1. NAME OF THE MEDICINAL PRODUCT

VITRAKVI 20 mg/mL oral solution

2. QUALITATIVE AND QUANTITATIVE COMPOSITION

Each mL of oral solution contains larotrectinib sulfate equivalent to 20 mg of larotrectinib.

Excipients with known effect:

Each mL of oral solution contains 295 mg sucrose, 22 mg sorbitol, 1.2mg propylene glycol and 0.2 mg methyl parahydroxybenzoate.

For the full list of excipients, see section 6.1.

3. PHARMACEUTICAL FORM

Oral solution.

Clear yellow to orange solution.

4. CLINICAL PARTICULARS

4.1 Therapeutic indications

VITRAKVI as monotherapy is indicated for the treatment of adult and paediatric patients with solid tumours that display a Neurotrophic Tyrosine Receptor Kinase (NTRK) gene fusion,

- who have a disease that is locally advanced, metastatic or where surgical resection is likely to result in severe morbidity, and
- who have no satisfactory treatment options (see sections 4.4 and 5.1).

4.2 Posology and method of administration

Treatment with VITRAKVI should be initiated by physicians experienced in the administration of anticancer therapies.

The presence of an *NTRK* gene fusion in a tumour specimen should be confirmed by a validated test prior to initiation of treatment with VITRAKVI.

Posology

Adults

The recommended dose in adults is 100 mg larotrectinib twice daily, until disease progression or until unacceptable toxicity occurs.

Paediatric population

Dosing in paediatric patients is based on body surface area (BSA). The recommended dose in paediatric patients is 100 mg/m² larotrectinib twice daily with a maximum of 100 mg per dose until disease progression or until unacceptable toxicity occurs.

Missed dose

If a dose is missed, the patient should not take two doses at the same time to make up for a missed dose. Patients should take the next dose at the next scheduled time. If the patient vomits after taking a dose, the patient should not take an additional dose to make up for vomiting.

Dose modification

For all Grade 2 adverse reactions, continued dosing may be appropriate, though close monitoring to ensure no worsening of the toxicity is advised. Patients with Grade 2 ALT and/or AST increases, should be followed with serial laboratory evaluations every one to two weeks after the observation of Grade 2 toxicity until resolved to establish whether a dose interruption or reduction is required.

For Grade 3 or 4 adverse reactions:

- VITRAKVI should be withheld until the adverse reaction resolves or improves to baseline or Grade 1. Resume at the next dose modification if resolution occurs within 4 weeks.
- VITRAKVI should be permanently discontinued if an adverse reaction does not resolve within 4 weeks.

The recommended dose modifications for VITRAKVI for adverse reactions are provided in Table 1.

Table 1: Recommended dose modifications for VITRAKVI for adverse reactions

Dose modification	Adult and paediatric patients with body surface area of at least 1.0 m ²	Paediatric patients with body surface area less than 1.0 m ²
First	75 mg twice daily	75 mg/m² twice daily
Second	50 mg twice daily	50 mg/m ² twice daily
Third	100 mg once daily	25 mg/m ² twice daily ^a

VITRAKVI should be permanently discontinued in patients who are unable to tolerate VITRAKVI after three dose modifications.

Special populations

Elderly

No dose adjustment is recommended in elderly patients (see section 5.2).

Hepatic impairment

The starting dose of VITRAKVI should be reduced by 50% in patients with moderate (Child-Pugh B) to severe (Child-Pugh C) hepatic impairment. No dose adjustment is recommended for patients with mild hepatic impairment (Child-Pugh A) (see section 5.2).

Renal impairment

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

Co-administration with strong CYP3A4 inhibitors

If co-administration with a strong CYP3A4 inhibitor is necessary, the VITRAKVI dose should be reduced by 50%. After the inhibitor has been discontinued for 3 to 5 elimination half-lives, VITRAKVI should be resumed at the dose taken prior to initiating the CYP3A4 inhibitor (see section 4.5).

Method of administration

VITRAKVI is for oral use.

VITRAKVI is available as a capsule or oral solution with equivalent oral bioavailability and may be used interchangeably.

The oral solution should be administered by mouth using an oral syringe of 1 mL or 5 mL volume or enterally by using a nasogastric feeding tube.

- For doses below 1 mL a 1 mL oral syringe should be used. The calculated dose volume should be rounded to the nearest 0.1 mL.
- For doses of 1 mL and higher a 5 mL oral syringe should be used. The dose volume should be calculated to the nearest 0.2 mL.
- VITRAKVI should not be mixed with feeding formulas, if administered via nasogastric feeding tube. Mixing with the feeding formulas could lead to tube blockages.
- For instructions for use of oral syringes and feeding tubes see section 6.6.

The oral solution can be taken with or without food but should not be taken with grapefruit or grapefruit juice.

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

Efficacy across tumour types

The benefit of VITRAKVI has been established in single arm trials encompassing a relatively small sample of patients whose tumours exhibit *NTRK* gene fusions. Favourable effects of VITRAKVI have been shown on the basis of overall response rate and response duration in a limited number of tumour types. The effect may be quantitatively different depending on tumour type, as well as on concomitant genetic alterations (see section 5.1). For these reasons, VITRAKVI should only be used if there are no treatment options for which clinical benefit has been established, or where such treatment options have been exhausted (i.e., no satisfactory treatment options).

Neurologic reactions

Neurologic reactions including dizziness, gait disturbance and paraesthesia were reported in patients receiving larotrectinib (see section 4.8). For the majority of neurologic reactions, onset occurred within the first three months of treatment. Withholding, reducing, or discontinuing VITRAKVI dosing should be considered, depending on the severity and persistence of these symptoms (see section 4.2).

Transaminase elevations

ALT and AST increase were reported in patients receiving larotrectinib (see section 4.8). The majority of ALT and AST increases occurred in the first 3 months of treatment.

Liver function including ALT and AST assessments should be monitored before the first dose and monthly for the first 3 months of treatment, then periodically during treatment, with more frequent testing in patients who develop transaminase elevations. Withhold or permanently discontinue VITRAKVI based on the severity. If withheld, the VITRAKVI dose should be modified when resumed (see section 4.2).

Co-administration with CYP3A4/P-gp inducers

Avoid co-administration of strong or moderate CYP3A4/P-gp inducers with VITRAKVI due to a risk of decreased exposure (see section 4.5).

Contraception in female and male

Women of childbearing potential must use highly effective contraception while taking VITRAKVI and for at least one month after stopping treatment (see sections 4.5 and 4.6).

Males of reproductive potential with a non-pregnant woman partner of child bearing potential should be advised to use highly effective contraception during treatment with VITRAKVI and for at least one month after the final dose (see section 4.6).

Important information about some of the ingredients

<u>Sucrose:</u> may be harmful to the teeth. Patients with rare hereditary problems of fructose intolerance, glucose-galactose malabsorption or sucrose-isomaltase insufficiency should not take this medicinal product.

<u>Sorbitol:</u> patients with hereditary fructose intolerance (HFI) should not take this medicinal product. <u>Sodium:</u> this medicinal product contains less than 1 mmol sodium (23 mg) per 5 mL, that is to say essentially 'sodium-free'.

<u>Propylene glycol:</u> co-administration with any substrate for alcohol dehydrogenase such as ethanol may induce serious adverse effects in neonates.

Parahydroxybenzoate: may cause allergic reactions (possibly delayed).

4.5 Interaction with other medicinal products and other forms of interaction

Effects of other agents on larotrectinib

Effect of CYP3A, P-gp and BCRP inhibitors on larotrectinib

Larotrectinib is a substrate of cytochrome P450 (CYP) 3A, P-glycoprotein (P-gp) and breast cancer resistance protein (BCRP). Co-administration of VITRAKVI with strong CYP3A inhibitors, P-gp and BCRP inhibitors (e.g. atazanavir, clarithromycin, indinavir, itraconazole, ketoconazole, nefazodone, nelfinavir, ritonavir, saquinavir, telithromycin, troleandomycin, voriconazole or grapefruit) may increase larotrectinib plasma concentrations (see section 4.2).

Clinical data in healthy adult subjects indicate that co-administration of a single 100 mg VITRAKVI dose with itraconazole (a strong CYP3A inhibitor and P-gp and BCRP inhibitor) 200 mg once daily for 7 days increased larotrectinib C_{max} and AUC by 2.8-fold and 4.3-fold, respectively.

Clinical data in healthy adult subjects indicate that co-administration of a single 100 mg VITRAKVI dose with a single dose of 600 mg rifampin (a P-gp and BCRP inhibitor) increased larotrectinib C_{max} and AUC by 1.8-fold and 1.7-fold, respectively.

Effect of CYP3A and P-gp inducers on larotrectinib

Co-administration of VITRAKVI with strong or moderate CYP3A and P-gp inducers (e.g. carbamazepine, phenobarbital, phenytoin, rifabutin, rifampin, or St. John's Wort) may decrease larotrectinib plasma concentrations and should be avoided (see section 4.4).

Clinical data in healthy adult subjects indicate that co-administration of a single 100 mg VITRAKVI dose with rifampin (a strong CYP3A and P-gp inducer) 600 mg once daily for 11 days decreased larotrectinib C_{max} and AUC by 71% and 81%, respectively. No clinical data is available on the effect of a moderate inducer, but a decrease in larotrectinib exposure is expected.

Effects of larotrectinib on other agents

Effect of larotrectinib on CYP3A substrates

Clinical data in healthy adult subjects indicate that co-administration of VITRAKVI (100 mg twice daily for 10 days) increased the C_{max} and AUC of oral midazolam 1.7-fold compared to midazolam alone, suggesting that larotrectinib is a weak inhibitor of CYP3A.

Exercise caution with concomitant use of CYP3A substrates with narrow therapeutic range (e.g. alfentanil, ciclosporin, dihydroergotamine, ergotamine, fentanyl, pimozide, quinidine, sirolimus, or tacrolimus) in patients taking VITRAKVI. If concomitant use of these CYP3A substrates with narrow therapeutic range is required in patients taking VITRAKVI, dose reductions of the CYP3A substrates may be required due to adverse reactions.

Effect of larotrectinib on CYP2B6 substrates

In vitro studies indicate that larotrectinib induces CYP2B6. Co-administration of larotrectinib with CYP2B6 substrates (e.g. bupropion, efavirenz) may decrease their exposure.

Effect of larotrectinib on other transporter substrates

In vitro studies indicate that larotrectinib is an inhibitor of OATP1B1. No clinical studies have been performed to investigate interactions with OATP1B1 substrates. Therefore, it cannot be excluded whether co-administration of larotrectinib with OATP1B1 substrates (e.g. valsartan, statins) may increase their exposure.

Effect of larotrectinib on substrates of PXR regulated enzymes

In vitro studies indicate that larotrectinib is a weak inducer of PXR regulated enzymes (e.g. CYP2C family and UGT). Co-administration of larotrectinib with CYP2C8, CYP2C9 or CYP2C19 substrates (e.g. repaglinide, warfarin, tolbutamide or omeprazole) may decrease their exposure.

Hormonal contraceptives

It is currently unknown whether larotrectinib may reduce the effectiveness of systemically acting hormonal contraceptives. Therefore, women using systemically acting hormonal contraceptives should be advised to add a barrier method.

4.6 Fertility, pregnancy and lactation

Women of childbearing potential / Contraception in males and females

Based on the mechanism of action, foetal harm cannot be excluded when administering larotrectinib to a pregnant woman. Women of childbearing potential should have a pregnancy test prior to starting treatment with VITRAKVI.

Women of reproductive potential should be advised to use highly effective contraception during treatment with VITRAKVI and for at least one month after the final dose. As it is currently unknown whether larotrectinib may reduce the effectiveness of systemically acting hormonal contraceptives, women using systemically acting hormonal contraceptives should be advised to add a barrier method. Males of reproductive potential with a non-pregnant woman partner of child-bearing potential should be advised to use highly effective contraception during treatment with VITRAKVI and for at least one month after the final dose.

Pregnancy

There are no data from the use of larotrectinib in pregnant women.

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

As a precautionary measure, it is preferable to avoid the use of VITRAKVI during pregnancy.

Breast-feeding

It is unknown whether larotrectinib/metabolites are excreted in human milk.

A risk to the newborns/infants cannot be excluded.

Breast-feeding should be discontinued during treatment with VITRAKVI and for 3 days following the final dose.

Fertility

There are no clinical data on the effect of larotrectinib on fertility. No relevant effects on fertility were observed in repeat-dose toxicity studies (see section 5.3).

4.7 Effects on ability to drive or use machines

VITRAKVI has a moderate influence on the ability to drive and use machines. Dizziness and fatigue have been reported in patients receiving larotrectinib, mostly Grade 1 and 2 during the first 3 months of treatment. This may influence the ability to drive and use machines during this time period. Patients should be advised not to drive and use machines, until they are reasonably certain VITRAKVI therapy does not affect them adversely (see section 4.4).

4.8 Undesirable effects

Summary of the safety profile

The most common adverse drug reactions ($\geq 20\%$) of VITRAKVI in order of decreasing frequency were increased ALT (31%), increased AST (29%), vomiting (29%), constipation (28%), fatigue (26%), nausea (25%), anaemia (24%), dizziness (23%), and myalgia (20%).

The majority of adverse reactions were Grade 1 or 2. Grade 4 was the highest reported grade for adverse reactions neutrophil count decreased (2%) ALT increased (1%), AST increased, leucocyte count decreased and blood alkaline phosphatase increased (each in <1%). The highest reported grade was Grade 3 for adverse reactions anaemia, weight increased, fatigue, dizziness, paraesthesia, muscular weakness, nausea, myalgia, gait disturbance, and vomiting. All the reported Grade 3 adverse reactions occurred in less than 5% of patients, with the exception of anaemia (7%).

Permanent discontinuation of VITRAKVI for treatment emergent adverse reactions occurred in 2% of patients (one case each of ALT increased, AST increased, gait disturbance, neutrophil count decreased). The majority of adverse reactions leading to dose reduction occurred in the first three months of treatment.

Tabulated list of adverse reactions

The safety of VITRAKVI was evaluated in 248 patients with TRK fusion-positive cancer in one of three on-going clinical trials, Studies 1, 2 ("NAVIGATE"), and 3 ("SCOUT"). The safety population, characteristics were comprised of patients with a median age of 32.5 years (range: 0.1, 84) with 39% of patients being paediatric patients. Median time on treatment for the overall safety population (n=248) was 12.5 months (range: 0.03, 57.5).

The adverse drug reactions reported in patients (n=248) treated with VITRAKVI are shown in Table 2 and Table 3.

The adverse drug reactions are classified according to the System Organ Class.

Frequency groups are defined by the following convention: 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), and not known (cannot be estimated from available data).

Within each frequency group, undesirable effects are presented in order of decreasing seriousness.

Table 2: Adverse drug reactions reported in TRK fusion-positive cancer patients treated with VITRAKVI at recommended dose (overall safety population n=248)

System organ class	Frequency	All grades	Grades 3 and 4
Blood and lymphatic system disorders	Very common	Anaemia Neutrophil count decreased (Neutropenia) Leukocyte count decreased (Leukopenia)	
	Common		Anaemia Neutrophil count decreased (Neutropenia) ^a
	Uncommon		Leukocyte count decreased (Leukopenia) ^a
Nervous system disorders	Very common	Dizziness	
	Common	Gait disturbance Paraesthesia	Dizziness Paraesthesia Gait disturbance
Gastrointestinal disorders	Very common	Nausea Constipation Vomiting	
	Common	Dysgeusia ^b	Vomiting
	Uncommon		Nausea
Musculoskeletal and connective tissue	Very common	Myalgia	
disorders	Common	Muscular weakness	Myalgia Muscular weakness
General disorders and	Very common	Fatigue	
administration site conditions	Common		Fatigue
Investigations	Very common	Alanine aminotransferase (ALT) increased Aspartate aminotransferase (AST) increased Weight increased (Abnormal weight gain)	
	Common	Blood alkaline phosphatase increased	Alanine aminotransferase (ALT) increased ^a Aspartate aminotransferase (AST) increased ^a Weight increased (Abnormal weight gain)
	Uncommon		Blood alkaline phosphatase increased ^a

^a Grade 4 reactions were reported b ADR dysgeusia includes the preferred terms "dysgeusia" and "taste disorder"

Table 3: Adverse drug reactions reported in TRK fusion-positive paediatric cancer patients treated with VITRAKVI at recommended dose (n=98); all Grades

System organ		commended dose Infants and	Children	Adolescents	Paediatric
class	Frequency	toddlers	Ciliaren	Adolescents	patients
Class		(n=35) ^a	(n=45) ^b	(n=18)°	(n=98)
Blood and	Very	Anaemia	Anaemia	Neutrophil count	Anaemia
lymphatic system disorders	common	Neutrophil count decreased (Neutropenia) Leukocyte count decreased	Neutrophil count decreased (Neutropenia) Leukocyte count decreased	decreased (Neutropenia) Leukocyte count decreased (Leukopenia)	Neutrophil count decreased (Neutropenia) Leukocyte count decreased
	C	(Leukopenia)	(Leukopenia)	• •	(Leukopenia)
	Common			Anaemia	
Nervous system disorders	Very common			Dizziness	
	Common	Dizziness	Dizziness Paraesthesia Gait disturbance	Paraesthesia	Dizziness Paraesthesia Gait disturbance
Gastrointestinal disorders	Very common	Nausea Constipation Vomiting	Nausea Constipation Vomiting	Nausea Vomiting	Nausea Constipation Vomiting
	Common		Dysgeusia	Constipation	Dysgeusia
Musculoskeletal and connective tissue disorders	Common		Myalgia Muscular weakness	Myalgia Muscular weakness	Myalgia Muscular weakness
General disorders and administration site conditions	Very common	Fatigue	Fatigue	Fatigue	Fatigue
Investigations	Very	Alanine	Alanine	Alanine	Alanine
	Common	(ALT) increased Aspartate	Weight increased (Abnormal weight gain) Blood alkaline	(ALT) increased Aspartate	(ALT) increased Aspartate
			phosphatase increased		

^a Infant/toddlers (28 days to 23 months): four Grade 4 Neutrophil count decreased (Neutropenia) reactions and one Blood alkaline phosphatase increased reported. Grade 3 reactions included ten cases of Neutrophil count decreased (Neutropenia), three cases of Anaemia,

three cases of Weight increased (Abnormal weight gain), and one case each of ALT increased and Vomiting.

b Children (2 to 11 years): One Grade 4 Leucocytes count decreased reported. Six reported Grade 3 cases of Neutrophil count decreased (Neutropenia), two cases of Anaemia, and one case each of ALT increased, AST increased, Gait disturbance, Vomiting, Paraesthesia and Myalgia

^c Adolescents (12 to <18 years): no Grades 3 and 4 reactions were reported.

Description of selected adverse reactions

Neurologic reactions

In the overall safety database (n=248), the maximum grade neurologic adverse reaction observed was Grade 3 which was observed in five (3%) patients and included dizziness (two patients, 1%), paraesthesia (three patients, 1%), and gait disturbance (one patient, <1%). The overall incidence was 23% for dizziness, 7% for paraesthesia and 4% for gait disturbance. Neurologic reactions leading to dose modification included dizziness (1%) and paraesthesia (1%),. One patient permanently discontinued the treatment due to Grade 3 gait disturbance. In all cases except of one, patients with evidence of anti-tumour activity who required a dose reduction were able to continue dosing at a reduced dose and/or schedule (see section 4.4).

Transaminase elevations

In the overall safety database (n=248), the maximum grade transaminase elevation observed was Grade 4 ALT increase in 3 patients (1%) and AST increase in 2 patients (1%) Grade 3 ALT and AST increases in 11 (4%) and 10 (4%) of patients, respectively. Majority of Grade 3 elevations were transient appearing in the first three months of treatment and resolving to Grade 1 by months 3-4. Grade 2 ALT and AST increases were observed in 18 (7%) and 20 (8%) of patients, respectively, and Grade 1 ALT and AST increases were observed in 122 (49%) and 115 (46%) of patients, respectively. ALT and AST increases leading to dose modifications occurred in 13 (5%) patients and 12 (5%) patients, respectively (see section 4.4). No patient permanently discontinued the treatment due to Grade 3-4 ALT and AST increases.

Additional information on special populations

Paediatric patients

Of the 248 patients treated with VITRAKVI, 98 (40%) patients were from birth to < 18 years of age (n=9 from birth to < 3 months, n=4 \geq 3 months to < 6 months, n=15 \geq 6 months to < 12 months, n=7 \geq 12 months to < 2 years, n=22 \geq 2 years to < 6 years, n=23 \geq 6 years to < 12 years, n=18 \geq 12 years to < 18 years). The majority of adverse reactions were Grade 1 or 2 in severity (see Table 3) and were resolved without VITRAKVI dose modification or discontinuation. Adverse reactions of Grade 3 or 4 in severity were generally observed more frequently in patients < 6 years of age. They were reported in 67% of patients from birth to < 3 months and in 44% of patients \geq 3 months to < 6 years. Decreased neutrophil count has been reported to have led to study drug discontinuation, dose modification and dose interruption.

Elderly

Of the 248 patients in the overall safety population who received VITRAKVI, 40 (16%) patients were 65 years or older and 11 (4%) patients were 75 years or older. The safety profile in elderly patients (≥ 65 years) is consistent with that seen in younger patients. The adverse reaction dizziness (48% versus 35% in all adults), anaemia (38% versus 24% in all adults), muscular weakness (23% versus 12% in all adults), and gait disturbance (10% versus 5% in all adults) were more frequent in patients of 65 years or older.

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 events 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 limited experience of overdose with VITRAKVI. Symptoms of overdose are not established. In the event of overdose, physicians should follow general supportive measures and treat symptomatically.

5. PHARMACOLOGICAL PROPERTIES

5.1 Pharmacodynamic properties

Pharmacotherapeutic group: Antineoplastic and immunomodulating agents, antineoplastic agents, protein kinase inhibitors, ATC code: L01EX12.

Mechanism of action

Larotrectinib is an adenosine triphosphate (ATP)-competitive and selective tropomyosin receptor kinase (TRK) inhibitor that was rationally designed to avoid activity with off-target kinases. The target for larotrectinib is the TRK family of proteins inclusive of TRKA, TRKB, and TRKC that are encoded by *NTRK1*, *NTRK2* and *NTRK3* genes, respectively. In a broad panel of purified enzyme assays, larotrectinib inhibited TRKA, TRKB, and TRKC with IC₅₀ values between 5-11 nM. The only other kinase activity occurred at 100-fold higher concentrations. In *in vitro* and *in vivo* tumour models, larotrectinib demonstrated anti-tumour activity in cells with constitutive activation of TRK proteins resulting from gene fusions, deletion of a protein regulatory domain, or in cells with TRK protein overexpression.

In-frame gene fusion events resulting from chromosomal rearrangements of the human genes *NTRK1*, *NTRK2*, and *NTRK3* lead to the formation of oncogenic TRK fusion proteins. These resultant novel chimeric oncogenic proteins are aberrantly expressed, driving constitutive kinase activity subsequently activating downstream cell signalling pathways involved in cell proliferation and survival leading to TRK fusion-positive cancer.

Acquired resistance mutations after progression on TRK inhibitors have been observed. Larotrectinib had minimal activity in cell lines with point mutations in the TRKA kinase domain, including the clinically identified acquired resistance mutation, G595R. Point mutations in the TRKC kinase domain with clinically identified acquired resistance to larotrectinib include G623R, G696A, and F617L.

The molecular causes for primary resistance to larotrectinib are not known. It is therefore not known if the presence of a concomitant oncogenic driver in addition to an *NTRK* gene fusion affects the efficacy of TRK inhibition. The measured impact of any concomitant genomic alterations on larotrectinib efficacy is provided below (see clinical efficacy).

Pharmacodynamic effect

Cardiac electrophysiology

In 36 healthy adult subjects receiving single doses ranging from 100 mg to 900 mg, VITRAKVI did not prolong the QT interval to any clinically relevant extent.

The 200 mg dose corresponds to a peak exposure (C_{max}) similar to that observed with larotrectinib 100 mg BID at steady state. A shortening of QTcF was observed with VITRAKVI dosing, with a maximum mean effect observed between 3 and 24 hours after C_{max} , with a geometric mean decrease in QTcF from baseline of -13.2 msec (range -10 to -15.6 msec). Clinical relevance of this finding has not been established.

Clinical efficacy

Overview of studies

The efficacy and safety of VITRAKVI were studied in three multicentre, open-label, single-arm clinical studies in adult and paediatric cancer patients (Table 4). The studies are still ongoing Patients with and without documented *NTRK* gene fusion were allowed to participate in Study 1 and Study 3 ("SCOUT"). Patients enrolled to Study 2 ("NAVIGATE") were required to have TRK fusion-positive cancer. The pooled primary analysis set of efficacy includes 192 patients with TRK fusion-positive cancer enrolled across the three studies that had measurable disease assessed by

RECIST v1.1, a non-CNS primary tumour and received at least one dose of larotrectinib as of July 2020. These patients were required to have received prior standard therapy appropriate for their tumour type and stage of disease or who, in the opinion of the investigator, would have had to undergo radical surgery (such as limb amputation, facial resection, or paralysis causing procedure), or were unlikely to tolerate, or derive clinically meaningful benefit from available standard of care therapies in the advanced disease setting. The major efficacy outcome measures were overall response rate (ORR) and duration of response (DOR), as determined by a blinded independent review committee (BIRC). In addition, 33 patients with primary CNS tumours and measurable disease at baseline were treated in Study 2 ("NAVIGATE") and in Study 3 ("SCOUT"). Thirty-two of the 33 primary CNS tumour patients had received prior cancer treatment (surgery, radiotherapy and/or previous systemic therapy). Tumour responses were assessed by the investigator using RANO or RECIST v1.1 criteria.

Identification of *NTRK* gene fusions relied upon the molecular test methods: next generation sequencing (NGS) used in 196 patients, polymerase chain reaction (PCR) used in 12 patients, fluorescence *in situ* hybridization (FISH) used in 14 patients, and Nanostring, Sanger sequencing, and Chromosome Microarray in 1 patient each.

Table 4: Clinical studies contributing to the efficacy analyses in solid and primary CNS tumours

Study name, design and patient	Dose and	Tumour types included in	n
population	formulation	efficacy analysis	
 Study 1 NCT02122913 Phase 1, open-label, dose escalation and expansion study; expansion phase required tumours with an NTRK gene fusion Adult patients (≥ 18 years) with advanced solid tumours with an NTRK gene fusion 	Doses up to 200 mg once or twice daily (25 mg, 100 mg capsules or 20 mg/mL oral solution)	Thyroid (n=4) Salivary gland (n=3) GIST (n=2) ^a Soft tissue sarcoma (n=2) NSCLC (n=1) ^b , ^c Unknown primary cancer (n=1)	13
 Study 2 "NAVIGATE" NCT02576431 Phase 2 multinational, open label, tumour "basket" study Adult and paediatric patients ≥ 12 years with advanced solid tumours with an NTRK gene fusion 	100 mg twice daily (25 mg, 100 mg capsules or 20 mg/mL oral solution)	Thyroid (n=24) ^b Soft tissue sarcoma (n=20) Salivary gland (n=19) NSCLC (n=13) ^{b, c} Primary CNS (n=9) Colorectal (n=8) Melanoma (n=6) Breast, secretory (n=4) Breast, non-secretory (n=3) GIST (n=2) ^a Biliary (n=2) Pancreas (n=2) SCLC (n=1) ^{b, d} Appendix (n=1) Bone sarcoma (n=1) Hepatic ^c (n=1) Prostate (n=1) Cervix (n=1)	118
 Study 3 "SCOUT" NCT02637687 Phase 1/2 multinational, open-label, dose escalation and expansion study; Phase 2 expansion cohort required advanced solid tumours with an NTRK gene fusion, including locally advanced infantile fibrosarcoma Paediatric patients ≥ 1 month to 21 years with advanced cancer or with primary CNS tumours 	Doses up to 100 mg/m² twice daily (25 mg, 100 mg capsules or 20 mg/mL oral solution)	Infantile fibrosarcoma (n=40) Soft tissue sarcoma (n=26) Primary CNS (n=24) Congenital mesoblastic nephroma (n=2) Bone sarcoma (n=1) Melanoma (n=1)	94
Total number of patients (n)*		_	225

^{*} consist of 192 patients with IRC tumour response assessment and 33 patients with primary CNS tumours (including astrocytoma, glioblastoma, glioma, glioneuronal tumours, neuronal and mixed neuronal-glial tumours, and primitive neuroectodermal tumour, not specified) with investigator tumour response assessment

Baseline characteristics for the pooled 192 patients with solid tumours with an *NTRK* gene fusion were as follows: median age 38 years (range 0.1-84 years); 37% < 18 years of age, and $64\% \ge 18$ years;

^a GIST: gastrointestinal stromal tumour

^b brain metastases observed in 7 NSCLC, 4 thyroid, 2 melanoma, 1 SCLC and 1 breast (non-secretory) patient

^c NSCLC: non-small cell lung cancer

^d SCLC: small cell lung cancer

e hepatocellular carcinoma

72% white and 51% male; and ECOG PS 0-1 (87%), 2 (11%), or 3 (2%). Ninety-two percent of patients had received prior treatment for their cancer, defined as surgery, radiotherapy, or systemic therapy. Of these, 73% had received prior systemic therapy with a median of 1 prior systemic treatment regimen. Twenty-seven percent of all patients had received no prior systemic therapy. Of those 192 patients the most common tumour types represented were soft tissue sarcoma (25%), infantile fibrosarcoma (21%), thyroid cancer (15%), salivary gland tumour (11%), and lung cancer (8%).

Baseline characteristics for the 33 patients with primary CNS tumours with an NTRK gene fusion assessed by investigator were as follows: median age 9 years (range 1.3-79 years); 26 patients < 18 years of age, and 7 patients \geq 18 years, and 24 patients white and 17 patients male; and ECOG PS 0-1 (28 patients), or 2 (4 patients). Thirty-two (97%) patients had received prior treatment for their cancer, defined as surgery, radiotherapy, or systemic therapy. There was a median of 1 prior systemic treatment regimen received.

Efficacy results

The pooled efficacy results for overall response rate, duration of response and time to first response, in the primary analysis population (n=192) and with post-hoc addition of primary CNS tumours (n=33) resulting in the pooled population (n=225), are presented in Table 5 and Table 6.

Table 5: Pooled efficacy results in solid tumours including and excluding primary CNS tumours

Efficacy parameter	Analysis in solid tumours excluding primary CNS tumours (n=192) ^a	Analysis in solid tumours including primary CNS tumours (n=225) ^{a, b}
Overall response rate (ORR) % (n) [95% CI]	72% (139) [65, 79]	65% (147) [59, 72]
Complete response (CR)	23% (44)	21% (47)
Pathological complete response ^c	7% (13)	6% (13)
Partial response (PR)	43% (82)	39% (87) ^d
Time to first response (median, months) [range]	1.84 [0.89, 16.20]	1.84 [0.89, 16.20]
Duration of response (median, months)	34.5	34.5
[range]	[1.6+, 58.5+]	[1.6+, 58.5+]
% with duration ≥ 12 months % with duration ≥ 24 months	79% 66%	79% 66%

⁺ denotes ongoing

Table 6: Overall response rate and duration of response by tumour type

Tumour type	Patients (n=225)	ORR ^a 95% CI -		T delenes			_
V F				months		Range	
		70	9370 CI	≥ 12	≥ 24	(months)	
Soft tissue sarcoma	48	69%	54%, 81%	78%	63%	1.9, 54.7+	
Infantile fibrosarcoma	40	93%	80%, 98%	80%	62%	1.6+, 38.5+	
Primary CNS	33	24%	11%, 42%	75%	NR	3.8, 22.0+	
Thyroid	28	64%	44%, 81%	94%	76%	2.8+, 39.2+	
Salivary gland	22	86%	65%, 97%	89%	84%	7.4, 58.5+	

^a Independent review committee analysis by RECIST v1.1 for solid tumours except primary CNS tumours (192 patients).

^b Investigator assessment using either RANO or RECIST v1.1 criteria for primary CNS tumours (33 patients).

^c A pathological CR was a CR achieved by patients who were treated with larotrectinib and subsequently underwent surgical resection with no viable tumour cells and negative margins on post-surgical pathology evaluation. The pre-surgical best response for these patients was reclassified pathological CR after surgery following RECIST v.1.1

d An additional 1% (2 patients with primary CNS tumours) had partial responses, pending confirmation.

Lung	15	87%	60%, 98%	64%	64%	1.9+, 45.1+
Colon	8	38%	9%, 76%	67%	67%	5.6, 27.3
Melanoma	7	43%	10%, 82%	50%	NR	1.9+, 23.2+
Breast	7					
Secretory ^b	4	75%	19%, 99%	0%	0%	9.4+, 11.1
Non-secretory ^c	3	67%	9%, 99%	100 %	NR	15.2, 23.0+
Gastrointestinal stromal tumour	4	100%	40%, 100%	75%	38%	9.5, 31.1+
Bone sarcoma	2	50%	1%, 99%	0%	0%	9.5
Cholangiocarcinoma ^d	2	0%	NA	NA	NA	NA
Pancreas	2	0%	NA	NA	NA	NA
Congenital mesoblastic nephroma	2	100%	16%, 100%	100 %	100%	6.4+, 24.2+
Unknown primary cancer	1	100%	3%, 100%	0%	0%	7.4
Appendix	1	0%	NA	NA	NA	NA
<u>Hepatic^d</u>	1	0%	NA	NA	NA	NA
Prostate	1	0%	NA	NA	NA	NA
Cervix	1	0%	NA	NA	NA	NA

DOR: duration of response

NA: not applicable due to small numbers or lack of

response

NR: not reached

Due to the rarity of TRK fusion-positive cancer, patients were studied across multiple tumour types with a limited number of patients in some tumour types, causing uncertainty in the ORR estimate per tumour type. The ORR in the total population may not reflect the expected response in a specific tumour type.

In the adult sub-population (n=122), the ORR was 64%. In the paediatric sub-population (n=70), the ORR was 87%.

In 198 patients with wide molecular characterisation before larotrectinib treatment, the ORR in 95 patients who had other genomic alterations in addition to *NTRK* gene fusion was 55%, and in 103 patients without other genomic alterations ORR was 70%.

Pooled primary analysis set

The pooled primary analysis set consisted of 192 patients and did not include primary CNS tumours. Median time on treatment before disease progression was 34.5 months (range: 1.6 to 58.5 months) based on July 2020 cut-off. Seventy-nine percent of patients had received VITRAKVI for 12 months or more and 66% had received VITRAKVI 24 months or more, with follow-up ongoing at the time of the analysis.

At the time of analysis, the median duration of response is 34.5 months (range: 1.6+ to 58.5+), an estimated 79% [95% CI: 72, 86] of responses lasted 12 months or longer, and 66% [95% CI: 57, 73] of

⁺ denotes ongoing response

^a evaluated per independent review committee analysis by RECIST v1.1 for all tumour types except patients with a primary CNS tumour who were evaluated per investigator assessment using either RANO or RECIST v1.1 criteria

b with 2 complete, 1 partial response

c with 1 complete, 1 partial response

d one patient who is not evaluable

responses lasted 24 months or longer. Eighty-nine percent (89%) [95% CI: 85, 94] of patients treated were alive one year after the start of therapy and 82% [95% CI: 76, 88] after two years with the median for overall survival not yet being reached. Median progression free survival was 33.4 months at the time of the analysis, with a progression free survival rate of 67% [95% CI: 60, 74] after 1 year and 57% [95% CI: 49, 65] after 2 years.

The median change in tumour size in the pooled primary analysis set was a decrease of 70%.

Patients with primary CNS tumours

At the time of data cut-off, of the 33 patients with primary CNS tumours confirmed response was observed in 8 patients (24%) with 3 of the 33 patients (9%) being complete responders and 5 patients (15%) being partial responders. In 2 additional patients (6%) a not yet confirmed partial response was observed. Further 20 patients (61%) had stable disease. Three patients (9%) had progressive disease. At the time of data cut-off, time on treatment ranged from 1.2 to 31.3 months and was ongoing in 18 out of 33 patients with one of these patients receiving post-progression treatment.

5.2 Pharmacokinetic properties

In cancer patients given VITRAKVI capsules, peak plasma levels (C_{max}) of larotrectinib were achieved at approximately 1 hour after dosing. Half-life ($t_{1/2}$) is approximately 3 hours and steady state is reached within 8 days with a systemic accumulation of 1.6 fold. At the recommended dose of 100 mg taken twice daily, steady-state arithmetic mean (\pm standard deviation) C_{max} and daily AUC in adults were 914 \pm 445 ng/mL and 5410 \pm 3813 ng*h/mL, respectively. *In vitro* studies indicate that larotrectinib is not a substrate for either OATP1B1 or OATP1B3.

In vitro studies indicate that larotrectinib does not inhibit CYP1A2, CYP2B6, CYP2C8, CYP2C9, CYP2C19, or CYP2D6 at clinically relevant concentrations and is unlikely to affect clearance of substrates of these CYPs.

In vitro studies indicate that larotrectinib does not inhibit the transporters BCRP, P-gp, OAT1, OAT3, OCT1, OCT2, OATP1B3, BSEP, MATE1 and MATE2-K at clinically relevant concentrations and is unlikely to affect clearance of substrates of these transporters.

Absorption

VITRAKVI is available as a capsule and oral solution formulation.

The mean absolute bioavailability of larotrectinib was 34% (range: 32% to 37%) following a single 100 mg oral dose. In healthy adult subjects, the AUC of larotrectinib in the oral solution formulation was similar to the capsule, with C_{max} 36% higher with the oral solution formulation.

Larotrectinib C_{max} was reduced by approximately 35% and there was no effect on AUC in healthy subjects administered VITRAKVI after a high-fat and high-calorie meal compared to the C_{max} and AUC after overnight fasting.

Effect of gastric pH-elevating agents on larotrectinib

Larotrectinib has pH-dependent solubility. *In vitro* studies show that in liquid volumes relevant to the gastrointestinal (GI) tract larotrectinib is fully soluble over entire pH range of the GI tract. Therefore, larotrectinib is unlikely to be affected by pH-modifying agents.

Distribution

The mean volume of distribution of larotrectinib in healthy adult subjects was 48 L following intravenous administration of an IV microtracer in conjunction with a 100 mg oral dose. Binding of larotrectinib to human plasma proteins *in vitro* was approximately 70% and was independent of drug concentration. The blood-to-plasma concentration ratio was approximately 0.9.

Biotransformation

Larotrectinib was metabolised predominantly by CYP3A4/5 *in vitro*. Following oral administration of a single 100 mg dose of radiolabeled larotrectinib to healthy adult subjects, unchanged larotrectinib (19%) and an O-glucuronide that is formed following loss of the hydroxypyrrolidine-urea moiety (26%) were the major circulating radioactive drug components.

Elimination

The half-life of larotrectinib in plasma of cancer patients given 100 mg twice daily of VITRAKVI was approximately 3 hours. Mean clearance (CL) of larotrectinib was approximately 34 L/h following intravenous administration of an IV microtracer in conjunction with a 100 mg oral dose of VITRAKVI.

Excretion

Following oral administration of 100 mg radiolabeled larotrectinib to healthy adult subjects, 58% of the administered radioactivity was recovered in faeces and 39% was recovered in urine and when an IV microtracer dose was given in conjunction with a 100 mg oral dose of larotrectinib, 35% of the administered radioactivity was recovered in faeces and 53% was recovered in urine. The fraction excreted as unchanged drug in urine was 29% following IV microtracer dose, indicating that direct renal excretion accounted for 29% of total clearance.

Linearity / non-linearity

The area under the plasma concentration-time curve (AUC) and maximum plasma concentration (C_{max}) of larotrectinib after a single dose in healthy adult subjects were dose proportional up to 400 mg and slightly greater than proportional at doses of 600 to 900 mg.

Special populations

Paediatric patients

Based on population pharmacokinetic analyses, exposure (C_{max} and AUC) in paediatric patients at the recommended dose of 100 mg/m² with a maximum of 100 mg BID was higher than in adults (\geq 18 years of age) given the dose of 100 mg BID (see Table 7).

Data defining exposure in small children (1 month to <2 years of age) at the recommended dose is limited (n=40).

Table 7: Exposure (C_{max} and AUC on day 1^a) in patients grouped by age group at the recommended dose of 100 mg/m² with a maximum of 100 mg BID

A a a a a a a a a a a a a a a a a a a a	n=348 ^b	Fold difference compared to patients ≥ 18 years of age ^c			
Age group	n=348*	C _{max}	AUCa		
1 to < 3 months	9	4.2	4.5		
3 to < 6 months	4	2.6	2.5		
6 to < 12 months	18	2.5	1.9		
1 to < 2 years	9	2.0	1.4		
2 to < 6 years	31	2.0	1.4		
6 to < 12 years	26	1.5	1.2		
12 to < 18 years	27	1.2	1.0		
≥ 18 years	224	1.0	1.0		

^a area under the plasma concentration-time curve for 24 hours on day 1

^b number of patients from 26 November 2020 data cut-off

[°] fold difference is the ratio of stated age group to ≥18 years group. A fold-difference of 1 equates to no difference.

Elderly

There are limited data in elderly. PK data is available only in 2 patients over 65 years.

Patients with hepatic impairment

A pharmacokinetic study was conducted in subjects with mild (Child-Pugh A), moderate (Child-Pugh B) and severe (Child-Pugh C) hepatic impairment, and in healthy adult control subjects with normal hepatic function matched for age, body mass index and sex. All subjects received a single 100 mg dose of larotrectinib. An increase in larotrectinib AUC_{0-inf} was observed in subjects with mild, moderate and severe hepatic impairment of 1.3, 2 and 3.2-fold respectively versus those with normal hepatic function. C_{max} was observed to increase slightly by 1.1, 1.1 and 1.5-fold respectively.

Patients with renal impairment

A pharmacokinetic study was conducted in subjects with end stage renal disease requiring dialysis, and in healthy adult control subjects with normal renal function matched for age, body mass index and sex. All subjects received a single 100 mg dose of larotrectinib. An increase in larotrectinib C_{max} and $AUC_{\text{0-inf}}$, of 1.25 and 1.46-fold respectively was observed in renally impaired subjects versus those with normal renal function.

Other special populations

Gender did not appear to influence larotrectinib pharmacokinetics to a clinically significant extent. There was not enough data to investigate the potential influence of race on the systemic exposure of larotrectinib.

5.3 Preclinical safety data

Systemic toxicity

Systemic toxicity was assessed in studies with daily oral administration up to 3 months in rats and monkeys. Dose limiting skin lesions were only seen in rats and were primarily responsible for mortality and morbidity. Skin lesions were not seen in monkeys.

Clinical signs of gastrointestinal toxicity were dose limiting in monkeys. In rats, severe toxicity (STD10) was observed at doses corresponding to 1- to 2-times the human AUC at the recommended clinical dose. No relevant systemic toxicity was observed in monkeys at doses which correspond to > 10-times the human AUC at the recommended clinical dose.

Embryotoxicity / Teratogenicity

Larotrectinib was not teratogenic and embryotoxic when dosed daily during the period of organogenesis to pregnant rats and rabbits at maternotoxic doses, i.e. corresponding to 32-times (rats) and 16-times (rabbits) the human AUC at the recommended clinical dose. Larotrectinib crosses the placenta in both species.

Reproduction toxicity

Fertility studies with larotrectinib have not been conducted. In 3-months toxicity studies, larotrectinib had no histological effect on the male reproductive organs in rats and monkeys at the highest tested doses corresponding to approximately 7-times (male rats) and 10-times (male monkeys) the human AUC at the recommended clinical dose. In addition, larotrectinib had no effect on spermatogenesis in rats.

In a 1-month repeat-dose study in rats, fewer corpora lutea, increased incidence of anestrus and decreased uterine weight with uterine atrophy were observed and these effects were reversible. No effects on female reproductive organs were seen in the 3-months toxicity studies in rats and monkeys at doses corresponding to approximately 3-times (female rats) and 17-times (female monkeys) the human AUC at the recommended clinical dose.

Larotrectinib was administered to juvenile rats from postnatal day (PND) 7 to 70. Pre-weaning mortality (before PND 21) was observed at the high dose level corresponding to 2.5- to 4-times the AUC at the recommended dose. Growth and nervous system effects were seen at 0.5- to 4-times the AUC at the recommended dose. Body weight gain was decreased in pre-weaning male and female pups, with a post-weaning increase in females at the end of exposure whereas reduced body weight gain was seen in males also post-weaning without recovery. The male growth reduction was associated with delayed puberty. Nervous system effects (i.e. altered hindlimb functionality and, likely, increases in eyelid closure) demonstrated partial recovery. A decrease in pregnancy rate was also reported despite normal mating at the high-dose level.

Genotoxicity and carcinogenicity

Carcinogenicity studies have not been performed with larotrectinib. Larotrectinib was not mutagenic in bacterial reverse mutation (Ames) assays and in *in vitro* mammalian mutagenesis assays. Larotrectinib was negative in the *in vivo* mouse micronucleus test at the maximum tolerated dose of 500 mg/kg.

Safety pharmacology

The safety pharmacology of larotrectinib was evaluated in several *in vitro* and *in vivo* studies that assessed effects on the CV, CNS, respiratory, and GI systems in various species. Larotrectinib had no adverse effect on haemodynamic parameters and ECG intervals in telemetered monkeys at exposures (C_{max}) which are approximately 6-fold the human therapeutic exposures. Larotrectinib had no neurobehavioural findings in adult animals (rats, mice, cynomolgus monkeys) at exposure (C_{max}) at least 7-fold higher than the human exposure. Larotrectinib had no effect on respiratory function in rats; at exposures (C_{max}) at least 8-times the human therapeutic exposure. In rats, larotrectinib accelerated intestinal transit and increased gastric secretion and acidity.

6. PHARMACEUTICAL PARTICULARS

6.1 List of excipients

- Purified water
- Sucrose
- Hydroxypropyl betadex
- Glycerol
- Sorbitol
- Sodium citrate dihydrate, granular
- Sodium phosphate
- Citric acid
- Glycerin, natural flavor
- Propylene glycol
- Citrus fruit flavour
- Potassium sorbate
- Methyl parahydroxybenzoate

6.2 Incompatibilities

Not applicable.

6.3 Shelf life

The expiry date of the product is indicated on the packaging materials. After first opening: 30 days. Store in a refrigerator (2 °C - 8 °C).

6.4 Special precautions for storage

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

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

6.5 Nature and contents of container

Amber glass (type III) bottle with a child-resistant polypropylene (PP) cap with a polyethylene (PE) seal liner.

Each carton contains one bottle of 100 mL oral solution.

6.6 Special precautions for disposal and other handling

Instructions for use:

Oral syringe

- Use a suitable oral syringe and bottle adapter (28 mm diameter) if applicable.
 - For volumes less than 1 mL use a 1 mL oral syringe with 0.1 mL graduation.
 - For volumes of 1 mL and higher use a 5 mL oral syringe with 0.2 mL graduation.
- Open the bottle: press the bottle cap and turn it counter clockwise.
- Insert the bottle adapter into the bottle neck and ensure it is well fixed.
- Take the oral syringe and ensure that the plunger is fully depressed. Put the oral syringe in the adapter opening. Turn the bottle upside down.
- Fill the oral syringe with small amount of solution by pulling the plunger down, then push the plunger upwards to remove any bubbles.
- Pull the plunger down to the graduation mark equal to the quantity in mL as prescribed.
- Turn the bottle the right way up and remove the oral syringe from the bottle adapter.
- Slowly depress the plunger, directing the liquid towards the inside cheek to allow for natural swallowing.
- Close the bottle with the original bottle cap (leaving the adapter in place).

Nasogastric feeding tube

- Use a suitable nasogastric feeding tube. The outer diameter of the nasogastric feeding tube should be selected based on the patient characteristics. Typical tube diameter, tube lengths and derived prime volumes are presented in Table 8.
- The feeding should be stopped and the tube flushed with at least 10 mL water. NOTE: See exceptions regarding neonates and patients with fluid restrictions in the sub-point directly below.
- A suitable syringe should be used to administer VITRAKVI to the nasogastric feeding tube. The tube should be flushed again with at least 10 mL water to ensure VITRAKVI is delivered and to clear the tube.
 - Neonates and children with fluid restrictions may require minimal flushing volume of 0.5 to 1 mL or flushing with air to deliver VITRAKVI.
- Restart the feeding.

Table 8: Recommended tube dimensions per age group

Patient	Tube diameter for	Tube diameter for	Tube length (cm)	Tube prime
	standard feeds	high density feeds		volume (mL)
Neonate	4-5 FR	6 FR	40-50	0.25-0.5
Children	6 FR	8 FR	50-80	0.7-1.4
Adult	8 FR	10 FR	80-120	1.4-4.2

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

7. MARKETING AUTHORISATION HOLDER

Bayer Israel Ltd., 36 Hacharash St., Hod Hasharon

8. MANUFACTURER

Bayer AG51368 Leverkusen, Germany.

Revised in Dec 2022 according to MoH guidelines