

**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

Retsevmo 40 mg hard capsules

Retsevmo 80 mg hard capsules

## 2. QUALITATIVE AND QUANTITATIVE COMPOSITION

### Retsevmo 40 mg hard capsules

Each hard capsule contains 40 mg selpercatinib.

### Retsevmo 80 mg hard capsules

Each hard capsule contains 80 mg selpercatinib.

For the full list of excipients, see section 6.1.

## 3. PHARMACEUTICAL FORM

Hard capsules.

### Retsevmo 40 mg hard capsules

Grey opaque capsule, 6 x 18 mm (size 2), imprinted with “Lilly”, “3977” and “40 mg” in black ink.

### Retsevmo 80 mg hard capsules

Blue opaque capsule, 8 x 22 mm (size 0), imprinted with “Lilly”, “2980” and “80 mg” in black ink.

## 4. CLINICAL PARTICULARS

### 4.1 Therapeutic indications

Retsevmo as monotherapy is indicated for the treatment of adults with:

- advanced *RET* fusion-positive non-small cell lung cancer (NSCLC) not previously treated with a *RET* inhibitor
- advanced *RET* fusion-positive solid tumours, when treatment options not targeting RET provide limited clinical benefit, or have been exhausted (see sections 4.4 and 5.1)

Retsevmo as monotherapy is indicated for the treatment of adults and adolescents 12 years and older with:

- advanced *RET* fusion-positive thyroid cancer who are radioactive iodine-refractory (if radioactive iodine is appropriate)
- advanced *RET*-mutant medullary thyroid cancer (MTC)

## 4.2 Posology and method of administration

Retsevmo therapy should be initiated and supervised by physicians experienced in the use of anti-cancer therapies.

### RET testing

The presence of a *RET* gene mutation (MTC) or fusion (all other tumour types) should be confirmed by a validated test prior to initiation of treatment with Retsevmo.

### Posology

The recommended dose of Retsevmo based on body weight is:

- Less than 50 kg: 120 mg twice daily.
- 50 kg or greater: 160 mg twice daily.

If a patient vomits or misses a dose, the patient should be instructed to take the next dose at its scheduled time; an additional dose should not be taken.

Treatment should be continued until disease progression or unacceptable toxicity.

The current selpercatinib dose should be reduced by 50% if co-administering with a strong CYP3A inhibitor. If the CYP3A inhibitor is discontinued, the selpercatinib dose should be increased (after 3-5 half-lives of the inhibitor) to the dose that was used before starting the inhibitor.

### *Dose adjustments*

Management of some adverse reactions may require dose interruption and/or dose reduction. Retsevmo dose modifications are summarised in Table 1 and Table 2.

**Table 1 Recommended dose modifications for Retsevmo for adverse reactions based on body weight**

Dose modification	Adults and adolescents ≥50 Kg	Adults and adolescents <50 Kg
<b>Starting dose</b>	160 mg orally twice daily	120 mg orally twice daily
<b>First dose reduction</b>	120 mg orally twice daily	80 mg orally twice daily
<b>Second dose reduction</b>	80 mg orally twice daily	40 mg orally twice daily
<b>Third dose reduction</b>	40 mg orally twice daily	Not applicable

**Table 2 Recommended dose modifications for adverse reactions**

<b>Adverse drug reaction (ADR)</b>		<b>Dose modification</b>
Increased ALT or AST	Grade 3 or Grade 4	<ul style="list-style-type: none"> <li>• Suspend dose until toxicity resolves to baseline (see sections 4.4 and 4.8). Resume at a dose reduced by 2 levels.</li> <li>• If after at least 2 weeks selpercatinib is tolerated without recurrent increased ALT or AST, increase dosing by 1 dose level.</li> <li>• If selpercatinib is tolerated without recurrence for at least 4 weeks, increase to dose taken prior to the onset of Grade 3 or 4 increased AST or ALT.</li> <li>• Permanently discontinue selpercatinib if Grade 3 or 4 ALT or AST increases recur despite dose modifications.</li> </ul>
Hypersensitivity	All Grades	<ul style="list-style-type: none"> <li>• Suspend dose until toxicity resolves and begin corticosteroids at a dose of 1 mg/kg (see sections 4.4 and 4.8). Resume selpercatinib at 40 mg twice daily while continuing steroid treatment. Discontinue selpercatinib for recurrent hypersensitivity.</li> <li>• If after at least 7 days, selpercatinib is tolerated without recurrent hypersensitivity, incrementally increase the selpercatinib dose by 1 dose level each week, until the dose taken prior to the onset of hypersensitivity is reached. Taper steroid dose after selpercatinib has been tolerated for at least 7 days at the final dose.</li> </ul>
QT interval prolongation	Grade 3	<ul style="list-style-type: none"> <li>• Suspend dose for QTcF intervals &gt;500 ms until the QTcF returns to &lt;470 ms or baseline (see section 4.4).</li> <li>• Resume selpercatinib treatment at the next lower dose level.</li> </ul>
	Grade 4	<ul style="list-style-type: none"> <li>• Permanently discontinue selpercatinib if QT prolongation remains uncontrolled after two dose reductions or if the patient has signs or symptoms of serious arrhythmia.</li> </ul>

Hypertension	Grade 3	<ul style="list-style-type: none"> <li>• Patient blood pressure should be controlled before starting treatment.</li> <li>• Selpercatinib should be suspended temporarily for medically significant hypertension until controlled with antihypertensive therapy. Dosing should be resumed at the next lower dose if clinically indicated (see sections 4.4 and 4.8).</li> </ul>
	Grade 4	<ul style="list-style-type: none"> <li>• Selpercatinib should be discontinued permanently if medically significant hypertension cannot be controlled.</li> </ul>
Haemorrhagic events	Grade 3	<ul style="list-style-type: none"> <li>• Selpercatinib should be suspended until recovery to baseline. Resume at a reduced dose.</li> </ul> <p>If Grade 3 events reoccur following dose modification, permanently discontinue selpercatinib.</p>
	Grade 4	<ul style="list-style-type: none"> <li>• Permanently discontinue selpercatinib.</li> </ul>
Interstitial lung disease (ILD)/Pneumonitis	Grade 2	<ul style="list-style-type: none"> <li>• Withhold selpercatinib until resolution.</li> <li>• Resume at a reduced dose.</li> <li>• Discontinue selpercatinib for recurrent ILD/pneumonitis</li> </ul>
	Grade 3 or Grade 4	<ul style="list-style-type: none"> <li>• Discontinue selpercatinib.</li> </ul>
Other adverse reactions	Grade 3 or Grade 4	<ul style="list-style-type: none"> <li>• Selpercatinib should be suspended until recovery to baseline. Resume at a reduced dose.</li> <li>• If Grade 4 events reoccur following dose modification, permanently discontinue selpercatinib.</li> </ul>

### Special populations

#### *Elderly*

No dose adjustment is required based on age (see section 5.2).

No overall differences were observed in the treatment emergent adverse events or effectiveness of selpercatinib between patients who were  $\geq 65$  years of age and younger patients. Limited data are available in patients  $\geq 75$  years.

#### *Renal impairment*

Dose adjustment is not necessary in patients with mild, moderate or severe renal impairment. There are no data in patients with end stage renal disease, or in patients on dialysis (section 5.2).

#### *Hepatic impairment*

Close monitoring of patients with impaired hepatic function is important. No dose adjustment is required for patients with mild (Child-Pugh class A) or moderate (Child-Pugh class B) hepatic impairment. Patients with severe (Child-Pugh class C) hepatic impairment should be dosed with 80 mg selpercatinib twice daily (section 5.2).

#### *Paediatric population*

Retsevmo should not be used in children aged less than 12 years.

There is no data in children or adolescents with RET fusion-positive tumours except RET fusion-positive thyroid cancer.

Retsevmo is intended to be used from the age of 12 years for the treatment of patients with RET-mutant MTC and RET fusion-positive thyroid cancer (see section 5.1). In RET-mutant MTC and RET fusion-positive thyroid cancer, there are very limited data available in children or adolescents aged less than 18 years. Patients should be dosed according to body weight (see section 4.2). Based on results from a preclinical study (see section 5.3), open growth plates in adolescent patients should be monitored. Dose interruption or discontinuation should be considered based on the severity of any growth plate abnormalities and an individual risk-benefit assessment.

#### Method of administration

Retsevmo is for oral use.

The capsules should be swallowed whole (patients should not open, crush, or chew the capsule before swallowing) and can be taken with or without food.

Patients should take the doses at approximately the same time every day.

Retsevmo must be accompanied by a meal if used concomitantly with a proton pump inhibitor (see section 4.5).

Retsevmo should be administered 2 hours before or 10 hours after H<sub>2</sub> receptor antagonists (see section 4.5).

### **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 selpercatinib has been established in single arm trials encompassing a relatively small sample of patients whose tumours exhibit RET gene fusions. Favourable effects of selpercatinib 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 genomic alterations (see section 5.1). For these reasons, selpercatinib 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).

#### Interstitial Lung Disease (ILD)/Pneumonitis

Severe, life-threatening, or fatal cases of ILD/pneumonitis have been reported in patients treated with selpercatinib (see section 4.8). Patients should be monitored for pulmonary symptoms indicative of ILD/pneumonitis. Selpercatinib should be withheld, and patients should be promptly investigated for ILD if they present with acute or worsening of respiratory symptoms which may be indicative of ILD (e.g., dyspnoea, cough, and fever), and treated as medically appropriate. Based on the severity of ILD/pneumonitis, the dose of selpercatinib should be interrupted, reduced, or permanently discontinued (see section 4.2).

#### Increased alanine aminotransferase (ALT)/ aspartate aminotransferase (AST)

Grade  $\geq 3$  increased ALT and Grade  $\geq 3$  increased AST were reported in patients receiving selpercatinib (see section 4.8). ALT and AST should be monitored prior to the start of selpercatinib therapy, every 2 weeks during the first 3 months of treatment, monthly for the next 3 months of treatment, and otherwise as clinically indicated. Based on the level of ALT or AST elevations, selpercatinib may require dose modification (see section 4.2).

## Hypertension

Hypertension was reported in patients receiving selpercatinib (see section 4.8). Patient blood pressure should be controlled before starting selpercatinib treatment, monitored during selpercatinib treatment and treated as needed with standard anti-hypertensive therapy. Based on the level of increased blood pressure, selpercatinib may require dose modification (see section 4.2). Selpercatinib should be discontinued permanently if medically significant hypertension cannot be controlled with antihypertensive therapy.

## QT interval prolongation

QT interval prolongation was reported in patients receiving selpercatinib (see section 5.1). Selpercatinib should be used with caution in patients with such conditions as congenital long QT syndrome or acquired long QT syndrome or other clinical conditions that predispose to arrhythmias. Patients should have a QTcF interval of  $\leq 470$  ms and serum electrolytes within normal range before starting selpercatinib treatment. Electrocardiograms and serum electrolytes should be monitored in all patients after 1 week of selpercatinib treatment, at least monthly for the first 6 months and otherwise, as clinically indicated, adjusting frequency based upon risk factors including diarrhoea, vomiting, and/or nausea. Hypokalaemia, hypomagnesaemia and hypocalcaemia should be corrected prior to initiating selpercatinib and during treatment. Monitor the QT interval with ECGs more frequently in patients who require treatment with concomitant medicinal products known to prolong the QT interval.

Selpercatinib may require dose interruption or modification (see section 4.2).

## Hypothyroidism

Hypothyroidism has been reported in patients receiving selpercatinib (see section 4.8). Baseline laboratory measurement of thyroid function is recommended in all patients. Patients with pre-existing hypothyroidism should be treated as per standard medical practice prior to the start of selpercatinib treatment. All patients should be observed closely for signs and symptoms of thyroid dysfunction during selpercatinib treatment. Thyroid function should be monitored periodically throughout treatment with selpercatinib. Patients who develop thyroid dysfunction should be treated as per standard medical practice, however patients could have an insufficient response to substitution with levothyroxine (T4) as selpercatinib may inhibit the conversion of levothyroxine to triiodothyronine (T3) and supplementation with liothyronine may be needed (see section 4.5).

## Strong CYP3A4 inducers

Concomitant use of strong CYP3A4 inducers should be avoided due to the risk of decreased efficacy of selpercatinib (see section 4.5).

## Women of childbearing potential/Contraception in females and males

Women of childbearing potential must use highly effective contraception during treatment and for at least one week after the last dose of selpercatinib. Men with female partners of childbearing potential should use effective contraception during treatment and for at least one week after the last dose of selpercatinib (see section 4.6).

## Fertility

Based on nonclinical safety findings, male and female fertility may be compromised by treatment with Retsevmo (see sections 4.6 and 5.3). Both men and women should seek advice on fertility preservation before treatment.

## Hypersensitivity

Hypersensitivity was reported in patients receiving selpercatinib with a majority of events observed in patients with NSCLC previously treated with anti-PD-1/PD-L1 immunotherapy (see section 4.8). Signs and symptoms of hypersensitivity included fever, rash and arthralgias or myalgias with concurrent decreased platelets or elevated aminotransferases.

Suspend selpercatinib if hypersensitivity occurs, and begin steroid treatment. Based on the grade of hypersensitivity reactions, selpercatinib may require dose modification (see section 4.2). Steroids should be continued until patient reaches target dose and then tapered. Permanently discontinue selpercatinib for recurrent hypersensitivity.

## Haemorrhages

Serious including fatal haemorrhagic events were reported in patients receiving selpercatinib (see section 4.8).

Permanently discontinue selpercatinib in patients with life-threatening or recurrent severe haemorrhage (see section 4.2).

## Tumour lysis syndrome (TLS)

Cases of TLS have been observed in patients treated with selpercatinib. Risk factors for TLS include high tumour burden, pre-existing chronic renal insufficiency, oliguria, dehydration, hypotension, and acidic urine. These patients should be monitored closely and treated as clinically indicated, and appropriate prophylaxis including hydration should be considered.

## Epiphysiolysis of the femoral head in Paediatric Patients

Epiphysiolysis of the femoral head has been reported in paediatric patients (<18 years of age) receiving selpercatinib (see section 4.8). Patients should be monitored for symptoms indicative of epiphysiolysis of the femoral head and treated as medically and surgically appropriate.

## **4.5 Interaction with other medicinal products and other forms of interaction**

### Effects of other medicinal products on the pharmacokinetics of selpercatinib

Selpercatinib metabolism is through CYP3A4. Therefore, medicinal products that can influence CYP3A4 enzyme activity may alter the pharmacokinetics of selpercatinib.

Selpercatinib is a substrate for P-glycoprotein (P-gp) and Breast Cancer Resistance Protein (BCRP) *in vitro*, however these transporters do not appear to limit the oral absorption of selpercatinib, as its oral bioavailability is 73% and its exposure was increased minimally by co-administration of the P-gp inhibitor rifampicin (increase of approximately 6.5% and 19% in selpercatinib AUC<sub>0-24</sub> and C<sub>max</sub>, respectively).

#### *Agents that may increase selpercatinib plasma concentrations*

Co-administration of a single 160 mg selpercatinib dose with itraconazole, a strong CYP3A inhibitor, increased the C<sub>max</sub> and AUC of selpercatinib by 30% and 130%, respectively, compared to selpercatinib given alone. If strong CYP3A and/or P-gp inhibitors, including, but not limited to, ketoconazole, itraconazole, voriconazole, ritonavir, saquinavir, telithromycin, posaconazole and nefazodone, have to be co-administered, the dose of selpercatinib should be reduced (see section 4.2).

#### *Agents that may decrease selpercatinib plasma concentrations*

Co-administration of rifampicin, a strong CYP3A4 inducer resulted in a decrease of approximately 87% and 70% in selpercatinib AUC and C<sub>max</sub>, respectively, compared to selpercatinib alone, therefore the concomitant use of strong CYP3A4 inducers including, but not limited to, carbamazepine,



phenobarbital, phenytoin, rifabutin, rifampicin and St. John's Wort (*Hypericum perforatum*), should be avoided.

#### Effects of selpercatinib on the pharmacokinetics of other medicinal products (increase in plasma concentration)

##### *Sensitive CYP2C8 substrates*

Selpercatinib increased the  $C_{\max}$  and AUC of repaglinide (a substrate of CYP2C8) by approximately 91% and 188% respectively. Therefore, co-administration with sensitive CYP2C8 substrates (e.g., odiaquine, cerivastatin, enzalutamide, paclitaxel, repaglinide, torasemide, sorafenib, rosiglitazone, buprenorphine, selezipag, dasabuvir and montelukast), should be avoided.

##### *Sensitive CYP3A4 substrates*

Selpercatinib increased  $C_{\max}$  and AUC of midazolam (a CYP3A4 substrate) by approximately 39% and 54%, respectively. Therefore, concomitant use with sensitive CYP3A4 substrates, (e.g., alfentanil, avanafil, buspirone, conivaptan, darifenacin, darunavir, ebastine, lomitapide, lovastatin, midazolam, naloxegol, nisoldipine, saquinavir, simvastatin, tipranavir, triazolam, vardenafil), should be avoided.

#### Co-administration with medicinal products that affect gastric pH

Selpercatinib has pH-dependent solubility, with decreased solubility at higher pH. No clinically significant differences in selpercatinib pharmacokinetics were observed when co-administered with multiple daily doses of ranitidine ( $H_2$  receptor antagonist) given 2 hours after the selpercatinib dose.

#### Co-administration with medicinal products that are proton pump inhibitors

Co-administration with multiple daily doses of omeprazole (a proton pump inhibitor) decreased selpercatinib  $AUC_{0-INF}$  and  $C_{\max}$  when selpercatinib was administered fasting. Co-administration with multiple daily doses of omeprazole did not significantly change the selpercatinib  $AUC_{0-INF}$  and  $C_{\max}$  when Retsevmo was administered with food.

#### Co-administration with medicinal products that are substrates of transporters

Selpercatinib inhibits the renal transporter multidrug and toxin extrusion protein 1 (MATE1). *In vivo* interactions of selpercatinib with clinically relevant substrates of MATE1, such as creatinine, may occur (see section 5.2).

Selpercatinib is an *in vitro* inhibitor of P-gp and BCRP. *In vivo*, selpercatinib increased  $C_{\max}$  and AUC of dabigatran, a P-gp substrate, by 43% and 38%, respectively. Therefore, caution should be used when taking a sensitive P-gp substrate (e.g., fexofenadine, dabigatran etexilate, colchicine, saxagliptin), and particularly those with a narrow therapeutic index (e.g., digoxin) (see section 5.2).

#### Medicinal products that may be less effective when given with selpercatinib

Selpercatinib could inhibit D2 deiodinase and thereby decrease the conversion of levothyroxine (T4) to triiodothyronine (T3). Patients could therefore have an insufficient response to substitution with levothyroxine and supplementation with liothyronine may be needed (see section 4.4).

#### Paediatric population

Interaction studies have only been performed in adults.

## 4.6 Fertility, pregnancy and lactation

### Women of childbearing potential/Contraception in females and males

Women of childbearing potential have to use highly effective contraception during treatment and for at least one week after the last dose of selpercatinib. Men with female partners of childbearing potential should use effective contraception during treatment and for at least one week after the last dose of selpercatinib.

### Pregnancy

There are no available data from the use of selpercatinib in pregnant women. Studies in animals have shown reproductive toxicity (see section 5.3). Retsevmo is not recommended during pregnancy and in women of childbearing potential not using contraception. It should only be used during pregnancy if the potential benefit justifies the potential risk to the foetus.

### Breast-feeding

It is unknown whether selpercatinib is excreted in human milk. A risk to breast-fed newborns/infants cannot be excluded. Breast-feeding should be discontinued during treatment with Retsevmo and for at least one-week after the last dose.

### Fertility

No human data on the effect of selpercatinib on fertility are available. Based on findings from animal studies, male and female fertility may be compromised by treatment with Retsevmo (see section 5.3). Both men and women should seek advice on fertility preservation before treatment.

## 4.7 Effects on ability to drive and use machines

Retsevmo may have minor influence on the ability to drive and use machines. Patients should be advised to be cautious when driving or using machines in case they experience fatigue or dizziness during treatment with Retsevmo (see section 4.8).

## 4.8 Undesirable effects

### Summary of the safety profile

The most common ( $\geq 1.0\%$ ) serious adverse drug reactions (ADRs) are pneumonia (6.6%), haemorrhage (3.2%), abdominal pain (2.9%), diarrhoea (2.0%), hypersensitivity (1.9%), vomiting (1.8%), blood creatinine increased (1.6%), ALT increased (1.3%), AST increased (1.3%), pyrexia (1.3%), fatigue (1.2%), nausea (1.2%), headache (1.1%), chylothorax (1.0%) and hypertension (1.0%). Permanent discontinuation of Retsevmo for treatment emergent adverse events, regardless of attribution occurred in 9.6% of patients. The most common ADRs resulting in permanent discontinuation (3 or more patients) were increased ALT (0.7%), fatigue (0.6%), increased AST (0.5%), blood bilirubin increased (0.4%), pneumonia (0.4%), thrombocytopenia (0.4%) and haemorrhage (0.4%).

### Tabulated list of adverse drug reactions

The ADRs reported in patients treated with selpercatinib are shown in Table 3.

The ADRs are classified according to the MedDRA system organ class and frequency.

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).

Median time on treatment with selpercatinib was 30.09 months.

**Table 3 Adverse drug reactions in patients receiving single agent selpercatinib (N=837)**

MedDRA system organ class	MedDRA preferred term	Frequency of all Grades	Frequency of Grade $\geq$ 3
Infections and infestations	Pneumonia <sup>a</sup>	Very common	Common
Immune system disorders <sup>b</sup>	Hypersensitivity <sup>c</sup>	Common	Common
Endocrine disorders	Hypothyroidism	Very common	-
Metabolism and nutrition disorders	Decreased appetite	Very common	Uncommon
Nervous system disorders	Headache <sup>d</sup>	Very common	Common
	Dizziness <sup>e</sup>	Very common	Uncommon
Cardiac disorders	Electrocardiogram QT prolonged <sup>f</sup>	Very common	Common
Vascular disorders	Hypertension <sup>g</sup>	Very common	Very common
	Haemorrhage <sup>h</sup>	Very common	Common
Respiratory, thoracic and mediastinal disorders	Interstitial lung disease/pneumonitis <sup>i</sup>	Common	Uncommon
	Chylothorax	Common	Uncommon
Gastrointestinal disorders	Diarrhoea <sup>j</sup>	Very common	Common
	Dry Mouth <sup>k</sup>	Very common	-
	Abdominal pain <sup>l</sup>	Very common	Common
	Constipation	Very common	Uncommon
	Nausea	Very common	Common
	Vomiting <sup>m</sup>	Very common	Common
	Chylous ascites <sup>n</sup>	Common	Uncommon
Skin and subcutaneous tissue disorders	Rash <sup>o</sup>	Very common	Uncommon
Musculoskeletal and connective tissue disorders	Epiphysiolysis of the femoral head <sup>p</sup>	Common	Common
General disorders and administration site conditions	Oedema <sup>q</sup>	Very common	Common
	Fatigue <sup>r</sup>	Very common	Common
	Pyrexia	Very common	Uncommon
Investigations <sup>s</sup>	AST increased	Very common	Very common
	ALT increased	Very common	Very common
	Lymphocyte count decreased	Very common	Very common
	Creatinine increased	Very common	Common
	White blood cell count decreased	Very common	Common
	Alkaline phosphatase increased	Very common	Common
	Platelets decreased	Very common	Common
	Magnesium decreased	Very common	Uncommon
	Haemoglobin decreased	Very common	Common
	Total bilirubin increased	Very common	Common

MedDRA system organ class	MedDRA preferred term	Frequency of all Grades	Frequency of Grade $\geq$ 3
	Neutrophil count decreased	Very common	Common

- <sup>a</sup> Pneumonia includes pneumonia, lung infection, pneumonia aspiration, empyema, lung consolidation, pleural infection, pneumonia bacterial, pneumonia staphylococcal, atypical pneumonia, lung abscess, pneumocystis jirovecii pneumonia, pneumonia pneumococcal and pneumonia respiratory syncytial viral.
- <sup>b</sup> Hypersensitivity reactions were characterised by a maculopapular rash often preceded by a fever with associated arthralgias/myalgias during the patient's first cycle of treatment (typically between Days 7-21).
- <sup>c</sup> Hypersensitivity includes drug hypersensitivity and hypersensitivity.
- <sup>d</sup> Headache includes headache, sinus headache and tension headache.
- <sup>e</sup> Dizziness includes dizziness, vertigo, presyncope and dizziness postural.
- <sup>f</sup> Electrocardiogram QT prolonged includes electrocardiogram QT prolonged and Electrocardiogram QT interval abnormal.
- <sup>g</sup> Hypertension includes hypertension and blood pressure increased.
- <sup>h</sup> Haemorrhage includes epistaxis, haemoptysis, contusion, haematuria, rectal haemorrhage, vaginal haemorrhage, cerebral haemorrhage, traumatic haematoma, blood urine present, conjunctival haemorrhage, ecchymosis, gingival bleeding, haematochezia, petechiae, blood blister, spontaneous haematoma, abdominal wall haematoma, anal haemorrhage, angina bullosa haemorrhagica, disseminated intravascular coagulation, eye haemorrhage, gastric haemorrhage, gastrointestinal haemorrhage, haemorrhage intracranial, haemorrhage subcutaneous, haemorrhoidal haemorrhage, hepatic haematoma, intra-abdominal haemorrhage, mouth haemorrhage, oesophageal haemorrhage, pelvic haematoma, periorbital haematoma, periorbital haemorrhage, pharyngeal haemorrhage, pulmonary contusion, purpura, retroperitoneal haematoma, skin haemorrhage, subarachnoid haemorrhage, diverticulum intestinal haemorrhagic, eye haematoma, haematemesia, haemorrhage, haemorrhagic stroke, hepatic haemorrhage, laryngeal haemorrhage, lower gastrointestinal haemorrhage, melaena, menorrhagia, occult blood positive, post procedural haemorrhage, postmenopausal haemorrhage, retinal haemorrhage, scleral haemorrhage, subdural haemorrhage, traumatic haemothorax, tumour haemorrhage, upper gastrointestinal haemorrhage, uterine haemorrhage and vessel puncture site haematoma.
- <sup>i</sup> Interstitial lung disease/pneumonitis includes pneumonitis, radiation pneumonitis, restrictive pulmonary disease, acute respiratory distress syndrome, alveolitis, bronchiolitis, langerhans' cell histiocytosis and pulmonary radiation injury.
- <sup>j</sup> Diarrhoea includes diarrhoea, anal incontinence, defaecation urgency, frequent bowel movements and gastrointestinal hypermotility.
- <sup>k</sup> Dry mouth includes dry mouth and mucosal dryness.
- <sup>l</sup> Abdominal pain includes abdominal pain, abdominal pain upper, abdominal discomfort, abdominal pain lower and gastrointestinal pain.
- <sup>m</sup> Vomiting includes vomiting, retching and regurgitation.
- <sup>n</sup> Chylous ascites includes chylous ascites and ascites chylous (MedDRA LLTs).
- <sup>o</sup> Rash includes rash, rash maculo-papular, dermatitis, skin exfoliation, rash macular, rash erythematous, urticaria, dermatitis allergic, exfoliative rash, rash papular, rash morbilliform, rash pruritic, rash vesicular, butterfly rash, rash follicular, rash generalised, and rash pustular.
- <sup>p</sup> Epiphysiolysis of the femoral head has been commonly observed (6.4%) in paediatric patients (<18 years of age) treated with selpercatinib (n=47).
- <sup>q</sup> Oedema includes oedema peripheral, face oedema, periorbital oedema, swelling face, localised oedema, peripheral swelling, generalised oedema, eyelid oedema, eye swelling, lymphoedema, oedema genital, scrotal swelling, angioedema, eye oedema, oedema, scrotal oedema, skin oedema, swelling, orbital oedema, testicular swelling and vulvovaginal swelling.
- <sup>r</sup> Fatigue includes fatigue, asthenia and malaise.
- <sup>s</sup> Based on laboratory assessments. Percentage is calculated based on the number of patients with baseline assessment and at least one post-baseline assessment as the denominator, which was 806 for lymphocyte count decrease, 830 for magnesium decreased, 814 for neutrophil count decreased, and 834 for the others.

### Description of selected adverse reactions

#### *Aminotransferase elevations (AST / ALT increased)*

Based on laboratory assessment, ALT and AST elevations were reported in 56.7% and 61.3% patients, respectively. Grade 3 or 4 ALT or AST elevations were reported in 12.2% and 10.4% patients respectively.

The median time to first onset was: AST increase 4.7 weeks (range: 0.7, 227.9), ALT increase 4.4 weeks (range: 0.9, 186.1).

Dose modification is recommended for patients who develop Grade 3 or 4 ALT or AST increase (see section 4.2).

#### *QT interval prolongation*

In the 837 patients who had ECGs, review of data showed 8.1% of patients had >500 msec maximum post-baseline QTcF value, and 21.6% of patients had a >60 msec maximum increase from baseline in QTcF intervals. At the time of the last post-baseline measurement, increase in QTc value >60 msec was reported in 2.0% of patients.

There were no reports of *Torsade de pointes*, sudden death, ventricular tachycardia, ventricular fibrillation, or ventricular flutter related to selpercatinib. One patient (0.1%) discontinued treatment due to QT prolongation.

Retsevmo may require dose interruption or modification (see sections 4.2 and 4.4).

#### *Hypertension*

In the 837 patients who had blood pressure measurements, the median maximum increase from baseline systolic pressure was 32 mm Hg (range: -15, +100). Only 10.3% of patients retained their baseline grade during treatment, 40.7% had an increasing shift of 1 grade, 38.5% of 2 grades, and 9.8% of 3 grades. A treatment emergent adverse event of hypertension was reported in 44.8% patients with history of hypertension (28.2% with grade 3, 4) and 41.7% of patients without history of hypertension (14.1% with grade 3, 4).

Overall, a total of 19.8% displayed treatment-emergent Grade 3 hypertension (defined as maximum systolic blood pressure greater than 160 mm Hg). Grade 4 treatment emergent hypertension was reported in 0.1% of patients. Diastolic blood pressure results were similar, but the increases were of lesser magnitude.

Two patients (0.2%) permanently discontinued treatment due to hypertension. Dose modification is recommended in patients who develop hypertension (see section 4.2). Selpercatinib should be discontinued permanently if medically significant hypertension cannot be controlled with antihypertensive therapy (see section 4.4).

#### *Hypersensitivity*

Signs and symptoms of hypersensitivity included fever, rash and arthralgias or myalgias with concurrent decreased platelets or increased aminotransferase.

In study LIBRETTO-001, 24.0% (201/837) of patients treated with selpercatinib had previously received anti-PD-1/PD-L1 immunotherapy. Hypersensitivity occurred in a total of 5.7% (48/837) of patients receiving selpercatinib, including Grade 3 hypersensitivity in 1.9% (16/837) of patients. Of the 48 patients with hypersensitivity, 54.2% (26/48) had NSCLC and had received prior anti-PD-1/PD-L1 immunotherapy.

Grade 3 hypersensitivity occurred in 3.5% (7/201) of the patients previously treated with anti-PD-1/PD-L1 immunotherapy.

The median time to onset was 1.9 weeks (range: 0.7 to 203.9 weeks): 1.7 weeks in patients with previous anti-PD-1/PD-L1 immunotherapy and 4.4 weeks in patients who were anti-PD-1/PD-L1 immunotherapy naïve.

Retsevmo may require dose interruption or modification (see section 4.2).

### *Haemorrhages*

Grade  $\geq 3$  haemorrhagic events occurred in 3.5% of patients treated with selpercatinib, including 4 (0.5%) patients with fatal haemorrhagic events, two cases of cerebral haemorrhage, and one case each of tracheostomy site haemorrhage, and haemoptysis. The median time to onset was 34.1 weeks (range: 0.1 week to 234.6 weeks).

Selpercatinib should be discontinued permanently in patients with life-threatening or recurrent severe haemorrhage (see section 4.2).

### Additional information on special populations

#### *Paediatric patients*

There were 3 patients < 18 years (range: 15-17) of age with RET-mutant MTC in LIBRETTO-001. There were 8 patients < 18 years (range 12-17) of age with RET fusion-positive thyroid cancer in LIBRETTO-121. Cases of epiphysiolysis of the femoral head have been reported in patients < 18 years of age treated with selpercatinib (see section 4.4). No other unique safety findings in children aged less than 18 years have been identified.

#### *Elderly*

In patients receiving selpercatinib, 24.7% were  $\geq 65$ -74 years of age, 8.6% were 75-84 years of age, and 1.0%  $\geq 85$  years of age. The frequency of serious adverse events reported was higher in patients  $\geq 65$ -74 years (58.0%), 75-84 years (62.5%), and  $\geq 85$  years (100.0%), than in patients <65 years (46.7%) of age.

The frequency of AE leading to discontinuation of selpercatinib was higher in patients  $\geq 65$ -74 years (10.1%), 75-84 years (19.4%), and  $\geq 85$  years (37.5%), than in patients <65 years of age (7.6%).

### 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**

Symptoms of overdose have not been established. In the event of suspected overdose, supportive care should be provided.

## **5. PHARMACOLOGICAL PROPERTIES**

### **5.1 Pharmacodynamic properties**

Pharmacotherapeutic group: Antineoplastic and immunomodulating agents, antineoplastic agents, protein kinase inhibitors, ATC code: L01EX22

#### Mechanism of action

Selpercatinib is an inhibitor of the rearranged during transfection (*RET*) receptor tyrosine kinase. Selpercatinib inhibited wild-type RET and multiple mutated RET isoforms as well as VEGFR1 and VEGFR3 with IC<sub>50</sub> values ranging from 0.92 nM to 67.8 nM. In other enzyme assays, selpercatinib also inhibited FGFR 1, 2, and 3 at higher concentrations that were still clinically achievable. In a binding assay at the concentration of 1  $\mu$ M selpercatinib, significant antagonist binding activity (>50%) was observed for the 5-HT (serotonin) transporter (70.2% antagonist) and  $\alpha$ 2C adrenoreceptor (51.7% antagonist). The concentration of 1  $\mu$ M is approximately 7-fold higher than the maximum unbound plasma concentration of at the efficacious dose of selpercatinib.

Certain point mutations in RET or chromosomal rearrangements involving in-frame fusions of RET with various partners can result in constitutively activated chimeric RET fusion proteins that can act as

oncogenic drivers by promoting cell proliferation of tumour cell lines. In *in vitro* and *in vivo* tumour models, selpercatinib demonstrated anti-tumour activity in cells harboring constitutive activation of RET protein resulting from gene fusions and mutations, including CCDC6-RET, KIF5B-RET, RET V804M, and RET M918T. In addition, selpercatinib showed anti-tumour activity in mice intracranially implanted with a patient-derived RET fusion-positive tumour.

### Pharmacodynamic properties

#### *Cardiac electrophysiology*

In a thorough QT study with positive control in 32 healthy subjects, no large change (that is, >20 ms) in the QTcF interval was detected at selpercatinib concentrations similar to those observed with a therapeutic dosing schedule. An exposure-response analysis indicated that supra therapeutic concentrations, could lead to an increase in QTc > 20 ms.

In patients receiving selpercatinib, QT interval prolongation was reported. Therefore, dose interruption or modification may be required in patients (see sections 4.2 and 4.4).

### Clinical efficacy and safety

The efficacy of Retsevmo was evaluated in adult patients with advanced RET fusion-positive NSCLC, RET fusion-positive thyroid cancer, other RET fusion-positive solid tumours, and in adult and adolescent patients with RET-mutant MTC enrolled in a phase 1/2, multicenter, open-label, single-arm clinical study: Study LIBRETTO-001. This study included two parts: phase 1 (dose escalation) and phase 2 (dose expansion). The primary objective of the phase 1 portion was to determine the recommended phase 2 dose of selpercatinib. The primary objective of the phase 2 part was to evaluate the anti-tumour activity of selpercatinib by determining ORR, as assessed by independent review committee. Patients with measurable or non-measurable disease as determined by RECIST 1.1, with evidence of a RET gene alteration in tumour and who had failed or were intolerant to standard of care were enrolled. Patients with CNS metastases were eligible if stable, while patients with symptomatic primary CNS tumour, metastases, leptomeningeal carcinomatosis or spinal cord compression were excluded. Patients with known primary driver alteration other than RET, clinically significant active cardiovascular disease or history of myocardial infarction, QTcF interval > 470 msec were excluded.

Patients in the phase 2 portion of the study received Retsevmo 160 mg orally twice daily until unacceptable toxicity or disease progression. Identification of a RET gene alteration was prospectively determined in local laboratories using next generation sequencing (NGS), polymerase chain reaction (PCR), or fluorescence in situ hybridization (FISH). The primary efficacy outcome measure was overall response rate (ORR) according to RECIST v1.1 as evaluated by a Blinded Independent Review Committee (IRC). Secondary efficacy outcomes included duration of response (DOR), progression free survival (PFS) and overall survival (OS).

#### Treatment-naïve RET fusion-positive NSCLC

Of the 362 RET fusion-positive NSCLC patients enrolled in LIBRETTO-001, 69 were treatment naïve. The median age was 63 years (range 23 years to 92 years). 62.3% of patients were female. 69.6% of patients were White, 18.8% were Asian, 5.8% were Black and 69.6% were never smokers. Most patients (98.6%) had metastatic disease at enrolment and 23.2% had CNS metastasis at baseline as assessed by investigator. ECOG performance status was reported as 0-1 (94.2%) or 2 (5.8%). The most common fusion partner was KIF5B (69.6%), followed by CCDC6 (14.5%) and then NCOA4 (1.4%). Efficacy results for treatment-naïve RET fusion-positive NSCLC patients are summarised in Table 4.

**Table 4 Objective response and duration of response**

	<b>Efficacy eligible patients IRC assessment</b>
N	69
<b>Objective response (CR + PR)</b>	
% (95% CI)	82.6 (71.6, 90.7)

Complete response n (%)	5 (7.2)
Partial response n (%)	52 (75.4)
<b>Duration of response (months)*</b>	
Median, 95% CI	20.23 (15.4, 29.5)
<b>Rate (%) of patients with duration of response</b>	
≥ 6 months (95% CI)	87.5 (75.5, 93.8)
≥ 12 months (95% CI)	66.7 (52.4, 77.6)

\*Median duration of follow-up was 37.09 months (25<sup>th</sup>, 75<sup>th</sup> percentile: 24.0, 45.1)

Data Cut-off date: 13 January 2023.

#### Previously treated RET fusion-positive NSCLC

A total of 247 patients had received prior platinum-based chemotherapy. The median age was 61 years (range 23 years to 81 years). 56.7% of patients were female. 43.7% of patients were White, 47.8% were Asian, 4.9% were Black, and 66.8% were never smokers. Most patients (98.8%) had metastatic disease at enrolment and 31.2% had CNS metastasis at baseline as assessed by investigator. ECOG performance status was reported as 0-1 (97.1%) or 2 (2.8%). The most common fusion partner was KIF5B (61.9%), followed by CCDC6 (21.5%) and then NCOA4 (2.0%). The median number of prior systemic therapies was 2 (range 1–15) and 43.3% (n = 107/247) received 3 or more prior systemic regimens; prior treatments included anti PD1/PD-L1 therapy (58.3%), multi-kinase inhibitor (MKI) (31.6%) and taxanes (34.8%); 41.3% had other systemic therapy. Efficacy results for previously treated RET fusion-positive NSCLC patients are summarised in Table 5.

**Table 5 Objective response and duration of response**

	<b>Efficacy eligible patients IRC assessment</b>
N	247
<b>Objective response (CR + PR)</b>	
% (95% CI)	61.5 (55.2, 67.6)
Complete response n (%)	20 (8.1)
Partial response n (%)	132 (53.4)
<b>Duration of response (months)*</b>	
Median (95% CI)	31.6 (20.4, 42.3)
<b>Rate (%) of patients with duration of response</b>	
≥ 6 months (95% CI)	87.0 (80.4, 91.5)
≥ 12 months (95% CI)	73.0 (65.0, 79.5)

\*Median duration of follow-up was 39.52 months (25<sup>th</sup>, 75<sup>th</sup> percentile: 24.6, 45.0)

Data Cut-off date: 13 January 2023.

#### CNS response in RET fusion-positive NSCLC

The CNS ORR assessed by IRC was 84.6% (22/26; 95% CI: 65.1, 95.6) in 26 patients with measurable disease. CR was observed in 7 (26.9%) patients and PR in 15 (57.5%) patients. The median CNS DOR was 9.36 months (95% CI: 7.4, 15.3).

#### Systemic treatment-naïve RET fusion-positive thyroid cancer

Of the RET fusion-positive thyroid cancer patients naïve to systemic therapy other than radioactive iodine, and enrolled in LIBRETTO-001, 24 patients had the opportunity to be followed for at least 6 months and were considered efficacy eligible. The median age was 60.5 years (range 20 to 84 years). 58.3% of patients were male. 75% of patients were White. ECOG performance status was reported as 0-1 (95.8%) or 2 (4.2%). 100% of patients had a history of metastatic disease. 22 out of the 24 patients (91.7%) received radioactive iodine prior to enrolment and therefore were considered radioactive iodine refractory. The different histologies represented in the 24 patients included: papillary (n=23) and poorly differentiated (n=1). The most common fusion partner was CCDC6 (45.8%) followed by



NCOA4 (20.8%). Efficacy results for systemic treatment-naïve *RET* fusion-positive thyroid cancer patients are summarised in Table 6.

**Table 6 Objective response and duration of response**

	Efficacy eligible patients IRC assessment
N	24
<b>Objective response (CR + PR)</b>	
% (95% CI)	95.8 (78.9, 99.9)
Complete response n (%)	5 (20.8)
Partial response n (%)	18 (75.0)
<b>Duration of response (months)*</b>	
Median (95% CI)	NE (42.8, NE)
<b>Rate (%) of patients with duration of response</b>	
≥ 12 months (95% CI)	100.0 (NE, NE)
≥ 24 months (95% CI)	90.9 (50.8, 98.7)

NE = not estimable

\*Median duration of follow-up was 17.81 months (25<sup>th</sup>, 75<sup>th</sup> percentile: 9.2, 42.3)

Data Cut-off date: 13 January 2023

*Previously treated RET fusion-positive thyroid cancer*

Of the *RET* fusion-positive thyroid cancer patients previously treated with systemic therapy other than Radioactive iodine, and enrolled in LIBRETTO-001, 41 patients had the opportunity to be followed for at least 6 months and were considered efficacy eligible. The median age was 58 years (range 25 to 88 years). 43.9% of patients were male. 58.5% of patients were White while 29.3% were Asian and 7.3% were Black. ECOG performance status was reported as 0-1 (92.7%) or 2 (7.3%). 100% of patients had metastatic disease. Patients had received a median of 3 prior systemic therapies (range: 1-7). The most common prior therapies included radioactive iodine (73.2%), MKI (85.4%). 9.8% had other systemic therapy. The different histologies represented in the 41 patients included: papillary (n = 31), poorly differentiated (n = 5), anaplastic (n = 4), and Hurthle cell (n = 1). The most common fusion partner was CCDC6 (61.0%) followed by NCOA4 (19.5%).

Efficacy results for previously treated *RET* fusion-positive thyroid cancer are summarised in Table 7.

**Table 7 Objective response and duration of response**

	Efficacy eligible patients IRC assessment
N	41
<b>Objective response (CR + PR)</b>	
% (95% CI)	85.4 (70.8, 94.4)
Complete response n (%)	5 (12.2)
Partial response n (%)	30 (73.2)
<b>Duration of response (months)*</b>	
Median (95% CI)	26.7 (12.1, NE)
<b>Rate (%) of patients with duration of response</b>	
≥ 12 months (95% CI)	71.7 (52.4, 84.2)
≥ 24 months (95% CI)	50.7 (30.4, 67.8)

NE = not estimable

\*Median duration of follow-up was 33.87 months (25<sup>th</sup>, 75<sup>th</sup> percentile: 12.9, 44.8)

Data Cut-off date: 13 January 2023.

#### Vandetanib and cabozantinib naïve RET-mutant medullary thyroid cancer

Of the 324 RET-mutant MTC patients enrolled in LIBRETTO-001, 143 were naïve to treatment with cabozantinib and vandetanib. Of these 116 were treatment naïve to other systemic therapy and 27 had previously received other systemic therapy. Among patients naïve to cabozantinib and vandetanib, the median age was 57 years (range 15 to 87 years). 2 patients (1.4%) were < 18 years of age. 58.0% of patients were male. 86.7% of patients were White, 5.6% were Asian, 1.4% were Black. Most patients (97.9%) had metastatic disease at enrolment. ECOG performance status was reported as 0-1 (95.9%) or 2 (4.2%). The most common mutation was M918T (60.1%), followed by extracellular cysteine mutations (23.8%). Efficacy results for cabozantinib and vandetanib treatment-naïve RET-mutant MTC patients are summarised in Table 8.

**Table 8 Objective response and duration of response**

	<b>Efficacy eligible patients IRC assessment</b>
N	143
<b>Objective response (CR + PR)</b>	
% (95% CI)	82.5 (75.3, 88.4)
Complete response n (%)	34 (23.8)
Partial response n (%)	84 (58.7)
<b>Duration of response (months)*</b>	
Median, 95% CI	NE (51.3, NE)
<b>Rate (%) of duration of response</b>	
≥ 12 months (95% CI)	91.4 (84.6, 95.3)
≥ 24 months (95% CI)	84.1 (75.9, 89.7)

NE = not estimable,

\*Median duration of follow-up was 39.4 months (25<sup>th</sup>, 75<sup>th</sup> percentile: 32.3, 45.4).

Data cut-off date 13 January 2023.

#### Previously treated RET-mutant medullary thyroid cancer

Of the RET-mutant MTC patients enrolled in LIBRETTO-001, 152 were previously treated with cabozantinib and/or vandetanib, and considered efficacy eligible. The median age was 58 years (range 17 years to 90 years); 1 patient (0.7%) was < 18 years of age. 63.8% of patients were male. 90.1% of patients were White while 1.3% were Asian, and 1.3% were Black. ECOG performance status was reported as 0-1 (92.7%) or 2 (7.2%). 98.0% of patients had metastatic disease. The most common mutation was M918T (65.1%), followed by extracellular cysteine mutations (15.8%). 100% (n = 152) of patients received prior systemic therapy with a median of 2 prior systemic regimens and 27.6% (n = 42) received 3 or more prior systemic regimens.

Efficacy results for previously treated RET-mutant MTC are summarised in Table 9.

**Table 9 Objective response and duration of response**

	<b>Efficacy eligible patients IRC assessment</b>
N	152
<b>Objective response (CR + PR)</b>	
% (95% CI)	77.6 (70.2, 84.0)
Complete response n (%)	19 (12.5)
Partial response n (%)	99 (65.1)
<b>Duration of response (months)*</b>	
Median (95% CI)	45.3 (33.6, NE)
<b>Rate (%) of duration of response</b>	
≥ 12 months (95% CI)	83.0 (74.6, 88.8)
≥ 24 months (95% CI)	66.4 (56.3, 74.7)

NE = not estimable

\*Median duration of follow-up was 38.3 months (25<sup>th</sup>, 75<sup>th</sup> percentile: 23.0, 46.1).

Data cut-off date 13 January 2023.

#### Other RET Fusion-Positive Solid Tumours

Efficacy was evaluated in 52 patients with *RET* fusion-positive tumours other than NSCLC and thyroid cancer with disease progression on or following prior systemic treatment or who had no satisfactory alternative treatment options. The median age was 54 years (range 21 to 85); 51.9% were female; 67.3% were White, 25.0% were Asian, and 5.8% were Black; ECOG performance status was 0-1 (92.3%) or 2 (7.7%) and 96.2% of patients had metastatic disease. Forty-seven patients (90.4%) received prior systemic therapy with a median of 2 prior systemic therapies (range 0 to 9) and 28.8% received 3 or more prior systemic therapies. No patients had been previously treated with a selective *RET* inhibitor. The most common cancers were pancreatic (25%), colon (25%), and salivary (7.7%). The most common fusion partners were NCOA4 (34.6%), CCDC6 (17.3%), and KIF5B (11.5%). Efficacy results for *RET* fusion-positive solid tumours other than NSCLC and thyroid cancer are summarized in Table 10 and Table 11.

**Table 10 Objective response and duration of response**

	<b>Efficacy eligible patients IRC assessment</b>
N	52
<b>Overall response (CR+PR)</b>	
% (95% CI)	44.2 (30.5, 58.7)
Complete response n (%)	3 (5.8)
Partial response n (%)	20 (38.5)
<b>Duration of Response (months)*</b>	
Median (95% CI)	37.19 (13.3, NE)
<b>Rate (%) of duration of response</b>	
6 months (95% CI)	84.7 (59.5, 94.8)
12 months (95% CI)	79 (53.1, 91.6)

\* Median duration of follow-up was 28.55 months (25<sup>th</sup>, 75<sup>th</sup> percentile: 11.2, 40.9)

NE = not estimable

Data cut-off date 13 January 2023

**Table 11 Objective response and duration of response by Tumour Type**

Tumour Type	Patients (N = 52)	ORR (IRC assessment)		DOR Range (months)
		n (%)	95% CI	
Pancreatic	13	7 (53.8)	25.1, 80.8	2.50, 52.14
Colorectal	13	4 (30.8)	9.1, 61.4	1.84+, 13.31
Salivary	4	2 (50.0)	6.8, 93.2	5.72, 37.19
Cholangiocarcinoma	3	1 (33.3)	0.8, 90.6	14.82
Unknown primary	3	1 (33.3)	0.8, 90.6	9.23
Sarcoma	3	1 (33.3)	0.8, 90.6	31.44+
Breast	2	PR, CR	NA	2.30+, 17.28
Xanthogranuloma	2	NE, NE <sup>a</sup>	NA	NA
Carcinoma of the skin	2	NE, PR	NA	14.82+
Carcinoid	1	PR	NA	40.94+
Ovarian	1	PR	NA	28.55+
Pulmonary carcinosarcoma	1	NE	NA	NA
Rectal neuroendocrine	1	NE	NA	NA
Small intestine	1	CR	NA	24.54
Neuroendocrine	1	PR	NA	3.54+
Small cell lung cancer	1	SD	NA	NA

+ denotes ongoing response.

<sup>a</sup> One xanthogranuloma patient had disease that could not be evaluated by IRC due to skin being the only site of disease. Based on investigator assessment, this patient had a CR.

CI = confidence interval, CR = complete response, DOR = duration of response, NA = not applicable, NE = not evaluable, ORR = overall response rate, PR = partial response, SD = stable disease.

Data cut-off date 13 January 2023

Due to the rarity of RET 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.

#### Paediatric population

As of 13 January 2023, 10 patients with *RET* fusion-positive thyroid cancer aged 12 to ≤ 21 years have been treated in LIBRETTO-121, an ongoing Phase 1/2 study in paediatric patients with an advanced solid or primary CNS tumour harbouring an activating RET alteration. Of these 10 patients, 8 patients were less than 18 years of age. Of the 10 patients, 4 were previously treated with radioactive iodine only, 2 had received prior systemic therapy that did not include radioactive iodine and 4 were not previously treated with any systemic therapy. For all 10 patients, per IRC, objective response rate was 60.0% (95% CI: 26.2, 87.8). 3 patients had confirmed complete response whilst 3 patients had confirmed partial response.

The European Medicines Agency has waived the obligation to submit the results of studies with seliprecatinib in patients aged 6 months and below in solid tumours (see section 4.2 for information on paediatric use).

The European Medicines Agency has deferred the obligation to submit the results of studies with selpercatinib in one or more subsets of the paediatric population in relapsed/refractory solid tumours, including RET fusion-positive solid tumours, RET-mutant medullary thyroid cancer, and other tumours with RET alteration/activation (see section 4.2 for information on paediatric use).

### Conditional approval

This medicinal product has been authorised under a so-called ‘conditional approval’ scheme. This means that further evidence on this medicinal product is awaited. The European Medicines Agency will review new information on this medicinal product at least every year and this SmPC will be updated as necessary.

## **5.2 Pharmacokinetic properties**

The pharmacokinetics of selpercatinib were evaluated in patients with locally advanced or metastatic solid tumours administered 160 mg twice daily unless otherwise specified. Steady-state selpercatinib AUC and  $C_{\max}$  increased in a linear to supra-dose proportional manner over the dose range of 20 mg once daily to 240 mg twice daily.

Steady-state was reached by approximately 7 days and the median accumulation ratio after administration of 160 mg twice daily was 3.4-fold. Mean steady-state selpercatinib [coefficient of variation (CV%)]  $C_{\max}$  was 2,980 (53%) ng/mL and AUC<sub>0-24h</sub> was 51,600 (58%) ng\*h/mL.

*In vivo* studies indicate that selpercatinib is a mild inhibitor of P-gp.

*In vitro* studies indicate that selpercatinib does not inhibit or induce CYP1A2, CYP2B6, CYP2C9, CYP2C19, or CYP2D6 at clinically relevant concentrations.

*In vitro* studies indicate that selpercatinib inhibits MATE1, and BCRP, but does not inhibit OAT1, OAT3, OCT1, OCT2, OATP1B1, OATP1B3, BSEP, and MATE2-K at clinically relevant concentrations. Selpercatinib may increase serum creatinine by decreasing renal tubular secretion of creatinine via inhibition of MATE1.

### Absorption

After an oral dose of 160 mg, Retsevmo was rapidly absorbed, with  $T_{\max}$  of approximately 2 hours. Geometric mean absolute oral bioavailability was 73.2% (range: 60.2-81.5%).

### Effect of food

Compared to selpercatinib AUC and  $C_{\max}$  in the fasted state, selpercatinib AUC was increased by 9% and  $C_{\max}$  was reduced by 14% after oral administration of a single 160 mg dose to healthy subjects taken with a high-fat meal. These changes were not considered to be clinically relevant. Therefore, selpercatinib can be taken with or without food.

### Distribution

Selpercatinib mean (CV%) volume of distribution ( $V_{ss}/F$ ), estimated by Population PK analysis, is 191 (69%) L following oral administration of selpercatinib in adult patients. Selpercatinib is 96% bound to human plasma proteins *in vitro* and binding is independent of concentration. The blood-to-plasma concentration ratio is 0.7.

### Biotransformation

Selpercatinib is metabolized predominantly by CYP3A4. Following oral administration of a single [<sup>14</sup>C] radiolabeled 160 mg dose of selpercatinib to healthy subjects, unchanged selpercatinib constituted 86% of the measured radioactive components in plasma.

## Elimination

The mean (CV%) clearance (CL/F) of selpercatinib is 6.0 (49%) L/h and the half-life is 22 hours following oral administration of selpercatinib in adult patients. Following oral administration of a single [<sup>14</sup>C] radiolabeled 160 mg dose of selpercatinib to healthy subjects, 69% (14% unchanged) of the administered radioactivity was recovered in faeces and 24% (11.5% unchanged) was recovered in urine.

## Special populations

### *Age, gender and body weight*

Age (range: 15 years to 90 years) or gender had no clinically meaningful effect on the pharmacokinetics of Retsevmo. Patients with a body weight < 50 kg should start Retsevmo treatment with a dose of 120 mg twice daily, while patients ≥ 50 kg should start Retsevmo treatment with a dose of 160 mg twice daily.

### *Hepatic impairment*

Selpercatinib AUC<sub>0-∞</sub> increased by 7% in subjects with mild, 32% in subjects with moderate Child-Pugh classification. Thus, selpercatinib exposure (AUC) in subjects with mild and moderate hepatic impairment (Child-Pugh class A and B) is comparable to exposure in healthy subjects when a dose of 160 mg is administered.

Selpercatinib AUC<sub>0-∞</sub> increased by 77% in subjects with severe hepatic impairment (Child-Pugh class C). There is limited clinical data on the safety of selpercatinib in patients with severe hepatic impairment. Therefore, dose modification is recommended for patients with severe hepatic impairment (section 4.2).

### *Renal impairment*

In a clinical pharmacology study using single dose selpercatinib 160 mg, exposure (AUC) was unchanged in subjects with mild, moderate, or severe renal impairment. End stage renal disease (eGFR <15 ml/min) and dialysis patients have not been studied.

### *Paediatric population*

Based on limited pharmacokinetic data, the C<sub>max</sub> and AUC was similar in adolescent patients, 12-18 years of age, and in adults.

## **5.3 Preclinical safety data**

Repeat-dose studies were conducted in juvenile and adolescent/adult rats and adolescent/adult minipigs to characterize toxicity. Target organs of toxicity common to the rat and minipig were hematopoietic system, lymphoid tissues, tongue, pancreas, gastro-intestinal tract, epiphyseal growth plate, and male reproductive tissues. In general, toxicities in these organs were reversible; the exceptions were the testicular toxicity in adolescent/adult and juvenile animals, and changes in growth plates in juvenile rats. Reversible toxicity was observed in the ovaries in minipigs only. At high doses, gastrointestinal toxicity caused morbidity at exposures in minipigs that were generally lower than exposures determined in humans at the recommended dose. In one minipig study, females exhibited a slight, reversible increase in QTc prolongation of approximately 12% compared to controls and 7 % compared to pre-dose values. Target organs of toxicity observed only in rats were incisor tooth, liver, vagina, lungs, Brunner's gland, and multi-tissue mineralization associated with hyperphosphatemia. These toxicities only occurring in these organs in rats were reversible.

### Juvenile toxicity

Selpercatinib exposure approximately 0.5-2 times the exposure in adult humans caused mortality in rats younger than 21 days old. Comparable exposure was tolerated in rats aged 21 days and older.

Juvenile and adolescent/adult rats and adolescent/adult minipigs with open growth plates administered selpercatinib exhibited microscopic changes of hypertrophy, hyperplasia, and dysplasia of growth

plate cartilage (physis). In juvenile rats, the dysplasia at the growth plates was irreversible and associated with decreased femur length and reductions in bone mineral density. Skeletal changes were observed at exposure levels equivalent to those seen in adult patients taking the recommended dose of 160 mg BID.

Juvenile male rats administered selpercatinib and allowed to reach reproductive age after cessation of administration, exhibited decreased reproductive performance when mated with untreated female rats. Decreased fertility and copulation indices, increased pre- and post-implantation losses, and decreased number of viable embryos, were observed at an exposure approximately 3.4 times the efficacious exposure in adults.

### Genotoxicity

Selpercatinib is not genotoxic at therapeutic doses. In an *in vivo* micronucleus assay in rats, selpercatinib was positive at concentrations >7 times the  $C_{max}$  at the human dose of 160 mg twice daily. In an *in vitro* micronucleus assay in human peripheral blood lymphocytes, an equivocal response was observed at a concentration approximately 485 times the  $C_{max}$  at the human dose.

### Mutagenesis

Selpercatinib did not cause mutations in a bacterial mutagenicity assay.

### Carcinogenesis

Long-term studies to assess the carcinogenic potential of selpercatinib have not been performed.

### Embryotoxicity / Teratogenicity

Based on data from animal reproduction studies and its mechanism of action, selpercatinib can cause foetal harm when administered to a pregnant woman. Administration of selpercatinib to pregnant rats during organogenesis at maternal exposures that were approximately equal to those observed at the recommended human dose of 160 mg twice daily resulted in embryoletality and malformations.

### Reproduction toxicity

Results of studies conducted in rats and minipigs suggest that selpercatinib could impair fertility in males and females.

In a fertility study in male rats, dose-dependent germ cell depletion and spermatid retention were observed at subclinical AUC-based exposure levels (0.2 times the clinical exposure at the recommended human dose). These effects were associated with reduced organ weights, reduced sperm motility, and an increase in the number of abnormal sperm at AUC-based exposure levels approximately twice the clinical exposure at the recommended human dose. Microscopic findings in the fertility study in male rats were consistent with effects in repeat dose studies in rats and minipigs, in which dose-dependent, non-reversible testicular degeneration was associated with reduced luminal sperm in the epididymis at subclinical AUC-based exposure levels (0.1 to 0.4 times the clinical exposure at the recommended human dose).

In a fertility and early embryonic study in female rats, a reduction in the number of estrous cycles as well as embryoletality were observed at AUC-based exposure levels approximately equal to clinical exposure at the recommended human dose. In repeat-dose studies in rats, reversible vaginal mucification with individual cell cornification and altered estrous cycles were noted at clinically relevant AUC-based exposure levels. In minipigs, decreased corpora lutea and/or corpora luteal cysts were observed at subclinical AUC-based clinical exposure levels (0.07 to 0.3 times the clinical exposure at the recommended human dose).

## **6. PHARMACEUTICAL PARTICULARS**

### **6.1 List of excipients**

#### Capsule content

Cellulose, microcrystalline  
Silica, colloidal anhydrous

#### Capsule shell

*Retsevmo 40 mg hard capsules*

Gelatin  
Titanium dioxide (E171)  
Iron Oxide (E172)

*Retsevmo 80 mg hard capsules*

Gelatin  
Titanium dioxide (E171)  
Brilliant Blue FCF (E133)

#### Capsules black ink composition

Shellac  
Ethanol (96 per cent),  
Isopropyl alcohol  
Butanol  
Propylene glycol  
Water, purified  
Ammonia solution, concentrated  
Potassium hydroxide  
Iron oxide black

### **6.2 Incompatibilities**

Not applicable.

### **6.3 Shelf life**

2 years.

### **6.4 Special precautions for storage**

This medicinal product does not require any special storage conditions.

### **6.5 Nature and contents of container**

#### Plastic bottle

Each pack contains 1 HDPE bottle with a plastic screw cap.

*Retsevmo 40 mg hard capsules*

Retsevmo 40 mg hard capsules is supplied as a 60 count HDPE bottle.

*Retsevmo 80 mg hard capsules*

Retsevmo 80 mg hard capsules is supplied as 60 count HDPE bottle or 120 count HDPE bottle.



### Blister pack

#### *Retsevmo 40 mg hard capsules*

Supplied as PCTFE/PVC blisters sealed with an aluminium foil in a blister card, in packs of 14, 42, 56 or 168 hard capsules.

#### *Retsevmo 80 mg hard capsules*

Supplied as PCTFE/PVC blisters sealed with an aluminium foil in a blister card, in packs of 14, 28, 56 or 112 hard capsules.

Not all pack sizes may be marketed.

### **6.6 Special precautions for disposal**

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

## **7. MARKETING AUTHORISATION HOLDER**

Eli Lilly Nederland B.V.  
Papendorpseweg 83  
3528BJ Utrecht  
The Netherlands

## **8. MARKETING AUTHORISATION NUMBER(S)**

EU/1/20/1527/001  
EU/1/20/1527/002  
EU/1/20/1527/003  
EU/1/20/1527/004  
EU/1/20/1527/005  
EU/1/20/1527/006  
EU/1/20/1527/007  
EU/1/20/1527/008  
EU/1/20/1527/009  
EU/1/20/1527/010  
EU/1/20/1527/011

## **9. DATE OF FIRST AUTHORISATION/RENEWAL OF THE AUTHORISATION**

Date of first authorisation: 11 February 2021  
Date of latest renewal: 05 January 2024

## **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 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**
- E. SPECIFIC OBLIGATION TO COMPLETE POST-AUTHORISATION MEASURES FOR THE CONDITIONAL MARKETING AUTHORISATION**

## **A. MANUFACTURER RESPONSIBLE FOR BATCH RELEASE**

### Name and address of the manufacturer responsible for batch release

Lilly, S.A.  
Avda. de la Industria, 30  
28108 Alcobendas, Madrid  
Spain

## **B. CONDITIONS OR RESTRICTIONS REGARDING SUPPLY AND USE**

Medicinal product subject to restricted medical prescription (see Annex I: Summary of Product Characteristics, section 4.2).

## **C. OTHER CONDITIONS AND REQUIREMENTS OF THE MARKETING AUTHORISATION**

- **Periodic safety update reports (PSURs)**

The requirements for submission of PSURs for this medicinal product are set out in Article 9 of Regulation (EC) No 507/2006 and, accordingly, the marketing authorisation holder (MAH) shall submit PSURs every 6 months.

The requirements for submission of PSURs 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 marketing authorisation holder (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.

## **E. SPECIFIC OBLIGATION TO COMPLETE POST-AUTHORISATION MEASURES FOR THE CONDITIONAL MARKETING AUTHORISATION**

This being a conditional marketing authorisation and pursuant to Article 14a(4) of Regulation (EC) No 726/2004, the MAH shall complete, within the stated timeframe, the following measures:

<b>Description</b>	<b>Due date</b>
In order to further confirm the efficacy and safety of selpercatinib in the treatment of patients with RET fusion-positive non-small cell lung cancer, the MAH should submit the clinical study report of the Phase 3 study J2G-MC-JZJC	31 December 2024

Description	Due date
(LIBRETTO-431) comparing selpercatinib to platinum-based and pemetrexed therapy with or without pembrolizumab in patients with locally advanced or metastatic, RET-fusion-positive non-squamous NSCLC. The CSR should be submitted by	
In order to further confirm the efficacy and safety of selpercatinib in the treatment of patients with RET-mutant medullary thyroid carcinoma, the MAH should submit the clinical study report of the Phase 3 study J2G-MC-JZJB (LIBRETTO-531) comparing selpercatinib to physician's choice of cabozantinib or vandetanib in patients with progressive, advanced, kinase inhibitor-naïve, RET-mutant MTC. The CSR should be submitted by	30 September 2025
In order to further confirm the efficacy and safety of selpercatinib in the treatment of patients with RET fusion-positive thyroid cancer, the MAH should submit the final data from the study LIBRETTO-121.	30 June 2025
In order to further confirm the efficacy and safety of selpercatinib in the treatment of patients with systemic treatment naïve RET fusion-positive thyroid cancer, the MAH should submit the final data from the cohort 2 of the pivotal study LIBRETTO-001.	31 December 2025
In order to further confirm the efficacy and safety of selpercatinib in the treatment of patients with RET fusion-positive solid tumours other than NSCLC and thyroid cancer, the MAH should submit the final data from patients with RET-fusion positive solid tumours other than NSCLC and thyroid cancer enrolled in the pivotal study LIBRETTO-001.	31 December 2025

**ANNEX III**  
**LABELLING AND PACKAGE LEAFLET**

## **A. LABELLING**

**PARTICULARS TO APPEAR ON THE OUTER PACKAGING****PLASTIC BOTTLE - CARTONS FOR 40 MG HARD CAPSULES****1. NAME OF THE MEDICINAL PRODUCT**

Retsevmo 40 mg hard capsules  
selpercatinib

**2. STATEMENT OF ACTIVE SUBSTANCE**

Each hard capsule contains 40 mg selpercatinib.

**3. LIST OF EXCIPIENTS****4. PHARMACEUTICAL FORM AND CONTENTS**

60 hard capsules

**5. METHOD AND ROUTE OF ADMINISTRATION**

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

Discard unused contents appropriately.

<b>11. NAME AND ADDRESS OF THE MARKETING AUTHORISATION HOLDER</b>
---

Eli Lilly Nederland B.V., Papendorpseweg 83, 3528BJ Utrecht, The Netherlands.

<b>12. MARKETING AUTHORISATION NUMBER(S)</b>
--

EU/1/20/1527/001

<b>13. BATCH NUMBER</b>
-------------------------

Lot

<b>14. GENERAL CLASSIFICATION FOR SUPPLY</b>
--

<b>15. INSTRUCTIONS ON USE</b>
--------------------------------

<b>16. INFORMATION IN BRAILLE</b>
-----------------------------------

Retsevmo 40 mg

<b>17. UNIQUE IDENTIFIER – 2D BARCODE</b>
---

2D barcode carrying the unique identifier included.

<b>18. UNIQUE IDENTIFIER - HUMAN READABLE DATA</b>
--

PC  
SN  
NN



**PARTICULARS TO APPEAR ON THE IMMEDIATE PACKAGING**

**PLASTIC BOTTLE - LABEL FOR 40 MG HARD CAPSULES**

**1. NAME OF THE MEDICINAL PRODUCT**

Retsevmo 40 mg hard capsules  
selpercatinib

**2. STATEMENT OF ACTIVE SUBSTANCE**

Each hard capsule contains 40 mg selpercatinib.

**3. LIST OF EXCIPIENTS**

**4. PHARMACEUTICAL FORM AND CONTENTS**

60 hard capsules

**5. METHOD AND ROUTE OF ADMINISTRATION**

Oral 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**

If inner seal is broken, do not use.

**8. EXPIRY DATE**

EXP

**9. SPECIAL STORAGE CONDITIONS**

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

Discard unused contents appropriately.

<b>11. NAME AND ADDRESS OF THE MARKETING AUTHORISATION HOLDER</b>
---

Lilly logo

<b>12. MARKETING AUTHORISATION NUMBER(S)</b>
--

EU/1/20/1527/001

<b>13. BATCH NUMBER</b>
-------------------------

Lot

<b>14. GENERAL CLASSIFICATION FOR SUPPLY</b>
--

<b>15. INSTRUCTIONS ON USE</b>
--------------------------------

<b>16. INFORMATION IN BRAILLE</b>
-----------------------------------

<b>17. UNIQUE IDENTIFIER – 2D BARCODE</b>
---

<b>18. UNIQUE IDENTIFIER - HUMAN READABLE DATA</b>
--

**PARTICULARS TO APPEAR ON THE OUTER PACKAGING****BLISTER PACK - CARTONS FOR 40 MG HARD CAPSULES****1. NAME OF THE MEDICINAL PRODUCT**

Retsevmo 40 mg hard capsules  
selpercatinib

**2. STATEMENT OF ACTIVE SUBSTANCE**

Each hard capsule contains 40 mg selpercatinib.

**3. LIST OF EXCIPIENTS****4. PHARMACEUTICAL FORM AND CONTENTS**

14 hard capsules  
42 hard capsules  
56 hard capsules  
168 hard capsules

**5. METHOD AND ROUTE OF ADMINISTRATION**

Oral 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**

<b>10. SPECIAL PRECAUTIONS FOR DISPOSAL OF UNUSED MEDICINAL PRODUCTS OR WASTE MATERIALS DERIVED FROM SUCH MEDICINAL PRODUCTS, IF APPROPRIATE</b>
--

Discard unused contents appropriately.

<b>11. NAME AND ADDRESS OF THE MARKETING AUTHORISATION HOLDER</b>
---

Eli Lilly Nederland B.V., Papendorpseweg 83, 3528BJ Utrecht, The Netherlands.

<b>12. MARKETING AUTHORISATION NUMBER(S)</b>
--

EU/1/20/1527/004 (14 hard capsules)  
EU/1/20/1527/005 (42 hard capsules)  
EU/1/20/1527/006 (56 hard capsules)  
EU/1/20/1527/007 (168 hard capsules)

<b>13. BATCH NUMBER</b>
-------------------------

Lot

<b>14. GENERAL CLASSIFICATION FOR SUPPLY</b>
--

<b>15. INSTRUCTIONS ON USE</b>
--------------------------------

<b>16. INFORMATION IN BRAILLE</b>
-----------------------------------

Retsevmo 40 mg

<b>17. UNIQUE IDENTIFIER – 2D BARCODE</b>
---

2D barcode carrying the unique identifier included.

<b>18. UNIQUE IDENTIFIER - HUMAN READABLE DATA</b>
--

PC  
SN  
NN

<b>MINIMUM PARTICULARS TO APPEAR ON BLISTERS OR STRIPS</b>
--

<b>BLISTER PACK - BLISTER CARD FOR 40 MG HARD CAPSULES</b>
--

<b>1. NAME OF THE MEDICINAL PRODUCT</b>
---

Retsevmo 40 mg hard capsules  
selpercatinib

<b>2. NAME OF THE MARKETING AUTHORISATION HOLDER</b>
--

Lilly

<b>3. EXPIRY DATE</b>
-----------------------

EXP

<b>4. BATCH NUMBER</b>
------------------------

Lot

<b>5. OTHER</b>
-----------------

morning

evening

**MINIMUM PARTICULARS TO APPEAR ON BLISTERS OR STRIPS**

**BLISTER PACK - BLISTER TO BE USED INSIDE THE BLISTER CARDS FOR 40 MG  
HARD CAPSULES**

**1. NAME OF THE MEDICINAL PRODUCT**

Retsevmo 40 mg  
selpercatinib

**2. NAME OF THE MARKETING AUTHORISATION HOLDER**

Lilly

**3. EXPIRY DATE**

EXP

**4. BATCH NUMBER**

Lot

**5. OTHER**

**PARTICULARS TO APPEAR ON THE OUTER PACKAGING**

**PLASTIC BOTTLE - CARTONS FOR 80 MG HARD CAPSULES**

**1. NAME OF THE MEDICINAL PRODUCT**

Retsevmo 80 mg hard capsules  
selpercatinib

**2. STATEMENT OF ACTIVE SUBSTANCE**

Each hard capsule contains 80 mg selpercatinib.

**3. LIST OF EXCIPIENTS**

**4. PHARMACEUTICAL FORM AND CONTENTS**

60 hard capsules  
120 hard capsules

**5. METHOD AND ROUTE OF ADMINISTRATION**

Oral 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**

<b>10. SPECIAL PRECAUTIONS FOR DISPOSAL OF UNUSED MEDICINAL PRODUCTS OR WASTE MATERIALS DERIVED FROM SUCH MEDICINAL PRODUCTS, IF APPROPRIATE</b>
--

Discard unused contents appropriately.

<b>11. NAME AND ADDRESS OF THE MARKETING AUTHORISATION HOLDER</b>
---

Eli Lilly Nederland B.V., Papendorpseweg 83, 3528BJ Utrecht, The Netherlands.

<b>12. MARKETING AUTHORISATION NUMBER(S)</b>
--

EU/1/20/1527/002 (60 hard capsules)  
EU/1/20/1527/003 (120 hard capsules)

<b>13. BATCH NUMBER</b>
-------------------------

Lot

<b>14. GENERAL CLASSIFICATION FOR SUPPLY</b>
--

<b>15. INSTRUCTIONS ON USE</b>
--------------------------------

<b>16. INFORMATION IN BRAILLE</b>
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Retsevmo 80 mg

<b>17. UNIQUE IDENTIFIER – 2D BARCODE</b>
---

2D barcode carrying the unique identifier included.

<b>18. UNIQUE IDENTIFIER - HUMAN READABLE DATA</b>
--

PC  
SN  
NN



**PARTICULARS TO APPEAR ON THE IMMEDIATE PACKAGING**

**PLASTIC BOTTLE - LABEL FOR 80 MG HARD CAPSULES**

**1. NAME OF THE MEDICINAL PRODUCT**

Retsevmo 80 mg hard capsules  
selpercatinib

**2. STATEMENT OF ACTIVE SUBSTANCE**

Each hard capsule contains 80 mg selpercatinib.

**3. LIST OF EXCIPIENTS**

**4. PHARMACEUTICAL FORM AND CONTENTS**

60 hard capsules  
120 hard capsules

**5. METHOD AND ROUTE OF ADMINISTRATION**

Oral 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**

If inner seal is broken, do not use.

**8. EXPIRY DATE**

EXP

**9. SPECIAL STORAGE CONDITIONS**

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

Discard unused contents appropriately.

<b>11. NAME AND ADDRESS OF THE MARKETING AUTHORISATION HOLDER</b>
---

Lilly logo

<b>12. MARKETING AUTHORISATION NUMBER(S)</b>
--

EU/1/20/1527/002 (60 hard capsules)  
EU/1/20/1527/003 (120 hard capsules)

<b>13. BATCH NUMBER</b>
-------------------------

Lot

<b>14. GENERAL CLASSIFICATION FOR SUPPLY</b>
--

<b>15. INSTRUCTIONS ON USE</b>
--------------------------------

<b>16. INFORMATION IN BRAILLE</b>
-----------------------------------

<b>17. UNIQUE IDENTIFIER – 2D BARCODE</b>
---

<b>18. UNIQUE IDENTIFIER - HUMAN READABLE DATA</b>
--

**PARTICULARS TO APPEAR ON THE OUTER PACKAGING****BLISTER PACK - CARTONS FOR 80 MG HARD CAPSULES****1. NAME OF THE MEDICINAL PRODUCT**

Retsevmo 80 mg hard capsules  
selpercatinib

**2. STATEMENT OF ACTIVE SUBSTANCE**

Each hard capsule contains 80 mg selpercatinib.

**3. LIST OF EXCIPIENTS****4. PHARMACEUTICAL FORM AND CONTENTS**

14 hard capsules  
28 hard capsules  
56 hard capsules  
112 hard capsules

**5. METHOD AND ROUTE OF ADMINISTRATION**

Oral 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**

<b>10. SPECIAL PRECAUTIONS FOR DISPOSAL OF UNUSED MEDICINAL PRODUCTS OR WASTE MATERIALS DERIVED FROM SUCH MEDICINAL PRODUCTS, IF APPROPRIATE</b>
--

Discard unused contents appropriately.

<b>11. NAME AND ADDRESS OF THE MARKETING AUTHORISATION HOLDER</b>
---

Eli Lilly Nederland B.V., Papendorpseweg 83, 3528BJ Utrecht, The Netherlands.

<b>12. MARKETING AUTHORISATION NUMBER(S)</b>
--

EU/1/20/1527/008 (14 hard capsules)  
EU/1/20/1527/009 (28 hard capsules)  
EU/1/20/1527/010 (56 hard capsules)  
EU/1/20/1527/011 (112 hard capsules)

<b>13. BATCH NUMBER</b>
-------------------------

Lot

<b>14. GENERAL CLASSIFICATION FOR SUPPLY</b>
--

<b>15. INSTRUCTIONS ON USE</b>
--------------------------------

<b>16. INFORMATION IN BRAILLE</b>
-----------------------------------

Retsevmo 80 mg

<b>17. UNIQUE IDENTIFIER – 2D BARCODE</b>
---

2D barcode carrying the unique identifier included.

<b>18. UNIQUE IDENTIFIER - HUMAN READABLE DATA</b>
--

PC  
SN  
NN

<b>MINIMUM PARTICULARS TO APPEAR ON BLISTERS OR STRIPS</b>
--

<b>BLISTER PACK - BLISTER CARD FOR 80 MG HARD CAPSULES</b>
--

<b>1. NAME OF THE MEDICINAL PRODUCT</b>
---

Retsevmo 80 mg hard capsules  
selpercatinib

<b>2. NAME OF THE MARKETING AUTHORISATION HOLDER</b>
--

Lilly

<b>3. EXPIRY DATE</b>
-----------------------

EXP

<b>4. BATCH NUMBER</b>
------------------------

Lot

<b>5. OTHER</b>
-----------------

morning

evening

**MINIMUM PARTICULARS TO APPEAR ON BLISTERS OR STRIPS**

**BLISTER PACK - BLISTER TO BE USED INSIDE THE BLISTER CARDS FOR 80 MG  
HARD CAPSULES**

**1. NAME OF THE MEDICINAL PRODUCT**

Retsevmo 80 mg  
selpercatinib

**2. NAME OF THE MARKETING AUTHORISATION HOLDER**

Lilly

**3. EXPIRY DATE**

EXP

**4. BATCH NUMBER**

Lot

**5. OTHER**

## **B. PACKAGE LEAFLET**

## Package leaflet: Information for the patient

**Retsevmo 40 mg hard capsules**

**Retsevmo 80 mg hard capsules**

selpercatinib

▼ 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 taking 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.
- This leaflet has been written as though the person taking the medicine is reading it. If you are giving this medicine to your child, please replace “you” with “your child” throughout.

### What is in this leaflet

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

#### 1. What Retsevmo is and what it is used for

Retsevmo is an anticancer medicine containing the active substance selpercatinib.

It is used to treat the following cancers which are caused by certain abnormal changes in the RET gene and which have spread and/or cannot be removed by surgery:

- A type of lung cancer called non-small cell lung cancer, in adults who have not previously been treated with a *RET* inhibitor medicine.
- Thyroid cancer (any type) in adults and adolescents 12 years and older if radioactive iodine treatment, when appropriate, has failed to control your cancer.
- A rare type of thyroid cancer called medullary thyroid cancer in adults and adolescents 12 years and older.
- Solid tumours (cancer) in other parts of the body in adults after prior therapies have failed to control the cancer.

Your doctor will perform a test to check if your cancer has a change in the RET gene to make sure that Retsevmo is right for you.

#### How Retsevmo works

In patients whose cancer has an altered RET gene, the change in the gene causes the body to make an abnormal RET protein, which can lead to uncontrolled cell growth and cancer. Retsevmo blocks the action of the abnormal RET protein and so may slow or stop the growth of the cancer. It may also help to shrink the cancer.

If you have any questions about how Retsevmo works or why this medicine has been prescribed for you, ask your doctor.



## **2. What you need to know before you take Retsevmo**

### **Do not take Retsevmo**

- if you are allergic to selpercatinib or any of the other ingredients of this medicine (listed in section 6).

### **Warnings and precautions**

Talk to your doctor before taking Retsevmo:

- If you have lung or breathing problems other than lung cancer.
- If you have high blood pressure.
- If you have been told that you have an abnormality of your heart tracing after an electrocardiogram (ECG) known as prolonged QT interval.
- If you have problems with your thyroid or levels of thyroid hormone.
- Retsevmo may affect fertility in females and males, which may affect your ability to have children. Talk to your doctor if this is a concern for you.
- If you have a recent history of significant bleeding.

Retsevmo may cause hypersensitivity reactions such as fever, rash and pain. If you experience any of these reactions, talk to your doctor. After checking your symptoms, your doctor may ask you to take corticosteroids until your symptoms are better.

A fast breakdown of cancer cells (tumour lysis syndrome, TLS) can occur when you are taking Retsevmo. This can cause irregular heartbeat, kidney failure or abnormal blood test results. Talk to your doctor if you have a history of kidney problems or low blood pressure, because this may increase the risks associated with TLS.

Retsevmo may cause irregular hip joint growth or damage in paediatric patients (<18 years of age). If you experience pain in the hip or knee or have an unexplained limp, talk to your doctor.

See section 4, “Possible side effects”, and talk to your doctor if you have any symptoms.

### **What your doctor will check before and during your treatment**

- Retsevmo may cause severe, life-threatening, or fatal inflammation of the lungs. Your doctor will monitor you before and during treatment with Retsevmo for symptoms. Tell your doctor right away if you notice any symptoms of lung problems including breathlessness, cough and raised temperature.
- Retsevmo may affect your blood pressure. You will have your blood pressure measured before and during treatment with Retsevmo.
- Retsevmo may affect the way your liver works. Tell your doctor right away if you develop symptoms of liver problems including: jaundice (yellow discoloration of the skin and eyes), loss of appetite, nausea or vomiting, or pain on the upper right side of your stomach area.
- Retsevmo may result in abnormal ECGs. You will have an ECG taken before and during your treatment with Retsevmo. Tell your doctor if you experience fainting as it may be a symptom of abnormal ECG.
- Retsevmo may affect how your thyroid works. Your doctor will monitor your thyroid function before and during treatment with Retsevmo.
- You will have regular blood tests before and during treatment with Retsevmo, to check your liver function and electrolytes (such as sodium, potassium, magnesium and calcium) in your blood.
- If you are under 18 years of age, your doctor may monitor your growth during treatment. If you have hip, knee, or other leg pain let your doctor know.

### **Children and adolescents**

Retsevmo is not intended for use in patients less than 18 years of age in lung cancer.

The thyroid cancer (including medullary thyroid cancer) indications do not cover children younger than 12 years of age.

## **Other medicines and Retsevmo**

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

In particular, tell your doctor or pharmacist before taking Retsevmo if you are taking the following:

- medicines that may increase the concentration of Retsevmo in the blood:
  - o Clarithromycin (used to treat bacterial infections)
  - o Itraconazole, ketoconazole, posaconazole, voriconazole (used to treat fungal infections)
  - o Atazanavir, ritonavir, cobicistat (used to treat HIV infections/AIDS)
- medicines that may reduce the effectiveness of Retsevmo:
  - o Carbamazepine (used to treat epilepsy, nerve pain, bipolar disorder)
  - o Rifampicin (used to treat tuberculosis (TB) and some other infections)
  - o St. John's wort (a herbal product used to treat mild depression and anxiety)
  - o Omeprazole, lansoprazole, or other proton pump inhibitors used to treat heartburn, ulcers, and acid reflux. If you are taking any of these medicines, then take Retsevmo with a full meal
  - o Ranitidine, famotidine or other H2 blockers used to treat ulcers and acid reflux. If you are taking any of these medicines, then you need to take them 2 hours after taking Retsevmo
- medicines whose concentration in the blood might be increased by Retsevmo:
  - o Repaglinide (used to treat type 2 diabetes and control blood sugar)
  - o Dasabuvir (used to treat hepatitis C)
  - o Selexipag (used to treat pulmonary arterial hypertension)
  - o Digoxin (used to treat heart disorders)
  - o Lovastatin and simvastatin (used to treat high cholesterol)
  - o Dabigatran (used to prevent and treat blood clots)
- medicines that may be less effective when taken with Retsevmo:
  - o Levothyroxine (used to treat hypothyroidism)

## **Pregnancy, breast-feeding and fertility**

### Pregnancy

If you are pregnant, think you may be pregnant or are planning to have a baby, ask your doctor before taking this medicine.

You should not use Retsevmo during pregnancy, since the effect of Retsevmo on the unborn is not known.

### Breast-feeding

Do not breast-feed during treatment with Retsevmo as Retsevmo could harm a breast-fed baby. It is not known if Retsevmo passes into breast milk. You should not breast-feed for at least one week after your last dose of Retsevmo.

### Contraception

It is recommended that women avoid becoming pregnant and that men do not father children during treatment with Retsevmo, because this medicine could harm the baby. If there is any possibility that the person taking this medicine may become pregnant or father a child, they must use adequate contraception during treatment and for at least one week after the last dose of Retsevmo.

### Fertility

Retsevmo can affect your ability to have children. Talk to your doctor to seek advice about fertility preservation prior to treatment.

## **Driving and using machines**

You should take special care when driving and using machines as you may feel tired or dizzy while taking Retsevmo.

### 3. How to take Retsevmo

Always take this medicine exactly as your doctor or pharmacist has told you, at the dose prescribed for you. Check with your doctor or pharmacist if you are not sure.

#### How much to take

Your doctor will prescribe the right dose for you. The maximum recommended dose is as follows:

- Less than 50 kg body weight: 120 mg twice daily.
- 50 kg body weight or greater: 160 mg twice daily.

Retsevmo is taken twice a day at about the same time every day, preferably in the morning and evening.

If you get certain side effects while you are taking Retsevmo your doctor may lower your dose or stop treatment temporarily or permanently.

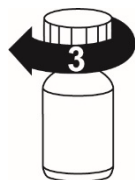
You can take the capsules either with or without food. Swallow the capsule whole with a glass of water. Do not chew, crush or split the capsule before swallowing.

Retsevmo is available in blister packs and in bottles. The bottle is protected by a plastic screw cap:

To open the bottle, push down the plastic screw cap while turning it anticlockwise as shown in the picture.



To close the bottle, turn the cap clockwise tightly.



#### If you take more Retsevmo than you should

If you take too many capsules, or if someone else takes your medicine, contact a doctor or hospital for advice. Medical treatment may be necessary.

#### If you forget to take Retsevmo

If you vomit after taking the dose or forget a dose, take your next dose at your usual time. Do not take a double dose to make up for the forgotten or vomited dose.

#### If you stop taking Retsevmo

Do not stop taking Retsevmo unless your doctor tells you to.

If you have any further questions on the use of this medicine, ask your doctor or pharmacist.

### 4. Possible side effects

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

Contact your doctor immediately for any of the following:

- Lung or breathing problems other than lung cancer with symptoms such as breathlessness, cough and raised temperature (which may affect more than 1 in 10 people)
- Liver problems (which may affect more than 1 in 10 people and can be associated with abnormalities in liver blood tests, such as increased liver enzymes) including: yellow discoloration of the skin and eyes (jaundice), darkening of the urine, loss of appetite, nausea or vomiting, or pain on the upper right side of your stomach area
- Allergic reaction typically shown by fever and muscle and joint pain followed by rash (which may affect up to 1 in 10 people)
- High blood pressure (which may affect more than 1 in 10 people)
- Bleeding with symptoms such as coughing up blood

Tell your doctor, pharmacist or nurse if you notice any of the following side effects:

**Very common (may affect more than 1 in 10 people)**

- Reduced number of white blood cells (e.g., lymphocytes, neutrophils, etc.)
- Fluid retention that may cause swelling in your hands or ankles (oedema)
- Increased blood levels of creatinine in tests, which may indicate that kidneys are not working properly (renal disorders)
- Diarrhoea
- Fatigue or tiredness
- Dry mouth
- Reduced number of blood platelets, which may cause bleeding and/ bruising
- Rash
- Pain in the belly
- Low blood levels of magnesium
- Constipation
- Nausea (feeling sick)
- Low levels of haemoglobin, which may cause anaemia
- Headache
- Vomiting
- Decreased appetite
- Dizziness
- Abnormal ECG
- Fever or high temperature
- Reduced thyroid activity
- Bleeding symptoms

**Common (may affect more than 1 in 100 people)**

- Lymph fluid may build up in the lining of your lungs or your stomach cavity, which may cause breathing problems or enlargement of the stomach
- Irregular hip joint growth or damage causing pain or limp in patients < 18 years of age

**Reporting of side effects**

If you get any side effects, talk to your doctor or pharmacist. 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 Retsevmo**

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 bottle label or blister card and carton after “EXP”. The expiry date refers to the last day of that month.

This medicine does not require any special storage conditions.

Do not use this medicine if you notice that the inner seal is broken or shows signs of tampering.

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 Retsevmo contains**

The active substance is selpercatinib. Each hard capsule contains 40 or 80 mg selpercatinib.

The other ingredients are:

- Capsule content: colloidal anhydrous silica, microcrystalline cellulose
- Capsule shell 40 mg: gelatin, titanium dioxide (E171), and iron oxide (E172).
- Capsule shell 80 mg: gelatin, titanium dioxide (E171), and brilliant blue FCF (E133).
- Black ink: Shellac, Ethanol (96 per cent), Isopropyl alcohol, Butanol, Propylene glycol, Water, purified, Ammonia solution (concentrated), Potassium hydroxide, Iron oxide black

### **What Retsevmo looks like and contents of the pack**

Retsevmo 40 mg is supplied as grey opaque hard gelatin capsule, with black “Lilly”, “3977” and “40 mg” script.

Retsevmo 80 mg is supplied as blue opaque hard gelatin capsule, with black “Lilly”, “2980” and “80 mg” script.

Retsevmo is available in a white opaque bottle with a plastic screw cap, containing 60 hard capsules of 40 mg and either 60 or 120 hard capsules of 80 mg. Each carton contains one bottle.

Retsevmo is available in blister packs of 14, 42, 56 or 168 hard capsules of 40 mg and 14, 28, 56 or 112 hard capsules of 80 mg.

Not all the pack sizes may be marketed.

### **Marketing Authorisation Holder**

Eli Lilly Nederland B.V., Papendorpseweg 83, 3528BJ Utrecht, The Netherlands.

### **Manufacturer**

Lilly S.A., Avda. de la Industria 30, 28108 Alcobendas, Madrid, Spain

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**This leaflet was last revised in.**

This medicine has been given ‘conditional approval’. This means that there is more evidence to come about this medicine.

The European Medicines Agency will review new information on this medicine at least every year and this leaflet will be updated as necessary.

**Other sources of information**

Detailed information on this medicine is available on the European Medicines Agency web site:

<http://www.ema.europa.eu>.