimibe, PCSK9 inhibitor antibodies, and lomitapide). The effect of evinacumab on cardiovascular morbidity and mortality has not been determined.

Study ELIPSE-OLE

~~In an ongoing~~This was a multicentre, open-label extension study ~~84 in~~in 116 patients with HoFH. ~~4 Data~~available from 86 patients at 24 weeks showed a 43.6% decrease in LDL-C at 24 weeks of exposure following evinacumab treatment 15 mg/kg for intravenous use ~~IV~~ every 4 weeks on top of other lipid-lowering therapies (e.g., statins, ezetimibe, PCSK9 inhibitor antibodies, lomitapide, and lipoprotein apheresis). Reductions from baseline in LDL-C were consistent at 48 and 96 weeks; the mean percent change from baseline in calculated LDL-C at 48 weeks (n=95) was -43.9% and at 96 weeks (n=63) was -37.2%. Patients regardless of mutation status were included in the trial, including patients with null/null or negative/negative variants.

Paediatric population

ELIPSE-HoFH

In ELIPSE-HoFH, 1 adolescent patient received 15 mg/kg ~~IV~~of evinacumab for intravenous use every 4 weeks and 1 adolescent patient received placebo, as an adjunct to other lipid-lowering therapies

(e.g., statins, ezetimibe, PCSK9 inhibitor antibodies and lipoprotein apheresis). Both adolescent patients had null/null variants in the LDLR. At ~~Week-week~~ 24, the percent change in LDL-C with evinacumab was - 73.3% and with placebo +60%.

ELIPSE-OLE

In ELIPSE-OLE, ~~1413~~ adolescent patients received 15 mg/kg ~~IV~~ of evinacumab intravenously every 4 weeks as an adjunct to other lipid-lowering therapies (e.g., statins, ezetimibe, PCSK9 inhibitor antibodies and lipoprotein apheresis). Two patients entered after completing the ELIPSE-HoFH study and ~~412~~ patients were evinacumab-naïve. The mean baseline LDL-C in these adolescent patients was ~~310.3300.4~~ mg/dl (~~8.047.88~~ mmol). The mean age was 14.4 years (range: 12 to 17 years), with ~~61.564.3~~% males and ~~38.535.7~~% females. At baseline, all patients were on a statin, ~~69.271.4~~% on ezetimibe, ~~46.242.9~~% on PCSK9 inhibitor, and ~~61.564.3~~% were receiving lipoprotein apheresis. Four (~~30.828.6~~%) patients had null/null variants and 4 (~~30.828.6~~%) patients had negative/negative variants for LDLR mutations. At ~~Week-week~~ 24, the percent change in LDL-C with evinacumab was ~~-5552.4~~% (n=~~912~~).

Study R1500-CL-17100

This was a multicenter, three-part, single-arm, open-label study evaluating the efficacy, safety, and tolerability of evinacumab in paediatric patients aged ≥ 5 to 11 years with HoFH. The study included three parts: Part A, Part B, and Part C. Part A was a single-dose, open-label study to assess the safety, PK, and PD of evinacumab 15 mg/kg administered intravenously in 6 patients with HoFH followed by a 16--week observational period to determine the dose for the rest of the study. Part B was a single-arm, 24--week, open-label treatment period evaluating the efficacy and safety of evinacumab 15 mg/kg administered intravenously every 4 weeks in 14 patients with HoFH. Part C was an extension study from Part A and Part B evaluating the long-term safety of evinacumab 15 mg/kg administered intravenously every 4 weeks in 20 patients with HoFH. It consists of a 48-week treatment period and a 24-week follow-up period (ongoing). Patients in Part C entered directly from Part A or Part B.

Patients were on any combination of lipid-lowering therapies, including maximally tolerated statins, ezetimibe, lomitapide, and lipoprotein apheresis.

The diagnosis of HoFH was determined by genetic testing or by the presence of the following clinical criteria: history of untreated total cholesterol (TC) > 13 mmol/l (> 500 mg/dl) and TG < 7.8 mmol/l (< 690 mg/dl) AND either tendinous xanthoma before 10 years of age or evidence of TC > 6.47 mmol/l (> 250 mg/dl) in both parents; LDL-C > 3.36 mmol/l (> 130 mg/dl); body weight ≥ 15 kg.

Overall, for patients in Part A and Part B, the mean LDL-C at baseline was 7.8 mmol/l (301.9 mg/dl). At baseline, 90% of patients were on statins, 95% were on ezetimibe, and 60% were receiving lipoprotein apheresis.

The mean age at baseline was 9.0 years (range ≥ 5 to < 12); 40% males and 60% females; 70% White, 5% Black, 10% Asian, 5% American Indian or Alaska Native, and 10% Other. Mean body weight was 37.9 kg, and body mass index (BMI) was 18.8 kg/m².

In Part B, the primary efficacy endpoint was percent change in calculated LDL-C from baseline to week 24. At week 24, the mean percent change in calculated LDL-C from baseline was -48.3% (95% confidence interval: -68.8% to -27.8%). For efficacy results, see Table 3.

Table 3: Lipid parameters in paediatric patients (≥ 5 to 11 years) with HoFH on other lipid-lowering therapies at week 24

	<u>LDL-C</u>	<u>ApoB</u>	<u>Non-HDL-C</u>	<u>TC</u>	<u>Lp(a)</u>
<u>Baseline (mean) (N = 14)</u>	<u>6.8 mmol/l (263.7 mg/dl)</u>	<u>168.2 mg/dl (1.682 g/l)</u>	<u>7.3 mmol/l (282.2 mg/dl)</u>	<u>8.1 mmol/l (315.5 mg/dl)</u>	<u>158.6 nmol/L</u>
<u>Percent change from baseline (95% CI)</u>	<u>-48.3 (-68.8 to -27.8)</u>	<u>-41.3 (-58.9 to -23.8)</u>	<u>-48.9 (-68.1 to -29.7)</u>	<u>-49.1 (-64.9 to -33.2)</u>	<u>-37.3 (-42.2 to -32.3)</u>

At week 24, the reduction in LDL-C with evinacumab was similar across baseline characteristics, including age, gender, limited LDL-R activity, concomitant treatment with lipoprotein apheresis, and concomitant background lipid-lowering medicinal products (statins, ezetimibe, and lomitapide).

Other investigations

The safety and efficacy of Evkeeza in children aged less than 1 year have not been established (see section 4.1 for the approved indication). The efficacy of evinacumab has been predicted for pediatric patients aged 6 months to less than 5 years based on integrated PK/PD modelling and simulations (see section 5.2). Paediatric patients aged 6 months to less than 5 years receiving evinacumab 15 mg/kg every 4 weeks are predicted to experience a similar or higher magnitude of percent change in LDL-C at week 24 compared to adults while plateauing at higher absolute LDL-C concentrations at week 24.

In addition, data are available for 5 patients aged ≥1 to 5 years old with HoFH who received evinacumab via compassionate use. The prescribed dose was 15 mg/kg evinacumab every 4 weeks, the same as that used in older children and adults. Administration of evinacumab showed a clinically meaningful reduction of LDL-C consistent with that observed in patients ≥ 5 years old in clinical studies. The benefits included a reduction in LDL-C of 37.1% at week 90 in one of the patients in whom plasmapheresis frequency was reduced during the treatment period, and reductions of 43.1% at week 72, 66.3% at week 62, 77.3% at week 16, and 75.0% at week 12 respectively in the other patients. Xanthomas completely resolved in the patient in whom plasmapheresis frequency was reduced, after approximately 1 year of treatment with evinacumab.

5.2 Pharmacokinetic properties

Absorption

Evinacumab is administered intravenously to patients with HoFH. Based on population PK modelling, at the end of infusion at steady-state, mean ± SD C_{max} is 681 ± 185 689 ± 157 mg/l in adult patients following a dose of 15 mg/kg every 4 weeks. The accumulation ratio is approximately 2. ~~Mean~~ The mean ± SD steady-state trough concentration is 230 ± 81.3 241 ± 96.5 mg/l in adult patients.

Distribution

The ~~total steady-state~~ volume of distribution estimated by population PK analysis in a typical individual weighing 74.472 kg was approximately 4.98 L ~~and scales with body weight in adult patients~~, indicating that evinacumab is distributed primarily in the vascular system.

Biotransformation

Specific metabolism studies were not conducted because evinacumab is a protein. As a human monoclonal IgG4 antibody, evinacumab is expected to be degraded into small peptides and amino acids via catabolic pathways in the same manner as endogenous IgG.

Elimination

Evinacumab elimination is mediated by parallel linear and nonlinear pathways. At higher concentrations, evinacumab elimination is primarily through a non-saturable proteolytic pathway, while at lower concentrations, the non-linear saturable ANGPTL3 target-mediated elimination predominates. Elimination half-life is a function of evinacumab concentrations in serum and is not a constant.

After the last steady-state dose of 15 mg/kg ~~administered intravenously IV~~ every 4 weeks, the median time for evinacumab concentrations to decrease below the lower limit of detection (78 ng/ml) is ~~19~~ approximately 21 weeks.

Linearity/non-linearity

Due to nonlinear clearance, a slightly greater than dose proportional increase was observed, with a 4.3- fold increase in area under the concentration-time curve at steady-state ($AUC_{tau,ss}$) for a 3-fold increase in dose from 5 mg/kg to 15 mg/kg ~~administered intravenously IV~~ every 4 weeks.

Pharmacokinetic/pharmacodynamic relationship(s)

The pharmacodynamic effect of evinacumab in lowering LDL-C is indirect and mediated through the binding to ANGPTL3. Concentration of total ANGPTL3 increases from baseline upon administration of evinacumab and the increases plateau when target saturation is approached. When target is saturated, further increase in evinacumab concentrations is not expected to result in a further LDL-C reduction.

Special populations

A population PK analysis conducted on data from 183 healthy ~~subjects~~ adult participants and ~~13995~~ patients with HoFH, suggests that the following factors have no clinically significant effect on the exposure of evinacumab: age (~~42-5~~ to 75 years), gender, body weight (~~42-19.7~~ to 152 kg), race. Apheresis did not appear to substantially influence the pharmacokinetics of evinacumab.

Paediatric population

The safety and efficacy of Evkeeza in children aged less than 1 year have not been established (see section 4.1 for the approved indication).

There were ~~142~~ patients aged 12 to 17 years with HoFH receiving evinacumab at 15 mg/kg ~~administered intravenously IV~~ every 4 weeks, steady-state trough and ~~end-of-infusion~~ maximum concentrations were generally within the range ~~observed of those~~ in adult patients. The mean steady-state C_{max} was 566 ± 206 mg/l in patients aged 12 to < 18 years with HoFH.

For the 20 patients aged 5 to 11 years with HoFH receiving evinacumab at 15 mg/kg administered intravenously IV every 4 weeks, the mean (SD) steady-state trough evinacumab concentration based on population PK analyses was 160 ± 57.6 mg/l and the mean (SD) steady-state C_{max} was 419 ± 99.4 mg/l in patients aged 5 to 11 years with HoFH.

The pharmacokinetics of evinacumab in paediatric patients less than 5 years of age with HoFH were predicted from a model-based extrapolation analysis. This analysis used population PK modelling and simulations based on previously observed data in older children, adolescents, and adults, together with assumptions on the biological development and pathophysiological circumstances in younger children with HoFH. The predicted mean steady-state trough concentrations and mean accumulation ratios in patients 6 months to less than 5 years were lower but within the ranges predicted for patients aged 5 years and older. The predicted mean steady-state maximum concentration was 499 ± 185 mg/L for patients aged 6 months to less than 2 years and 513 ± 179 mg/L for patients aged 2 to less than 5 years.

Evkeeza is not indicated in children aged less than 12.

Renal impairment

Evinacumab is not expected to undergo significant renal elimination. Observed trough concentrations at steady-state were comparable between patients with mild or moderate renal impairment and patients with normal renal function. No data are available in patients with severe renal impairment.

Hepatic impairment

Evinacumab is not expected to undergo significant hepatic elimination. No data are available in patients with hepatic impairment.

5.3 Preclinical safety data

Non-clinical data **including juvenile toxicity studies** reveal no special hazard for humans based on conventional studies of safety pharmacology and repeated dose toxicity.

Carcinogenicity and mutagenicity

Carcinogenicity and genotoxicity studies have not been conducted with evinacumab. Monoclonal antibodies are not expected to alter DNA or chromosomes.

Reproductive toxicology

No effects on surrogate markers of fertility in male and female reproductive organs were observed in a 6-month chronic toxicology study with sexually mature cynomolgus monkeys. In animal reproduction studies, evinacumab was administered subcutaneously to pregnant rabbits every 3 days from gestation day 7 until gestation day 19 during organogenesis. Maternal toxicity (premature neonatal death, foetal loss and/or premature delivery) was observed at all doses and foetal findings (soft tissues and skeletal malformations) were observed at all but the lowest dose (1 mg/kg). Mean systemic exposure measured during the gestation period in rabbits was below that measured at maximum recommended human dose (MRHD) of 15 mg/kg every 4 weeks. Because the lipid profile of rabbits differs significantly from that of humans, particularly during pregnancy, the clinical relevance of these results is uncertain.

There were no effects on embryo-foetal development when rats were subcutaneously administered evinacumab every 3 days from gestation day 6 to gestation day 18 during organogenesis. Mean systemic exposure measured during the gestation period in rats was below that measured at MRHD of 15 mg/kg every 4 weeks.

6. PHARMACEUTICAL PARTICULARS

6.1 List of excipients

Water for injections
L-Proline
L-Arginine hydrochloride
L-Histidine hydrochloride monohydrate
Polysorbate 80
L-Histidine

6.2 Incompatibilities

This medicinal product must not be mixed with other medicinal products except those mentioned in section 6.6.

6.3 Shelf life

Unopened vial

The expiry date of the product is indicated on the packaging materials.

After dilution

From a microbiological point of view, the product should be used immediately. If not used immediately, it is the responsibility of the user to follow the in-use storage times and conditions prior to use.

If the diluted solution is not administered immediately, it may be stored temporarily either:

- under refrigeration at 2 °C to 8 °C for no more than 24 hours from the time of infusion preparation to the end of the infusion
- or
- at room temperature up to 25 °C for no more than 6 hours from the time of infusion preparation to the end of the infusion.

6.4 Special precautions for storage

Unopened vial

Store in a refrigerator (2 °C - 8 °C).

Store in the original carton to protect from light.

Do not freeze.

Do not shake.

For storage conditions after dilution of the medicinal product, see section 6.3.

6.5 Nature and contents of container

2.3 ml of concentrate in a 3 ml clear Type 1 glass vial with a grey chlorobutyl stopper with coating and a seal cap with a flip-off button containing 345 mg of evinacumab.

Pack size of 1 vial.

8 ml of concentrate in a 20 ml clear Type 1 glass vial, with a grey chlorobutyl stopper with coating and a seal cap with a flip-off button containing 1,200 mg of evinacumab.

Pack size of 1 vial.

Not all pack sizes may be marketed.

6.6 Special precautions for disposal and other handling

Preparation of solution

Evkeeza is supplied as a single use vial only. During preparation and reconstitution a strictly aseptic technique should be used.

- Visually inspect the medicinal product for cloudiness, discolouration or particulate matter prior to administration.
- Discard the vial if the solution is cloudy or discoloured or contains particulate matter.
- Do not shake the vial.
- Withdraw the required volume of evinacumab from the vial(s) based on patient's body weight and transfer into an intravenous infusion bag containing sodium chloride 9 mg/ml (0.9%) or dextrose 50 mg/ml (5%) for infusion. Mix the diluted solution by gentle inversion.

- For patients weighing 45 kg and above, the intravenous infusion bag should contain a maximum volume of 250 ml of 9 mg/ml (0.9%) sodium chloride, or 50 mg/ml (5%) dextrose.
- For patients weighing between 26 kg and 44 kg, the intravenous infusion bag should contain a maximum volume of 150 ml of 9 mg/ml (0.9%) sodium chloride, or 50 mg/ml (5%) dextrose.
- For patients weighing between 3 kg and 25 kg, the intravenous infusion bag should contain a maximum volume of 5 ml/kg. The corresponding volume for patients weighing between 3 kg and 25 kg should range from 15 ml to 125 ml of 9 mg/ml (0.9%) sodium chloride, or 50 mg/ml (5%) dextrose administered at a maximum rate of 5 ml/kg/hour.

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~~• The final concentration of the diluted solution should be between 0.5 mg/ml to 20 mg/ml.~~

- Do not freeze or shake the solution.
- Discard any unused portion left in the vial.

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

7. MANUFACTURER

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Rahel-Hirsch-Str. 10
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8. REGISTRATION HOLDER

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9. REGISTRATION NUMBER

177-05-37833-00

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