

**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

Pemazyre 4.5 mg tablets  
Pemazyre 9 mg tablets  
Pemazyre 13.5 mg tablets

## 2. QUALITATIVE AND QUANTITATIVE COMPOSITION

### Pemazyre 4.5 mg tablets

Each tablet contains 4.5 mg of pemigatinib.

### Pemazyre 9 mg tablets

Each tablet contains 9 mg of pemigatinib.

### Pemazyre 13.5 mg tablets

Each tablet contains 13.5 mg of pemigatinib.

For the full list of excipients, see section 6.1.

## 3. PHARMACEUTICAL FORM

Tablet.

### Pemazyre 4.5 mg tablets

Round (5.8 mm), white to off-white tablet debossed on one side with "I" and "4.5" on the reverse.

### Pemazyre 9 mg tablets

Oval (10 × 5 mm), white to off-white tablet debossed on one side with "I" and "9" on the reverse.

### Pemazyre 13.5 mg tablets

Round (8.5 mm), white to off-white tablet debossed on one side with "I" and "13.5" on the reverse.

## 4. CLINICAL PARTICULARS

### 4.1 Therapeutic indications

Pemazyre monotherapy is indicated for the treatment of adults with locally advanced or metastatic cholangiocarcinoma with a fibroblast growth factor receptor 2 (FGFR2) fusion or rearrangement that have progressed after at least one prior line of systemic therapy.

### 4.2 Posology and method of administration

Therapy should be initiated by a physician experienced in the diagnosis and treatment of patients with biliary tract cancer.

FGFR 2 fusion positivity status must be known prior to initiation of Pemazyre therapy. Assessment for FGFR 2 fusion positivity in tumor specimen should be performed with an appropriate diagnostic test.

### Posology

The recommended dose is 13.5 mg pemigatinib taken once daily for 14 days followed by 7 days off therapy.

If a dose of pemigatinib is missed by 4 or more hours or vomiting occurs after taking a dose, an additional dose should not be administered and dosing should be resumed with the next scheduled dose.

Treatment should be continued as long as the patient does not show evidence of disease progression or unacceptable toxicity.

In all patients, a low-phosphate diet should be initiated when serum phosphate level is > 5.5 mg/dL and adding a phosphate-lowering therapy should be considered when level is > 7 mg/dL. The dose of phosphate-lowering therapy should be adjusted until serum phosphate level returns to < 7 mg/dL. Prolonged hyperphosphatemia can cause precipitation of calcium-phosphate crystals that can lead to hypocalcemia, soft tissue mineralization, muscle cramps, seizure activity, QT interval prolongation, and arrhythmias (see section 4.4).

Discontinuing phosphate-lowering therapy and diet should be considered during Pemazyre treatment breaks or if serum phosphate level falls below normal range. Severe hypophosphatemia may present with confusion, seizures, focal neurologic findings, heart failure, respiratory failure, muscle weakness, rhabdomyolysis, and hemolytic anemia (see section 4.4).

### Dose adjustment due to drug interaction

#### *Concomitant use of pemigatinib with strong CYP3A4 inhibitors*

If co-administration with a strong CYP3A4 inhibitor is necessary, the dose of patients who are taking 13.5 mg pemigatinib once daily should be reduced to 9 mg once daily and the dose of patients who are taking 9 mg pemigatinib once daily should be reduced to 4.5 mg once daily (see sections 4.4 and 4.5).

### Management of toxicities

Dose modifications or interruption of dosing should be considered for the management of toxicities.

Pemigatinib dose reductions levels are summarised in table 1.

**Table 1: Recommended pemigatinib dose reduction levels**

Dose	Dose reduction levels	
	First	Second
13.5 mg taken orally once daily for 14 days followed by 7 days off therapy	9 mg taken orally once daily for 14 days on, followed by 7 days off therapy	4.5 mg taken orally once daily for 14 days on, followed by 7 days off therapy

Treatment should be permanently discontinued if patient is unable to tolerate 4.5 mg pemigatinib once daily.

Dose modifications for hyperphosphatemia are provided in table 2.

**Table 2: Dose modifications for hyperphosphatemia**

Adverse reaction	pemigatinib dose modification
>5.5 mg/dL - ≤ 7 mg/dL	• pemigatinib should be continued at current dose.

>7 mg/dL - ≤ 10 mg/dL	<ul style="list-style-type: none"> <li>• pemigatinib should be continued at current dose, phosphate-lowering therapy should be initiated, serum phosphate should be monitored weekly, dose of phosphate lowering therapy should be adjusted as needed until level returns to &lt;7 mg/dL.</li> <li>• pemigatinib should be withheld if levels do not return to &lt;7 mg/dL within 2 weeks of starting a phosphate lowering therapy. pemigatinib and phosphate-lowering therapy should be restarted at the same dose when level returns to &lt;7 mg/dL.</li> <li>• Upon recurrence of serum phosphate at &gt; 7 mg/dL with phosphate-lowering therapy, pemigatinib should be reduced 1 dose level.</li> </ul>
>10 mg/dL	<ul style="list-style-type: none"> <li>• pemigatinib should be continued at current dose, phosphate-lowering therapy should be initiated, serum phosphate should be monitored weekly and dose of phosphate lowering therapy should be adjusted as needed until level returns to &lt;7 mg/dL.</li> <li>• pemigatinib should be withheld if levels continue &gt;10 mg/dL for 1 week. pemigatinib and phosphate-lowering therapy should be restarted 1 dose level lower when serum phosphate is &lt;7 mg/dL.</li> <li>• If there is recurrence of serum phosphate &gt;10 mg/dL following 2 dose reductions, pemigatinib should be permanently discontinued.</li> </ul>

Dose modifications for serous retinal detachment are provided in table 3.

**Table 3: Dose modifications for serous retinal detachment**

<b>Adverse reaction</b>	<b>pemigatinib dose modification</b>
Asymptomatic	<ul style="list-style-type: none"> <li>• pemigatinib should be continued at current dose. Monitoring should be performed as described in section 4.4.</li> </ul>
Moderate decrease in visual acuity (best corrected visual acuity 20/40 or better or ≤ 3 lines of decreased vision from baseline); limiting instrumental activities of daily living	<ul style="list-style-type: none"> <li>• pemigatinib should be withheld until resolution. If improved on subsequent examination, pemigatinib should be resumed at the next lower dose level.</li> <li>• If it recurs, symptoms persist or examination does not improve, permanent discontinuation of pemigatinib should be considered based on clinical status.</li> </ul>
Marked decrease in visual acuity (best corrected visual acuity worse than 20/40 or >3 lines decreased vision from baseline up to 20/200); limiting activities of daily living	<ul style="list-style-type: none"> <li>• pemigatinib should be withheld until resolution. If improved on subsequent examination, pemigatinib may be resumed at 2 dose levels lower.</li> <li>• If it recurs, symptoms persist or examination does not improve, permanent discontinuation of pemigatinib should be considered, based on clinical status.</li> </ul>
Visual acuity worse than 20/200 in affected eye; limiting activities of daily living	<ul style="list-style-type: none"> <li>• pemigatinib should be withheld until resolution. If improved on subsequent examination, pemigatinib may be resumed at 2 dose levels lower.</li> <li>• If it recurs, symptoms persist or examination does not improve, permanent discontinuation of pemigatinib should be considered, based on clinical status.</li> </ul>

### Special populations

#### Elderly patients

The dose of pemigatinib is the same in elderly patients as younger adult patients (see section 5.1).

#### Renal impairment

Dose adjustment is not required for patients with mild, moderate renal impairment or End Stage Renal Disease (ESRD) on haemodialysis. For patients with severe renal impairment, the dose of patients who are taking 13.5 mg pemigatinib once daily should be reduced to 9 mg once daily and the dose of patients who are taking 9 mg pemigatinib once daily should be reduced to 4.5 mg once daily (see section 5.2).

#### Hepatic impairment

Dose adjustment is not required for patients with mild or moderate hepatic impairment. For patients with severe hepatic impairment, the dose of patients who are taking 13.5 mg pemigatinib once daily should be reduced to 9 mg once daily and the dose of patients who are taking 9 mg pemigatinib once daily should be reduced to 4.5 mg once daily (see section 5.2).

#### Paediatric population

The safety and efficacy of Pemazyre in patients less than 18 years of age have not been established. No data are available.

#### Method of administration

Pemazyre is for oral use. The tablets should be taken at approximately the same time every day. Patients should not crush, chew, split or dissolve the tablets. Pemigatinib may be taken with or without food.

### **4.3 Contraindications**

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

Concomitant use with St John's wort (see section 4.5).

### **4.4 Special warnings and precautions for use**

#### Hyperphosphatemia

Hyperphosphatemia is a pharmacodynamic effect expected with pemigatinib administration (see section 5.1). Prolonged hyperphosphatemia can cause precipitation of calcium-phosphate crystals that can lead to hypocalcemia, soft tissue mineralization, anemia, secondary hyperparathyroidism, muscle cramps, seizure activity, QT interval prolongation, and arrhythmias (see section 4.2). Soft tissue mineralization, including cutaneous calcification and calcinosis, have been observed with pemigatinib treatment.

Recommendations for management of hyperphosphatemia include dietary phosphate restriction, administration of phosphate-lowering therapy, and dose modification when required (see section 4.2). Phosphate-lowering therapy was used by 28.5 % of patients during treatment with pemigatinib (see section 4.8).

#### Hypophosphatemia

Discontinuing phosphate-lowering therapy and diet should be considered during pemigatinib treatment breaks or if serum phosphate level falls below normal range. Severe hypophosphatemia may present with confusion, seizures, focal neurologic findings, heart failure, respiratory failure, muscle weakness, rhabdomyolysis, and hemolytic anemia (see section 4.2). Hypophosphatemia reactions were  $\geq$  Grade 3 in 12.3% of participants. None of the events were serious, led to discontinuation or to dose reduction. Dose interruption occurred in 1.4 % of participants.

For patients presenting with hyperphosphatemia or hypophosphatemia, additional close monitoring and follow-up is recommended regarding dysregulation of bone mineralization.

#### Serous retinal detachment

Pemigatinib can cause serous retinal detachment reactions, which may present with symptoms such as blurred vision, visual floaters, or photopsia (see section 4.8). This can moderately influence the ability to drive and use machines (see section 4.7).

Ophthalmological examination, including optical coherence tomography (OCT) should be performed prior to initiation of therapy and every 2 months for the first 6 months of treatment, every 3 months afterwards, and urgently at any time for visual symptoms. For serous retinal detachment reactions, the dose modification guidelines should be followed (see section 4.2).

During the conduct of the clinical study, there was no routine monitoring, including OCT, to detect asymptomatic serous retinal detachment; therefore, the incidence of asymptomatic serous retinal detachment with pemigatinib is unknown.

Careful consideration should be taken with patients that have clinically significant medical eye disorders, such as retinal disorders, including but not limited to, central serous retinopathy, macular/retinal degeneration, diabetic retinopathy, and previous retinal detachment.

#### Dry eye

Pemigatinib can cause dry eye (see section 4.8). Patients should use ocular demulcents, in order to prevent or treat dry eye, as needed.

#### Embryo-foetal toxicity

Based on the mechanism of action and findings in an animal reproduction study (see section 5.3), pemigatinib can cause foetal harm when administered to a pregnant woman. Pregnant women should be advised of the potential risk to the foetus. Women of childbearing potential should be advised to use effective contraception during treatment with pemigatinib and for 1 week after the last dose. Male patients with female partners of childbearing potential should be advised to use effective contraception during treatment with pemigatinib and for at least 1 week after the last dose (see section 4.6).

#### Blood creatinine increase

Pemigatinib may increase serum creatinine by decreasing renal tubular secretion of creatinine; this may occur due to inhibition of renal transporters OCT2 and MATE1 and may not affect glomerular function. Within the first cycle, serum creatinine increased (mean increase of 0.2 mg/dL) and reached steady state by Day 8, and then decreased during the 7 days off therapy (see section 4.8). Alternative markers of renal function should be considered if persistent elevations in serum creatinine are observed.

#### Combination with proton pump inhibitors

Concomitant use of pemigatinib with proton pump inhibitors should be avoided (see section 4.5).

#### Combination with strong CYP3A4 inhibitors

Concomitant use of pemigatinib with strong CYP3A4 inhibitors requires dose adjustment (see sections 4.2 and 4.5).

#### Combination with strong or moderate CYP3A4 inducers

Concomitant use of pemigatinib with strong or moderate CYP3A4 inducers is not recommended (see section 4.5).

#### CNS metastasis

Since untreated or progressing brain/CNS metastasis were not allowed in the study, efficacy in this population has not been evaluated and no dose recommendations can be made, however the blood-brain barrier penetration of pemigatinib is expected to be low (see section 5.3).

#### Contraception

Based on findings in an animal study and its mechanism of action, Pemazyre can cause fetal harm when administered to a pregnant woman. Women of childbearing age being treated with Pemazyre should be advised not to become pregnant and men being treated with Pemazyre should be advised not to father a child during treatment. An effective method of contraception should be used in women of

childbearing potential and in men with women partners of childbearing potential during treatment with Pemazyre and for 1 week following completion of therapy (see section 4.6).

#### Pregnancy test

A pregnancy test should be performed before treatment initiation to exclude pregnancy.

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

#### Effects of other medicinal products on pemigatinib

##### Strong CYP3A4 inhibitors

A strong CYP3A4 inhibitor (itraconazole 200 mg once daily) increased pemigatinib AUC geometric mean by 88 % (90 % CI of 75 %, 103 %), which may increase the incidence and severity of adverse reactions with pemigatinib. Patients who are taking 13.5 mg pemigatinib once daily should have their dose reduced to 9 mg once daily and patients who are taking 9 mg pemigatinib once daily should have their dose reduced to 4.5 mg once daily (see section 4.2).

##### CYP3A4 inducers

A strong CYP3A4 inducer (rifampin 600 mg once daily) decreased pemigatinib AUC geometric mean by 85 % (90 % CI of 84 %, 86 %), which may decrease the efficacy of pemigatinib. Concurrent use of strong CYP3A4 inducers (e.g. carbamazepine, phenytoin, phenobarbital, rifampicin) should be avoided during treatment with pemigatinib (see section 4.4). Concomitant use of pemigatinib with St John's wort is contra-indicated (see section 4.3). If needed, other enzyme inducers (e.g. efavirenz) should be used under close surveillance.

##### Proton pump inhibitors

Pemigatinib geometric mean ratios (90 % CI) for  $C_{max}$  and AUC were 65.3 % (54.7, 78.0) and 92.1 % (88.6, 95.8), respectively, when co-administered in healthy subjects with esomeprazole (a proton pump inhibitor) relative to pemigatinib alone. Co-administration of a proton pump inhibitor (esomeprazole) did not result in a clinically important change in pemigatinib exposure. However, in more than one third of patients given PPIs, a significant reduction of the exposure of pemigatinib was observed. PPIs should be avoided in patients receiving pemigatinib (see section 4.4).

##### H<sub>2</sub>-receptors antagonists

Co-administration of ranitidine did not result in a clinically important change in pemigatinib exposure.

#### Effects of pemigatinib on other medicinal products

##### Effect of pemigatinib on CYP2B6 substrates

*In vitro* studies indicate that pemigatinib induces CYP2B6. Co-administration of pemigatinib with CYP2B6 substrates (e.g. cyclophosphamide, ifosfamide, methadone, efavirenz) may decrease their exposure. Close clinical surveillance is recommended when pemigatinib is administered with these medicinal products or any P-gp substrate having a narrow therapeutic index.

##### Effect of pemigatinib on P-gp substrates

*In vitro*, pemigatinib is an inhibitor of P-gp. Co-administration of pemigatinib with P-gp substrates (e.g. digoxin, dabigatran, colchicine) may increase their exposure and thus their toxicity. Pemigatinib administration should be separated by at least 6 hours before or after administration of P-gp substrates with a narrow therapeutic index.

### **4.6 Fertility, pregnancy and lactation**

#### Contraception in men and women/women of childbearing potential

Based on findings in an animal study and its mechanism of action, pemigatinib can cause foetal harm when administered to a pregnant woman. Women of childbearing potential being treated with pemigatinib should be advised not to become pregnant and men being treated with pemigatinib should

be advised not to father a child during treatment. An effective method of contraception should be used in women of childbearing potential and in men with women partners of childbearing potential during treatment with pemigatinib and for 1 week following completion of therapy. Since the effect of pemigatinib on the metabolism and efficacy of contraceptives has not been investigated, barrier methods should be applied as a second form of contraception, to avoid pregnancy.

#### Pregnancy

There are no available data from the use of pemigatinib in pregnant women. Studies in animal have shown reproductive toxicity (see section 5.3). Based on animal data and pharmacology of pemigatinib, Pemazyre should not be used during pregnancy unless the clinical condition of the women requires treatment with pemigatinib. A pregnancy test should be performed before treatment initiation to exclude pregnancy.

#### Breast-feeding

It is unknown whether pemigatinib or its metabolites are excreted in human milk. A risk to the breast-fed child cannot be excluded. Breast-feeding should be discontinued during treatment with Pemazyre and for 1 week following completion of therapy.

#### Fertility

There are no data on the impact of pemigatinib on human fertility. Animal fertility studies have not been conducted with pemigatinib (see section 5.3). Based on the pharmacology of pemigatinib, impairment of male and female fertility cannot be excluded.

### **4.7 Effects on ability to drive and use machines**

Pemigatinib has moderate influence on the ability to drive and use machines. Adverse reactions such as fatigue and visual disturbances have been associated with pemigatinib. Therefore, caution should be recommended when driving or operating machines (see section 4.4).

### **4.8 Undesirable effects**

#### Summary of the safety profile

The most common adverse reactions were hyperphosphatemia (60.5 %), alopecia (49.7 %), diarrhoea (46.9%), nail toxicity (44.9 %), fatigue (43.5 %), nausea (41.5 %), dysgeusia (40.8 %), stomatitis (37.4 %), constipation (36.7 %), dry mouth (34.0 %), dry eye (27.9 %), arthralgia (25.9 %), hypophosphatemia (23.1 %), dry skin (21.8 %), and palmar-plantar erythrodysesthesia syndrome (16.3 %).

The most common serious adverse reactions were hyponatremia (2.0 %) and blood creatinine increase (1.4 %). No serious adverse reaction led to pemigatinib dose reduction. One serious adverse reaction of hyponatremia (0.7 %) led to dose interruption. One serious adverse reaction of blood creatinine increase (0.7 %) led to dose discontinuation.

Eye disorders serious adverse reactions were retinal detachment (0.7 %), non-arteritic optic ischemic neuropathy (0.7 %) and retinal artery occlusion (0.7 %).

#### Tabulated list of adverse reactions

Adverse reactions are presented in table 4. Frequency categories are very common ( $\geq 1/10$ ) and common ( $\geq 1/100$  to  $< 1/10$ ). Within each frequency grouping, undesirable effects are presented in order of decreasing seriousness.



**Table 4: Adverse reactions observed in FIGHT-202 study – frequency reported by incidence of treatment emergent events**

System organ class	Frequency	Adverse reactions
Metabolism and nutrition disorders	Very common	Hyponatraemia, Hyperphosphatemia <sup>a</sup> , Hypophosphatemia <sup>b</sup>
Nervous system disorders	Very common	Dysgeusia
Eye disorders	Very common	Dry eye
	Common	Serous retinal detachment <sup>c</sup> , Punctate keratitis, Vision blurred, Trichiasis
Gastrointestinal disorders	Very common	Nausea, Stomatitis, Diarrhoea, Constipation, Dry mouth
Skin and subcutaneous tissue disorders	Very common	Palmar-plantar erythrodysesthesia syndrome, Nail toxicity <sup>d</sup> , Alopecia, Dry skin
	Common	Hair growth abnormal
Musculoskeletal and connective tissue disorders	Very common	Arthralgia
General disorders and administration site conditions	Very common	Fatigue
Investigations	Very common	Blood creatinine increased

<sup>a</sup> Includes Hyperphosphatemia and Blood phosphorous increased

<sup>b</sup> Includes Hypophosphatemia and Blood phosphorous decreased

<sup>c</sup> Includes Serous retinal detachment, Retinal detachment, Detachment of retinal pigmented epithelium, Retinal thickening, Subretinal fluid, Chorioretinal folds, Chorioretinal scar, and Maculopathy. See below “*Serous retinal detachment*”.

<sup>d</sup> Includes Nail toxicity, Nail disorder, Nail discolouration, Nail dystrophy, Nail hypertrophy, Nail ridging, Nail infection, Onychalgia, Onychoclasia, Onycholysis, Onychomadesis, Onychomycosis and Paronychia

#### Description of selected adverse reactions

##### Hyperphosphatemia

Hyperphosphatemia was reported in 60.5 % of all patients treated with pemigatinib.

Hyperphosphatemia above 7 mg/dL and 10 mg/dL was experienced by 27 % and 0 % of patients, respectively. Hyperphosphatemia usually develops within the first 15 days.

None of the reactions were  $\geq$  Grade 3 in severity, serious or led to discontinuation of pemigatinib.

Dose interruption occurred in 1.4 % patients and reduction in 0.7 % of patients. These results suggest that dietary phosphate restriction and/or administration of phosphate-lowering therapy along with the 1-week dose holiday were effective strategies for managing this on-target effect of pemigatinib.

Recommendations for management of hyperphosphatemia are provided in sections 4.2 and 4.4.

##### Serous retinal detachment

Serous retinal detachment occurred in 4.8 % of all patients treated with pemigatinib. Reactions were generally Grade 1 or 2 (3.4 %) in severity;  $\geq$  Grade 3 and serious reactions included retinal detachment in 1 patient (0.7 %). Two adverse reactions of retinal detachment (0.7 %) and detachment of retinal pigment epithelium (0.7 %) led to dose interruption. None of the reactions led to dose reduction or discontinuation.

Recommendations for management of serous retinal detachment are provided in sections 4.2 and 4.4.

#### 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

There is no information on overdose of pemigatinib.

## 5. PHARMACOLOGICAL PROPERTIES

### 5.1 Pharmacodynamic properties

Pharmacotherapeutic group: antineoplastic agents, protein kinase inhibitors, ATC code: L01EX20

Pemigatinib is a kinase inhibitor of FGFR1, 2 and 3 which inhibits FGFR phosphorylation and signalling and decreases cell viability in cells expressing FGFR genetic alterations, including point mutations, amplifications, and fusions or rearrangements. FGFR2 fusions/rearrangements are strong oncogenic drivers and are the most common FGFR alteration occurring, almost exclusively, in 10-16 % of intrahepatic cholangiocarcinoma (CCA).

#### Pharmacodynamic effects

##### Serum phosphate

Pemigatinib increased serum phosphate level as a consequence of FGFR inhibition. In pemigatinib clinical studies, phosphate-lowering therapy and dose modifications were permitted to manage hyperphosphatemia (see sections 4.2, 4.4 and 4.8).

##### Clinical studies

FIGHT-202 was a multicentre, open-label, single-arm study to evaluate the efficacy and safety of Pemazyre in previously treated patients with locally advanced/metastatic or surgically unresectable cholangiocarcinoma. The efficacy population consists of 108 patients (105 patients with intrahepatic disease) that had progressed after at least 1 prior therapy and who had FGFR2 fusion or rearrangement, as determined by the test performed at a central laboratory.

Patients received Pemazyre in 21-days cycles consisting of 13.5 mg once daily oral dosing for 14 days, followed by 7 days off therapy. Pemazyre was administered until disease progression or unacceptable toxicity. The major efficacy outcome measures were objective response rate (ORR) and duration of response (DoR), as determined by independent review committee (IRC) according to RECIST v1.1.

The median age was 56 years (range: 26 to 77 years), 31.5 % were  $\geq 65$  years, 60.7 % were female, and 73.8 % were Caucasian. Most (95.4 %) patients had a baseline Eastern Cooperative Oncology Group (ECOG) performance status of 0 (42.1 %) or 1 (53.3 %). All patients had at least 1 prior line of systemic therapy, 27.1 % had 2 prior lines of therapy, and 12.1 % had 3 or more prior lines of therapy. Ninety-six percent of patients had received prior platinum-based therapy including 76 % with prior gemcitabine/cisplatin.

Efficacy results are summarised in table 5.

The median time to response was 2.7 months (range 0.7 – 6.9 months).

**Table 5: Efficacy results**

	<b>Cohort A (FGFR2 fusion or rearrangement) Efficacy Evaluable Population (N = 108)</b>
ORR (95 % CI)	37.0 % (27.94, 46.86)
Complete response (N)	3.7 % (4)
Partial response (N)	33.3 % (36)
Median duration of response (months) (95 % CI) <sup>a</sup>	8.08 (5.65, 13.14)
Kaplan-Meier estimates of duration of response (95 % CI)	
3 months	100.0 (100.0, 100.0)
6 months	66.0 (48.0, 79.1)
9 months	47.6 (30.2, 63.1)
12 months	37.5 (21.3, 53.7)

ORR- CR+PR

CI= Confidence Interval

Note: Data are from IRC per RECIST v1.1, and complete and partial responses are confirmed.

<sup>a</sup> The 95 % CI was calculated using the Brookmeyer and Crowley's method

### Elderly patients

In the clinical study of pemigatinib, 31.5 % of patients were 65 years and older, and 7.5 % of patients were 75 years and older. No difference in efficacy response was detected between these patients and in patients < 65 years of age.

### Paediatric population

The European Medicines Agency has waived the obligation to submit the results of studies with Pemazyre in all subsets of the paediatric population in the treatment of cholangiocarcinoma. See section 4.2 for information in pediatric use.

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**

Pemigatinib exhibits linear pharmacokinetics in the dose range of 1 to 20 mg. Following oral administration of Pemazyre 13.5 mg once daily, steady-state was reached by 4 days with a geometric mean accumulation ratio of 1.6. The geometric mean steady-state AUC<sub>0-24h</sub> was 2620 nM·h (54 % CV) and C<sub>max</sub> was 236 nM (56 % CV) for 13.5 mg once daily.

### Absorption

Median time to achieve peak plasma concentration (t<sub>max</sub>) was 1 to 2 hours.

No clinically meaningful differences with pemigatinib pharmacokinetics were observed following administration of a high-fat and high-calorie meal (800 calories to 1,000 calories with approximately 50 % of total caloric content of the meal from fat) in patients with cancer.

### Distribution

Pemigatinib is 90.6 % bound to human plasma proteins, predominantly to albumin. The estimated apparent volume of distribution was 235 L (60.8 %) in patients with cancer.

### Biotransformation

Pemigatinib is predominantly metabolised by CYP3A4 *in vitro*. Following oral administration of a single 13.5 mg radiolabeled pemigatinib dose, unchanged pemigatinib was the major drug-related moiety in plasma, and no metabolites >10 % of total circulating radioactivity were observed.

### Elimination

Following oral administration of pemigatinib 13.5 mg once daily in patients with cancer, the geometric mean elimination half-life ( $t_{1/2}$ ) was 15.4 (51.6 % CV) hours and the geometric mean apparent clearance (CL/F) was 10.6 L/h (54 % CV).

### Excretion

Following a single oral dose of radiolabeled pemigatinib, 82.4 % of the dose was recovered in feces (1.4 % as unchanged) and 12.6 % in urine (1 % as unchanged).

### Renal impairment

The effect of renal impairment on the pharmacokinetics of pemigatinib was evaluated in a renal impairment study in subjects with normal renal function (GFR  $\geq$  90 mL/min), severe renal function (GFR < 30 mL/min and not on hemodialysis) and End Stage Renal Disease (ESRD) (GFR < 30 mL/min and on hemodialysis). In subjects with the severe renal impairment, the geometric mean ratios (90% CI) compared to normal controls were 64.6 % (44.1 %, 94.4 %) for  $C_{max}$  and 159 % (95.4 %, 264 %) for  $AUC_{0-\infty}$ . In the subjects with ESRD before hemodialysis, the geometric mean ratios (90 % CI) was 77.5 % (51.2 %, 118 %) for  $C_{max}$  and 76.8 % (54.0 %, 109 %) for  $AUC_{0-\infty}$ . Besides, in participants with ESRD after hemodialysis, the geometric mean ratios (90 % CI) were 90.0 % (59.3 %, 137 %) for  $C_{max}$  and 91.3 % (64.1 %, 130 %) for  $AUC_{0-\infty}$ . Based on these results, pemigatinib dose should be reduced for patients with severe renal impairment (see section 4.2).

### Hepatic impairment

The effect of hepatic impairment on the pharmacokinetics of pemigatinib was evaluated in a hepatic impairment study in subjects with normal hepatic function, moderate (Child-Pugh class B) and severe (Child-Pugh class C) hepatic impairment. In subjects with moderate hepatic impairment, the geometric mean ratios (90 % CI) compared to normal controls, were 96.7 % (59.4 %, 157 %) for  $C_{max}$  and 146 % (100 %, 212 %) for  $AUC_{0-\infty}$ . In subjects with severe hepatic impairment, the GMR (90 % CI) was 94.2 % (68.9 %, 129 %) for  $C_{max}$  and 174 % (116 %, 261 %) for  $AUC_{0-\infty}$ . Based on these results, no dose adjustment is recommended for patients with mild and moderate hepatic impairment. However, pemigatinib dose should be reduced for patients with severe hepatic impairment (see section 4.2).

### Interactions

#### CYP substrates

Pemigatinib at clinically relevant concentrations is not an inhibitor of CYP1A2, CYP2B6, CYP2C8, CYP2C9, CYP2C19, CYP2D6 and CYP3A4 or an inducer of CYP1A2 and CYP3A4.

#### Transporters

Pemigatinib is a substrate of both P-gp and BCRP. P-gp or BCRP inhibitors are not expected to affect pemigatinib exposure at clinically relevant concentrations.

*In vitro*, pemigatinib is an inhibitor of OATP1B3, OCT2, and MATE1. Inhibition of OCT2 may increase serum creatinine.

## **5.3 Preclinical safety data**

### Systemic toxicity

The most prominent findings following repeat-dose administration of pemigatinib in both rats and monkeys were attributed to the intended pharmacology of pemigatinib (FGFR1, FGFR2, and FGFR3 inhibition), including hyperphosphatemia, physal dysplasia, and soft tissue mineralization; some of these findings were observed at exposures (AUC) lower than therapeutic. Mineralization was observed in numerous tissues including kidneys, stomach, arteries, ovaries (monkey only), and eyes (cornea, rat only). Soft tissue mineralization was not reversible, while physal and cartilage findings were reversible. In addition, changes of the bone marrow (rats) and kidney lesions were observed.

### Genotoxicity

Pemigatinib was not mutagenic in a bacterial mutagenicity assay, nor clastogenic in an *in vitro* chromosome aberration assay, and did not result in induction of bone marrow micronuclei in an *in vivo* micronucleus assay in rats.

#### Carcinogenicity

Carcinogenicity studies with pemigatinib have not been conducted.

#### Impairment of fertility

No specific animal studies with pemigatinib have been conducted to evaluate the effects of pemigatinib on fertility. In repeated dose toxicity studies, oral administration of pemigatinib did not result in any dose-related adverse effects on male and female reproductive organs.

#### Developmental toxicity

In rats, administration of pemigatinib at  $\geq 0.3$  mg/kg/day during the period of organogenesis resulted in 100 % postimplantation loss. At 0.1 mg/kg/day, an increase in fetal skeletal malformations and major blood vessels variations, reduced ossification, and decrease fetal body weight were observed. Exposure at that dose is approximately 20 % of the clinical exposure at the maximum recommended human dose of 13.5 mg based on AUC.

#### Safety pharmacology

*In vitro*, pemigatinib showed an IC<sub>50</sub> for hERG inhibition  $> 8$   $\mu$ M (the highest feasible concentration based on solubility), that is  $> 360$ -fold higher than the clinical steady-state unbound C<sub>max</sub> at the dose of 13.5 mg. *In vivo*, there were no adverse findings in safety pharmacology assessments of pemigatinib, including *in vivo* respiratory and central nervous system function studies in rats and cardiovascular study in monkeys.

## **6. PHARMACEUTICAL PARTICULARS**

### **6.1 List of excipients**

Microcrystalline cellulose (E-460)  
Sodium starch glycolate (Type A)  
Magnesium stearate (E-572)

### **6.2 Incompatibilities**

Not applicable.

### **6.3 Shelf life**

3 years.

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

This medicinal product does not require any special storage conditions.

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

PVC/Al blister containing 14 tablets. Carton box containing 14 or 28 tablets.

Not all pack sizes may be marketed.

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

No special requirements for disposal.

**7. MARKETING AUTHORISATION HOLDER**

Incyte Biosciences Distribution B.V.  
Paasheuvelweg 25  
1105 BP Amsterdam  
Netherlands

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

Pemazyre 4.5 mg tablets

EU/1/21/1535/001

EU/1/21/1535/002

Pemazyre 9 mg tablets

EU/1/21/1535/003

EU/1/21/1535/004

Pemazyre 13.5 mg tablets

EU/1/21/1535/005

EU/1/21/1535/006

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

Date of first authorisation: 26 March 2021

**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(S) 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. MANUFACTURERS RESPONSIBLE FOR BATCH RELEASE**

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

Incyte Biosciences Distribution B.V.  
Paasheuvelweg 25  
1105 BP Amsterdam  
Netherlands

Tjoapack Netherlands B.V.  
Nieuwe Donk 9  
4879 AC Etten-Leur  
Netherlands

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

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

Medicinal product subject to 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 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.

The marketing authorisation holder shall submit the first periodic safety update report for this product within 6 months following authorisation.

## **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 14-a 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 confirm the efficacy and safety of Pemazyre in adults with locally advanced or metastatic cholangiocarcinoma with a fibroblast growth factor receptor 2 (FGFR2) fusion or rearrangement that have progressed after at least one prior line of systemic therapy, the MAH should submit the final results of study FIGHT-202 (INCB 54828-202), a phase 2 study investigating the efficacy and safety of pemigatinib in adults with advanced/metastatic or surgically unresectable cholangiocarcinoma including FGFR2 translocations who failed previous therapy.	December 2021
In order to confirm the efficacy and safety of Pemazyre in adults with locally advanced or metastatic cholangiocarcinoma with a fibroblast growth factor receptor 2 (FGFR2) fusion or rearrangement that have progressed after at least one prior line of systemic therapy, the MAH should submit the results of FIGHT-302 (INCB 54828-302), a phase 3 study comparing the efficacy and safety of pemigatinib vs. gemcitabine plus cisplatin chemotherapy in adults with unresectable or metastatic cholangiocarcinoma with FGFR2 rearrangement.	December 2026

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

## **A. LABELLING**

**PARTICULARS TO APPEAR ON THE OUTER PACKAGING**

**OUTER CARTON FOR BLISTER**

**1. NAME OF THE MEDICINAL PRODUCT**

Pemazyre 4.5 mg tablets  
pemigatinib

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

Each tablet contains 4.5 mg pemigatinib.

**3. LIST OF EXCIPIENTS**

**4. PHARMACEUTICAL FORM AND CONTENTS**

14 tablets  
28 tablets

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

Read the package leaflet before use.  
Oral 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**

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

Incyte Biosciences Distribution B.V.  
Paasheuvelweg 25  
1105 BP Amsterdam  
Netherlands

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

EU/1/21/1535/001 14 tablets  
EU/1/21/1535/002 28 tablets

**13. BATCH NUMBER**

Lot

**14. GENERAL CLASSIFICATION FOR SUPPLY**

**15. INSTRUCTIONS ON USE**

**16. INFORMATION IN BRAILLE**

Pemazyre 4.5 mg

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

2D barcode carrying the unique identifier included.

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

PC  
SN  
NN

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

**BLISTER**

**1. NAME OF THE MEDICINAL PRODUCT**

Pemazyre 4.5 mg tablets  
pemigatinib

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

Incyte Biosciences Distribution B.V. (as Incyte logo)

**3. EXPIRY DATE**

EXP

**4. BATCH NUMBER**

Lot

**5. OTHER**

Mon.  
Tue.  
Wed.  
Thu.  
Fri.  
Sat.  
Sun.

**PARTICULARS TO APPEAR ON THE OUTER PACKAGING**

**OUTER CARTON FOR BLISTER**

**1. NAME OF THE MEDICINAL PRODUCT**

Pemazyre 9 mg tablets  
pemigatinib

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

Each tablet contains 9 mg pemigatinib.

**3. LIST OF EXCIPIENTS**

**4. PHARMACEUTICAL FORM AND CONTENTS**

14 tablets  
28 tablets

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

Read the package leaflet before use.  
Oral 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**

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

Incyte Biosciences Distribution B.V.  
Paasheuvelweg 25  
1105 BP Amsterdam  
Netherlands

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

EU/1/21/1535/003	14 tablets
EU/1/21/1535/004	28 tablets

**13. BATCH NUMBER**

Lot

**14. GENERAL CLASSIFICATION FOR SUPPLY**

**15. INSTRUCTIONS ON USE**

**16. INFORMATION IN BRAILLE**

Pemazyre 9 mg

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

2D barcode carrying the unique identifier included.

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

PC  
SN  
NN



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

**BLISTER**

**1. NAME OF THE MEDICINAL PRODUCT**

Pemazyre 9 mg tablets  
pemigatinib

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

Incyte Biosciences Distribution B.V. (as Incyte logo)

**3. EXPIRY DATE**

EXP

**4. BATCH NUMBER**

Lot

**5. OTHER**

Mon.  
Tue.  
Wed.  
Thu.  
Fri.  
Sat.  
Sun.

**PARTICULARS TO APPEAR ON THE OUTER PACKAGING**

**OUTER CARTON FOR BLISTER**

**1. NAME OF THE MEDICINAL PRODUCT**

Pemazyre 13.5 mg tablets  
pemigatinib

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

Each tablet contains 13.5 mg pemigatinib.

**3. LIST OF EXCIPIENTS**

**4. PHARMACEUTICAL FORM AND CONTENTS**

14 tablets  
28 tablets

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

Read the package leaflet before use.  
Oral 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**

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

Incyte Biosciences Distribution B.V.  
Paasheuvelweg 25  
1105 BP Amsterdam  
Netherlands

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

EU/1/21/1535/005	14 tablets
EU/1/21/1535/006	28 tablets

**13. BATCH NUMBER**

Lot

**14. GENERAL CLASSIFICATION FOR SUPPLY**

**15. INSTRUCTIONS ON USE**

**16. INFORMATION IN BRAILLE**

Pemazyre 13.5 mg

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

2D barcode carrying the unique identifier included.

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

PC  
SN  
NN

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

**BLISTER**

**1. NAME OF THE MEDICINAL PRODUCT**

Pemazyre 13.5 mg tablets  
pemigatinib

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

Incyte Biosciences Distribution B.V. (as Incyte logo)

**3. EXPIRY DATE**

EXP

**4. BATCH NUMBER**

Lot

**5. OTHER**

Mon.  
Tue.  
Wed.  
Thu.  
Fri.  
Sat.  
Sun.

**B. PACKAGE LEAFLET**

## Package leaflet: Information for the patient

### **Pemazyre 4.5 mg tablets** **Pemazyre 9 mg tablets** **Pemazyre 13.5 mg tablets** pemigatinib

▼ 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 or pharmacist.
- 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 or pharmacist. This includes any possible side effects not listed in this leaflet. See section 4.

#### **What is in this leaflet**

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

#### **1. What Pemazyre is and what it is used for**

Pemazyre contains the active substance pemigatinib, which belongs to a group of cancer medicines called tyrosine kinase inhibitors. It blocks the action of proteins in the cell called fibroblast growth factor receptor types 1, 2 and 3 (FGFR1, FGFR2, and FGFR3) that help regulate cell growth. Cancer cells may have an abnormal form of this protein. By blocking FGFR, pemigatinib can prevent the growth of such cancer cells.

Pemazyre is used:

- to treat adults with bile duct cancer (also known as cholangiocarcinoma) whose cancer cells have an abnormal form of the FGFR2 protein, and
- when the cancer has spread to other parts of the body or cannot be removed by surgery, and
- when treatment with other medicines is no longer working.

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

##### **Do not take Pemazyre if you are**

- allergic to pemigatinib or any of the other ingredients of this medicine (listed in section 6)
- using St John's wort, a medicine to treat depression

##### **Warnings and precautions**

Talk to your doctor or pharmacist before taking Pemazyre if you have:

- been told you have an increase or decrease of a mineral in your blood called phosphorus
- vision or eye problems
- severely reduced liver function. Your treatment may need to be adjusted
- severely reduced kidney function. Your treatment may need to be adjusted

- cancer cells that have spread into the brain or spinal cord

Eye examinations are recommended:

- before starting treatment with Pemazyre
- every 2 months for the first 6 months of treatment
- every 3 months thereafter or immediately if any visual symptoms occur, including flashes of light, visual disturbances or dark spots.

Tell your doctor straight away if you get any symptoms with your vision.

You should also use lubricating or hydrating eye drops or gels to help prevent or treat dry eyes.

Pemazyre may harm the unborn baby. An effective contraception must be used during treatment and for at least 1 week after the last dose of Pemazyre in women of childbearing age and in men with women partners of childbearing age.

### **Children and adolescents**

Pemazyre should not be given to children or adolescents under 18 years. It is not known whether it is safe and effective in this age group.

### **Other medicines and Pemazyre**

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

In particular, you should tell your doctor if you are taking any of the following medicines so that the doctor can decide if your treatment needs to change:

- **St John's wort:** a medicine to treat depression. You **must not** take St John's wort during treatment with Pemazyre.
- medicines with active substance names ending with "**prazole**": they are used to reduce the release of stomach acid. Avoid using these medicines during treatment with Pemazyre
- **itraconazole:** a medicine to treat fungal infections
- **rifampicin:** a medicine to treat tuberculosis or certain other infections
- **carbamazepine, phenytoin, phenobarbital, primidone:** medicines to treat epilepsy
- **efavirenz:** medicine to treat HIV infection
- **cyclophosphamide, ifosfamide:** other medicines to treat cancer
- **methadone:** a medicine to treat severe pain or for managing addiction
- **digoxin:** a medicine to treat heart disease
- **dabigatran:** a medicine to prevent blood clots
- **colchicine:** a medicine to treat gout attacks

### **Pregnancy and breast-feeding**

If you are pregnant or breast-feeding, think you may be pregnant or are planning to have a baby, ask your doctor or pharmacist for advice before taking this medicine.

- **Pregnancy**  
Pemazyre may harm the unborn baby and should not be used during pregnancy unless you are told otherwise by your doctor. A pregnancy test should be performed before initiating treatment.
- **Contraception advice for men and women**  
Women being treated with Pemazyre should not become pregnant. Therefore, women who could become pregnant must use effective contraception during treatment and for at least 1 week after the last dose of Pemazyre. Talk to your doctor about the most suitable contraception for you.  
Men should avoid fathering a child. They must use effective contraception during treatment and for at least 1 week after the last dose of Pemazyre.
- **Breast-feeding**  
Do not breast-feed during treatment with Pemazyre and for at least 1 week after the last dose.

### **Driving and using machines**

Pemazyre can cause side effects such as fatigue or visual disturbances. Do not drive or operate machinery if this happens.

### **3. How to take Pemazyre**

Pemazyre treatment should be started by a doctor who is experienced in the diagnosis and treatment of bile duct cancer. Always take this medicine exactly as your doctor or pharmacist has told you. Check with your doctor or pharmacist if you are not sure.

#### **The recommended dose is**

1 tablet of Pemazyre 13.5 mg taken once daily for 14 days, followed by 7 days without taking Pemazyre.

Treatment is continued with the same pattern of 14 days of Pemazyre once daily, followed by 7 days off therapy. Do not take Pemazyre during the 7 days off therapy. Your doctor will adjust the dose or stop treatment if needed.

#### **Method of use**

Swallow the tablet whole with one glass of water at the same time every day. Pemazyre may be taken with food or between meals.

Do not crush, chew, split or dissolve the tablets.

#### **Duration of use**

Take Pemazyre for as long as it is prescribed by the doctor.

#### **If you take more Pemazyre than you should**

Tell your doctor if you have taken more Pemazyre than you should have.

#### **If you forget to take Pemazyre**

If you miss a dose of Pemazyre by 4 hours or more, or if you vomit after taking Pemazyre, do not take another Pemazyre tablet to make up for the missed dose. Take your next dose of Pemazyre at the scheduled time.

#### **If you stop taking Pemazyre**

Do not stop taking Pemazyre without discussing it with your doctor, as this could reduce the success of therapy.

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.

**Tell your doctor immediately** if you have any of the serious side effects below. These side effects may occur with the following frequency:

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

- low sodium in blood; symptoms include decreased ability to think, headache, nausea, poor balance, confusion, seizures, coma
- blood tests showing increase of creatinine, which can suggest kidney problems; usually raised creatinine does not cause symptoms, but symptoms of kidney problems may include nausea and changes in urination



**Other side effects** may occur with the following frequencies:

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

- high or low phosphate levels seen in blood tests
- taste disturbance
- dry eye
- nausea
- inflammation of the inner lining of the mouth
- diarrhoea
- constipation
- dry mouth
- skin reactions with redness, swelling and pain on palms of the hands and soles of the feet, called hand-foot syndrome
- nail toxicity, including nails separating from the nail bed, nail pain, nail bleeding, breaking of the nails, colour or texture changes in your nails, infected skin around the nail
- hair loss
- dry skin
- joint pain
- fatigue

**Common** (may affect up to 1 in 10 people)

- fluid build-up under the retina (the light-sensitive layer at the back of the eye)
- inflammation of the cornea (the clear outer layer of the eye)
- reduced vision
- eyelash changes including abnormally long eyelashes, ingrown eyelashes
- abnormal hair growth

### **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 Pemazyre**

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 carton and the blister after EXP. The expiry date refers to the last day of that month.

This medicine does not require any special storage conditions.

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 Pemazyre contains**

- The active substance is pemigatinib.  
Each 4.5 mg tablet contains 4.5 mg pemigatinib.  
Each 9 mg tablet contains 9 mg pemigatinib.  
Each 13.5 mg tablet contains 13.5 mg pemigatinib.
- The other ingredients are microcrystalline cellulose, sodium starch glycolate (Type A), magnesium stearate.

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

Pemazyre 4.5 mg tablets are round, white to off-white, debossed on one side with “P” and “4.5” on the reverse.

Pemazyre 9 mg tablets are oval, white to off-white, debossed on one side with “P” and “9” on the reverse.

Pemazyre 13.5 mg tablets are round, white to off-white, debossed on one side with “P” and “13.5” on the reverse.

The tablets are provided in blisters containing 14 tablets. The carton contains 14 or 28 tablets. Not all pack sizes may be marketed.

### **Marketing Authorisation Holder**

Incyte Biosciences Distribution B.V.  
Paasheuvelweg 25  
1105 BP Amsterdam  
Netherlands

### **Manufacturer**

Incyte Biosciences Distribution B.V.  
Paasheuvelweg 25  
1105 BP Amsterdam  
Netherlands

Tjoapack Netherlands B.V.  
Nieuwe Donk 9  
4879 AC Etten-Leur  
Netherlands

**This leaflet was last revised in {MM/YYYY}.**

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>.

**Annex IV**

**Conclusions on the granting of the conditional marketing authorisation and presented by the  
European Medicines Agency**

**Conclusions presented by the European Medicines Agency on:**

- **Conditional marketing authorisation**

The CHMP having considered the application is of the opinion that the risk-benefit balance is favourable to recommend the granting of the conditional marketing authorisation as further explained in the European Public Assessment Report.