

$\mathsf{INLYTA}^{\mathsf{TM}}$

1. NAME OF THE MEDICINAL PRODUCT

1.1 Product name

 $INLYTA^{TM}$

1.2 Strength

1 and 5 mg

1.3 Pharmaceutical dosage form

Film-coated tablet

2. QUALITATIVE AND QUANTITATIVE COMPOSITION

2.1 Qualitative declaration

Axitinib

2.2 Quantitative declaration

Each film-coated tablet contains axitinib 1 mg or 5 mg.

3. PHARMACEUTICAL FORM

The 1 mg tablets are red oval film-coated and debossed 'Pfizer' on one side and '1XNB' on the other.

The 5 mg tablets are red triangular film-coated and debossed 'Pfizer' on one side and '5XNB' on the other.

4. CLINICAL PARTICULARS

4.1 Therapeutic indications

Axitinib is indicated for the treatment of patients with advanced renal cell carcinoma (RCC) after failure of one prior systemic therapy (see also Section 5.1).

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4.2 Posology and method of administration

The recommended starting oral dose of axitinib is 5 mg twice daily. Axitinib may be taken with or without food.

If the patient vomits or misses a dose, an additional dose should not be taken. The next prescribed dose should be taken at the usual time.

Dose adjustments

Dose increase or reduction is recommended based on individual safety and tolerability.

Patients who tolerate the axitinib starting dose of 5 mg twice daily with no adverse reactions >Grade 2 (according to the Common Toxicity Criteria for Adverse Events [CTCAE]) for two consecutive weeks, are normotensive, and are not receiving antihypertensive medication, may have their dose increased to 7 mg twice daily. Subsequently, using the same criteria, patients who tolerate the axitinib dose of 7 mg twice daily, may have their dose increased to a maximum of 10 mg twice daily.

Management of some adverse drug reactions may require temporary or permanent discontinuation and/or dose reduction of axitinib therapy. When dose reduction is necessary, the axitinib dose may be reduced to 3 mg twice daily and further to 2 mg twice daily.

Dose adjustment is not required on the basis of patient age, race, gender, or body weight.

Concomitant strong CYP3A4/5 inhibitors

Co-administration of axitinib with strong CYP3A4/5 inhibitors (e.g., ketoconazole, itraconazole, clarithromycin, atazanavir, indinavir, nefazodone, nelfinavir, ritonavir, saquinavir, and telithromycin) may increase axitinib plasma concentrations. Grapefruit may also increase axitinib plasma concentrations. Selection of an alternate concomitant medication with no or minimal CYP3A4/5 inhibition potential is recommended. Although axitinib dose adjustment has not been studied in patients receiving strong CYP3A4/5 inhibitors, if a strong CYP3A4/5 inhibitor must be co-administered, a dose decrease of axitinib to approximately half the dose (e.g., from a starting dose of 5 mg twice daily to a reduced dose of 2 mg twice daily) is recommended. If co-administration of the strong inhibitor is discontinued, a return to the axitinib dose used prior to initiation of the strong CYP3A4/5 inhibitor should be considered.

Concomitant strong CYP3A4/5 inducers

Co-administration of axitinib with strong CYP3A4/5 inducers (e.g., rifampin, dexamethasone,

phenytoin, carbamazepine, rifabutin, rifapentine, phenobarbital, and Hypericum perforatum [also

known as St. John's wort]) may decrease axitinib plasma concentrations. Selection of an alternate

concomitant medication with no or minimal CYP3A4/5 induction potential is recommended.

Although axitinib dose adjustment has not been studied in patients receiving strong CYP3A4/5

inducers, if a strong CYP3A4/5 inducer must be co-administered, a gradual dose increase of

axitinib is recommended. If the dose of axitinib is increased, the patient should be monitored

carefully for toxicity. If co-administration of the strong inducer is discontinued, the axitinib dose

should be immediately returned to the dose used prior to initiation of the strong CYP3A4/5

inducer.

Use in paediatrics

The safety and efficacy of axitinib in children (<18 years) have not been established. No data are

available.

Use in the elderly

No dose adjustment is required (see Section 5.2).

Hepatic impairment:

No dose adjustment is required when administering axitinib to patients with mild hepatic

impairment (Child-Pugh class A). A dose decrease is recommended when administering axitinib to

patients with moderate hepatic impairment (Child-Pugh class B) [e.g., the starting dose should be

reduced from 5 mg twice daily to 2 mg twice daily]. Axitinib has not been studied in patients with

severe hepatic impairment (Child-Pugh class C).

Renal impairment:

No dose adjustment is required (see Section 5.2).

4.3 Contraindications

None

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4.4 Special warnings and precautions for use

Cardiac failure events

In a controlled clinical study with axitinib for the treatment of patients with RCC, cardiac failure events (including cardiac failure, cardiopulmonary failure, left ventricular dysfunction, and right ventricular failure) were reported in 6/359 patients (1.7%) receiving axitinib and 3/355 patients (0.8%) receiving sorafenib. Grade 3/4 cardiac failure events were observed in 2/359 patients (0.6%) receiving axitinib and 1/355 patients (0.3%) receiving sorafenib. Fatal cardiac failure was reported in 2/359 patients (0.6%) receiving axitinib and 1/355 patients (0.3%) receiving sorafenib.

In clinical studies with axitinib for the treatment of patients with RCC, cardiac failure events (including cardiac failure, congestive cardiac failure, cardiopulmonary failure, left ventricular dysfunction, ejection fraction decreased, and right ventricular failure) were reported in 12/672 patients (1.8%) receiving axitinib. Grade 3/4 cardiac failure events were reported in 7/672 patients (1.0%) and fatal cardiac failure events were reported in 2/672 patients (0.3%) receiving axitinib.

Monitor for signs or symptoms of cardiac failure periodically throughout treatment with axitinib. Management of cardiac failure events may require temporary interruption or permanent discontinuation and/or dose reduction of axitinib therapy.

Hypertension

In a controlled clinical study with axitinib for the treatment of patients with RCC, hypertension was reported in 145/359 patients (40%) receiving axitinib and 103/355 patients (29%) receiving sorafenib. Grade 3 hypertension was observed in 55/359 patients (15%) receiving axitinib and 38/355 patients (11%) receiving sorafenib and Grade 4 hypertension was observed in 1/359 patients (<1%) receiving axitinib and 1/355 patients (<1%) receiving sorafenib. Hypertensive crisis was reported in 2/359 patients (<1%) receiving axitinib and none of the patients (0%) receiving sorafenib. The median onset time for hypertension (systolic blood pressure >150 mmHg or diastolic blood pressure >100 mmHg) was within the first month of the start of axitinib or sorafenib treatment and blood pressure increases have been observed as early as 4 days after starting axitinib. Hypertension was managed with standard antihypertensive therapy. Discontinuation of axitinib treatment due to hypertension occurred in 1/359 patients (<1%) receiving axitinib and none of the patients (0%) receiving sorafenib.

In pooled clinical studies with axitinib for the treatment of patients with RCC, hypertension was reported in 344/672 patients (51%) receiving axitinib. Grade 3 hypertension was reported in

148/672 patients (22%) receiving axitinib. Grade 4 hypertension was reported in 7/672 patients (1%) receiving axitinib.

Blood pressure should be well-controlled prior to initiating axitinib. Patients should be monitored for hypertension and treated as needed with standard antihypertensive therapy. In the case of persistent hypertension despite use of antihypertensive medications, the axitinib dose should be reduced. For patients who develop severe hypertension, temporarily interrupt axitinib treatment and restart at a lower dose once the patient is normotensive (see Section 4.2). If axitinib is interrupted, patients receiving antihypertensive medications should be monitored for hypotension.

Aneurysms and artery dissections

The use of Vascular Endothelial Growth Factor (VEGF) pathway inhibitors in patients with or without hypertension may promote the formation of aneurysms and/or artery dissections. Before initiating axitinib, this risk should be carefully considered in patients with risk factors such as hypertension or history of aneurysm.

Thyroid dysfunction

In a controlled clinical study with axitinib for the treatment of patients with RCC, hypothyroidism was reported in 69/359 patients (19%) receiving axitinib and 29/355 patients (8%) receiving sorafenib. Hyperthyroidism was reported in 4/359 patients (1%) receiving axitinib and 4/355 patients (1%) receiving sorafenib. In patients who had thyroid stimulating hormone (TSH) <5 μU/mL before treatment, elevations of TSH to ≥10 μU/mL occurred in 79/245 patients (32%) receiving axitinib and 25/232 patients (11%) receiving sorafenib.

In pooled clinical studies with axitinib for the treatment of patients with RCC, hypothyroidism was reported in 165/672 patients (25%) receiving axitinib. Hyperthyroidism was reported in 11/672 patients (2%) receiving axitinib.

Monitor thyroid function before initiation of, and periodically throughout, treatment with axitinib. Hypothyroidism and hyperthyroidism should be treated according to standard medical practice to maintain euthyroid state.

Arterial thromboembolic events

In a controlled clinical study with axitinib for the treatment of patients with RCC, Grade 3/4 arterial thromboembolic events were reported in 4/359 patients (1%) receiving axitinib and 4/355 patients

(1%) receiving sorafenib. The most frequent arterial thromboembolic event was transient ischemic

attack (1%). Fatal cerebrovascular accident was reported in 1/359 patients (<1%) receiving axitinib

and none of the patients receiving sorafenib.

In pooled clinical studies with axitinib for the treatment of patients with RCC, arterial

thromboembolic events were reported in 19/672 patients (3%) receiving axitinib. Grade 3 arterial

thromboembolic events were reported in 8/672 patients (1%). Grade 4 arterial thromboembolic

events were reported in 9/672 patients (1%). Fatal arterial thromboembolic events were reported

in 2 patients (<1%) receiving axitinib.

In monotherapy studies with axitinib, arterial thromboembolic events (including transient ischemic

attack, cerebrovascular accident, myocardial infarction, and retinal artery occlusion) were reported

in 16/699 patients (2%).

Axitinib should be used with caution in patients who are at risk for, or who have a history of, these

events. Axitinib has not been studied in patients who had an arterial thromboembolic event within

the previous 12 months.

Venous thromboembolic events

In a controlled clinical study with axitinib for the treatment of patients with RCC, venous

thromboembolic events were reported in 11/359 patients (3%) receiving axitinib and 2/355 patients

(1%) receiving sorafenib. Grade 3/4 venous thromboembolic events were reported in 9/359

patients (3%) receiving axitinib (including pulmonary embolism, deep vein thrombosis, and

retinal-vein occlusion/thrombosis) and 2/355 patients (1%) receiving sorafenib. Fatal pulmonary

embolism was reported in 1/359 patients (<1%) receiving axitinib and none of the patients (0%)

receiving sorafenib.

In pooled clinical studies with axitinib for the treatment of patients with RCC, venous

thromboembolic events were reported in 19/672 patients (3%) receiving axitinib. Grade 3 venous

thromboembolic events were reported in 6/672 patients (1%). Grade 4 venous thromboembolic

events were reported in 8/672 patients (1%). Fatal venous thromboembolic events were reported

in 1/672 patients (<1%) receiving axitinib.

Axitinib should be used with caution in patients who are at risk for, or who have a history of, these

events. Axitinib has not been studied in patients who had a venous thromboembolic event within

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the previous 6 months.

Elevation of haemoglobin or haematocrit

Increases in haemoglobin or haematocrit, reflective of increases in red blood cell mass, may occur during treatment with axitinib. An increase in red blood cell mass may increase the risk of thromboembolic events.

Elevated haemoglobin above the upper limit of normal (ULN) was observed in 31/320 patients (10%) receiving axitinib and 3/316 patients (1%) receiving sorafenib.

Monitor haemoglobin or haematocrit before initiation of, and periodically throughout, treatment with axitinib. If haemoglobin or haematocrit becomes elevated above the normal level, patients should be treated according to standard medical practice to decrease haemoglobin or haematocrit to an acceptable level.

Haemorrhage

In a controlled clinical study with axitinib for the treatment of patients with RCC, in which patients with untreated brain metastasis were excluded, haemorrhagic events were reported in 58/359 patients (16%) receiving axitinib and 64/355 patients (18%) receiving sorafenib. The most common haemorrhagic events in patients treated with axitinib were epistaxis (6%), haematuria (3%), haemoptysis (2%), and rectal haemorrhage (2%). Grade 3/4 haemorrhagic events were reported in 5/359 patients (1%) receiving axitinib (including cerebral haemorrhage, haematuria, haemoptysis, lower gastrointestinal haemorrhage, and melaena) and 11/355 (3%) patients receiving sorafenib. Fatal haemorrhage was reported in 1/359 patients (<1%) receiving axitinib (gastric haemorrhage) and 3/355 patients (1%) receiving sorafenib.

In pooled clinical studies with axitinib for the treatment of patients with RCC, haemorrhagic events were reported in 173/672 patients (26%) receiving axitinib. Grade 3 haemorrhagic events were reported in 20/672 patients (3%). Grade 4 haemorrhagic events were reported in 7/672 patients (1%) and fatal haemorrhagic events were reported in 3/672 patients (<1%) receiving axitinib.

Axitinib has not been studied in patients who have evidence of untreated brain metastasis or recent active gastrointestinal bleeding and should not be used in those patients. If any bleeding requires medical intervention, temporarily interrupt the axitinib dose.

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Gastrointestinal perforation and fistula formation

In a controlled clinical study with axitinib for the treatment of patients with RCC, gastrointestinal perforation was reported in 1/359 patients (<1%) receiving axitinib and none of the patients (0%) receiving sorafenib. In addition to cases of gastrointestinal perforation, fistulas were reported in 2/359 patients (1%) receiving axitinib and 1/355 patients (<1%) receiving sorafenib. In pooled clinical studies with axitinib for the treatment of patients with RCC, gastrointestinal perforation and fistula were reported in 13/672 patients (2%) receiving axitinib. In monotherapy studies with axitinib (N=699), fatal gastrointestinal perforation was reported in 1/699 patient (<1%).

Monitor for symptoms of gastrointestinal perforation periodically throughout treatment with axitinib.

Wound healing complications

No formal studies of the effect of axitinib on wound healing have been conducted.

Treatment with axitinib should be stopped at least 24 hours prior to scheduled surgery. The decision to resume axitinib therapy after surgery should be based on clinical judgment of adequate wound healing.

Reversible posterior leukoencephalopathy syndrome

In a controlled clinical study with axitinib for the treatment of patients with RCC, reversible posterior leukoencephalopathy syndrome (RPLS) was reported in 1/359 patients (<1%) receiving axitinib and none of the patients (0%) receiving sorafenib.

In pooled clinical studies with axitinib for the treatment of patients with RCC, RPLS was reported in 2/672 patients (<1%) receiving axitinib.

RPLS is a neurological disorder which can present with headache, seizure, lethargy, confusion, blindness and other visual and neurologic disturbances. Mild to severe hypertension may be present. Magnetic resonance imaging is necessary to confirm the diagnosis of RPLS. In patients with signs/symptoms of RPLS, temporarily interrupt or permanently discontinue axitinib. The safety of reinitiating axitinib therapy in patients previously experiencing RPLS is not known.

Proteinuria

In a controlled clinical study with axitinib for the treatment of patients with RCC, proteinuria was reported in 39/359 patients (11%) receiving axitinib and 26/355 patients (7%) receiving sorafenib.

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Grade 3 proteinuria was reported in 11/359 patients (3%) receiving axitinib and 6/355 patients (2%) receiving sorafenib.

In pooled clinical studies with axitinib for the treatment of patients with RCC, proteinuria was reported in 142/672 patients (21%) receiving axitinib. Grade 3 proteinuria was reported in 32/672 patients (5%) receiving axitinib. Grade 4 proteinuria was reported in 1/672 patients (<1%) receiving axitinib.

Monitoring for proteinuria before initiation of, and periodically throughout, treatment with axitinib is recommended. For patients who develop moderate to severe proteinuria, reduce the dose or temporarily interrupt axitinib treatment.

Elevation of liver enzymes

In a clinical dose-finding study, concurrent elevations of alanine aminotransferase [ALT] (12 times the ULN) and bilirubin (2.3 times the ULN), considered to be drug-related hepatotoxicity, were observed in 1 patient who received axitinib at a starting dose of 20 mg twice daily (4 times the recommended starting dose). In a controlled clinical study with axitinib for the treatment of patients with RCC, no concurrent elevations of ALT (>3 times the ULN) and bilirubin (>2 times the ULN) were observed for axitinib (N=359) or sorafenib (N=355).

Monitor liver function tests before initiation of, and periodically throughout, treatment with axitinib.

Hepatic impairment

In clinical studies with axitinib, the systemic exposure to axitinib was approximately 2-fold higher in subjects with moderate hepatic impairment (Child-Pugh class B) compared to subjects with normal hepatic function. A dose decrease is recommended when administering axitinib to patients with moderate hepatic impairment (Child-Pugh class B). Axitinib has not been studied in patients with severe hepatic impairment (Child-Pugh class C).

4.5 Interaction with other medicinal products and other forms of interaction

In vitro data indicate that axitinib is metabolized primarily by CYP3A4/5 and, to a lesser extent,

CYP1A2, CYP2C19, and uridine diphosphate-glucuronosyltransferase (UGT) 1A1.

CYP3A4/5 inhibitors

Ketoconazole, a strong inhibitor of CYP3A4/5, administered at a dose of 400 mg once daily for

7 days, increased the mean area under the curve (AUC) 2-fold and C_{max} 1.5-fold of a single 5-mg oral dose of axitinib in healthy volunteers. Co-administration of axitinib with strong CYP3A4/5 inhibitors (e.g., ketoconazole, itraconazole, clarithromycin, atazanavir, indinavir, nefazodone, nelfinavir, ritonavir, saquinavir, and telithromycin) may increase axitinib plasma concentrations. Grapefruit may also increase axitinib plasma concentrations. Selection of concomitant medication with no or minimal CYP3A4/5 inhibition potential is recommended. If a strong CYP3A4/5 inhibitor must be co-administered, a dose adjustment of axitinib is recommended (see Section 4.2).

CYP3A4/5 inducers

Rifampin, a strong inducer of CYP3A4/5, administered at a dose of 600 mg once daily for 9 days, reduced the mean AUC by 79% and C_{max} by 71% of a single 5-mg dose of axitinib in healthy volunteers. Co-administration of axitinib with strong CYP3A4/5 inducers (e.g., rifampin, dexamethasone, phenytoin, carbamazepine, rifabutin, rifapentine, phenobarbital, and **Hypericum perforatum** [also known as St. John's wort]) may decrease axitinib plasma concentrations. Selection of concomitant medication with no or minimal CYP3A4/5 induction potential is recommended. If a strong CYP3A4/5 inducer must be co-administered, a dose adjustment of axitinib is recommended (see Section 4.2).

In vitro studies of CYP and UGT inhibition and induction
In vitro studies indicated that axitinib does not inhibit CYP2A6, CYP2C9, CYP2C19, CYP2D6,
CYP2E1, CYP3A4/5, or UGT1A1 at therapeutic plasma concentrations.

In vitro studies indicated that axitinib has a potential to inhibit CYP1A2. Therefore, co-administration of axitinib with CYP1A2 substrates may result in increased plasma concentrations of CYP1A2 substrates (e.g., theophylline).

In vitro studies also indicated that axitinib has the potential to inhibit CYP2C8. However, co-administration of axitinib with paclitaxel, a known CYP2C8 substrate, did not result in increased plasma concentrations of paclitaxel in patients with advanced cancer, indicating lack of clinical CYP2C8 inhibition.

In vitro studies in human hepatocytes also indicated that axitinib does not induce CYP1A1, CYP1A2, or CYP3A4/5. Therefore, co-administration of axitinib is not expected to reduce the plasma concentration of co-administered CYP1A1, CYP1A2, or CYP3A4/5 substrates in vivo.

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In vitro studies with P-glycoprotein

In vitro studies indicated that axitinib inhibits P-glycoprotein. However, axitinib is not expected to

inhibit P-glycoprotein at therapeutic plasma concentrations. Therefore, co-administration of axitinib

is not expected to increase the plasma concentration of digoxin, or other P-glycoprotein

substrates, in vivo.

4.6 Fertility, pregnancy and lactation

Fertility

Based on non-clinical findings, axitinib has the potential to impair reproductive function and fertility

in humans (see Section 5.3).

Women of childbearing potential

Women of childbearing potential should be advised to avoid becoming pregnant while receiving

axitinib.

Pregnancy

Axitinib may cause foetal harm when administered to a pregnant woman. Studies in pregnant

mice have shown that axitinib caused toxic effects to the foetus (see Section 5.3).

There are no adequate and well-controlled studies in pregnant women using axitinib. Women of

childbearing potential should be advised to avoid becoming pregnant while receiving axitinib. If

this drug is used during pregnancy, or if a patient becomes pregnant while receiving this drug, the

patient should be apprised of the potential hazard to the foetus.

Lactation

No studies have been conducted in humans to assess the effect of axitinib on milk production, its

presence in breast milk, or its effects on the breast-fed child. It is unknown whether axitinib is

excreted in human milk.

Since many drugs are commonly excreted in human milk, and because of the potential for serious

adverse reactions in nursing infants due to exposure to axitinib, a decision should be made

whether to discontinue nursing or to discontinue axitinib, taking into account the importance of the

drug to the mother.

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4.7 Effects on ability to drive and use machines

No studies on the effect of axitinib on the ability to drive and use machines have been performed. Patients should be advised that they may experience events, such as dizziness and/or fatigue during treatment with axitinib.

4.8 Undesirable effects

The data described below reflect exposure to axitinib in 672 patients with advanced RCC who participated in the pivotal randomized clinical study or 4 additional studies with axitinib in patients with advanced RCC and from post-marketing experience.

The most common (≥20%) adverse reactions observed following treatment with axitinib were diarrhoea, hypertension, fatigue, decreased appetite, nausea, weight decreased, dysphonia, palmar-plantar erythrodysaesthesia (hand-foot) syndrome, haemorrhage, hypothyroidism, vomiting, proteinuria, cough, and constipation.

The following risks, including appropriate action to be taken, are discussed in greater detail in Section 4.4: cardiac failure events, hypertension, aneurysms and artery dissections, thyroid dysfunction, arterial thromboembolic events, venous thromboembolic events, elevation of haemoglobin or haematocrit, haemorrhage, gastrointestinal perforation and fistula formation, wound healing complications, RPLS, proteinuria, and elevation of liver enzymes.

Table 1 presents adverse reactions reported in patients who received axitinib.

The adverse reactions are listed by system organ class, frequency category and grade of severity. Frequency categories are defined as: very common (≥1/10), common (≥1/100 to <1/10), uncommon (≥1/1,000 to <1/100), rare (≥1/10,000 to <1/1,000), very rare (<1/10,000), not known (cannot be estimated from the available data). Adverse reactions are listed within each system organ class by decreasing medical seriousness or clinical importance.

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Table 1. Adverse Reactions (ADR) Frequency and Category Overview

Table 1. Adve	erse Reactions	(ADR) Frequency and Cate	gory Overviev			
	Category ^c	ADR Term ^{a,b}	Axitinib (N=359) Frequency			
SYSTEM						
ORGAN CLASS			All Grades	Grade 3	Grade 4	
			%	%	%	
Blood and	Common	Anaemia	6.3	1.2	0.4	
lymphatic		Polycythaemia	1.5	0.1	0.0	
system disorders						
Endocrine	Very Common	Hypothyroidism	24.6	0.3	0.0	
disorders	Common	Hyperthyroidism	1.6	0.1	0.1	
Metabolism and	Very Common	Decreased appetite	39.0	3.6	0.3	
nutrition	Common	Dehydration	6.7	3.1	0.3	
disorders		Hyperkalaemia	2.7	1.2	0.1	
		Hypercalcaemia	2.2	0.1	0.3	
Nervous system	Very Common	Headache	16.2	0.7	0.0	
disorders		Dysgeusia	11.5	0.0	0.0	
	Common	Dizziness	9.1	0.6	0.0	
	Uncommon	Reversible Posterior	0.3	0.1	0.0	
		Leukoencephalopathy				
		Syndrome ^d				
Ear and	Common	Tinnitus	3.1	0.0	0.0	
labyrinth						
disorders						
Cardiac	Common	Cardiac failure events ^e *	1.8	0.3	0.7	
disorders						
Vascular	Not known	Aneurysms and artery	-	-	-	
disorders		dissections ^m *				
	Very Common	Hypertension ^f	51.2	22.0	1.0	
	•	Haemorrhage ^g *	25.7	3.0	1.0	
	Common	Venous thromboembolic	2.8	0.9	1.2	
		events ^h *				
		Arterial thrombotic events ⁱ *	2.8	1.2	1.3	
Respiratory,	Very Common	Dyspnoea*	17.1	3.6	0.6	
thoracic and	7 STY COMMING	Cough	20.4	0.6	0.0	
uioiacic allu		Cougii	∠0.4	0.0	0.0	

			Axitinib			
SYSTEM ORGAN CLASS	Category ^c	ADR Term ^{a,b}	(N=359) Frequency			
		ADR Telli	All Grades	Grade 4		
			%	%	%	
mediastinal		Dysphonia	32.7	0.0	0.1	
disorders						
Gastrointestinal	Not known	Pancreatitis ^{I,m} *	-	-	-	
disorders	Very Common	Diarrhoea	55.4	10.1	0.1	
		Vomiting	23.7	2.7	0.1	
		Nausea	33.0	2.2	0.1	
		Abdominal pain	14.7	2.5	0.3	
		Stomatitis	15.5	1.8	0.0	
		Constipation	20.2	1.0	0.0	
		Dyspepsia	11.2	0.1	0.0	
	Common	Upper abdominal pain	9.4	0.9 0.0		
		Haemorrhoids	3.3	0.0	0.0	
		Glossodynia	2.8	0.0	0.0	
		Gastrointestinal perforation and	1.9	0.9	0.3	
		fistula ^j				
Hepatobiliary	Common	Hyperbilirubinaemia	1.3	0.1	0.1	
disorders						
Skin and	Very Common	Palmar-plantar	32.1	7.6	0.0	
subcutaneous		erythrodysaesthesia (hand-foot				
tissue disorders		syndrome)				
		Rash	14.3	0.1	0.0	
		Dry skin	10.1	0.1	0.0	
	Common	Erythema	3.7	0.0	0.0	
		Pruritus	6.0	0.0	0.0	
		Alopecia	5.7	0.0	0.0	
Musculoskeletal	Very Common	Arthralgia	17.7	1.9	0.3	
connective		Pain in extremity	14.1	1.0	0.3	
tissue and bone	Common	Myalgia	8.2	0.6	0.1	
disorders						

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SYSTEM			Axitinib (N=359) Frequency		
ORGAN CLASS	Category ^c	ADR Term ^{a,b}	All Grades	Grade 3	Grade 4
			%	%	%
Renal and	Very Common	Proteinuria ^k	21.1	4.8	0.1
urinary disorders					
General	Very Common	Fatigue	45.1	10.6	0.3
disorders and		Asthenia*	13.8	2.8	0.3
administration		Mucosal inflammation	13.7	1.0	0.0
site conditions					
Investigations	Very Common	Weight decreased	32.7	4.9	0.0
	Common	Lipase increased	3.7	0.7	0.7
		Blood creatinine increased	5.7	0.4	0.0
		Alanine aminotransferase increased	6.5	1.2	0.0
		Blood alkaline phosphatase increased	4.8	0.3	0.0
		Aspartate aminotransferase increased	6.1	1.0	0.0
		Amylase increased	3.4	0.6	0.4

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	Category ^c		Axitinib			
SYSTEM			3 h	(N=359) Frequency		
ORGAN CLASS		ADR Term ^{a,b}	All Grades Grade 3 Gra	Grade 4		
			%	%	%	

- * Includes fatal events.
- ^a Adverse reactions are listed according to treatment-emergent, all-causality frequency.
- b National Cancer Institute Common Terminology Criteria for Adverse Events, Version 3.0
- ^c Frequency categories are based on the "all grades" values.
- ^d Reversible posterior leukoencephalopathy syndrome includes the following preferred term: Leukoencephalopathy.
- ^e Cardiac failure events includes the following preferred terms: cardiac failure, cardiac failure congestive, cardiopulmonary failure, ejection fraction decreased, left ventricular dysfunction, and right ventricular failure.
- Hypertension includes the following preferred terms: accelerated hypertension, blood pressure increased, hypertension and hypertensive crisis.
- Haemorrhage includes the following preferred terms: activated partial thromboplastin time prolonged, anal haemorrhage, arterial haemorrhage, blood urine present, central nervous system haemorrhage, cerebral haemorrhage, coagulation time prolonged, conjunctival haemorrhage, contusion, diarrhoea haemorrhagic, dysfunctional uterine bleeding, epistaxis, gastric haemorrhage, gastrointestinal haemorrhage, gingival bleeding, haematemesis, haematochezia, haematocrit decreased, haematoma, haematuria, haemoglobin decreased, haemoptysis, haemorrhage, haemorrhage coronary artery, haemorrhage urinary tract, haemorrhoidal haemorrhage, haemostasis, increased tendency to bruise, international normalized ratio increased, lower gastrointestinal haemorrhage, melaena, petechiae, pharyngeal haemorrhage, prothrombin time prolonged, pulmonary haemorrhage, purpura, rectal haemorrhage, red blood cell count decreased, renal haemorrhage, scleral haemorrhage, scrotal haematocele, splenic haematoma, splinter haemorrhage, subarachnoid haemorrhage, tongue haemorrhage, upper gastrointestinal haemorrhage, and vaginal haemorrhage.
- Venous thromboembolic events includes the following preferred terms: Budd-Chiari syndrome, deep vein thrombosis, jugular vein thrombosis, pelvic venous thrombosis, pulmonary embolism, retinal vein occlusion, retinal vein thrombosis, subclavian vein thrombosis, venous thrombosis, and venous thrombosis limb.
- Arterial thrombotic events includes the following preferred terms: acute myocardial infarction, embolism, myocardial infarction, retinal artery occlusion, and transient ischaemic attack.
- Gastrointestinal perforation and fistula includes the following preferred terms: abdominal abscess, anal abscess, anal fistula, fistula, gastrointestinal anastomotic leak, gastrointestinal perforation, large intestine perforation, oesophagobronchial fistula, and peritonitis.
- ^k Proteinuria includes the following preferred terms: protein urine, protein urine present, and proteinuria.
- Pancreatitis includes the following preferred terms: pancreatitis and pancreatitis acute.
- m Identified during post-marketing use of axitinib; no cases were identified in the clinical study pool presented in the table.

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4.9 Overdose

There is no specific treatment for axitinib overdose.

In a controlled clinical study with axitinib for the treatment of patients with RCC, 1 patient inadvertently received a dose of 20 mg twice daily for 4 days and experienced dizziness (Grade 1).

In a clinical dose finding study with axitinib, patients who received starting doses of 10 mg twice daily or 20 mg twice daily experienced adverse reactions which included hypertension, seizures associated with hypertension, and fatal haemoptysis.

In cases of suspected overdose, axitinib should be withheld and supportive care instituted.

PHARMACOLOGICAL PROPERTIES

5.1 Pharmacodynamic properties

Mechanism of action

Axitinib is a potent and selective tyrosine kinase inhibitor of vascular endothelial growth factor receptor (VEGFR)-1, VEGFR-2, and VEGFR-3. These receptors are implicated in pathologic angiogenesis, tumour growth, and metastatic progression of cancer. Axitinib has been shown to potently inhibit VEGF-mediated endothelial cell proliferation and survival. Axitinib inhibited the phosphorylation of VEGFR-2 in xenograft tumour vasculature that expressed the target **in vivo** and produced tumour growth delay, regression, and inhibition of metastases in many experimental models of cancer.

Pharmacodynamics effects

In a randomized, 2-way crossover study, 35 healthy subjects were administered a single oral dose of axitinib (5 mg) in the absence and presence of 400 mg ketoconazole for 7 days. Results of this study indicated that axitinib plasma exposures up to 2-fold greater than the therapeutic levels expected following a 5 mg dose did not produce clinically-significant QT interval prolongation.

Clinical efficacy

The safety and efficacy of axitinib were evaluated in a randomized, open-label, multicentre Phase 3 study. Patients (N=723) with advanced RCC whose disease had progressed on or after treatment with 1 prior systemic therapy, including sunitinib-, bevacizumab-, temsirolimus-, or

cytokine-containing regimens were randomized (1:1) to receive axitinib (n=361) or sorafenib (n=362). The primary endpoint, progression-free survival (PFS), was assessed using a blinded independent central review. Secondary endpoints included objective response rate (ORR) and overall survival (OS).

Of the patients enrolled in this study, 389 patients (54%) had received 1 prior sunitinib-based therapy, 251 patients (35%) had received 1 prior cytokine-based therapy (interleukin-2 or interferon-alfa), 59 patients (8%) had received 1 prior bevacizumab-based therapy, and 24 patients (3%) had received 1 prior temsirolimus-based therapy. The baseline demographic and disease characteristics were similar between the axitinib and sorafenib groups with regard to age, gender, race, Eastern Cooperative Oncology Group (ECOG) performance status, geographic region, and prior treatment.

There was a statistically significant advantage for axitinib over sorafenib for the primary endpoint of PFS (see Table 2 and Figure 1). There was no statistically significant difference between the arms in OS.

Table 2. Efficacy Results by Independent Assessment

Endpoint/Study Population	Axitinib	Sorafenib	HR (95% CI)	P-value
PFS ^{a,b}				
Overall ITT	N=361	N=362		
Median, months (95% CI)	6.7 (6.3, 8.6)	4.7 (4.6, 5.6)	0.67 (0.54, 0.81)	<0.0001°
Sunitinib-refractory subgroup	N=194	N=195		
Median, months (95% CI)	4.8 (4.5, 6.4)	3.4 (2.8, 4.7)	0.74 (0.57, 0.96)	0.0107 ^d
Cytokine-refractory subgroup	N=126	N=125		
Median, months (95% CI)	12.1 (10.1, 13.9)	6.5 (6.3, 8.3)	0.46 (0.32, 0.68)	<0.0001 ^d
os				
Median, months (95% CI)	20.1 (16.7, 23.4)	19.2 (17.5, 22.3)	0.97 (0.80, 1.17)	0.374 ^e
ORR	N=361	N=362		
% (95% CI)	19.4 (15.4, 23.9)	9.4 (6.6, 12.9)	2.06 ^f (1.41, 3.00)	0.0001 ^g

CI: Confidence interval; HR: Hazard ratio (axitinib/sorafenib); ITT: Intent to treat; ORR: Objective response rate; PFS: Progression-free survival; OS: Overall survival.

^a Time from randomization to progression or death due to any cause, whichever occurs first.

^b Assessed by independent radiology review according to RECIST.

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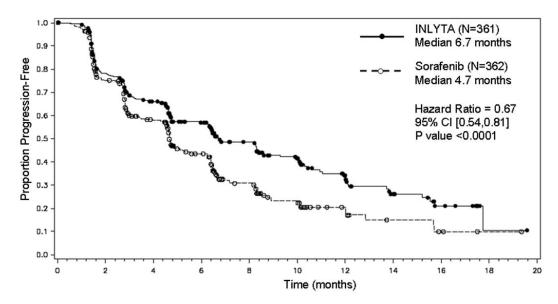
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- ^c One-sided p-value from a log-rank test of treatment stratified by ECOG performance status and prior therapy (comparison is considered statistically significant if the one-sided p-value is <0.023).
- ^d One-sided p-value from a log-rank test of treatment stratified by ECOG performance status.
- One-sided p-value from a log-rank test of treatment stratified by ECOG performance status and prior therapy.
- f Risk ratio is used for ORR. A risk ratio >1 indicated a higher likelihood of responding in the axitinib arm; a risk ratio <1 indicated a higher likelihood of responding in the sorafenib arm.
- ⁹ One-sided p-value from Cochran-Mantel-Haenszel test of treatment stratified by ECOG performance status and prior therapy.

Figure 1. Kaplan-Meier Curve for Progression-Free Survival by Independent Assessment for the Overall Population



5.2 Pharmacokinetic properties

After oral administration of axitinib tablets, the mean absolute bioavailability is 58% compared to intravenous administration. The plasma half-life of axitinib ranges from 2.5 to 6.1 hours. Dosing of axitinib at 5 mg twice daily resulted in <2-fold accumulation compared to administration of a single dose. Based on the short half-life of axitinib, steady state is expected within 2 to 3 days of the initial dose.

Absorption and distribution

Peak axitinib concentrations in plasma are generally reached within 4 hours following oral administration of axitinib with the median T_{max} ranging from 2.5 to 4.1 hours. Administration of

axitinib with a moderate fat meal resulted in 10% lower exposure compared to overnight fasting. A high fat, high-calorie meal resulted in 19% higher exposure compared to overnight fasting. Axitinib may be administered with or without food.

The average C_{max} and AUC increased proportionally over an axitinib dosing range of 5 to 10 mg. In vitro binding of axitinib to human plasma proteins is >99% with preferential binding to albumin and moderate binding to α_1 -acid glycoprotein. At the 5 mg twice daily dose in the fed state, the geometric mean peak plasma concentration and 24-hour AUC were 27.8 ng/mL and 265 ng.h/mL, respectively, in patients with advanced RCC. The geometric mean oral clearance and apparent volume of distribution were 38 L/h and 160 L, respectively.

Metabolism and elimination

Axitinib is metabolized primarily in the liver by CYP3A4/5 and to a lesser extent by CYP1A2, CYP2C19, and UGT1A1. Following oral administration of a 5-mg radioactive dose of axitinib, 30-60% of the radioactivity was recovered in faeces and 23% of the radioactivity was recovered in urine. Unchanged axitinib, accounting for 12% of the dose, was the major component identified in faeces. Unchanged axitinib was not detected in urine; the carboxylic acid and sulfoxide metabolites accounted for the majority of radioactivity in urine. In plasma, the N-glucuronide metabolite represented the predominant radioactive component (50% of circulating radioactivity) and unchanged axitinib and the sulfoxide metabolite each accounted for approximately 20% of the circulating radioactivity.

The sulfoxide and N-glucuronide metabolites show approximately 400-fold and 8000-fold less in vitro potency, respectively, against VEGFR-2 compared to axitinib.

Special populations

Gender, race, and age

Population pharmacokinetic analyses in patients with advanced cancer (including advanced RCC) and healthy volunteers indicate that there are no clinically relevant effects of age, gender, body weight, race, renal function, UGT1A1 genotype, or CYP2C19 genotype.

Paediatric population

Axitinib has not been studied in patients <18 years of age.

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Hepatic impairment

In vitro and in vivo data indicate that axitinib is primarily metabolized by the liver. Compared to

subjects with normal hepatic function, systemic exposure following a single dose of axitinib was

similar in subjects with mild hepatic impairment (Child-Pugh class A) and higher (approximately

2-fold) in subjects with moderate hepatic impairment (Child-Pugh class B). Axitinib has not been

studied in subjects with severe hepatic impairment (Child-Pugh class C).

Renal impairment

Unchanged axitinib is not detected in the urine.

Axitinib has not been studied in subjects with renal impairment. In clinical studies with axitinib for

the treatment of patients with RCC, patients with serum creatinine >1.5 times the ULN or

calculated creatinine clearance <60 mL/min were excluded.

Population pharmacokinetic analyses have shown that axitinib clearance was not altered in

subjects with renal impairment and no dose adjustment of axitinib is required.

5.3 Preclinical safety data

Carcinogenicity

Carcinogenicity studies have not been performed with axitinib.

Genotoxicity

Axitinib was tested using a series of genetic toxicology assays consisting of in vitro bacterial

reverse mutation (Ames), human lymphocyte chromosome aberration, and in vivo mouse bone

marrow micronucleus assays. Axitinib was not mutagenic or clastogenic in these assays.

Impairment of fertility

Axitinib has the potential to impair reproductive function and fertility in humans. Findings in the

male reproductive tract were observed in the testes/epididymis (decreased organ weight, atrophy

or degeneration, decreased numbers of germinal cells, hypospermia or abnormal sperm forms) at

≥100 mg/kg/day in mice (approximately 306 times the AUC at the recommended starting dose in

humans) and ≥3 mg/kg/day in dogs (approximately 0.5 times the AUC at the recommended

starting dose in humans). Findings in the female reproductive tract in mice and dogs included

signs of delayed sexual maturity, reduced or absent corpora lutea, decreased uterine weights and

uterine atrophy at ≥10 mg/kg/day (approximately equivalent to the AUC at the recommended

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starting dose in humans).

Axitinib did not affect mating or fertility in male mice at any dose tested up to 100 mg/kg/day. However, reduced testicular weights, sperm density and count were noted at \geq 30 mg/kg/day (approximately 72 times the AUC at the recommended starting dose in humans) following at least 70 days of treatment with axitinib. No adverse male reproductive effects in mice were noted at 10 mg/kg/day (approximately 21 times the AUC at the recommended starting dose in humans). In female mice, reduced fertility and embryonic viability were observed at all doses tested (\geq 30 mg/kg/day) following at least 15 days of treatment with axitinib (approximately 64 times the AUC at the recommended starting dose in humans).

Developmental toxicity

Pregnant mice exposed to axitinib at an oral dose level of 3 mg/kg/day (approximately 3 times the AUC at the recommended starting dose in humans), showed an increased occurrence of cleft palate and common variations in skeletal ossification. No foetal alterations were observed in mice at a dose level of 1 mg/kg/day (approximately equivalent to the AUC at the recommended starting dose in humans).

Toxicity studies in juvenile animals

Physeal dysplasia was observed in immature mice and dogs given axitinib at doses of ≥30 mg/kg/day for at least 1 month (approximately 37 times the AUC at the recommended starting dose in humans); the incidence and severity were dose-related and the effects were reversible when treatment stopped. Dental caries were observed in mice treated for more than 1 month at axitinib doses of ≥10 mg/kg/day (approximately 9 times the AUC at the recommended starting dose in humans); residual findings, indicative of partial reversibility, were observed when treatment stopped. For physeal dysplasia, no effect levels of 10 mg/kg/day in mice (approximately 8 times the AUC at the recommended starting dose in humans) and 10 mg/kg/day in dogs (approximately equivalent to the AUC at the recommended starting dose in humans) were determined in animals given axitinib for 1 month. A no effect level was not defined for caries of the incisors in mice. Other toxicities of potential concern to paediatric patients have not been evaluated in juvenile animals.

6. PHARMACEUTICAL PARTICULARS

6.1 List of excipient

Tablets contain microcrystalline cellulose, lactose monohydrate, croscarmellose sodium,

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magnesium stearate. Film-coat contains hydroxypropylmethylcellulose, titanium dioxide, lactose monohydrate, triacetin, red iron oxide.

6.2 Incompatibilities

Not applicable.

6.3 Shelf-life

Please see details on carton.

6.4 Special precautions for storage

This medicinal product does not require any special storage conditions.

6.5 Nature and contents of container

Foil/foil blisters containing 1, 7 or 14 tablets. Packs containing 1, 2, 4 or 8 blister.

High-density polyethylene (HDPE) bottle with desiccant and a polypropylene closure containing 60 or 180 tablets.

7. MARKETING AUTHORIZATION HOLDER

Pfizer (Thailand) Limited

8. MARKETING AUTHORIZATION NUMBERS

1C 86/57 (N), 1C 87/57 (N)

DATE OF AUTHORIZATION

07 September 2017

10. DATE OF REVISION OF THE TEXT

28 August 2025

Warnings (based on the Ministry of Public Health Announcement)

This drug may cause serious harm, should be used under the supervision of a physician.

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