PRODUCT MONOGRAPH INCLUDING PATIENT MEDICATION INFORMATION

PrINREBIC®

Fedratinib capsules

Capsules, 100 mg fedratinib (as fedratinib hydrochloride), oral

Antineoplastic agent

Bristol-Myers Squibb Canada 2344 Alfred-Nobel Blvd Suite 300 Montreal, Canada H4S 0A4 Date of Initial Authorization: NOV 23, 2023

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Submission Control Number: 280373

RECENT MAJOR LABEL CHANGES

9 DRUG INTERACTIONS, 9.4 Drug-Drug Interactions, Strong and Moderate CYP3A4 Inducers; and Effect of Fedratinib on Drug Transporters	09/2021
7 WARNINGS AND PRECAUTIONS, Carcinogenesis and Mutagenesis, Secondary Malignancies	09/2022
7 WARNINGS AND PRECAUTIONS, Cardiovascular, Major Adverse Cardiac Events (MACE)	09/2022
7 WARNINGS AND PRECAUTIONS, Hematologic, Thrombosis	09/2022

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PART I: HEALTH PROFESSIONAL INFORMATION

1 INDICATIONS

INREBIC® (fedratinib) is indicated for:

 the treatment of splenomegaly and/or disease related symptoms in adult patients with intermediate-2 or high-risk primary myelofibrosis, post-polycythemia vera myelofibrosis or post-essential thrombocythemia myelofibrosis, including patients who have been previously exposed to ruxolitinib.

1.1 Pediatrics

Pediatrics (<18 years of age): No data are available to Health Canada; therefore, Health Canada has not authorized an indication for pediatric use.

1.2 Geriatrics

Of the total number of patients with myelofibrosis who received an INREBIC dose of 400 mg in the clinical studies, 47.3% were greater than 65 years of age and 12.3% were greater than 75 years of age. No overall differences in safety or effectiveness of INREBIC were observed between these patients and younger patients.

2 CONTRAINDICATIONS

INREBIC is contraindicated in patients who are hypersensitive to this drug or to any
ingredient in the formulation, including any non-medicinal ingredient, or component of the
container. For a complete listing, see 6 DOSAGE FORMS, STRENGTHS, COMPOSITION
AND PACKAGING.

3 SERIOUS WARNINGS AND PRECAUTIONS BOX

Serious Warnings and Precautions

Serious and fatal encephalopathy, including Wernicke's, has occurred in patients treated
with INREBIC. Wernicke's encephalopathy is a neurologic emergency. Assess thiamine
levels in all patients prior to starting INREBIC, periodically during treatment, and as
clinically indicated. Do not start INREBIC in patients with thiamine deficiency; replete
thiamine prior to treatment initiation. If encephalopathy is suspected, immediately
discontinue INREBIC and initiate parenteral thiamine. Monitor until symptoms resolve or
improve and thiamine levels normalize (see 4 DOSAGE AND ADMINISTRATION, 7
WARNINGS AND PRECAUTIONS, and 8 ADVERSE REACTIONS).

4 DOSAGE AND ADMINISTRATION

4.1 Dosing Considerations

Renal Impairment:

No starting dose adjustment is necessary for patients with mild to moderate renal impairment. Due to potential increase of exposure, patients with pre-existing moderate renal impairment require more intensive safety monitoring, and if necessary, dose modifications based on adverse reactions. In patients with severe renal impairment

(creatinine clearance (CL_{cr}) 15 mL/min to 29 mL/min), reduce the INREBIC dose to 200 mg once daily.

• Hepatic Impairment:

No starting dose adjustment is necessary for patients with mild to moderate hepatic impairment. Due to potential increase of exposure, patients with pre-existing moderate hepatic impairment require more intensive safety monitoring, and if necessary, dose modifications based on adverse reactions. INREBIC pharmacokinetics have not been evaluated in patients with severe hepatic impairment. Avoid use of INREBIC in subjects with severe hepatic impairment (Child-Pugh class C or total bilirubin >3 times ULN and any AST) (see 10 CLINICAL PHARMACOLOGY).

4.2 Recommended Dose and Dosage Adjustment

The recommended dose of INREBIC is 400 mg taken orally once daily for patients with a baseline platelet count of $\geq 50 \times 10^9$ /L. A complete blood count should be obtained prior to starting treatment with INREBIC and during treatment as clinically indicated (see 7 WARNINGS AND PRECAUTIONS, **Hematologic**). Fedratinib has not been studied in patients with a baseline platelet count less than 50×10^9 /L.

Patients receiving treatment with ruxolitinib before the initiation of INREBIC must taper and discontinue ruxolitinib according to the ruxolitinib prescribing information.

Modify dose for hematologic and non-hematologic toxicities per Table 1 and Table 2. Discontinue INREBIC in patients who are unable to tolerate a dose of 200 mg daily.

Table 1 Dosage Reductions for Hematologic Toxicities

Hematologic Toxicity	Dose Reduction
Grade 3 Thrombocytopenia with active bleeding or Grade 4 Thrombocytopenia	Interrupt INREBIC dose until resolved to Grade ≤ 2 or baseline. Restart dose at 100 mg daily below the last given dose.
Grade 4 Neutropenia	Interrupt INREBIC dose until resolved to Grade ≤ 2 or baseline. Restart dose at 100 mg daily below the last given dose. Granulocyte growth factors may be used at the physician's discretion.
Grade ≥ 3 anemia, transfusion indicated	Interrupt INREBIC dose until resolved to Grade ≤ 2 or baseline. Restart dose at 100 mg daily below the last given dose.

Consider dose reductions for patients who become transfusion-dependent during treatment with INREBIC.

Table 2 Dosage Reductions for Non-Hematologic Toxicities

- table =				
Adverse Reaction	Recommended Action			
Grade ≥ 3 Nausea, Vomiting, or Diarrhea not responding to supportive measures within 48 hours	Interrupt INREBIC dose until resolved to Grade ≤ 1 or baseline. Restart dose at 100 mg daily below the last given dose.			

	Interrupt INREBIC dose until resolved to Grade ≤ 1 or baseline. Restart dose at 100 mg daily below the last given dose.
Grade ≥ 3 ALT, AST, or Bilirubin	Monitor ALT, AST, and bilirubin (total and direct) every 2 weeks for at least 3 months following the dose reduction. If re-occurrence of a Grade 3 or higher elevation, discontinue treatment with INREBIC.
Grade ≥ 3 Other Non-Hematologic Toxicities	Interrupt INREBIC dose until resolved to Grade ≤ 1 or baseline. Restart dose at 100 mg daily below the last given dose.

Dose Re-Escalation Following Dose Reduction for Adverse Drug Reactions

If the adverse reaction due to INREBIC that resulted in a dose reduction is under effective management with the toxicity resolved for at least 28 days, the dose level may be re-escalated to one dose level higher per month up to the original dose level. Dose re-escalation is not recommended if the dose reduction was due to a Grade 4 non-hematologic toxicity, Grade ≥ 3 ALT, AST, or total bilirubin elevation, or reoccurrence of a Grade 4 hematologic toxicity.

Management of Thiamine Levels and Wernicke's Encephalopathy (WE)

Assess thiamine levels prior to starting INREBIC and periodically during treatment. Do not start INREBIC treatment in patients with thiamine deficiency; replete thiamine prior to treatment initiation and during treatment if thiamine levels are low. While on treatment, assess thiamine levels monthly for the first 3 months and every 3 months thereafter, or more frequently if clinically indicated. If Wernicke's encephalopathy is suspected, immediately discontinue treatment with INREBIC and initiate parenteral thiamine treatment. Monitor until symptoms resolve or improve and thiamine levels normalize (see 7 WARNINGS AND PRECAUTIONS and 8 ADVERSE REACTIONS).

Table 3 Management of Dose Modifications for Thiamine Levels and Wernicke's Encephalopathy

Thiamine Level	Recommended Action
For thiamine levels below the normal range but greater than or equal to 30 nmol/L without signs or symptoms of WE	Interrupt INREBIC treatment. Dose with daily 100 mg oral thiamine until thiamine levels are restored to normal range. Consider restarting INREBIC when thiamine levels are within normal range.
For thiamine levels less than 30 nmol/L without signs or symptoms of WE	Interrupt INREBIC treatment. Immediate treatment with parenteral thiamine at therapeutic dosages until thiamine levels are restored to normal range. Consider restarting INREBIC when thiamine levels are within normal range.
For signs or symptoms of WE regardless of thiamine levels	Discontinue INREBIC treatment and immediately administer parenteral thiamine at therapeutic dosages.

<u>Dose Modification with Concomitant Use of Strong and Moderate CYP3A4 Inhibitors:</u>

Reduce the dose when administering INREBIC with strong or moderate CYP3A4 inhibitors:

- Strong CYP3A4 inhibitors Reduce the INREBIC dose to 200 mg
- Moderate CYP3A4 inhibitors Reduce the INREBIC dose to 300 mg

In cases where co-administration with the CYP3A4 inhibitor is discontinued, the INREBIC dose may be re-escalated by 100 mg increments as clinically indicated and taking into consideration PK characteristics of the CYP3A4 inhibitors to a maximum of 400 mg.

Additional dose adjustments should be made as needed based upon frequent monitoring of safety and efficacy. Discontinue INREBIC in patients unable to tolerate a dose of 200 mg daily.

Pediatric patients (< 18 years of age): The safety and efficacy of INREBIC in pediatric or adolescent patients have not been established. Health Canada has not authorized an indication for pediatric use (see 1 INDICATIONS).

4.3 Reconstitution

Not applicable.

4.4 Administration

INREBIC may be taken with or without food. To enhance tolerability, INREBIC should be given with food, preferably with a higher fat content evening meal (see 7 WARNINGS AND PRECAUTIONS and 9 DRUG INTERACTIONS).

The capsules should be swallowed whole, and should not be broken, opened or chewed.

4.5 Missed Dose

If a dose is missed, the next scheduled dose should be taken the following day. The patient should not take 2 doses at the same time to make up for the missed dose.

5 OVERDOSAGE

In the event of overdose, monitor patients for adverse reactions and provide appropriate supportive care.

For management of a suspected drug overdose, contact your regional poison control centre.

6 DOSAGE FORMS, STRENGTHS, COMPOSITION AND PACKAGING

Table 4 Dosage Forms, Strengths, Composition and Packaging

Route of Administration	Dosage Form / Strength/Composition	Non-medicinal Ingredients
Oral	capsule, 100 mg fedratinib (as fedratinib hydrochloride)	gelatin, red iron oxide (E172), silicified microcrystalline cellulose, sodium stearyl fumarate, titanium dioxide (E171), white ink

INREBIC 100 mg capsules are reddish brown, size 0, opaque with "FEDR" on cap and "100 mg" on body in white ink.

INREBIC capsules are supplied in bottles of 120 capsules.

7 WARNINGS AND PRECAUTIONS

Please see 3 SERIOUS WARNINGS AND PRECAUTIONS BOX.

Carcinogenesis and Mutagenesis

Secondary Malignancies

Another JAK-inhibitor has increased the risk of lymphoma and other malignancies excluding non-melanoma skin cancer (NMSC) (compared to those treated with TNF blockers) in patients with rheumatoid arthritis, a condition for which INREBIC is not indicated. Patients who are current or past smokers are at additional increased risk of secondary malignancies.

Consider the benefits and risks for the individual patient prior to initiating or continuing therapy with INREBIC, particularly in patients with a known malignancy (other than a successfully treated NMSC), patients who develop a malignancy, and patients who are current or past smokers.

Cardiovascular

Major Adverse Cardiac Events (MACE)

Another Janus Kinase (JAK)-inhibitor has increased the risk of MACE, including cardiovascular death, myocardial infarction, and stroke (compared to those treated with TNF blockers) in patients with rheumatoid arthritis, a condition for which INREBIC is not indicated.

Consider the benefits and risks for the individual patient prior to initiating or continuing therapy with INREBIC, particularly in patients who are current or past smokers and patients with other cardiovascular risk factors. Patients should be informed about the symptoms of serious cardiovascular events and the steps to take if they occur.

Driving and Operating Machinery

INREBIC has a minor influence on the ability to drive and use machines. Patients who experience dizziness after taking INREBIC should refrain from driving or using machines.

Gastrointestinal

Nausea, Vomiting and Diarrhea

Nausea, vomiting, and diarrhea were among the most frequent adverse reactions (61.6%, 44.8% and 67.5%, respectively) with a median time to onset of 5, 2 and 6 days of treatment, respectively. In the Phase 3 study, the rates of gastrointestinal events were higher in female than in male patients for nausea (81% vs 46.3%); diarrhea (71.4% vs 61.1%); vomiting (57.1% vs 24.1%), and abdominal pain (21.4% vs 5.6%). Most of the gastrointestinal adverse events were Grade 1 or 2. It is recommended that INREBIC is taken with a higher fat and larger evening meal to minimize nausea and vomiting. Prophylactic antiemetics should be used according to local practice for the first 8 weeks of treatment and then continued as clinically indicated. Diarrhea should be treated with antidiarrheal medications at the first onset of symptoms. For Grade 3 or higher nausea, vomiting, and diarrhea that are not responsive to supportive care within 48 hours interrupt INREBIC until resolved to Grade 1 or less or baseline. Restart dose at 100 mg daily below the last given dose. Monitor thiamine levels and replete as

needed (see 4 DOSAGE AND ADMINISTRATION, 8 ADVERSE REACTIONS and 9 DRUG INTERACTIONS).

Hematologic

Anemia and Thrombocytopenia

Treatment with INREBIC may cause anemia and thrombocytopenia.

A baseline complete blood count should be obtained prior to starting treatment with INREBIC and during treatment as clinically indicated.

New or worsening Grade 3 anemia occurred in 43% of patients with the median time to onset of approximately 2 months. Patients with anemia may require blood transfusions and/or INREBIC dose modifications (see 8 ADVERSE REACTIONS and 4 DOSAGE AND ADMINISTRATION).

Grade 3 or 4 thrombocytopenia including bleeding events occurred in 17% of patients with the median time to onset of approximately 2 months. Patients with thrombocytopenia may require platelet transfusions and/or INREBIC dose modifications (see 8 ADVERSE REACTIONS and 4 DOSAGE AND ADMINISTRATION).

Thrombosis

Another JAK-inhibitor has increased the risk of thrombosis, including deep venous thrombosis, pulmonary embolism, and arterial thrombosis (compared to those treated with TNF blockers) in patients with rheumatoid arthritis, a condition for which INREBIC is not indicated. In patients with MF treated with INREBIC in clinical trials, the rates of thromboembolic events were similar in INREBIC and placebo treated patients.

Patients with symptoms of thrombosis should be promptly evaluated and treated appropriately.

Monitoring and Laboratory Tests

A baseline complete blood count should be obtained prior to starting treatment with INREBIC and during treatment as clinically indicated. Dosage modification is recommended for patients who develop Grade 4 anemia, neutropenia or thrombocytopenia (see 4 DOSAGE AND ADMINISTRATION).

Assess thiamine levels prior to starting INREBIC. Do not start INREBIC treatment unless thiamine levels are normal. While on treatment assess thiamine levels monthly for the first 3 months, and every 3 months thereafter (see 4 DOSAGE AND ADMINISTRATION).

Neurologic

Encephalopathy, including Wernicke's

Cases of encephalopathy, including Wernicke's encephalopathy were reported in patients taking INREBIC. Wernicke's encephalopathy is neurologic emergency resulting from thiamine (Vitamin B1) deficiency. Signs and symptoms of Wernicke's encephalopathy may include ataxia, mental status changes, and ophthalmoplegia (e.g., nystagmus, diplopia) (see 3 SERIOUS WARNINGS AND PRECAUTIONS BOX and 8 ADVERSE REACTIONS).

Any change in mental status including drowsiness, confusion, or memory impairment should raise concern for potential encephalopathy, including Wernicke's and prompt a full evaluation including a neurologic examination, assessment of thiamine levels and imaging.

Prior to starting treatment with INREBIC, assess thiamine levels in all patients. Do not start INREBIC treatment unless thiamine levels are normal. If Wernicke's encephalopathy is

suspected, immediately discontinue treatment with INREBIC and initiate parenteral thiamine treatment. Monitor until symptoms resolve and thiamine levels normalize (see 4 DOSAGE AND ADMINISTRATION).

Reproductive Health: Female and Male Potential

Fertility

• There are no human data on the effect of INREBIC on fertility. A fertility study with fedratinib showed no effects on fertility or reproductive performance in male or female rats. However, the exposure at the highest dose (30 mg/kg/day) was only approximately 0.1 times the steady state clinical exposure at the recommended daily dose (see 16 NON-CLINICAL TOXICOLOGY, Reproductive and Developmental Toxicology). There are no data on effects on fertility in animals at clinically relevant exposures.

7.1 Special Populations

7.1.1 Pregnant Women

There are no studies with the use of INREBIC in pregnant women to inform drug-associated risks. If this drug is used during pregnancy, or if the patient becomes pregnant while taking this drug, advise the patient of the potential risk to a fetus. The administration of fedratinib to rats during organogenesis resulted in increased embryo-fetal death, reduced fetal weights, and increased incidence of skeletal variations, all at exposures lower than the steady state clinical exposure based on the AUC at the recommended human dose.

Advise females of reproductive potential to avoid becoming pregnant while receiving INREBIC and to use effective contraception during treatment with INREBIC and for at least 1 month after the last dose.

7.1.2 Breast-feeding

There are no data on the presence of INREBIC or its metabolites in human milk, the effects on the breastfed infant, or the effects on milk production. Because many drugs are excreted in human milk and because of the potential for adverse reactions in breastfed infants, advise women not to breastfeed during treatment with INREBIC and for at least 1 month after the last dose.

7.1.3 Pediatrics

Pediatrics (<18 years of age): No data are available to Health Canada; therefore, Health Canada has not authorized an indication for pediatric use.

7.1.4 Geriatrics

Evidence from clinical studies suggests that use in the geriatric population is not associated with differences in safety or effectiveness. No dosage adjustment is required for INREBIC based on age.

8 ADVERSE REACTIONS

8.1 Adverse Reaction Overview

In a pooled cohort of 203 patients with myelofibrosis (MF) treated with a 400 mg dose of INREBIC in the clinical studies, the most frequent nonhematologic adverse drug reactions were diarrhea, nausea, and vomiting. The most frequent hematologic adverse reactions were anemia and thrombocytopenia. The most frequent serious events regardless of causality included pneumonia (4.4%), cardiac failure (3%), anemia (2.5%), atrial fibrillation, sepsis, pleural effusion, acute kidney injury, and diarrhea (1.5% each). Fatal adverse events not related to disease progression included cardiorespiratory arrest and sepsis (2 patients), cardiogenic shock, and hemorrhagic shock (in one patient, each).

In the placebo-controlled Phase 3 study, JAKARTA, patients received INREBIC 400 mg (n=96) or placebo (n=96) once daily for 6 cycles. Discontinuation for adverse events during the first 6 cycles of treatment, regardless of causality, was observed in 15.8% of patients treated with a 400 mg dose of INREBIC and 8.4% of patients treated with placebo. TEAEs leading to death occurred in 5.2% of patients receiving INREBIC 400 mg daily and in 6.3% of patients treated with placebo.

8.2 Clinical Trial Adverse Reactions

Because clinical trials are conducted under very specific conditions, the adverse reaction rates observed in the clinical trials may not reflect the rates observed in practice and should not be compared to the rates in the clinical trials of another drug. Adverse reaction information from clinical trials is useful for identifying drug-related adverse events and for approximating rates.

The overall safety information of INREBIC was assessed in 608 patients receiving continuous doses in clinical studies including patients with myeloproliferative neoplasms and solid tumors. Serious and fatal encephalopathy, including Wernicke's encephalopathy, has occurred in INREBIC-treated patients. Serious cases were reported in 1.3% (8/608) of patients treated with INREBIC in clinical trials and 0.16% (1/608) of cases were fatal. Seven patients were taking INREBIC at 500 mg daily prior to the onset of neurologic findings and had predisposing factors such as gastrointestinal adverse events that could have led to thiamine deficiency. Most events resolved after INREBIC treatment cessation with some residual neurological symptoms including memory loss, cognitive impairment, and dizziness (see 3 SERIOUS WARNINGS AND PRECAUTIONS).

In a pooled cohort of 203 patients with primary myelofibrosis, post-polycythemia vera myelofibrosis, or post-essential thrombocythemia myelofibrosis, treated with the recommended clinical dose of INREBIC (400 mg daily), including 97 patients previously exposed to ruxolitinib, the median duration of exposure was 35.6 weeks (range 0.7 to 114.6 weeks). For 95 patients who received placebo in JAKARTA, the median duration of exposure was up to 24.0 weeks (or 6 cycles); only data before the crossover to INREBIC are included. Table 5 summarizes safety data by treatment group for up to 6 cycles.

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Table 5 Treatment-emergent adverse events reported in ≥ 5% patients receiving INREBIC 400 mg with a difference from placebo of ≥ 5% (frequencies reported regardless of causality) during the first 6 cycles

Body System Adverse Reaction	INREBIC 400 mg N = 203 (%)		Placebo N = 95 (%)		
	Any Grade	Grade 3/4	Any Grade	Grade 3/4	
Gastrointestinal Disorders					
Diarrhea	127 (62.6)	11 (5.4)	15 (15.8)	0	
Nausea	119 (58.6)	1 (0.5)	14 (14.7)	0	
Vomiting	80 (39.4)	4 (2.0)	5 (5.3)	0	
Constipation	32 (15.8)	2 (1.0)	7 (7.4)	0	
Infections and infestations					
Urinary tract infection	19 (9.4)	0	1 (1.1)	0	
Musculoskeletal and connective t	issue disorders				
Muscle spasms	19 (9.4)	0	1 (1.1)	0	
Nervous system disorders					
Headache	20 (9.9)	1 (0.5)	1 (1.1)	0	
Dizziness	18 (8.9)	0	3 (3.2)	0	
Skin and subcutaneous tissue dis	orders				
Pruritis	20 (9.9)	0	3 (3.2)	0	

System organ classes and preferred terms are coded using the MedDRA v20.1 dictionary.

Encephalopathy, including Wernicke's

Cases of serious and fatal encephalopathy, including Wernicke's were reported in patients taking INREBIC. Serious cases were reported in 1.3% (8/608) of patients treated with INREBIC in clinical trials and 0.16% (1/608) of cases were fatal. Wernicke's encephalopathy is characterized by acute symptoms of ophthalmoplegia, cerebellar abnormalities such as ataxia and/or altered mental status with specific neuroimaging findings. Seven subjects were taking INREBIC at 500 mg daily prior to the onset of neurologic findings and had predisposing factors such as gastrointestinal adverse events that could have led to thiamine deficiency. Most events resolved with some residual neurological symptoms including memory loss, cognitive impairment, and dizziness, except for 1 subject with metastatic head and neck cancer and severe malnutrition (whose symptoms were not confirmed to be WE), who had a fatal outcome (see 7 WARNINGS AND PRECAUTIONS).

Gastrointestinal Events

Among 203 patients with myelofibrosis who received 400 mg of INREBIC during the entire treatment duration, diarrhea (67.5%), nausea (61.6%), and vomiting (44.8%) were among the most frequent adverse drug reactions associated with fedratinib treatment. Most events were Grade 1 or 2, with Grade 3 events of diarrhea, vomiting, and nausea occurring in 5.4%, 2.0%, and 0.5% of patients, respectively.

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These events occurred most frequently in the first 2 cycles of treatment with INREBIC. These events led to permanent treatment discontinuation in 4.0% of patients (see 7 WARNINGS AND PRECAUTIONS).

8.2.1 Clinical Trial Adverse Reactions - Pediatrics

Trials were not conducted in pediatric populations.

8.4 Abnormal Laboratory Findings: Hematologic, Clinical Chemistry and Other Quantitative Data

Clinical Trial Findings

Table 6 summarizes laboratory abnormalities in myelofibrosis patients treated with INREBIC 400 mg for up to 6 cycles.

Table 6 Most Common (≥20%) Worst Grade Selected Laboratory Abnormalities Reported in Myelofibrosis Patients Who Received INREBIC 400 mg Dose^{a, b}

Laboratory Parameter	INREBIC 400 mg N = 203 (%)		Placebo N = 95 (%)			
	Any Grade	Grade 3/4	Any Grade	Grade 3/4		
Blood and Lymphatic System Disor	ders					
Anemia ^c	201 (99.0)	88 (43.3)	86 (90.5)	24 (25.3)		
Thrombocytopenia	128 (63.1)	34 (16.7)	45 (47.4)	9 (9.5)		
Neutropenia	45/202 (22.3)	12/202 (6.0)	18/92 (19.6)	5/92 (5.4)		
Hepatobillary disorders						
Aspartate aminotransferase increased ^c	105 (51.7)	2 (1.0)	27 (28.4)	1 (1.1)		
Alanine aminotransferase increased ^c	88 (43.3)	3 (1.5)	16 (16.8)	0		
Investigations	Investigations					
Blood bilirubin increased ^c	59 (29.1)	3 (1.5)	39 (41.1)	2 (2.1)		
Metabolism and nutrition disorders						
Amylase increased	41 (20.2)	3 (1.5)	7 (7.4)	0		
Lipase increased	65 (32.0)	19 (9.4)	6 (6.4)	2 (2.1)		
Renal and urinary disorders						
Blood creatinine increased ^c	138 (68.0)	3 (1.5)	28 (29.5)	1 (1.1)		

^a Worst grade may have occurred at baseline.

^b incidence based on laboratory values.

^c There were no cases of Grade 4 laboratory abnormalities; frequency includes Grade 3 only.

Anemia

Among 203 patients with myelofibrosis treated with 400 mg of INREBIC, the rate of anemia was 51.7%; 43.3% of patients developed Grade 3 anemia; no patients developed Grade 4 anemia. The median time to onset of the first Grade 3 anemia event was approximately 57 days. Hemoglobin levels reached nadir after 12 to 16 weeks with partial recovery and stabilization after 16 weeks. In the Phase 3 study, JAKARTA, the discontinuation rate due to anemia was low during the first 6 cycles of treatment (1.0% of patients receiving INREBIC and no patients receiving placebo). Overall 61.5% versus 32.3% of patients in the 400 mg INREBIC and placebo treatment groups received red blood cell transfusions over the entire duration of treatment (see 7 WARNINGS AND PRECAUTIONS).

Thrombocytopenia

Among 203 patients treated with 400 mg of INREBIC, 14.3% and 8.9% of patients developed Grade 3 and Grade 4 thrombocytopenia, respectively. The median time to first onset of Grade 3 or 4 thrombocytopenia was approximately 65 days. Thrombocytopenia was managed with supportive treatment, dose reduction, or dose interruption.

In the Phase 3 study, JAKARTA, platelet transfusions were administered to 9 patients receiving 400 mg INREBIC and to 3 patients receiving placebo over the entire duration of treatment. During the first 6 cycles permanent discontinuation of treatment due to thrombocytopenia occurred in 2.1% of patients receiving 400 mg INREBIC and in no patients receiving placebo. In the 400 mg INREBIC group, Grade 4 rectal hemorrhage and Grade 4 hemorrhagic stroke were reported (both in 1 subject), and Grade 5 shock hemorrhagic was reported in 1 subject. No bleeding events were reported in the placebo group.

In the Phase 2 study, JAKARTA2, where all patients had been previously exposed to ruxolitinib, the rates of Grade 3 or 4 thrombocytopenia were 16.5% and 7.2%, respectively. The rate of Grade 3 bleeding events (not associated with thrombocytopenia) was 3% (see 7 WARNINGS AND PRECAUTIONS).

Elevated Liver Enzymes

Elevations of ALT (51.7%) and AST (59.1%), all grades, were reported in a pool of 203 myelofibrosis patients taking 400 mg INREBIC. These events were primarily Grade 1 or 2 and were asymptomatic. Grade 3 or 4 ALT, AST and total bilirubin elevations occurred in 6.4% of patients and were generally reversible with dose modification or permanent treatment discontinuation (see 4 DOSAGE AND ADMINISTRATION).

Elevated Lipase/Amylase

For the entire treatment duration, elevations of amylase (24.1%) and lipase (39.9%), all grades, were reported in myelofibrosis patients taking 400 mg INREBIC. Most of these events were Grade 1 or 2; more severe elevations (Grade 3 or 4) responded to dose modification; the discontinuation rate was 2% (see 4 DOSAGE AND ADMINISTRATION). In the Phase 3 study, JAKARTA, permanent discontinuation of treatment due to elevated amylase and/or lipase occurred in 1.0% of patients receiving INREBIC and in no patients receiving placebo. Pancreatitis was observed in 1 patient in the Phase 3 study at 400 mg without prior elevations of lipase and amylase; the event of pancreatitis resolved with treatment discontinuation.

Elevated Creatinine

Elevations of creatinine (68.0%), all grades, were reported in myelofibrosis patients taking 400 mg of INREBIC. Most of these elevations were primarily asymptomatic Grade 1 or 2 events, with Grade 3 elevations observed in only 1.5% of patients. In the Phase 3 study,

JAKARTA, permanent discontinuation of treatment due to elevated creatinine occurred in 2.1% of patients receiving 400mg INREBIC and in no patients receiving placebo.

9 DRUG INTERACTIONS

9.1 Serious Drug Interactions

At the time of authorization, no serious drug interactions were identified.

9.2 Drug Interactions Overview

Fedratinib is metabolized by multiple CYPs in vitro, with the predominant contribution from CYP3A4, and with a lesser contribution from CYP2D6, CYP2C19, and flavin-containing monooxygenases (FMOs).

9.3 Drug-Behavioural Interactions

At the time of authorization, drug-behavioural interactions have not been established.

9.4 Drug-Drug Interactions

The drugs listed in this table are based on either drug interaction case reports or studies, or potential interactions due to the expected magnitude and seriousness of the interaction (ie, those identified as contraindicated).

Table 7 Established or Potential Drug-Drug Interactions

[Proper/Common name]	Source of Evidence	Effect	Clinical comment
Drugs that may increas	e fedratinib p	plasma concentrations	
Strong CYP3A4 inhibitors (e.g., ketoconazole, ritonavir, itraconazole, voriconazole and posaconazole) and moderate CYP3A4 inhibitors (e.g., diltiazem, erthromycin)	CT, T	Co-administration of ketoconazole (strong CYP3A4 inhibitor: 200 mg twice daily) with a single dose of fedratinib (300 mg) increased the fedratinib AUC by approximately 3-fold. Based on physiologically based pharmacokinetic (PBPK) simulations, fedratinib AUC is predicted to increase by 2.5-fold when a single 400 mg oral dose of fedratinib is given together with a strong CYP3A4 inhibitor (ritonavir) versus given alone. Simulations suggest that moderate CYP3A4 inhibitors (i.e., diltiazem, erythromycin) and weak CYP3A4 inhibitors (i.e., cimetidine, fluvoxamine) increase the fedratinib AUC	Increased exposure of fedratinib may increase the risk of adverse reactions. Dose reduction is recommended when administering INREBIC with strong and moderate CYP3A4 inhibitors (see 4 DOSAGE AND ADMINISTRATION). Grapefruit or grapefruit juice can inhibit CYP3A enzyme activity and should be avoided with INREBIC.

		by 1.6- to 1.8-fold and 1.2- fold, respectively, compared with its AUC when taken alone.		
Strong CYP2C19 Inhibitors (e.g., fluconazole, fluvoxamine)	Т	Simulations suggest that concomitant administration of INREBIC with strong inhibitors of CYP2C19 and dual CYP 3A4 and CYP 2C9 inhibitors may increase fedratinib exposure.	Concomitant administration of INREBIC and strong inhibitors of CYP2C19 should be avoided until new data become available.	
Drugs that may decrea	se fedratinib	plasma concentrations		
Strong and moderate CYP3A4 inducers (e.g., phenytoin, rifampicin, efavirenz), including herbal agents and food (e.g., St John's wort)	СТ, Т	Co-administration of rifampicin (strong CYP3A4 inducer: 600 mg once daily) or efavirenz (moderate CYP3A4 inducer: 600 mg once daily) with a single dose of fedratinib (500 mg) decreased AUC _{inf} of fedratinib by approximately 80% or 50%, respectively.	Strong and moderate CYP3A4 inducers can decrease fedratinib activity and should be avoided in patients receiving INREBIC.	
Proton Pump Inhibitors (PPI) (e.g., pantoprazole)	СТ	Co-administration of an oral proton pump inhibitor, pantoprazole (40 mg once daily on days 1-7) and INREBIC (500 mg orally once on day 7) increased fedratinib AUC by approximately 1.15-fold.	INREBIC dose does not need to be adjusted when taken with drugs that increase gastric pH (such as antacids, histamine-2 blockers, and PPIs).	
Effect of fedratinib on 0	CYP3A4 subs	strates		
CYP3A4 substrates (e.g., midazolam)	СТ	Concomitant administration of INREBIC with the CYP3A4 substrate midazolam increased midazolam AUC by 4-fold.	INREBIC should be used with caution with drugs that are sensitive CYP3A4 substrates. Dose modifications of drugs that are CYP3A4 substrates should be made as needed with close monitoring of safety and efficacy.	
Effect of fedratinib on CYP2C19 substrates				
CYP2C19 substrates (e.g., omeprazole)	СТ	Concomitant administration of INREBIC with the CYP2C19	INREBIC should be used with caution with drugs	

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		substrate omeprazole increased omeprazole AUC by 3-fold.	that are sensitive CYP2C19 substrates. Dose modifications of drugs that are CYP2C19 substrates should be made as needed with close monitoring of safety and efficacy.		
Effect of fedratinib on CYP2D6 substrates					
CYP2D6 substrates (e.g., metoprolol)	СТ	Concomitant administration of INREBIC with the CYP2D6 substrate metoprolol increased metoprolol AUC by 2-fold.	INREBIC should be used with caution with drugs that are sensitive CYP2D6 substrates. Dose modifications of drugs that are CYP2D6 substrates should be made as needed with close monitoring of safety and efficacy.		
Effect of fedratinib on o	drug transpor	ter substrates			
P-gp substrates (e.g., digoxin)	СТ	Co-administration of a single dose of fedratinib (600 mg) with a single dose of digoxin (0.25 mg) had no clinically meaningful effect on the plasma exposure of digoxin.	The combination is not predicted to have any clinical effects.		
OATP1B1/1B3 and BCRP substrate (e.g., rosuvastatin)	СТ	Co-administration of a single dose of fedratinib (600 mg) with a single dose of rosuvastatin (10 mg) had no clinically meaningful effect on the plasma exposure of rosuvastatin.	The combination is not predicted to have any clinical effects.		
OCT2 and MATE1/2- K substrates, (e.g., metformin)	СТ	Co-administration of single dose of fedratinib (600 mg) with a single dose of metformin (1000 mg) had no clinically meaningful effect on the plasma exposure of metformin. Renal clearance of metformin was decreased by 36% in the presence of fedratinib. Co-administration of single dose of fedratinib (600 mg) with a single dose	For agents that are renally excreted via OCT2 and MATE1/2-K, closely monitor the efficacy and safety and make dose adjustments as necessary when taking these agents. Monitor blood glucose levels regularly when taking metformin.		

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of metformin (1000 mg) in the fasted state increased the baseline adjusted plasma glucose AUC _(0-3h) and C _{max} by	
51% and 27%, respectively.	

Legend: CT = Clinical Trial; T = Theoretical

P-gp inhibitors

Fedratinib is a substrate of P-glycoprotein (P-gp) in vitro. No clinical data is available.

In vitro drug interactions: Effect of fedratinib on drug transporters

In vitro, fedratinib inhibits P-gp, BCRP, MATE1, MATE2-K, OATP1B1, OATP1B3, and OCT2, but not BSEP, MRP2, OAT1, and OAT3.

9.5 Drug-Food Interactions

INREBIC may be taken with or without food. In clinical studies, INREBIC was administered on an empty stomach. To minimize nausea and vomiting, INREBIC should be given with food, preferably with an evening meal. A dedicated drug-food interaction study demonstrated that the exposure to INREBIC was not affected by food (see 10.3 Pharmacokinetics). However, a high-fat, high calorie meal significantly decreased nausea and vomiting associated with INREBIC. A larger meal with a higher fat content, such as an evening meal, may be more effective in improving tolerability than a smaller low-fat meal. (see 4 DOSAGE AND ADMINISTRATION).

9.6 Drug-Herb Interactions

Drug-Herb interactions have not been studied.

9.7 Drug-Laboratory Test Interactions

There is no known interference with laboratory tests.

10 CLINICAL PHARMACOLOGY

10.1 Mechanism of Action

Fedratinib is an oral kinase inhibitor with activity against wild type and mutationally activated Janus Associated Kinase 2 (JAK2) and FMS-like tyrosine kinase 3 (FLT3). Fedratinib is a JAK2-selective inhibitor with higher potency for JAK2 over family members JAK1, JAK3, and TYK2. Abnormal activation of JAK2 is associated with myeloproliferative neoplasms (MPNs), including myelofibrosis and polycythemia vera. In cell models expressing mutationally active JAK2, fedratinib reduced phosphorylation of signal transducer and activator of transcription (STAT3/5) proteins, inhibited cell proliferation, and induced apoptotic cell death. In mouse models of JAK2^{V617F}-driven myeloproliferative disease, fedratinib blocked phosphorylation of STAT3/5, and improved survival and disease-associated signs, (including white blood cell counts, hematocrit, splenomegaly, and fibrosis.)

10.2 Pharmacodynamics

Fedratinib inhibits cytokine induced STAT3 phosphorylation in whole blood from myelofibrosis patients. A single dose administration of 300, 400, or 500 mg of fedratinib resulted in maximal

inhibition of STAT3 phosphorylation approximately 2 hours after dosing, with values returning to near baseline at 24 hours. Similar levels of inhibition were achieved at steady state PK on Cycle 1 Day 15, after administration of 300, 400, or 500 mg of fedratinib per day.

Cardiac Electrophysiology

The potential for QTc prolongation with fedratinib was evaluated in patients with solid tumors. Fedratinib 500 mg doses every day for 14 days did not prolong the QT interval to any clinically relevant extent. The largest time-matched mean QTcF difference for fedratinib vs. placebo observed at 4-hour post-dose was 4.32 msec (90% confidence interval [CI]: 1.16, 7.49), with the upper bound of the 2-sided 90% CI being lower than 10 msec.

10.3 Pharmacokinetics

Table 8 Summary of Fedratinib Pharmacokinetic Parameters for Day 1 Cycle 1 in Myelofibrosis Patients receiving 400 mg INREBIC (n=10)

C _{max}	(ng/mL)	t _{max} (hours)		AUC ₀₋₂₄ (ng·h/mL)	
Mean (SD)	Geometric Mean (CV%)	Median	Range	Mean (SD)	Geometric Mean (CV%)
1431 (754)	1294 (47)	2.0	1.0, 4.0	9610 (3449)	9133 (33)

Absorption

Fedratinib is rapidly absorbed following oral administration, achieving C_{max} within 0.5 to 4 hours. Based on a mass balance study in humans, oral absorption of fedratinib is estimated to be approximately 77%.

At a dose of 400 mg, the mean steady state fedratinib AUC is approximately 29000 ng·h/mL in patients with MF. Steady state plasma levels are reached within 15 days of once daily dosing, with an approximately 3-fold accumulation.

No effect on exposure of fedratinib was observed upon administration of fedratinib with a high-fat, high-calorie meal (approximately 815 calories of which 52% were derived from fat), and a low-fat, low-calorie meal (approximately 162 calories of which 6% were derived from fat) (see 9 DRUG INTERACTIONS).

Distribution:

The apparent volume of distribution of fedratinib at steady-state is 1770 L in patients with myelofibrosis at 400 mg once daily dose. Fedratinib is 92% or greater bound to human plasma proteins.

Metabolism:

Fedratinib is metabolized by multiple CYPs in vitro, with the predominant contribution from CYP3A4, and with a lesser contribution from CYP2C19, and flavin-containing monooxygenases (FMOs).

Fedratinib was the predominant entity (approximately 80% of plasma radioactivity) in systemic circulation after oral administration of radiolabeled-fedratinib. None of the metabolites contribute greater than 10% of total drug related exposure in plasma.

Elimination

Following a single oral dose of radiolabeled-fedratinib, elimination was primarily through metabolism with approximately 77% of radioactivity excreted in feces and only approximately 5% of the radioactivity excreted in urine. Unchanged drug was the major component in excreta, accounting on average for approximately 23% and 3% of the dose in feces and urine, respectively.

Fedratinib has a terminal half-life of approximately 62 hours to 78 hours in the 300 mg to 500 mg dose range and CL/F is approximately 13 L/hr (CV% 51). The kinetic profiles of the parent drug and its prominent metabolite are similar.

Special Populations and Conditions

In a population pharmacokinetics analysis of cumulative data from 452 patients, no clinically meaningful effect on the pharmacokinetics of fedratinib was observed with regard to age (20 years to 95 years), race, sex, body weight (40 kg to 135 kg), mild [defined as total bilirubin ≤upper limit of normal (ULN) and AST >ULN or total bilirubin 1 to 1.5 times ULN and any AST] or moderate (defined as total bilirubin >1.5 to 3 times ULN and any AST) hepatic impairment, and mild (defined as 60 ≤CLcr <90 mL/min) renal impairment.

- **Pediatrics** Fedratinib pharmacokinetics in children has not been evaluated.
- **Geriatrics** In a population pharmacokinetics analysis of cumulative data from patients, age was not a significant covariate influencing AUC.
 - No clinically meaningful effect on the pharmacokinetics of fedratinib was observed with regard to age (20 years to 95 years). Therefore, no dose adjustment based on age is recommended for elderly subjects.
- Hepatic Insufficiency The safety and pharmacokinetics of a single oral 300 mg dose
 of fedratinib were evaluated in a study in subjects with normal hepatic function and with
 mild hepatic impairment [Child-Pugh A]. No clinically meaningful effect on the
 pharmacokinetics of fedratinib was observed in subjects with mild hepatic impairment
 compared to that in subjects with normal hepatic function.
 - INREBIC pharmacokinetics has not been evaluated in patients with severe hepatic impairment (Child-Pugh Class C). Avoid use of INREBIC in subjects with severe hepatic impairment.
- Renal Insufficiency Following a single 300 mg dose of fedratinib, the AUC_{inf} of fedratinib increased by 1.5-fold in subjects with moderate (CLcr 30 mL/min to 59 mL/min by Cockcroft-Gault) renal impairment and 1.9-fold in subjects with severe (CLcr 15 mL/min to 29 mL/min by Cockcroft-Gault) renal impairment, compared to that in subjects with normal renal function (CLcr ≥90 mL/min by Cockcroft-Gault) (see 4 DOSAGE AND ADMINISTRATION).

11 STORAGE, STABILITY AND DISPOSAL

Store at room temperature (15 to 30°C).

12 SPECIAL HANDLING INSTRUCTIONS

Dispose of any unused medicinal product or waste material in accordance with local requirements.

PART II: SCIENTIFIC INFORMATION

13 PHARMACEUTICAL INFORMATION

Drug Substance

Proper name: fedratinib hydrochloride

Chemical name: N-tert-butyl-3-[(5-methyl-2-{[4-(2-pyrrolidin-1-

ylethoxy)phenyl]amino}pyrimidin-4-yl)amino]benzenesulfonamide dihydrochloride monohydrate

Molecular formula and molecular mass: C₂₇H₃₆N₆O₃S 2HCl, H₂O; 524.68 as free base (615.62

as dihydrochloride monohydrate)

Structural formula:

Physicochemical properties: The drug substance is a white to off-white powder with pKa values of 6.3 and 9.5. The solubility of fedratinib hydrochloride in aqueous media decreases over the range pH 1.1 to pH 7.2 from 112 mg/mL to 0.004 mg/mL. The melting point is 218°C.

14 CLINICAL TRIALS

14.1 Clinical Trials by Indication

JAKARTA

Patients with primary or secondary myelofibrosis (MF) classified as intermediate-risk level 2 or high-risk by modified International Working Group for Myelofibrosis Research and Treatment criteria (IWG-MRT).

Table 9 Summary of Trial Design and Patient Demographics for JAKARTA

Study	Trial design	Dosage, route of administration and duration	Study subjects (n)	Mean age (Range)	Sex
JAKARTA	Double-blind, randomized, 3-arm, placebo-controlled Phase 3 study	INREBIC 400 mg or 500 mg once daily, orally or placebo	INREBIC 400 mg (N=96)	63 years (39 - 86) 36.5% > 65 years	56.3% male 43.7% female
			INREBIC 500 mg (N=97)	65 years (39 – 80) 49.5% > 65 years	62.9% male 37.1% female
			Placebo (N=96)	65 years (27 – 85) 54.2% > 65 years	57.3% male 42.7% female

Product Monograph Master Template INREBIC® (fedratinib)

Template Date: September 2020 Page 21 of 38 JAKARTA was a double-blind, randomized, placebo-controlled Phase 3 study in patients with intermediate-2 or high-risk myelofibrosis, post-polycythemia vera myelofibrosis or post-essential thrombocythemia myelofibrosis with splenomegaly and platelet count ≥50 x 10⁹/L. A total of 289 patients were randomized to receive either INREBIC 500 mg (N=97), 400 mg (n=96), or placebo (n=96) once daily for at least six 28-day cycles. Among these, the median age was 65 years (range 27 to 86 years), 47% of patients were older than 65 years, and 59% were male. Sixty-four percent (64%) of patients had primary MF, 26% had post-polycythemia vera MF, and 10% had post-essential thrombocythemia MF. Overall, 67% of patients presented with V617F mutations of JAK2. Fifty-two percent (52%) of patients had intermediate-2 risk, and 48% had high-risk disease. The median hemoglobin count at baseline was 10.2 g/dL. The median platelet count at baseline was 213.5 x 10⁹/L; 16.3% of patients had a platelet count <100 x 10⁹/L, and 83.7% of patients had a platelet count ≥100 x 10⁹/L. Patients had a median palpable spleen length of 15 cm at baseline and a median spleen volume as measured by magnetic resonance imaging (MRI) or computed tomography (CT) of 2568 mL (range of 316 to 8244 mL) at baseline. (The median normal spleen volume is approximately 215 mL).

The primary efficacy endpoint was the proportion of patients achieving a greater than or equal to 35% reduction from baseline in spleen volume at the End of Cycle 6 as measured by MRI or CT and confirmed 4 weeks later.

One of the secondary endpoints was the proportion of patients with a 50% or greater reduction in Total Symptom Score (TSS) from baseline to the End of Cycle 6 as measured by the modified Myelofibrosis Symptoms Assessment Form (MFSAF) v2.0 diary.

Efficacy analyses for patients on INREBIC 400 mg and placebo treatment arms are presented in Table 10.

Table 10 Percent of Patients Achieving Spleen Volume Reduction and Spleen Size Reduction from Baseline to the End of Cycles 3 and 6 in the Phase 3 Study, JAKARTA (ITT Population)

Spleen Volume and Spleen Size at the End of Cycles 3 and 6	INREBIC 400 mg N=96 n (%) (95% CI) ^a	Placebo N=96 n (%) (95% CI) ^a
Spleen Volume		
Number (%) of Patients with Spleen Volume	45 (46.9)	1 (1.0)
Reduction by 35% or More at end of cycle 6	(36.9, 56.9)	(0, 3.1)
p-value	p<0.	0001
Number (%) of Patients with Spleen Volume	35 (36.5)	1 (1.0)
Reduction by 35% or More at end of cycle 6 (with a Scan 4 Weeks Later)	(26.8, 46.1)	(0, 3.1)
p-value	p<0.	0001

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Number (%) of Patients with Spleen Volume Reduction by 35% or More at end of cycle 3	41 (42.7)	1 (1.0)
	(32.8, 52.6)	(0, 3.1)
p-value	p<0.	0001
Number (%) of Patients with Spleen Volume Reduction by 25% or More at end of cycle 6	47 (49.0)	2 (2.1)
(with a scan 4 weeks later)	(39.0, 59.0)	(0, 4.9)
p-value	p<0.	0001
Spleen Size		
Number (%) of Patients with Spleen Size	37 (38.5)	3 (3.1)
Reduction by 50% or More at end of cycle 6	(28.8, 48.3)	(0, 6.6)

^aConfidence intervals are calculated using Normal approximation

A higher proportion of patients in the INREBIC 400 mg group achieved a greater than or equal to 35% reduction from baseline in spleen volume (Table 11) regardless of the presence or absence of the JAK2^{V617F} mutation.

Table 11 Percent of Patients Achieving 35% or Greater Reduction from Baseline in Spleen Volume by JAK Mutation Status at the End of Cycle 6 in the Phase 3 Study, JAKARTA (ITT Population)

	INREBIC 400 mg N=96		Placebo N=96	
JAK mutation status	Positive N=62 n (%) (95% CI) ^a	Negative N=30 n (%) (95% CI) ^a	Positive N=59 n (%) (95% CI) ^a	Negative N=32 n (%) (95% CI) ^a
Number (%) of Patients (95% CI) with Spleen Volume Reduced by 35% or More at end of cycle 6	34 (54.8) (42.5, 67.2)	10 (33.3) (16.5, 50.2)	0	1 (3.1) (0, 9.2)

^aConfidence intervals are calculated using Normal approximation

Figure 1 shows the percent change in spleen volume by MRI/CT from baseline for each patient who had an evaluable measurement at baseline and at the End of Cycle 6 (EOC6).

100 90 % Change in spleen volume to end of cycle 6 relative to BL 80 70 60 50 40 30 20 --10 -20 -30 -40 -50 -60 Fedratinib 400 mg (N*=75) Placebo (N*=58)

Figure 1 Percent Change in Spleen Volume from Baseline at End of Cycle 6 for Each Patient in the Phase 3 Study, JAKARTA

N*: Subjects with available percent change in spleen volume at EOC6.

Based on Kaplan-Meier estimates, the median duration of spleen response was 18.2 months for the INREBIC 400 mg group.

The modified MFSAF included 6 key MF associated symptoms: night sweats, itching, abdominal discomfort, early satiety, pain under ribs on left side, and bone or muscle pain. The symptoms were measured on a scale from 0 (absent) to 10 (worst imaginable).

The proportion of patients with a 50% or greater reduction in Total Symptom Score (TSS) was 40.4% in the INREBIC 400 mg group and 8.6% in the placebo group (Table 12).

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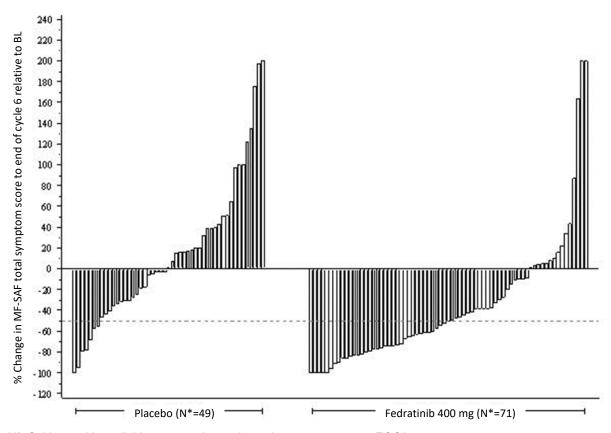
Table 12 Improvement in Total Symptom Score in Patients in the Phase 3 Study, JAKARTA

	INREBIC 400 mg N=89 n (%) (95% CI) ^a	Placebo N=81 n (%) (95% CI) ^a
Number (%) of Patients with 50% or Greater Reduction in Total Symptom Score at the End of Cycle 6	36 (40.4) (30.3, 50.6)	7 (8.6) (2.5, 14.8)
p-value	p<0.	0001

^aConfidence intervals are calculated using Normal approximation

Figure 2 shows the percent change in Total Symptom Score from baseline at the End of Cycle 6 for each patient.

Figure 2 Percent Change from Baseline in Total Symptom Score at the End of Cycle 6 for Each Patient in the Phase 3 Study, JAKARTA

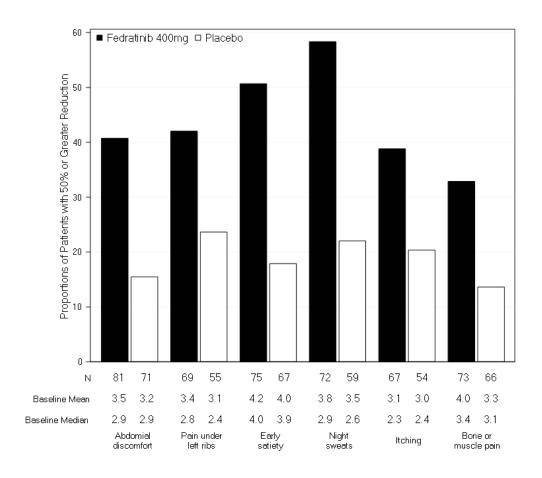


 N^{\star} : Subjects with available percent change in total symptom score at EOC6.

At the End of Cycle 6, patients treated with INREBIC 400 mg experienced median changes in the following 3 key individual symptoms physically related to the spleen size, specifically: -50.0% for abdominal discomfort; -66.6% for early satiety; and -61.4% for pain under ribs on left side. In the placebo group, the median percentage change for these 3 spleen-related symptoms was +4.0%, +6.1%, and -7.0%, respectively. Patients in the INREBIC 400 mg group had the greatest median percentage change at the End of Cycle 6 for the individual symptom of night sweats (-84.2% vs. 13.5% in the placebo group). The median percentage change was -27.6% for bone or muscle pain in the 400 mg group vs. +6.5% in the placebo group, and -46.7% for itching in the 400 mg group vs. -35.6% in the placebo group.

Figure 3 displays mean percent changes across the 6 individual symptoms scores included in the TSS. This figure shows a meaningful improvement from baseline for all 6 symptoms in the group treated with INREBIC 400 mg.

Figure 3 Proportion of Patients Achieving 50% or Greater Reduction in Individual Symptom Scores at the End of Cycle 6 with Non-Zero Baseline Scores



JAKARTA2

Intermediate and high-risk (by modified IWG-MRT criteria) primary and secondary myelofibrosis patients previously exposed to ruxolitinib

Table 13 Summary of Trial Design and Patient Demographics for JAKARTA2

Study	Trial design	Dosage, route of administration and duration	Study subjects (n)	Mean age (Range)	Sex
JAKARTA2	Open-label, single-arm study	INREBIC 400 mg, once daily, orally, upwards titration permitted	97	67 years (38 – 83) 57.7% > 65 years	54.6% male 45.4% female

JAKARTA2 was a multicenter, open-label, single-arm study in patients previously exposed to ruxolitinib with a diagnosis of intermediate-1 with symptoms, intermediate-2 or high-risk primary myelofibrosis, post-polycythemia vera myelofibrosis or post-essential thrombocythemia myelofibrosis with splenomegaly and platelet count ≥50 x 10⁹/L. A total of 97 patients were enrolled and treated with INREBIC 400 mg once daily. The median age was 67 years (range 38 to 83 years) with 58% of patients older than 65 years and 55% were male. Fifty-five percent (55%) of patients had primary MF, 26% had post-polycythemia vera MF, and 19% had post-essential thrombocythemia MF. Sixteen percent (16%) of patients had intermediate-1 with symptoms, 49% had intermediate-2, and 35% had high-risk disease. The median hemoglobin count was 9.8 g/dL at baseline. The median platelet count was 147.0 x 10⁹/L at baseline; 34.0% of patients had a platelet count <100 x 10⁹/L, and 66.0% of patients had a platelet count ≥100 x 10⁹/L. Patients had a median palpable spleen length of 18 cm at baseline and a median spleen volume as measured by magnetic resonance imaging (MRI) or computed tomography (CT) of 2893.5 mL (range of 737 to 7815 mL) at baseline.

The median duration of prior exposure to ruxolitinib was 10.7 months (range 0.1 to 62.4 months). Seventy-one percent (71%) of patients had received doses of either 30 mg or 40 mg daily of ruxolitinib prior to study entry.

The primary efficacy endpoint was the proportion of patients achieving a greater than or equal to 35% reduction in spleen volume from baseline to the End of Cycle 6 as measured by MRI or CT.

One of the secondary endpoints included symptom response rate defined as the proportion of patients with a 50% or greater reduction in Total Symptom Score (TSS) from baseline to the End of Cycle 6 as measured by the modified Myelofibrosis Symptoms Assessment Form (MFSAF) v2.0 diary.

For the primary endpoint, the proportion of patients on INREBIC 400 mg who achieved a greater than or equal to 35% reduction in spleen volume reduction by MRI or CT at the End of Cycle 6 was 30.9% and at the End of Cycle 3 was 40.2% (Table 14).

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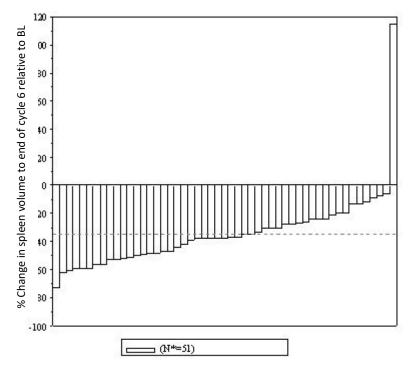
Table 14 Percent of Patients Achieving 35% or Greater Reduction from Baseline in Spleen Volume at the End of Cycles 3 and 6 in the Phase 2 Study, JAKARTA2 (ITT Population)

	INREBIC (N=97) n (%) (95% CI) ^a
Number (%) of Patients with 35% or Greater Reduction in Spleen Volume at the End of Cycle 6	30 (30.9) (21.9, 41.1)
Number (%) of Patients with 35% or Greater Reduction in Spleen Volume at the End of Cycle 3	39 (40.2) (30.4, 50.7)

^a Confidence interval estimated by Clopper-Pearson Exact method

The percent change in spleen volume from baseline to the End of Cycle 6 for each patient is shown in Figure 4.

Figure 4 Waterfall Plot of Percent Change in Spleen Volume from Baseline to the End of Cycle 6 in the Phase 2 Study, JAKARTA2



n*: Patients with available percent change in spleen volume at EOC6.

The proportion of patients with an available baseline assessment achieving a greater than or equal to 50% reduction in TSS from baseline to the End of Cycle 6 was 26.7% (Table 15).

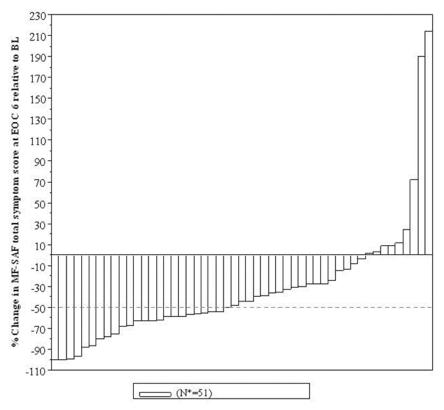
Table 15 Percent Change from Baseline in Total Symptom Score at the End of Cycle 6 in the Phase 2 Study, JAKARTA2 (MFSAF Analysis Population)

INREBIC (N=90)
n (%) (95% CI) ^a
24 (26.7) (17.9, 37)
_

^a Confidence interval estimated by Clopper-Pearson Exact method.

The median percent change in modified MFSAF TSS at the End of Cycle 6 was -44.3%, indicating an improvement of approximately 44% in MF-related symptoms. Most subjects in the MFSAF Analysis Population had a decrease in the modified MFSAF TSS at the End of Cycle 6 (Figure 5).

Figure 5 Waterfall Plot of Percent Change from Baseline in Total Symptom Score at the End of Cycle 6 as Measured by the Modified MFSAF in the Phase 2 Study, JAKARTA2



Note: Total Symptom Score is defined as the sum of the daily average score of the six item measures in a week: night sweats, pruritus, abdominal discomfort, early satiety, pain under ribs on left side, and bone or muscle pain.

N*: Patients with available percent change in total symptom score at EOC6.

All key symptoms assessed showed an improvement at the End of Cycle 6, with a median reduction of -22.2% in bone or muscle pain, -44.1% in itching, -46.2% in abdominal discomfort, -51.3% in early satiety, -76.0% in night sweats, and -83.3% in pain under ribs on left side.

15 MICROBIOLOGY

No microbiological information is required for this drug product.

16 NON-CLINICAL TOXICOLOGY

General Toxicology: Target organs of fedratinib in repeated dose studies included bone marrow (hypoplasia) and liver (bile duct hypertrophy and necrosis, hepatocellular necrosis and degeneration, Kupffer cell hyperplasia, and cholestasis). Effects were also observed in the lymphoid tissues (atrophy of thymus, spleen, mesenteric lymph nodes; histiocytic infiltrates in mesenteric lymph node), lungs (histiocytic infiltration), skeletal muscle (necrosis), nonglandular stomach (edema and squamous cell hyperplasia), intestines (glandular atrophy), heart (increased incidence of cardiomyopathy), and male reproductive organs (aspermia, seminiferous tubule degeneration). Pneumonia and abscesses were also observed at lethal doses in dogs, possibly secondary to effects on the bone marrow and lymphoid organs. A comparison of animal and human exposures reveals that exposures achieved in patients exceeded the highest exposures achieved in rats and dogs; for example, AUC values for patients given a dose of fedratinib 400 mg are approximately 6 to 10 times higher than the highest AUC values recorded for rats and dogs in the pivotal 6- and 9-month studies suggesting that humans are less sensitive than animals to the toxicities of fedratinib.

Fedratinib inhibited hERG channel current with an IC50 of 2.1 µM. A cardiovascular/respiratory study in conscious telemetered beagle dogs at doses up to 20 mg/kg showed no effect on hemodynamic parameters, respiratory rate, or electrocardiographic activity.

Carcinogenicity: Fedratinib was not carcinogenic in the 6-month Tg.rasH2 transgenic mouse model.

Genotoxicity: Fedratinib was not mutagenic in a bacterial mutagenicity assay (Ames test) or clastogenic in an in vitro chromosomal aberration assay (Chinese hamster ovary cells) or in vivo in a micronucleus test in rats. Fedratinib demonstrated no phototoxic potential in vitro in 3T3 cells.

Reproductive and Developmental Toxicology: Fedratinib administered to pregnant rats at a dose of 30 mg/kg/day during organogenesis (gestation Days 6 to 17) was associated with adverse embryo-fetal effects including post-implantation loss, lower fetal body weights, and skeletal variations. These effects occurred in rats at approximately 0.1 times the clinical exposure at the recommended human daily dose of 400 mg/day. At lower doses of 10 mg/kg/day, fedratinib administered to pregnant rats resulted in maternal toxicity of decreased gestational weight gain.

In pregnant rabbits treated during organogenesis (gestation Days 6 to 18), fedratinib did not produce developmental or maternal toxicity at doses up to the highest dose level tested, 30 mg/kg/day (exposure approximately 0.08 times the steady state clinical exposure at the recommended daily dose). In a separate study, administration of 80 mg/kg/day fedratinib to rabbits resulted in maternal mortality and thus higher doses could not be evaluated for embryofetal toxicity.

In a fertility study in rats, fedratinib was administered for at least 70 days (males) and 14 days (females) prior to cohabitation and up to the implantation day (gestation day 7). Fedratinib had no effect on estrous cycle parameters, mating performance, fertility, pregnancy rate, or reproductive parameters in male or female rats at doses up to 30 mg/kg. The exposure (AUC) at the dose of 30 mg/kg/day is approximately 0.10 to 0.13 times the clinical exposure at the recommended dose of 400 mg once daily.

In a pre- and post-natal study in rats, fedratinib was administered to pregnant female rats at doses of 3, 10, or 30 mg/kg/day from Day 6 of gestation through Day 20 of lactation, with weaning on Day 21. A slight decrease in maternal body weight gain during gestation occurred at 30 mg/kg/day. The offspring from the high dose (30 mg/kg) had decreased body weight preweaning in both sexes and postweaning through the maturation phase in males. These effects occurred at exposures approximately 0.1 times the steady state clinical exposure at the recommended daily dose.

PATIENT MEDICATION INFORMATION

READ THIS FOR SAFE AND EFFECTIVE USE OF YOUR MEDICINE

Prinrebic®

fedratinib capsules

Read this carefully before you start taking **INREBIC** and each time you get a refill. This leaflet is a summary and will not tell you everything about this drug. Talk to your healthcare professional about your medical condition and treatment and ask if there is any new information about **INREBIC**.

Serious Warnings and Precautions

Encephalopathy including Wernicke's encephalopathy has happened in some people who took INREBIC. This is a serious disease of the brain and can lead to death.

Wernicke's encephalopathy is a neurological problem that requires emergency care. It can happen if you do not have enough vitamin B1 (thiamine) in your body. Your doctor will do a blood test to check your vitamin B1 level before starting INREBIC and during treatment. Your doctor may tell you to stop taking INREBIC and take a vitamin B1 supplement if you develop side effects during treatment. Wernicke's encephalopathy can appear suddenly. You will need treatment right away.

Get medical help right away if you experience the following signs of Wernicke's encephalopathy:

- problems with balance and movement, such as difficulty walking
- confusion, memory problems or drowsiness
- eye problems, such as double or blurred vision or eye movements that you cannot control

What is INREBIC used for?

INREBIC is a prescription medicine. It is used to treat adults with an enlarged spleen and/or associated symptoms caused by certain types of myelofibrosis. Myelofibrosis is a rare form of blood cancer.

How does INREBIC work?

INREBIC is a medicine called a Janus kinase (JAK) inhibitor. Myelofibrosis is a cancer that disrupts the blood-forming tissues in the body. It often causes an enlarged spleen. By blocking the activity of a certain type of enzymes (called Janus Associated Kinases), INREBIC can reduce the size of your spleen and improve your symptoms.

What are the ingredients in INREBIC?

Medicinal ingredients: fedratinib, as fedratinib hydrochloride

Non-medicinal ingredients: gelatin, red iron oxide, silicified microcrystalline cellulose, sodium

stearyl fumarate, titanium dioxide, white ink.

INREBIC comes in the following dosage forms:

Capsules: 100 mg

Do not use INREBIC if:

- you are allergic to fedratinib or any of the other ingredients of INREBIC.
- you are receiving treatment with ruxolitinib.

To help avoid side effects and ensure proper use, talk to your healthcare professional before you take INREBIC. Talk about any health conditions or problems you may have, including if you:

- have or have had kidney or liver problems
- smoke or have ever smoked.
- have had a blood clot, heart attack, other heart problems, or stroke
- are pregnant, think you might be pregnant, or are planning on becoming pregnant.
 INREBIC may harm your unborn baby. If you are able to become pregnant, use an
 effective birth control while taking INREBIC. Continue using birth control for at least 1
 month after stopping INREBIC. Ask your healthcare professional about options of
 effective birth control. If you become pregnant while taking INREBIC, tell your
 healthcare professional right away. You and your healthcare professional will decide
 what is best for you and your baby.
- are breastfeeding or planning to breastfeed. It is not known if INREBIC passes into your breast milk. You should not breastfeed while taking INREBIC and for at least 1 month after your last dose. Talk to your healthcare professional about the best way to feed your baby during treatment with INREBIC.
- have any type of cancer

Other warnings you should know about:

Diarrhea, Nausea and Vomiting: INREBIC can cause diarrhea, nausea and vomiting. The most common time to start having these side effects is during the first 2 months of treatment. Taking INREBIC with a high-fat large evening meal may help to reduce nausea and vomiting. To prevent nausea and vomiting your healthcare professional may prescribe another medicine (such as ondansetron). If you have loose or liquid stools, tell your healthcare professional right away. Start taking an antidiarrheal medicine (such as loperamide) and drink more fluids.

If you experience diarrhea, nausea or vomiting that does not respond to treatment or experience rapid weight loss, contact your health care provider immediately. This may lower the thiamine levels in your body. This can result in Wernicke's encephalopathy, which is serious and can lead to death.

Anemia (low red blood cell counts) and Thrombocytopenia (low platelet counts): Low red blood cell and platelet counts are common while taking INREBIC. You may need a blood transfusion if your blood counts drop too low. Tell your doctor if you develop any bleeding or bruising during treatment with INREBIC.

Major heart problems: You may be at an even greater risk of major heart problems if you are 65 years of age or older, a smoker or were a smoker in the past, or have any heart problems.

Risk of cancer: You may be at an even greater risk of cancer if you are 65 years of age or older, a smoker or were a smoker in the past, or had other cancers before.

Fertility: It is not known if INREBIC has an effect on fertility. Talk to your doctor if this is a concern for you.

Children and adolescents: INREBIC is not for use in patients under the age of 18 years.

Driving and using machines: While using INREBIC you may feel weak, tired, dizzy, or confused. You may have blurred vision. Before driving a vehicle or using machinery wait to see how you feel after taking INREBIC.

Tell your healthcare professional about all the medicines you take, including any drugs, vitamins, minerals, natural supplements or alternative medicines.

The following may interact with INREBIC:

- Some medicines for fungal infections, such as ketoconazole, fluconazole, itraconazole, voriconazole, and posaconazole;
- HIV medicines, such as ritonavir and efavirenz:
- Some high blood pressure medicines such as diltiazem and metoprolol;
- Some medicines for infections (antibiotics) such as erythromycin and rifampicin;
- Some medicines for acid reflux such as cimetidine;
- The antidepressant fluvoxamine;
- The epilepsy medicine phenytoin;
- St John's Wort (Hypericum perforatum) an herbal product used to treat depression and other conditions;
- The anti-anxiety medicine midazolam;
- Some medicines used to treat gastroesophageal reflux disease (conditions where there is too much acid in the stomach) such as omeprazole;
- Products or juices containing grapefruit. Avoid eating or drinking any products or juices containing grapefruit while taking INREBIC.
- Some medicines used to lower blood glucose such as metformin. If you take these
 medicines you may need blood sugar levels to be monitored regularly.

How to take INREBIC:

- Take INREBIC exactly as your healthcare professional tells you. Check with your healthcare professional if you are not sure.
- Your healthcare professional will tell you how many INREBIC capsules to take.
- Take INREBIC with or without food. Taking INREBIC with a high-fat large evening meal
 may help to reduce nausea and vomiting. Examples of foods that are high in fat include
 salmon, eggs, cheese, beef, lamb and pork.
- Swallow the capsules whole. Do not open, break, or chew your capsules.
- Do not change your dose or stop taking INREBIC unless your healthcare professional tells you.

Usual dose: 400 mg (four 100 mg capsules) once a day.

Your healthcare professional may interrupt or change your dose or tell you to stop taking INREBIC. This may happen if you:

- have problems with your kidneys.
- experience certain side effects while taking INREBIC.
- are taking medicines that may interact with INREBIC.

Overdose:

If you think you, or a person you are caring for, have taken too much INREBIC, contact a healthcare professional, hospital emergency department, or regional poison control centre immediately, even if there are no symptoms.

Missed Dose:

If you miss a dose of INREBIC, skip the dose. Take your next dose at the regular time. Do NOT take 2 doses of INREBIC at the same time to make up for the missed dose.

What are possible side effects from using INREBIC?

These are not all the possible side effects you may have when taking INREBIC. If you experience any side effects not listed here, tell your healthcare professional.

Side effects may include:

- Headache
- Dizziness
- Constipation
- Muscle spasms
- Itch

INREBIC can cause abnormal blood test results. This includes low blood cell counts and increased creatinine, bilirubin, lipase, amylase and liver enzymes. Your healthcare professional will decide when to perform blood tests and will interpret the results.

Serious side effects and what to do about them				
Symptom / effect	Talk to your healthcare professional		Stop taking drug and get	
Cymptom / Chock	Only if severe	In all cases	immediate medical help	
VERY COMMON				
Anemia (low red blood cells): Being short of breath, feeling very tired, loss of energy, weakness, irregular heartbeats, pale complexion		√		
Thrombocytopenia (low blood platelets): Bruising or bleeding for longer than usual if you hurt yourself, fatigue, weakness		√		
Neutropenia (low white blood cells): infections, fatigue, fever, aches, pains and flu-like symptoms		✓		
Diarrhea: severe, at least 3 loose or liquid bowel movements in a day		✓		
Nausea: feeling the need to vomit		✓		

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Vomiting		✓	
COMMON	L		
Acute kidney injury (severe kidney problems): very little or no urine, swelling in legs and ankles, puffiness in your face and hands, confusion, fatigue, weakness, nausea, weight gain (from retaining fluids)		√	
Atrial fibrillation (abnormal heart rhythm which is rapid and irregular): chest discomfort with unpleasant awareness of your heartbeat, fatigue, weakness, dizziness, shortness of breath, feeling faint		√	
Encephalopathy including Wernicke's encephalopathy (a rare neurological disorder):			
confusion, memory impairment or drowsiness, problems with balance such as difficulty walking, eye problems such as double or blurred vision, eye movements that you cannot control			✓
Heart failure (heart does not pump blood as well as it should): shortness of breath, fatigue, weakness, swelling in legs, ankles and feet, cough, fluid retention, lack of appetite, rapid or irregular heartbeat, reduced ability to exercise		√	
Pleural effusion (fluid around the lungs): shortness of breath, dry cough, chest pain		✓	
Pneumonia (infection of the lungs): cough with or without mucus, fatigue, fever, sweating and shaking, chills, confusion, shortness of breath, difficult and painful breathing		√	
Sepsis (infection of the blood): fever, dizziness, chills, little or no urine, low blood pressure, palpitations, fast heart rate, rapid breathing, high or very low body temperature		√	
Urinary tract infection (infection in urinary system including kidneys, ureters, bladder and urethra): frequent urination, pain or burning sensation while urinating, blood in the urine, pain in the pelvis, strong smelling urine, cloudy urine		√	

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UNCOMMON		
Cardiogenic shock (heart is not able to pump enough blood to the organs of the body): rapid breathing and severe shortness of breath, fast heartbeat, bulging of large veins in neck, loss of consciousness, swelling of feet, sweating, pale skin, cold hands or feet		✓
Cardiorespiratory arrest (heart has stopped pumping blood caused by an electrical problem in the heart): chest pain, rapid or irregular heartbeats, shortness of breath, fainting, dizziness, sudden collapse, unresponsive to touch or sound, not breathing or making gasping sounds		✓
Hemorrhagic shock (shock from severe blood loss): rapid breathing and heartbeat, dizziness, confusion, weakness, low blood pressure, less urine than normal, cold clammy skin, thirst and dry mouth, blue lips and fingertips		✓
Hemorrhagic stroke (bleeding in the brain): loss of consciousness, nausea, vomiting, severe sudden headache, seizures, weakness on one side of body (face, leg or arm), dizziness, difficulty speaking or understanding others		✓
Pancreatitis (inflammation of the pancreas): upper abdominal pain, nausea, vomiting, fever, rapid pulse, tenderness when touching abdomen	✓	
Rectal hemorrhage (bleeding from the rectum): abdominal pain, blood in your bowel movement, dizziness, fainting, rectal pain	✓	
UNKNOWN		
Cancers including lymphoma (cancer of the lymphatic system)	✓	
Deep vein thrombosis (blood clot in the deep veins of the leg or arm): swelling, pain, arm or leg may be warm to the touch and may appear red which is caused by a blood clot in the deep veins of the leg or arm	√	
Pulmonary embolism (blood clot in the lung): chest pain that may increase with deep breathing, cough, coughing up bloody sputum, shortness of breath	√	
Myocardial infarction (heart attack): pressure or squeezing pain between the shoulder blades, in the chest, jaw, left arm or upper abdomen,	✓	

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shortness of breath, dizziness, fatigue, light- headedness, clammy skin, sweating, indigestion, anxiety, feeling faint and possible irregular		
heartbeat.		

If you have a troublesome symptom or side effect that is not listed here or becomes bad enough to interfere with your daily activities, tell your healthcare professional.

Reporting Side Effects

You can report any suspected side effects associated with the use of health products to Health Canada by:

- Visiting the Web page on Adverse Reaction Reporting
 (https://www.canada.ca/en/health-canada/services/drugs-health-products/medeffect-canada/adverse-reaction-reporting.html) for information on how to report online, by mail or by fax; or
- Calling toll-free at 1-866-234-2345.

NOTE: Contact your health professional if you need information about how to manage your side effects. The Canada Vigilance Program does not provide medical advice.

Storage:

- Store at room temperature (between 15 to 30°C).
- Keep out of reach and sight of children.

Do not throw away any medicines via wastewater or household waste. Ask your pharmacist how to dispose of any unused INREBIC.

If you want more information about INREBIC:

- Talk to your healthcare professional
 - Find the full product monograph that is prepared for healthcare professionals and includes this Patient Medication Information by visiting the Health Canada website:
 (https://www.canada.ca/en/health-canada/services/drugs-health-products/drug-products/drug-product-database.html; the manufacturer's website https://www.bms.com/ca/en, or by contacting the sponsor, Bristol-Myers Squibb Canada at: 1-866-463-6267.
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