#### POMALIDOMIDE - pomalidomide capsule Natco Pharma Limited

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#### HIGHLIGHTS OF PRESCRIBING INFORMATION

These highlights do not include all the information needed to use POMALIDOMIDE CAPSULES safely and effectively. See full prescribing information for POMALIDOMIDE CAPSULES.

POMALIDOMIDE capsules, for oral use

Initial U.S. Approval: 2013

# WARNING: EMBRYO-FETAL TOXICITY and VENOUS AND ARTERIAL THROMBOEMBOLISM See full prescribing information for complete boxed warning EMBRYO-FETAL TOXICITY

- Pomalidomide capsules are contraindicated in pregnancy. Pomalidomide capsules are a thalidomide analogue. Thalidomide is a known human teratogen that causes severe life-threatening birth defects (4, 5.1, 8.1).
- For females of reproductive potential: Exclude pregnancy before start of treatment. Prevent pregnancy during treatment by the use of 2 reliable methods of contraception (5.1, 8.3).

Pomalidomide capsules are available only through a restricted program called PS-Pomalidomide REMS (5.2).

#### **VENOUS AND ARTERIAL THROMBOEMBOLISM**

 Deep venous thrombosis (DVT), pulmonary embolism (PE), myocardial infarction, and stroke occur in patients with multiple myeloma treated with pomalidomide capsules. Antithrombotic prophylaxis is recommended (5.3).

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RECENT MAJOR CHANGES  Boxed Warning 2/2025 Varnings and Precautions (5.1,5.2) 2/2025						
<ul> <li>in combination with dexamethaleast two prior therapies includidisease progression on or within with AIDS-related Kaposi sarcorpatients with KS who are HIV-nethaleast combined to the same of the sam</li></ul>	idomide analogue indicated for the treatment of adult patients: sone, for patients with multiple myeloma (MM) who have received at ing lenalidomide and a proteasome inhibitor and have demonstrated in 60 days of completion of the last therapy (1.1). In a (KS) after failure of highly active antiretroviral therapy (HAART) or in egative. This indication is approved under accelerated approval based or d approval for this indication may be contingent upon verification and a confirmatory trial(s) (1.2).					
	DOSAGE AND ADMINISTRATION					
progression (2.2). Refer to sect	on Days 1 through 21 of repeated 28-day cycles until disease ion 14.1 for dexamethasone dosing (14.1). n Days 1 through 21 of repeated 28-day cycles until disease progression					

Modify the dosage for certain patients with renal impairment (2.7, 8.6) or hepatic impairment (2.8, 8.7).

Capsules: 1 mg, 2 mg, 3 mg, and 4 mg (3)

------CONTRAINDICATIONS

- Pregnancy (4.1)
- Hypersensitivity (4.2)

#### -------WARNINGS AND PRECAUTIONS ------

- Increased Mortality: Observed in patients with MM when pembrolizumab was added to dexamethasone and a thalidomide analogue (5.4).
- Hematologic Toxicity: Neutropenia was the most frequently reported Grade 3/4 adverse event. Monitor
  patients for hematologic toxicities, especially neutropenia (5.5).
- Hepatotoxicity: Hepatic failure including fatalities; monitor liver function tests monthly (5.6).
- Severe Cutaneous Reactions: Discontinue pomalidomide capsules for severe reactions (5.7).
- Tumor Lysis Syndrome (TLS): Monitor patients at risk of TLS (i.e., those with high tumor burden) and take appropriate precautions (5.11).
- Hypersensitivity: Monitor patients for potential hypersensitivity. Discontinue pomalidomide capsules for angioedema and anaphylaxis (5.12).

#### ADVERSE REACTIONS ......

- MM: Most common adverse reactions (≥30%) included fatigue and asthenia, neutropenia, anemia, constipation, nausea, diarrhea, dyspnea, upper-respiratory tract infections, back pain, and pyrexia (6.1).
- KS: Most common adverse reactions including laboratory abnormalities (≥30%) are decreased
  absolute neutrophil count or white blood cells, elevated creatinine or glucose, rash, constipation,
  fatigue, decreased hemoglobin, platelets, phosphate, albumin, or calcium, increased ALT, nausea, and
  diarrhea (6.1).

To report SUSPECTED ADVERSE REACTIONS, contact Breckenridge Pharmaceutical Inc. at 1-800-367-3395 or FDA at 1-800-FDA-1088 or www.fda.gov/medwatch.

# DRUG INTERACTIONS Strong CYP1A2 Inhibitors: Avoid concomitant use of strong CYP1A2 inhibitors. If concomitant use of a strong CYP1A2 inhibitor is unavoidable, reduce pomalidomide capsules dose to 2 mg (2.6, 7.1, 12.3). USE IN SPECIFIC POPULATIONS Lactation: Advise women not to breastfeed (8.2). See 17 for PATIENT COUNSELING INFORMATION.

Revised: 11/2025

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#### **FULL PRESCRIBING INFORMATION**

#### **BOXED WARNING**

# WARNING: EMBRYO-FETAL TOXICITY and VENOUS AND ARTERIAL THROMBOEMBOLISM

#### **Embryo-Fetal Toxicity**

- Pomalidomide capsules are contraindicated in pregnancy.
   Pomalidomide capsules are a thalidomide analogue. Thalidomide is a known human teratogen that causes severe birth defects or embryofetal death. In females of reproductive potential, obtain 2 negative pregnancy tests before starting pomalidomide capsules treatment.
- Females of reproductive potential must use 2 forms of contraception or continuously abstain from heterosexual sex during and for 4 weeks after stopping pomalidomide capsules treatment [see Contraindications (4), Warnings and Precautions (5.1) and Use in Specific Populations (8.1,8.3)].

Pomalidomide capsules are only available through a restricted distribution program called PS-Pomalidomide REMS [see <u>Warnings and Precautions (5.2)</u>]. Information about PS-Pomalidomide REMS is available at www.PS-PomalidomideREMS.com or by calling the REMS Call Center at 1-888-423-5436.

#### Venous and Arterial Thromboembolism

Deep venous thrombosis (DVT), pulmonary embolism (PE), myocardial infarction, and stroke occur in patients with multiple myeloma treated with pomalidomide capsules. Prophylactic antithrombotic measures were employed in clinical trials. Thromboprophylaxis is recommended, and the choice of regimen should be based on assessment of the patient's underlying risk factors [see <u>Warnings and Precautions</u> (5.3)].

#### 1 INDICATIONS AND USAGE

#### 1.1 Multiple Myeloma

Pomalidomide, in combination with dexamethasone, are indicated for adult patients with multiple myeloma (MM) who have received at least two prior therapies including lenalidomide and a proteasome inhibitor and have demonstrated disease progression on or within 60 days of completion of the last therapy.

#### 1.2 Kaposi Sarcoma

Pomalidomide capsules are indicated for the treatment of:

- Adult patients with AIDS-related Kaposi sarcoma (KS) after failure of highly active antiretroviral therapy (HAART).
- Kaposi sarcoma (KS) in adult patients who are HIV-negative.

This indication is approved under accelerated approval based on overall response rate [see Clinical Studies (14.2)]. Continued approval for this indication may be contingent

#### 2 DOSAGE AND ADMINISTRATION

#### 2.1 Pregnancy Testing Prior to Administration

Females of reproductive potential must have negative pregnancy testing and use contraception methods before initiating pomalidomide capsules [see Warnings and Precautions (5.1) and Use in Specific Populations (8.1, 8.3)].

# 2.2 Recommended Dosage for Multiple Myeloma

The recommended dosage of pomalidomide capsules is 4 mg once daily orally with or without food on Days 1 through 21 of each 28-day cycle until disease progression. Give pomalidomide capsules in combination with dexamethasone [see Clinical Studies (14.1)].

# 2.3 Recommended Dosage for Kaposi Sarcoma

The recommended dosage of pomalidomide capsules is 5 mg once daily taken orally with or without food on Days 1 through 21 of each 28-day cycle until disease progression or unacceptable toxicity. Continue HAART as HIV treatment in patients with AIDS-related Kaposi sarcoma (KS) [see Clinical Studies (14.2)].

## 2.4 Dosage Modifications for Hematologic Adverse Reactions

<u>Multiple Myeloma: Dosage Modifications for Hematologic Adverse Reactions</u> Initiate a new cycle of pomalidomide capsules in patients with multiple myeloma (MM) when the neutrophil count is at least 500 per mcL and the platelet count is at least 50,000 per mcL.

Dosage modification for pomalidomide capsules for hematologic adverse reactions in patients with MM are summarized in Table 1.

Table 1: Dosage Modifications for pomalidomide capsules for Hematologic in  $\ensuremath{\mathsf{MM}}$ 

Adverse Reaction	Severity	Dosage Modification
Neutropenia [see Warnings and Precautions (5.5)]	ANC less than 500 per mcL or febrile neutropenia (fever greater than or equal to 38.5°C and ANC less than 1,000 per mcL)	Withhold pomalidomide capsules until ANC is greater than or equal to 500 per mcL; follow CBC weekly.     Resume pomalidomide capsules dose at 1 mg less than the previous dose. *
	For each subsequent drop of ANC less than 500 per mcL	<ul> <li>Withhold pomalidomide capsules until ANC is greater than or equal to 500 mcL.</li> <li>Resume pomalidomide capsules dose at 1 mg less than the previous dose. *</li> </ul>
Thrombocytopenia [see Warnings and Precautions (5.5)]	Platelets less than 25,000 per mcL	<ul> <li>Withhold pomalidomide capsules until platelets are greater than or equal to 50,000 per mcL; follow CBC weekly.</li> <li>Resume pomalidomide capsules dose at 1 mg less than the previous dose*</li> </ul>

drop of platelets less mcL. than 25,000 per mcL • Resume pomalidomid		drop of platelets less	Resume pomalidomide capsules at 1 mg less
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<sup>\*</sup> Permanently discontinue pomalidomide capsules if unable to tolerate 1 mg once daily. ANC= absolute neutrophil count

<u>Kaposi Sarcoma: Dosage Modifications for Hematologic Adverse Reactions</u> Initiate a new cycle of pomalidomide capsules in patients with KS when the neutrophil count is at least 1000 per mcL and the platelet count is at least 75,000 per mcL.

Dose modifications for pomalidomide capsules for hematologic adverse reactions in patients with KS are summarized in Table 2.

Table 2: Dosage Modifications for Pomalidomide Capsules for Hematologic Adverse Reactions in KS

Adverse Reaction	Severity	Dosage Modification
Neutropenia [seeWarnings and Precautions (5.5)]	ANC 500 to less than1,000 per mcL	Day 1 of cycle  Withhold pomalidomide capsules until ANC is greater than or equal to 1,000 per mcL.  Resume pomalidomide capsules at the same dose.  During cycle  Continue pomalidomide capsules at the current dose.
	ANC less than 500 per mcL	<ul> <li>Withhold pomalidomide capsules until ANC is greater than or equal to 1,000 per mcL.</li> <li>Resume pomalidomide capsules at the same dose.</li> </ul>
Febrile Neutropenia [see Warnings and Precautions (5.5)]	ANC less than 1,000 per mcL and single temperature greater than or equal to 38.3°C or ANC less than 1,000 per mcL and sustained temperature greater than or equal to 38°C for more than 1 hour	<ul> <li>Withhold pomalidomide capsules until ANC is greater than or equal to 1,000 per mcL.</li> <li>Resume pomalidomide capsules at dose 1 mg less than the previous dose.*</li> </ul>
Thrombocytopenia [seeWarnings and Precautions (5.5)]	Platelet count 25,000 to less than 50,000 per mcL	<ul> <li>Day 1 of cycle</li> <li>Withhold pomalidomide capsules until platelet count is greater than or equal to 50,000 per mcL.</li> <li>Resume pomalidomide capsules at the same dose.</li> <li>During cycle:</li> </ul>

	<ul> <li>Continue pomalidomide capsules at the current dose.</li> </ul>
Platelet count less than 25,000	Permanently discontinue
per mcL	pomalidomide capsules.

<sup>\*</sup> Permanently discontinue pomalidomide capsules if unable to tolerate 1mg once daily. ANC= absolute neutrophil count

#### 2.5 Dosage Modifications for Non-Hematologic Adverse Reactions

Permanently discontinue pomalidomide capsules for angioedema, anaphylaxis, Grade 4 rash, skin exfoliation, bullae, or any other severe dermatologic reaction [See Warnings and Precautions (5.7, 5.12)].

For other Grade 3 or 4 toxicities, hold treatment and restart treatment at 1 mg less than the previous dose when toxicity has resolved to less than or equal to Grade 2 at the physician's discretion.

# 2.6 Dosage Modifications for Strong CYP1A2 Inhibitors

Avoid concomitant use of pomalidomide capsules with strong CYP1A2 inhibitors. If concomitant use of a strong CYP1A2 inhibitor is unavoidable, reduce pomalidomide capsules dose to 2 mg [see Drug Interactions (7.1) and Clinical Pharmacology (12.3)].

# 2.7 Dosage Modification for Severe Renal Impairment on Hemodialysis

Take pomalidomide capsules after completion of dialysis procedure on hemodialysis days [see Use in Specific Populations (8.6) and Clinical Pharmacology (12.3)].

- For patients with MM with severe renal impairment requiring dialysis, reduce the recommended dosage to 3 mg orally daily.
- For patients with KS with severe renal impairment requiring dialysis, reduce the recommended dosage to 4 mg orally daily.

## 2.8 Dosage Modification for Hepatic Impairment

#### Multiple Myeloma

For patients with MM with mild or moderate hepatic impairment (Child-Pugh A or B), reduce the recommended dosage to 3 mg orally daily.

For patients with MM with severe hepatic impairment (Child-Pugh C), reduce the recommended dosage to 2 mg [see Use in Specific Populations (8.7) and Clinical Pharmacology (12.3)].

#### Kaposi Sarcoma

For patients with KS with mild, moderate, or severe hepatic impairment (Child-Pugh A, B, or C), reduce the recommended dosage to 3 mg orally daily [see Use in Specific Populations (8.7) and Clinical Pharmacology (12.3)].

#### 2.9 Administration

Swallow capsules whole with water. Do not break, chew, or open the capsules.

Pomalidomide capsules may be taken with or without food

#### **3 DOSAGE FORMS AND STRENGTHS**

Pomalidomide capsules are available in the following capsule strengths:

- 1 mg: Dark blue cap and yellow body printed with "NAT" with white ink on cap and "1mg" with black ink on body of the capsule
- 2 mg: Dark blue cap and orange body printed with "NAT" with white ink on cap and "2mg" with white ink on body of the capsule
- 3 mg: Dark blue cap and green body printed with "NAT" with white ink on cap and "3mg" with white ink on body of the capsule
- 4 mg: Dark blue cap and blue body printed with "NAT" with white ink on cap and "4mg" with white ink on body of the capsule

#### 4.1 Pregnancy

Pomalidomide capsules are contraindicated in females who are pregnant. Pomalidomide capsules can cause fetal harm when administered to a pregnant female [see Warnings and Precautions (5.1) and Use in Specific Populations (8.1)]. Pomalidomide is a thalidomide analogue and is teratogenic in both rats and rabbits when administered during the period of organogenesis. If the patient becomes pregnant while taking this drug, the patient should be apprised of the potential risk to a fetus.

#### 4.2 Hypersensitivity

Pomalidomide Capsules are contraindicated in patients who have demonstrated severe hypersensitivity (e.g., angioedema, anaphylaxis) to pomalidomide or any of the excipients [see Warnings and Precautions (5.7), Description (11)].

#### **5 WARNINGS AND PRECAUTIONS**

#### 5.1 Embryo-Fetal Toxicity

Pomalidomide capsules are a thalidomide analogue and are contraindicated for use during pregnancy. Thalidomide is a known human teratogen that causes severe birth defects or embryo-fetal death [see Use in Specific Populations (8.1)]. Pomalidomide capsules are only available through PS-Pomalidomide REMS [see Warnings and Precautions (5.2)].

#### Females of Reproductive Potential

Females of reproductive potential must avoid pregnancy for at least 4 weeks before beginning Pomalidomide Capsules therapy, during therapy, during dose interruptions and for at least 4 weeks after completing therapy.

Females must commit either to abstain continuously from heterosexual sexual intercourse or to use 2 methods of reliable birth control, beginning 4 weeks prior to initiating treatment with pomalidomide capsules, during therapy, during dose interruptions, and continuing for 4 weeks following discontinuation of pomalidomide capsules therapy.

Two negative pregnancy tests must be obtained prior to initiating therapy. The first test should be performed within 10-14 days and the second test within 24 hours prior to prescribing pomalidomide capsules therapy and then weekly during the first month, then monthly thereafter in females with regular menstrual cycles, or every 2 weeks in females with irregular menstrual cycles [see Use in Specific Populations (8.3)].

#### Males

Pomalidomide is present in the semen of patients receiving the drug. Therefore, males must always use a latex or synthetic condom during any sexual contact with females of reproductive potential while taking pomalidomide capsules and for up to 4 weeks after discontinuing pomalidomide capsules, even if they have undergone a successful vasectomy. Male patients taking pomalidomide capsules must not donate sperm [see Use in Specific Populations (8.3)].

# **Blood Donation**

Patients must not donate blood during treatment with pomalidomide capsules and for 4 weeks following discontinuation of the drug because the blood might be given to a pregnant female patient whose fetus must not be exposed to pomalidomide capsules.

#### 5.2 PS-Pomalidomide REMS

Because of the embryo-fetal risk [see Warnings and Precautions (5.1)], pomalidomide capsules are available only through a restricted program under a Risk Evaluation and Mitigation Strategy (REMS), "PS-Pomalidomide REMS".

Required components of **PS-Pomalidomide REMS** include the following:

 Prescribers must be certified with PS-Pomalidomide REMS by enrolling and complying with the REMS requirements.

- Patients must sign a Patient-Physician Agreement Form and comply with the REMS requirements. In particular, female patients of reproductive potential who are not pregnant must
  - comply with the pregnancy testing and contraception requirements [see Use in Specific Populations (8.3)] and males must comply with contraception requirements [see Use in Specific Populations (8.3)].
- Pharmacies must be certified with PS-Pomalidomide REMS, must only dispense to patients who are authorized to receive pomalidomide capsules and comply with REMS requirements.

Further information about **PS-Pomalidomide REMS** is available at www.PS-PomalidomideREMS.com or by telephone at 1-888-423-5436.

#### 5.3 Venous and Arterial Thromboembolism

Venous thromboembolic events (deep venous thrombosis and pulmonary embolism) and arterial thromboembolic events (myocardial infarction and stroke) have been observed in patients treated with pomalidomide capsules. In Trial 2, where anticoagulant therapies were mandated, thromboembolic events occurred in 8.0% of patients treated with pomalidomide capsules and low dose-dexamethasone (Low-dose Dex), and 3.3% of patients treated with high-dose dexamethasone. Venous thromboembolic events (VTE) occurred in 4.7% of patients treated with pomalidomide capsules and Low-dose Dex, and 1.3% of patients treated with high-dose dexamethasone. Arterial thromboembolic events include terms for arterial thromboembolic events, ischemic cerebrovascular conditions, and ischemic heart disease. Arterial thromboembolic events occurred in 3.0% of patients treated with pomalidomide capsules and Low-dose Dex, and 1.3% of patients treated with high-dose dexamethasone.

Patients with known risk factors, including prior thrombosis, may be at greater risk, and actions should be taken to try to minimize all modifiable factors (e.g., hyperlipidemia, hypertension, smoking). Thromboprophylaxis is recommended, and the choice of regimen should be based on assessment of the patient's underlying risk factors.

# 5.4 Increased Mortality in Patients with Multiple Myeloma When Pembrolizumab Is Added to a Thalidomide Analogue and Dexamethasone

In two randomized clinical trials in patients with MM, the addition of pembrolizumab to a thalidomide analogue plus dexamethasone, a use for which no PD-1 or PD-L1 blocking antibody is indicated, resulted in increased mortality. Treatment of patients with MM with a PD-1 or PD-L1 blocking antibody in combination with a thalidomide analogue plus dexamethasone is not recommended outside of controlled clinical trials.

# 5.5 Hematologic Toxicity

## Multiple Myeloma

\_In trials 1 and 2 in patients who received pomalidomide + Low-dose Dex, neutropenia was the most frequently reported Grade 3 or 4 adverse reaction, followed by anemia and thrombocytopenia. Neutropenia of any grade was reported in 51% of patients in both trials. The rate of Grade 3 or 4 neutropenia was 46%. The rate of febrile neutropenia was 8%.

Monitor patients for hematologic toxicities, especially neutropenia. Monitor complete blood counts weekly for the first 8 weeks and monthly thereafter. Patients may require dose interruption and/or modification [see Dosage and Administration (2.4)].

# Kaposi Sarcoma

In Trial 12-C-0047, hematologic toxicities were the most common (all grades and Grade 3 or 4) adverse reactions [see Adverse Reactions (6.1)]. Fifty percent of patients had Grade 3 or 4 neutropenia. Monitor patients for hematologic toxicities, especially decreased neutrophils. Monitor complete blood counts every 2 weeks for the first 12 weeks and monthly thereafter. Withhold, reduce the dose, or permanently discontinue pomalidomide based on the severity of the reaction [see Dosage and Administration (2.4)].

#### 5.6 Hepatotoxicity

Hepatic failure, including fatal cases, has occurred in patients treated with pomalidomide capsules. Elevated levels of alanine aminotransferase and bilirubin have also been observed in patients treated with pomalidomide capsules. Monitor liver function tests monthly. Stop pomalidomide capsules upon elevation of liver enzymes and evaluate. After return to baseline values, treatment at a lower dose may be considered.

#### 5.7 Severe Cutaneous Reactions

Severe cutaneous reactions including Stevens-Johnson syndrome (SJS), toxic epidermal necrolysis (TEN), and drug reaction with eosinophilia and systemic symptoms (DRESS) have been reported. DRESS may present with a cutaneous reaction (such as rash or exfoliative dermatitis), eosinophilia, fever, and/or lymphadenopathy with systemic complications such as hepatitis, nephritis, pneumonitis, myocarditis, and/or pericarditis. These reactions can be fatal. Consider pomalidomide capsules interruption or discontinuation for Grade 2 or 3 skin rash. Permanently discontinue pomalidomide capsules for Grade 4 rash, exfoliative or bullous rash, or for other severe cutaneous reactions such as SJS, TEN or DRESS [see Dosage and Administration (2.5)].

#### 5.8 Dizziness and Confusional State

In trials 1 and 2 in patients who received pomalidomide capsules + Low-dose Dex, 14% of patients experienced dizziness and 7% of patients experienced a confusional state; 1% of patients experienced Grade 3 or 4 dizziness, and 3% of patients experienced Grade 3 or 4 confusional state. Instruct patients to avoid situations where dizziness or confusional state may be a problem and not to take other medications that may cause dizziness or confusional state without adequate medical advice.

## 5.9 Neuropathy

In trials 1 and 2 in patients who received pomalidomide capsules + Low-dose Dex, 18% of patients experienced neuropathy, with approximately 12% of the patients experiencing peripheral neuropathy. Two percent of patients experienced Grade 3 neuropathy in trial 2. There were no cases of Grade 4 neuropathy adverse reactions reported in either trial.

## 5.10 Risk of Second Primary Malignancies

Cases of acute myelogenous leukemia have been reported in patients receiving pomalidomide capsules as an investigational therapy outside of MM.

# 5.11 Tumor Lysis Syndrome

Tumor lysis syndrome (TLS) may occur in patients treated with pomalidomide. Patients at risk for TLS are those with high tumor burden prior to treatment. These patients should be monitored closely and appropriate precautions taken.

# 5.12 Hypersensitivity

Hypersensitivity, including angioedema, anaphylaxis, and anaphylactic reactions to pomalidomide capsules have been reported. Permanently discontinue pomalidomide capsules for angioedema or anaphylaxis [see Dosage and Administration (2.5)].

#### **6 ADVERSE REACTIONS**

The following clinically significant adverse reactions are described in detail in other labeling sections:

- Embryo-Fetal Toxicity [see Warnings and Precautions (5.1, 5.2)]
- Venous and Arterial Thromboembolism [see Warnings and Precautions (5.3)]
- Increased Mortality in Patients with Multiple Myeloma When Pembrolizumab Is Added to a Thalidomide Analogue and Dexamethasone [see Warnings and Precautions (5.4)]
- Hematologic Toxicity [see Warnings and Precautions (5.5)]
- Hepatotoxicity [see Warnings and Precautions (5.6)]
- Severe Cutaneous Reactions [see Warnings and Precautions (5.7)]

- Dizziness and Confusional State [see Warnings and Precautions (5.8)]
- Neuropathy [see Warnings and Precautions (5.9)]
- Risk of Second Primary Malignancies [see Warnings and Precautions (5.10)]
- Tumor Lysis Syndrome [seeWarnings and Precautions (5.11)]
- Hypersensitivity [see Warnings and Precautions (5.12)].

# 6.1 Clinical Trials Experience

Because clinical trials are conducted under widely varying conditions, adverse reaction rates observed in the clinical trials of a drug cannot be directly compared to rates in the clinical trials of another drug and may not reflect the rates observed in practice.

#### Multiple Myeloma (MM)

In Trial 1, data were evaluated from 219 patients (safety population) who received treatment with Pomalidomide + Low-dose Dex (112 patients) or pomalidomide alone (107 patients). Median number of treatment cycles was 5. Sixty-seven percent of patients in the study had a dose interruption of either drug due to adverse reactions. Forty-two percent of patients in the study had a dose reduction of either drug due to adverse reactions. The discontinuation rate due to adverse reactions was 11%.

In Trial 2, data were evaluated from 450 patients (safety population) who received treatment with Pomalidomide + Low-dose Dex (300 patients) or High-dose Dexamethasone (High-dose Dex) (150 patients). The median number of treatment cycles for the Pomalidomide + Low-dose Dex arm was 5. In the Pomalidomide + Low-dose Dex arm, 67% of patients had a dose interruption of pomalidomide capsules, the median time to the first dose interruption of pomalidomide was 4.1 weeks. Twenty-seven percent of patients had a dose reduction of pomalidomide, the median time to the first dose reduction of pomalidomide was 4.5 weeks. Eight percent of patients discontinued pomalidomide due to adverse reactions.

Tables 3 and 4 summarize the adverse reactions reported in Trials 1 and 2, respectively.

Table 3: Adverse Reactions in Any Pomalidomide Capsules Treatment Arm in Trial  $\mathbf{1}^*$ 

	All Adverse Re in Either		Grade 3 or 4 ≥5% in Either Arm		
<b>Body System</b> Adverse Reaction	Pomalidomide <sup>a</sup> (N=107)	Pomalidomide + Low-dose Dex (N=112)	Pomalidomide (N=107)	Pomalidomide + Low-dose Dex (N=112)	
Number (%) of patients with at least one adverse reaction	107 (100)	112 (100)	98 (92)	102 (91)	
Blood and lymphatic	system disorder	'S			
Neutropenia <sup>b</sup>	57 (53)	55 (49)	51 (48)	46 (41)	
Anemia <sup>b</sup>	41 (38)	47 (42)	25 (23)	24 (21)	
Thrombocytopenia <sup>b</sup>	28 (26)	26 (23)	24 (22)	21 (19)	
Leukopenia	14 (13)	22 (20)	7 (7)	11 (10)	
Fahrila nautronania b					

телне печи орена -	<10%	<10%	6 (6)	3 (3)
Lymphopenia	4 (4)	17 (15)	2 (2)	8 (7)
General disorders and	d administration	site condition	ıs	
Fatigue and asthenia <sup>b</sup>	62 (58)	70 (63)	13 (12)	19 (17)
Edema peripheral	27 (25)	19 (17)	0 (0.0)	0 (0.0)
Pyrexia <sup>b</sup>	25 (23)	36 (32)	<5%	<5%
Chills  Gastrointestinal  disorders	11 (10)	14 (13)	0 (0.0)	0 (0.0)
Nausea <sup>b</sup>	39 (36)	27 (24)	<5%	<5%
Constipation <sup>b</sup>	38 (36)	41 (37)	<5%	<5%
Diarrhea	37 (35)	40 (36)	<5%	<5%
Vomiting <sup>b</sup>	15 (14)	16 (14)	<5%	0 (0.0)
Musculoskeletal and o	connective tissu	e disorders		
Back pain <sup>b</sup>	37 (35)	36 (32)	15 (14)	11 (10)
Musculoskeletal chest pain	25 (23)	22 (20)	<5%	0 (0.0)
Muscle spasms	23 (21)	22 (20)	<5%	<5%
Arthralgia	18 (17)	17 (15)	<5%	<5%
Muscular weakness	15 (14)	15 (13)	6 (6)	4 (4)
Bone pain	13 (12)	8 (7)	<5%	<5%
Musculoskeletal pain	13 (12)	19 (17)	<5%	<5%
Pain in extremity  Infections and infestations	8 (7)	16 (14)	0 (0.0)	<5%
Upper respiratory tract infection	40 (37)	32 (29)	<5%	<5%
Pneumonia <sup>b</sup>	30 (28)	38 (34)	21 (20)	32 (29)
Urinary tract infection <sup>b</sup>	11 (10)	19 (17)	2 (2)	10 (9)
Sepsis <sup>b</sup>	<10%	<10%	6 (6)	5 (4)
Metabolism and nutr	tion disorders			
Decreased appetite	25 (23)	21 (19)	<5%	0 (0.0)
Hypercalcemia <sup>b</sup>	23 (21)	13 (12)	11 (10)	1 (<1)
Hypokalemia	13 (12)	13 (12)	<5%	<5%
Hyperglycemia	12 (11)	17 (15)	<5%	<5%
Hyponatremia	12 (11)	14 (13)	<5%	<5%
Dehydration <sup>b</sup>	<10%	<10%	5 (4.7)	6 (5.4)
Hypocalcemia	6 (6)	13 (12)	0 (0.0)	<5%
Respiratory, thoracic	and mediastina	alsorders		
Dyspnea <sup>b</sup>	38 (36)	50 (45)	8 (7)	14 (13)
Cough	18 (17)	25 (22)	0 (0.0)	0 (0.0)

Epistaxis	18 (17)	12 (11)	<5%	0 (0.0)
Productive cough	10 (9)	14 (13)	0 (0.0)	0 (0.0)
Oropharyngeal pain	6 (6)	12 (11)	0 (0.0)	0 (0.0)
Nervous system disorders				
Dizziness	24 (22)	20 (18)	<5%	<5%
Peripheral neuropathy	23 (21)	20 (18)	0 (0.0)	0 (0.0)
Headache	16 (15)	15 (13)	0 (0.0)	<5%
Tremor	11 (10)	15 (13)	0 (0.0)	0 (0.0)
Skin and subcutaned	us tissue disor	ders	T	1
Rash	22 (21)	18 (16)	0 (0.0)	<5%
Pruritus	16 (15)	10 (9)	0 (0.0)	0 (0.0)
Dry skin	10 (9)	12 (11)	0 (0.0)	0 (0.0)
Hyperhidrosis	8 (7)	18 (16)	0 (0.0)	0 (0.0)
Night sweats	5 (5)	14 (13)	0 (0.0)	0 (0.0)
Investigations				
Blood creatinine increased <sup>b</sup>	20 (19)	11 (10)	6 (6)	3 (3)
Weight decreased	16 (15)	10 (9)	0 (0.0)	0 (0.0)
Weight increased	1 (<1)	12 (11)	0 (0.0)	0 (0.0)
Psychiatric disorders	3			
Anxiety	14 (13)	8 (7)	0 (0.0)	0 (0.0)
Confusional state <sup>b</sup>	13 (12)	15 (13)	6 (6)	3 (3)
Insomnia	7 (7)	18 (16)	0 (0.0)	0 (0.0)
Renal and urinary disorders				
Renal failure <sup>b</sup>	16 (15)	11 (10)	9 (8)	8 (7)

Data cutoff: 01 March 2013

Table 4: Adverse Reactions in Trial 2

	All Adverse Reactions (≥5% in Pomalidomide + Low- dose Dex arm, and at least 2% higher than the High- dose-Dex arm)		Grade 3 or 4 · (≥1% in Pomalidomide + Low dose Dex arm, and at least 1% higher than the High- dose-Dex arm)	
<b>Body System</b> Adverse Reaction	Pomalidomide + Low-dose Dex (N=300)	High- dose Dex (N=150)	Pomalidomide + Low-dose Dex (N=300)	High-dose Dex (N=150)
Number (%) of patients with at		1/0 (00)		

<sup>\*</sup> Regardless of attribution of relatedness to pomalidomide.

a Pomalidomide alone arm includes all patients randomized to the pomalidomide alone arm who took study drug; 61 of the 107 patients had dexamethasone added during the treatment period.

b Serious adverse reactions were reported in at least 2 patients in any pomalidomide treatment arm.

east one adverse	297 (99)	143 (33 <i>)</i>	259 (86)	127 (85)
eaction Blood and lympha	tic system disc	orders	<u> </u>	<u> </u>
Neutropenia <sup>b</sup>	154 (51)	31 (21)	145 (48)	24 (16)
Thrombocytopenia	89 (30) <sup>a</sup>	44 (29) <sup>a</sup>	66 (22) <sup>a</sup>	39 (26) <sup>a</sup>
Leukopenia	38 (13)	8 (5)	27 (9)	5 (3)
Febrile neutropenia <sup>b</sup>	28 (9)	0 (0.0)	28 (9)	0 (0.0)
General disorders	s and administr	ation site condi	tions	T
Fatigue and asthenia	140 (47)	64 (43)	26 (9) <sup>a</sup>	18 (12) <sup>a</sup>
Pyrexia <sup>b</sup>	80 (27)	35 (23)	9 (3) <sup>a</sup>	7 (5) <sup>a</sup>
Edema peripheral	52 (17)	17 (11)	4 (1) a	3 (2) <sup>a</sup>
Pain	11 (4) <sup>a</sup>	3 (2) <sup>a</sup>	5 (2)	1 (<1)
Infections and in	festations			
Upper respiratory tract infection <sup>b</sup>	93 (31)	19 (13)	9 (3)	1 (<1)
Pneumonia <sup>b</sup>	58 (19)	20 (13)	47 (16)	15 (10)
Neutropenic sepsis <sup>b</sup>	3 (1) <sup>a</sup>	0 (0.0) <sup>a</sup>	3 (1)	0 (0.0)
Gastrointestinal	disorders			
Diarrhea	66 (22)	28 (19)	3 (1) <sup>a</sup>	2 (1) <sup>a</sup>
Constipation	65 (22)	22 (15)	7 (2)	0 (0.0)
Nausea	45 (15)	17 (11)	3 (1) <sup>a</sup>	2 (1) <sup>a</sup>
Vomiting	23 (8)	6 (4)	3 (1)	0 (0.0)
Musculoskeletal	and connective	e tissue disorde	rs	T
Back pain <sup>b</sup>	59 (20)	24 (16)	15 (5)	6 (4)
Bone pain <sup>b</sup>	54 (18)	21 (14)	22 (7)	7 (5)
Muscle spasms	46 (15)	11 (7)	1 (<1)a	1 (<1) a
Arthralgia	26 (9)	7 (5)	2 (<1)a	1 (<1) a
Pain in extremity	20 (7) a	9 (6) <sup>a</sup>	6 (2)	0 (0.0)
Respiratory, tho	racic and media	astinai disorders	5	
Dyspnea <sup>b</sup>	76 (25)	25 (17)	17 (6)	7 (5)
Cough Chronic	60 (20)	15 (10)	2 (<1) <sup>a</sup>	1 (<1) <sup>a</sup>
obstructive pulmonary disease	5 (2) <sup>a</sup>	0 (0.0) <sup>a</sup>	4 (1)	0 (0.0)
Nervous system	disorders			
Peripheral neuropathy	52 (17)	18 (12)	5 (2) <sup>a</sup>	2 (1) <sup>a</sup>
Dizziness	37 (12)	14 (9)	4 (1) <sup>a</sup>	2 (1) <sup>a</sup>
Headache	23 (8)	8 (5)	1 (<1) <sup>a</sup>	0 (0.0) a
Tremor	17 (6)	2 (1)	2 (<1) <sup>a</sup>	0 (0.0) a
Depressed level of consciousness <b>Metabolism and</b>	5 (2) <sup>a</sup>	0 (0.0) <sup>a</sup>	3 (1)	0 (0.0)
Decreased appetite	38 (13)	12 (8)	3 (1) <sup>a</sup>	2 (1) <sup>a</sup>

Hypokalemia	28 (9) <sup>a</sup>	12 (8) <sup>a</sup>	12 (4)	4 (3)
Hypocalcemia	12 (4) <sup>a</sup>	9 (6) <sup>a</sup>	5 (2)	1 (<1)
Skin and subcuta	aneous tissue (	disorders		
Rash	23 (8)	2 (1)	3 (1)	0 (0.0)
Pruritus	22 (7)	5 (3)	0 (0.0) a	0 (0.0) a
Hyperhidrosis	15 (5)	1 (<1)	0 (0.0) <sup>a</sup>	0 (0.0) a
Investigations				
Neutrophil count				
decreased	15 (5)	1 (<1)	14 (5)	1 (<1)
Platelet count				
decreased	10 (3) <sup>a</sup>	3 (2) <sup>a</sup>	8 (3)	2 (1)
White blood cell				
count decreased	8 (3) <sup>a</sup>	1 (<1) a	8 (3)	0 (0.0)
Alanine				
aminotransferase	7 (2) <sup>a</sup>	2 (1) <sup>a</sup>	5 (2)	0 (0.0)
increased	, (=)	2 (1)	3 (2)	0 (0.0)
Aspartate aminotransferase increased	4 (1) <sup>a</sup>	2 (1) <sup>a</sup>	3 (1)	0 (0.0)
Lymphocyte count decreased	3 (1) <sup>a</sup>	1 (<1) a	3 (1)	0 (0.0)
Renal and urinar		_ ( '-/	J (-/	0 (0.0)
Renal failure	31 (10) <sup>a</sup>	18 (12) <sup>a</sup>	19 (6)	8 (5)
Injury, poisoning	and procedura	I complications		
Femur fracture b	5 (2) <sup>a</sup>	1 (<1) a	5 (2)	1 (<1)
Reproductive sys	tem and breas	t disorders		
Pelvic pain			4 (1)	0 (0.0)
3 D	1 1 1 Hz	ta da la araba a talina a c	.1	

<sup>&</sup>lt;sup>a</sup> Percentage did not meet the criteria to be considered as an adverse reaction for pomalidomide for that category of event (i.e., all adverse events or Grade 3 or 4 adverse events).

#### Other Adverse Reactions

Other adverse reactions of pomalidomide capsules in patients with MM, not described above, and considered important:

Cardiac Disorders: Myocardial infarction, Atrial fibrillation, Angina pectoris, Cardiac failure congestive

Ear and Labyrinth Disorders: Vertigo
Gastrointestinal disorders: Abdominal pain

General Disorders and Administration Site Conditions: General physical health deterioration, Non-cardiac chest pain, Multi-organ failure

Hepatobiliary Disorders: Hyperbilirubinemia

Infections and Infestations: Pneumocystis jiroveci pneumonia, Respiratory syncytial virus infection, Neutropenic sepsis, Bacteremia, Pneumonia respiratory syncytial viral, Cellulitis, Urosepsis, Septic shock, Clostridium difficile colitis, Pneumonia streptococcal, Lobar pneumonia, Viral infection, Lung infection

*Investigations*: Alanine aminotransferase increased, Hemoglobin decreased *Injury, poisoning and procedural complications*: Fall, Compression fracture, Spinal compression fracture

Metabolism and nutritional disorders: Hyperkalemia, Failure to thrive Nervous system disorders: Depressed level of consciousness, Syncope

Psychiatric disorders: Mental status change

<sup>&</sup>lt;sup>b</sup> Serious adverse reactions were reported in at least 3 patients in the POM + Low-dose Dex arm, AND at least 1% higher than the High-dose-Dex arm percentage.

Data cutoff: 01 March 2013

Renal and urinary disorders: Urinary retention, Hyponatremia

Reproductive system and breast disorders: Pelvic pain

Respiratory, thoracic, and mediastinal disorders: Interstitial lung disease, Pulmonary

embolism, Respiratory failure, Bronchospasm

Vascular disorders: Hypotension

#### Kaposi Sarcoma (KS)

The safety of pomalidomide capsules in patients with KS was evaluated in Trial 12-C-0047 [see Clinical Studies (14.2)]. Twenty-eight patients received pomalidomide capsules 5 mg taken orally once daily on Days 1 through 21 of repeated 28- day cycles. The study excluded patients with procoagulant disorders or a history of venous or arterial thromboembolism. Patients received DVT prophylaxis with daily low dose aspirin. Across all patients treated on Trial 12-C-0047, 75% were exposed to pomalidomide for 6 months or longer and 25% were exposed for greater than one year.

Serious adverse reactions occurred in 18% (5/28) of patients who received pomalidomide capsules. The following serious adverse reactions each occurred in 1 patient: anemia, decreased neutrophil count, and hematuria.

Permanent discontinuation due to an adverse reaction occurred in 11% (3/28) of patients who received pomalidomide capsules.

Dosage interruptions due to an adverse reaction occurred in 14% (4/28) of patients who received pomalidomide capsules. The most frequent adverse reaction requiring dosage interruption was decreased neutrophil count, which occurred in 3 patients.

The pomalidomide capsules dose was reduced due to an adverse reaction in  ${\bf 1}$  patient due to gout.

Tables 5 and 6 summarize the adverse reactions and select laboratory abnormalities reported in Trial 12-C-0047.

Table 5: Adverse Reactions (≥ 20%) in Patients Who Received Pomalidomide Capsules in Trial 12-C-0047

Adverse Reaction	Grades 1-4 N=28 %	Grade 3 or 4 N=28
Rash, maculo-papular	71	3.6
Constipation	71	0
Fatigue	68	0
Nausea	36	0
Diarrhea	32	3.6
Cough	29	0
Dyspnea	29	0
Peripheral Edema	29	3.6
Upper respiratory tract infection	29	0
Muscle spasms	25	0
Hypothyroidism	21	0
Dry skin	21	0

Chills	0.5	
	21	()

Table 6: Frequency of Select Laboratory Abnormalities (≥ 10%) Worsening from Baseline in Patients Who Received Pomalidomide Capsules in Trial 12-C-0047

Laboratory Abnormality	Grades 1-4*	Grades 3-4*
Laboratory Abrior Halley	%	%
Hematology		
Decreased Absolute Neutrophil Count	96	50
Decreased White Blood Cells	79	3.6
Decreased Hemoglobin	54	0
Decreased Platelets	54	0
Chemistry		
Elevated Creatinine	86	3.6
Elevated Glucose	57	7
Decreased Albumin	54	0
Decreased Phosphate	54	25
Decreased Calcium	50	0
Increased Alanine Aminotransferase (ALT)	32	0
Increased Aspartate Aminotransferase (AST)	25	0
Elevated Creatine Kinase	25	7
Decreased Magnesium	14	0
Elevated Alkaline Phosphate	14	3.6

<sup>\*</sup> Denominator is the number of patients for whom there is a baseline and at least one post baseline assessment for the laboratory parameter.

# 6.2 Postmarketing Experience

The following adverse reactions have been identified during post approval use of pomalidomide capsules. Because these reactions are reported voluntarily from a population of uncertain size, it is not always possible to reliably estimate their frequency or establish a causal relationship to drug exposure.

Blood and Lymphatic System Disorders: Pancytopenia

Endocrine Disorders: Hypothyroidism, hyperthyroidism

Gastrointestinal Disorders: Gastrointestinal hemorrhage

Hepatobiliary Disorders: Hepatic failure (including fatal cases), elevated liver enzymes

*Immune system Disorders:* Allergic reactions (e.g., angioedema, anaphylaxis, urticaria), solid organ transplant rejection

Infections and Infestations: Hepatitis B virus reactivation, Herpes zoster, progressive multifocal leukoencephalopathy (PML)

Neoplasms benign, malignant and unspecified (incl cysts and polyps): Tumor lysis syndrome, basal cell carcinoma, and squamous cell carcinoma of the skin

*Skin and Subcutaneous Tissue Disorders:* Stevens-Johnson Syndrome, toxic epidermal necrolysis, drug reaction with eosinophilia and systemic symptoms (DRESS)

#### **7 DRUG INTERACTIONS**

#### 7.1 Drugs That Affect Pomalidomide Plasma Concentrations

#### CYP1A2 inhibitors:

In healthy subjects, co-administration of fluvoxamine, a strong CYP1A2 inhibitor, increased  $C_{max}$  and AUC of pomalidomide by 24% and 125% respectively [see Clinical Pharmacology (12.3)]. Increased pomalidomide exposure may increase the risk of exposure related toxicities. Avoid co-administration of strong CYP1A2 inhibitors (e.g. ciprofloxacin and fluvoxamine). If co-administration is unavoidable, reduce the pomalidomide capsules dose [see Dosage and Administration (2.6)].

#### 8.1 Pregnancy

#### Pregnancy Exposure Registry

There is a pregnancy exposure registry that monitors pregnancy outcomes in females exposed to pomalidomide capsules during pregnancy as well as female partners of male patients who are exposed to pomalidomide capsules. This registry is also used to understand the root cause for the pregnancy. Report any suspected fetal exposure to pomalidomide capsules to the FDA via the MedWatch program at 1-800-FDA-1088 and also to the REMS Call Center at 1-888-423-¬5436.

#### Risk Summary

Based on the mechanism of action [see Clinical Pharmacology (12.1)] and findings from animal studies, pomalidomide capsules can cause embryo-fetal harm when administered to a pregnant female and is contraindicated during pregnancy [see Contraindications (4), and Warnings and Precautions (5.1)].

Pomalidomide capsules are a thalidomide analogue. Thalidomide is a human teratogen, inducing a high frequency of severe and life-threatening birth defects such as amelia (absence of limbs), phocomelia (short limbs), hypoplasticity of the bones, absence of bones, external ear abnormalities (including anotia, micropinna, small or absent external auditory canals), facial palsy, eye abnormalities (anophthalmos, microphthalmos), and congenital heart defects. Alimentary tract, urinary tract, and genital malformations have also been documented, and mortality at or shortly after birth has been reported in about 40% of infants.

Pomalidomide was teratogenic in both rats and rabbits when administered during the period of organogenesis. Pomalidomide crossed the placenta after administration to pregnant rabbits (see Data). If this drug is used during pregnancy or if the patient becomes pregnant while taking this drug, the patient should be apprised of the potential risk to a fetus.

If pregnancy does occur during treatment, immediately discontinue the drug. Under these conditions, refer patient to an obstetrician/gynecologist experienced in reproductive toxicity for further evaluation and counseling. Report any suspected fetal exposure to pomalidomide capsules to the FDA via the MedWatch program at 1-800-FDA-1088 and also to the REMS Call Center at 1-888-423-5436.

The estimated background risk of major birth defects and miscarriage for the indicated population is unknown. The estimated background risk in the U.S. general population of major birth defects is 2%-4% and of miscarriage is 15%-20% of clinically recognized pregnancies.

<u>Data</u> Animal Data

Pomalidomide was teratogenic in both rats and rabbits in the embryo-fetal developmental studies when administered during the period of organogenesis.

In rats, pomalidomide was administered orally to pregnant animals at doses of 25 to 1000 mg/kg/day. Malformations or absence of urinary bladder, absence of thyroid gland, and fusion and misalignment of lumbar and thoracic vertebral elements (vertebral, central, and/or neural arches) were observed at all dose levels. There was no maternal toxicity observed in this study. The lowest dose in rats resulted in an exposure (AUC) approximately 85-fold of the human exposure at the recommended dose of 4 mg/day. Other embryo-fetal toxicities included increased resorptions leading to decreased number of viable fetuses.

In rabbits, pomalidomide was administered orally to pregnant animals at doses of 10 to

250 mg/kg/day. Increased cardiac malformations such as interventricular septal defect were seen at all doses with significant increases at 250 mg/kg/day. Additional malformations observed at 250 mg/kg/day included anomalies in limbs (flexed and/or rotated fore- and/or hindlimbs, unattached or absent digit) and associated skeletal malformations (not ossified metacarpal, misaligned phalanx and metacarpal, absent digit, not ossified phalanx, and short not ossified or bent tibia), moderate dilation of the lateral ventricle in the brain, abnormal placement of the right subclavian artery, absent intermediate lobe in the lungs, low-set kidney, altered liver morphology, incompletely or not ossified pelvis, an increased average for supernumerary thoracic ribs, and a reduced average for ossified tarsals. No maternal toxicity was observed at the low dose (10 mg/kg/day) that resulted in cardiac anomalies in fetuses; this dose resulted in an exposure (AUC) approximately equal to that reported in humans at the recommended dose of 4 mg/day. Additional embryo-fetal toxicity included increased resorption.

Following daily oral administration of pomalidomide from Gestation Day 7 through Gestation Day 20 in pregnant rabbits, fetal plasma pomalidomide concentrations were approximately 50% of the maternal  $C_{\text{max}}$  at all dosages (5 to 250 mg/kg/day), indicating that pomalidomide crossed the placenta.

#### 8.2 Lactation

#### Risk Summary

There is no information regarding the presence of pomalidomide in human milk, the effects of pomalidomide capsules on the breastfed child, or the effects of pomalidomide capsules on milk production. Pomalidomide was excreted in the milk of lactating rats (see Data). Because many drugs are excreted in human milk and because of the potential for adverse reactions in a breastfed child from pomalidomide capsules, advise women not to breastfeed during treatment with pomalidomide capsules.

#### Data

# Animal Data

Following a single oral administration of pomalidomide to lactating rats approximately 14 days postpartum, pomalidomide was transferred into milk, with milk to plasma ratios of 0.63 to 1.46.

# 8.3 Females and Males of Reproductive Potential

#### **Pregnancy Testing**

Pomalidomide capsules can cause fetal harm when administered during pregnancy [see Use in Specific Populations (8.1)]. Verify the pregnancy status of females of reproductive potential prior to initiating pomalidomide capsules therapy and during therapy. Advise females of reproductive potential that they must avoid pregnancy 4 weeks before therapy, while taking pomalidomide capsules, during dose interruptions and for at least 4 weeks after completing therapy.

Females of reproductive potential must have 2 negative pregnancy tests before initiating pomalidomide capsules. The first test should be performed within 10-14 days, and the second test within 24 hours prior to prescribing pomalidomide capsules. Once treatment has started and during dose interruptions, pregnancy testing for females of reproductive potential should occur weekly during the first 4 weeks of use, then pregnancy testing should be repeated every 4 weeks in females with regular menstrual cycles. If menstrual cycles are irregular, the pregnancy testing should occur every 2 weeks. Pregnancy testing and counseling should be performed if a patient misses her period or if there is any abnormality in her menstrual bleeding. Pomalidomide capsules treatment must be discontinued during this evaluation.

#### Contraception

# Females

Females of reproductive potential must commit either to abstain continuously from heterosexual sexual intercourse or to use 2 methods of reliable birth control simultaneously: one highly effective form of contraception – tubal ligation, IUD, hormonal (birth control pills, injections, hormonal patches, vaginal rings, or implants), or partner's vasectomy, and 1 additional effective contraceptive method – male latex or synthetic condom, diaphragm, or cervical cap. Contraception must begin 4 weeks prior to initiating treatment with pomalidomide capsules, during therapy, during dose interruptions, and continuing for 4 weeks following discontinuation of pomalidomide capsules therapy. Reliable contraception is indicated even where there has been a

history of infertility, unless due to hysterectomy. Females of reproductive potential should be referred to a qualified provider of contraceptive methods, if needed.

#### Males

Pomalidomide is present in the semen of males who take pomalidomide capsules. Therefore, males must always use a latex or synthetic condom during any sexual contact with females of reproductive potential while taking pomalidomide capsules and for up to 4 weeks after discontinuing pomalidomide capsules, even if they have undergone a successful vasectomy. Male patients taking pomalidomide capsules must not donate sperm.

## <u>Infertility</u>

Based on findings in animals, female fertility may be compromised by treatment with pomalidomide capsules [see Nonclinical Toxicology (13.1)].

#### 8.4 Pediatric Use

The safety and effectiveness of pomalidomide capsules have not been established in pediatric patients. The safety and effectiveness were assessed but not established in two open-label studies: a dose escalation study in 25 pediatric patients aged 5 to <17 with recurrent, progressive or refractory CNS tumors [NCT02415153] and a parallel-group study conducted in 47 pediatric patients aged 4 to <17 years with recurrent or progressive high-grade glioma, medulloblastoma, ependymoma, or diffuse intrinsic pontine glioma (DIPG) [NCT03257631]. No new safety signals were observed in pediatric patients across these studies.

At the same dose by body surface area, pomalidomide exposure in 55 pediatric patients aged 4 to < 17 years old was within the range observed in adult patients with MM but higher than the exposure observed in adult patients with KS [see Clinical Pharmacology (12.3)].

#### 8.5 Geriatric Use

#### Multiple Myeloma

Of the total number of patients in clinical studies of pomalidomide capsules, 44% were aged older than 65 years, while 10% were aged older than 75 years. No overall differences in effectiveness were observed between these patients and younger patients. In these studies, patients older than 65 years were more likely than patients less than or equal to 65 years of age to experience pneumonia.

#### Kaposi Sarcoma

Of the 28 patients who received pomalidomide capsules, 11% were 65 years or older, and 3.6% were 75 years of age or older. The clinical study did not include sufficient numbers of patients aged 65 and over to determine whether they respond differently from younger patients.

#### 8.6 Renal Impairment

In patients with severe renal impairment requiring dialysis, the AUC of pomalidomide increased by 38% and the rate of SAE increased by 64% relative to patients with normal renal function; therefore, starting dose adjustment is recommended. For patients with severe renal impairment requiring dialysis, administer pomalidomide capsules after the completion of hemodialysis on dialysis days because exposure of pomalidomide could be significantly decreased during dialysis [see Dosage and Administration (2.7) and Clinical Pharmacology (12.3)].

#### 8.7 Hepatic Impairment

Pomalidomide is metabolized primarily by the liver. Following single dose administration, the AUC of pomalidomide increased 51%, 58%, and 72% in subjects with mild (Child-Pugh class A), moderate (Child-Pugh class B), and severe (Child-Pugh class C) hepatic impairment, respectively compared to subjects with normal liver function. Dose adjustment is recommended in patients with hepatic impairment [see Dosage and Administration (2.8) and Clinical Pharmacology (12.3)].

#### 8.8 Smoking Tobacco

Cigarette smoking reduces pomalidomide AUC due to CYP1A2 induction. Advise patients that smoking may reduce the efficacy of pomalidomide [see Clinical Pharmacology (12.3)].

#### **10 OVERDOSAGE**

Hemodialysis can remove pomalidomide from circulation.

#### 11 DESCRIPTION

Pomalidomide is a thalidomide analog. The chemical name is (RS)-4-Amino-2-(2,6-dioxopiperidin-3-yl)-isoindoline-1,3-dione and it has the following chemical structure:

The empirical formula for pomalidomide is  $C_{13}H_{11}N_3O_4$  and the gram molecular weight is 273.25.

Pomalidomide is a light yellow to yellow colored powder. It has limited to low solubility into organic solvents and it has low solubility in all pH solutions (about 0.01 mg/mL). Pomalidomide has a chiral carbon atom which exists as a racemic mixture of the R(+) and S(-) enantiomers.

Pomalidomide capsules are available in 1-mg, 2-mg, 3-mg, and 4-mg capsules for oral administration. Each capsule contains pomalidomide as the active ingredient and the following inactive ingredients: mannitol, pregelatinized starch, croscarmellose sodium and sodium stearyl fumarate.

The 1-mg capsule shell contains gelatin, titanium dioxide, FD&C blue 2, yellow iron oxide, white ink and black ink. The 2-mg capsule shell contains gelatin, FD&C Blue #2, titanium dioxide, iron oxide yellow, FD&C Red #3, and white ink. The 3-mg capsule shell contains gelatin, FD&C Blue #2, titanium dioxide, iron oxide yellow, and white ink. The 4-mg capsule shell contains gelatin, FD&C Blue #2, titanium dioxide, and white ink.

Black ink contains shellac, dehydrated alcohol, isopropyl alcohol, butyl alcohol, propylene glycol, strong ammonia solution, black iron oxide, potassium hydroxide, and purified water.

White ink contains Shellac, ethanol, isopropyl alcohol, n-butanol, propylene glycol, ammonia solution, purified water, potassium hydroxide, and titanium dioxide.

## 12 CLINICAL PHARMACOLOGY

#### 12.1 Mechanism of Action

Pomalidomide is an analogue of thalidomide with immunomodulatory, antiangiogenic, and antineoplastic properties. Cellular activities of pomalidomide are mediated through its target cereblon, a component of a cullin ring E3 ubiquitin ligase enzyme complex. In vitro, in the presence of drug, substrate proteins (including Aiolos and Ikaros) are

targeted for ubiquitination and subsequent degradation leading to direct cytotoxic and immunomodulatory effects. In *in vitro* cellular assays, pomalidomide inhibited proliferation and induced apoptosis of hematopoietic tumor cells. Additionally, pomalidomide inhibited the proliferation of lenalidomide-resistant multiple myeloma (MM) cell lines and synergized with dexamethasone in both lenalidomide-sensitive and lenalidomide-resistant cell lines to induce tumor cell apoptosis. Pomalidomide enhanced T cell- and natural killer (NK) cell-mediated immunity and inhibited production of proinflammatory cytokines (e.g., TNF- $\alpha$  and IL-6) by monocytes. Pomalidomide demonstrated anti-angiogenic activity in a mouse tumor model and in the in vitro umbilical cord model.

# 12.2 Pharmacodynamics

Pomalidomide exposure-response analyses showed that there was no relationship between systemic pomalidomide exposure level and efficacy or safety following pomalidomide dose of 4 mg.

#### Cardiac Electrophysiology

The QTc prolongation potential of pomalidomide was evaluated in a single center, randomized, double-blind crossover study (N=72) using 4 mg pomalidomide, 20 mg pomalidomide, placebo, and 400 mg moxifloxacin (positive control). No significant QTc prolongation effect of pomalidomide was observed following pomalidomide doses of 4 and 20 mg.

#### 12.3 Pharmacokinetics

In patients with MM who received pomalidomide 4 mg daily alone or in combination with dexamethasone, pomalidomide steady-state drug exposure was characterized by AUC (CV%) of 860 (37%) ng  $\bullet$  h/mL and  $C_{max}$  (CV%) of 75 (32%) ng/mL. In patients with Kaposi sarcoma (KS) who received pomalidomide 5 mg daily, pomalidomide steady-state drug exposure was characterized by AUC of 462.3 ng  $\bullet$  h/mL (82%) and  $C_{max}$  of 53.1 ng/mL (50%).

#### **Absorption**

Following administration of single oral doses of pomalidomide, the maximum plasma concentration ( $C_{max}$ ) for pomalidomide occurs at 2 to 3 hours postdose in patients with MM or KS.

#### Effect of Food

Co-administration of pomalidomide capsules with a high-fat meal (approximately 50% of the total caloric content) and high-calorie meal (approximately 800 to 1000 calories) (the meal contained approximately 150, 250, and 500 to 600 calories from protein, carbohydrates, and fat, respectively) delays the  $T_{\text{max}}$  by 2.5 hours, decreased mean plasma  $C_{\text{max}}$  and AUC in healthy subjects by about 27% and 8%, respectively.

#### Distribution

Pomalidomide has a mean apparent volume of distribution (Vd/F) between 62 and 138 L at steady state in patients with MM or KS.

Pomalidomide is distributed in semen of healthy subjects at a concentration of approximately 67% of plasma level at 4 hours postdose ( $\sim T_{max}$ ) after 4 days of 2 mg once-daily dosing.

Human plasma protein binding of pomalidomide ranges from 12% to 44% and is not concentration dependent. Pomalidomide is a substrate for P-gp.

## **Elimination**

Pomalidomide has a mean total body clearance (CL/F) of 7-10 L/h in patients with MM or KS. Pomalidomide is eliminated with a median plasma half-life of 9.5 hours in healthy subjects and 7.5 hours in patients with MM or KS.

Pomalidomide is primarily metabolized in the liver by CYP1A2 and CYP3A4. Minor contributions from CYP2C19 and CYP2D6 were also observed *in vitro*.

#### Excretion

Following a single oral administration of  $[^{14}C]$ -pomalidomide to healthy subjects, approximately 73% and 15% of the radioactive dose was eliminated in urine and feces, respectively, with approximately 2% and 8% of the radiolabeled dose eliminated unchanged as pomalidomide in urine and feces.

#### Specific Populations

Age (61 to 85 years old), sex and race have no clinically significant effect on the systemic exposure of pomalidomide.

# Patients with Renal Impairment

Pomalidomide pharmacokinetic parameters were not significantly affected in patients with moderate (30 mL/min  $\leq$  CLcr< 60 mL/min) or severe (15 mL/min  $\leq$  CLcr< 30 mL/min) renal impairment relative to patients with normal renal function (CLcr  $\geq$  60 mL/min). Mean exposure (AUC) to pomalidomide increased by 38% in patients with severe renal impairment requiring dialysis (CLcr< 30 mL/min requiring dialysis) and 40% in patients with end stage renal disease (CLcr< 15 mL/min) on non-dialysis days. In patients with severe renal impairment requiring dialysis, the estimated dialysis clearance is approximately 12 L/h which is higher than pomalidomide total body clearance, indicating hemodialysis will remove pomalidomide from the blood circulation.

#### Patients with Hepatic Impairment

Mean exposure (AUC) of pomalidomide increased by 51%, 58% and 72% in subjects with mild, moderate or severe hepatic impairment as defined by Child-Pugh criteria, respectively.

#### **Drug Interaction Studies**

#### Clinical Studies

Co-administration of pomalidomide with the following drugs did not increase pomalidomide exposure to a clinically significant extent: ketoconazole (a strong CYP3A4 and P-gp inhibitor), carbamazepine (a strong CYP3A4 inducer) and dexamethasone (a weak to moderate CYP3A4 inducer). Co-administration of pomalidomide capsules with drugs that are CYP1A2 inducers has not been studied.

CYP1A2 Inhibitors: Co-administration of fluvoxamine (a strong CYP1A2 inhibitor) with pomalidomide increased mean [90% confidence interval] pomalidomide exposure by 125% [98% to 157%] compared to pomalidomide alone in healthy subjects. Co-administration of fluvoxamine in the presence of ketoconazole (a strong CYP3A4 and P-gp inhibitor) with pomalidomide increased mean pomalidomide exposure by 146% [126% to 167%] compared to pomalidomide administered alone in healthy subjects, indicating the predominant effect of CYP1A2 inhibition in the increase of pomalidomide exposure [see Dosage and Administration (2.6) andDrug Interactions (7.1)].

Strong CYP3A4 and P-gp Inhibitors: Co-administration of ketoconazole (a strong CYP3A4 and P-gp inhibitor) in 16 healthy male subjects increased AUC of pomalidomide by 19% compared to pomalidomide administered alone.

Strong CYP1A2 Inducers: Co-administration of pomalidomide capsules with drugs that are CYP1A2 inducers has not been studied and may reduce pomalidomide exposure.

Strong CYP3A4 Inducers: Co-administration of carbamazepine to 16 healthy male subjects decreased AUC of pomalidomide by 20% with a 90% confidence interval [13% to 27%] compared to when pomalidomide was administered alone.

Dexamethasone: Co-administration of multiple doses of 4 mg pomalidomide capsules with 20 mg to 40 mg dexamethasone (a weak to moderate inducer of CYP3A4) to patients with MM had no effect on thepharmacokinetics of pomalidomide compared to when pomalidomide was administered alone.

*Smoking:* In 14 healthy male subjects who smoked 25 cigarettes per day for a total of 10 days, after single oral dose of 4 mg pomalidomide capsules,  $C_{\text{max}}$  of pomalidomide increased 14% while AUC of pomalidomide decreased 32%, compared to that in 13 healthy male subjects who were non-smokers.

In Vitro Studies

Pomalidomide does not inhibit or induce cytochrome p450 enzymes or transporters in vitro.

#### 13 NONCLINICAL TOXICOLOGY

# 13.1 Carcinogenesis, Mutagenesis, Impairment of Fertility

Studies examining the carcinogenic potential of pomalidomide have not been conducted. One of 12 monkeys dosed with 1 mg/kg of pomalidomide (an exposure approximately 15-fold of the exposure in patients at the recommended dose of 4 mg/day) developed acute myeloid leukemia in a 9-month repeat-dose toxicology study.

Pomalidomide was not mutagenic or clastogenic in a battery of tests, including the bacteria reverse mutation assay (Ames test), the in vitro assay using human peripheral blood lymphocytes, and the micronucleus test in orally treated rats administered doses up to 2000 mg/kg/day.

In a fertility and early embryonic development study in rats, drug-treated males were mated with untreated or treated females.

Pomalidomide was administered to males and females at doses of 25 to 1000 mg/kg/day. When treated males were mated with treated females, there was an increase in post-implantation loss and a decrease in mean number of viable embryos at all dose levels. There were no other effects on reproductive functions or the number of pregnancies. The lowest dose tested in animals resulted in an exposure (AUC) approximately 100-fold of the exposure in patients at the recommended dose of 4 mg/day. When treated males in this study were mated with untreated females, all uterine parameters were comparable to the controls. Based on these results, the observed effects were attributed to the treatment of females.

# **14 CLINICAL STUDIES**

# 14.1 Multiple Myeloma

# <u>Trial 1</u>

Trial 1 was a phase 2, multicenter, randomized open-label study in patients with relapsed multiple myeloma (MM) who were refractory to their last myeloma therapy and had received lenalidomide and bortezomib. Patients were considered relapsed if they had achieved at least stable disease for at least 1 cycle of treatment to at least 1 prior regimen and then developed progressive disease. Patients were considered refractory if they experienced disease progression on or within 60 days of their last therapy. A total of 221 patients were randomized to receive pomalidomide alone or pomalidomide with Low-dose Dex. In Trial 1, the safety and efficacy of pomalidomide 4 mg, once daily for 21 of 28 days, until disease progression, were evaluated alone and in combination with Low-dose Dex (40 mg/day given only on Days 1, 8, 15, and 22 of each 28-day cycle for patients aged 75 years or younger, or 20 mg/day given only on Days 1, 8, 15, and 22 of each 28-day cycle for patients aged greater than 75 years). Patients in the pomalidomide alone arm were allowed to add Low-dose Dex upon disease progression.

Table 7 summarizes the baseline patient and disease characteristics in Trial 1. The baseline demographics and disease characteristics were balanced and comparable between the study arms.

Table 7: Baseline Demographic and Disease-Related Characteristics - Trial 1



	(11-100)	(n=113)
Patient Characteristics		
Median age, years (range)	61 (37-88)	64 (34-88)
Age distribution, n (%)		
<65 years	65 (60.2)	60 (53.1)
≥65 years	43 (39.8)	53 (46.9)
Sex, n (%)		
Male	57 (52.8)	62 (54.9)
Female	51 (47.2)	51 (45.1)
Race/ethnicity, n (%)		
White	86 (79.6)	92 (81.4)
Black or African American	16 (14.8)	17 (15)
All other race	6 (5.6)	4 (3.6)
ECOG Performance, n (%)		
Status 0-1	95 (87.9)	100 (88.5)
Disease Characteristics		
Number of prior therapies		
Median (min, max)	5 (2, 12)	5 (2, 13)
Prior transplant, n (%)	82 (75.9)	84 (74.3)
Refractory to bortezomib and		
lenalidomide, n (%)	64 (59.3)	69 (61.1)
Data cutoff: 01 April 2011		

Table 8 summarizes the analysis results of overall response rate (ORR) and duration of response (DOR), based on assessments by the Independent Review Adjudication Committee for the treatment arms in Trial 1. ORR did not differ based on type of prior antimyeloma therapy.

Table 8: Trial 1 Results

	Pomalidomid <sup>a</sup> (n=108)	Pomalidomide + Low-dose Dex (n=113)
Response		
Overall Response Rate (ORR), <sup>b</sup> n (%)	8 (7.4)	33 (29.2)
95% CI for ORR (%)	(3.3, 14.1)	(21.0, 38.5)
Complete Response (CR), n (%)	0 (0.0)	1 (0.9)
Partial Response (PR), n (%)	8 (7.4)	32 (28.3)
<b>Duration of Response (DOR)</b>		
Median, months	NE	7.4
95% CI for DOR (months)	NE	(5.1, 9.2)

a Results are prior to the addition of dexamethasone.

#### Trial 2

Trial 2 was a Phase 3 multi-center, randomized, open-label study, where pomalidomide + Low-dose Dex therapy was compared to High-dose Dex in adult patients with relapsed and refractory MM, who had received at least two prior treatment regimens, including lenalidomide and bortezomib, and demonstrated disease progression on or within 60 days of the last therapy. Patients with creatinine clearance  $\geq 45$ mL/min qualified for the trial. A total of 455 patients were enrolled in the trial: 302 in the pomalidomide + Low-dose Dex arm and 153 in the High-dose Dex arm. Patients in the pomalidomide + Low-dose Dex arm were administered 4 mg pomalidomide orally on Days 1 to 21 of each 28-day cycle. Dexamethasone (40 mg) was administered once per day on Days 1, 8, 15

 $<sup>^{</sup>b}$  ORR = PR + CR per EBMT criteria.

CI, confidence interval; NE, not established (the median has not yet been reached). Data cutoff: 01 April 2011

and 22 of a 28-day cycle. Patients > 75 years of age started treatment with 20 mg dexamethasone using the same schedule. For the High-dose Dex arm, dexamethasone (40 mg) was administered once per day on Days 1 through 4, 9 through 12, and 17 through 20 of a 28-day cycle. Patients > 75 years of age started treatment with 20 mg dexamethasone using the same schedule. Treatment continued until patients had disease progression.

Baseline patient and disease characteristics were balanced and comparable between the study arms, as summarized in Table 9. Overall, 94% of patients had disease refractory to lenalidomide, 79% had disease refractory to bortezomib and 74% had disease refractory to both lenalidomide and bortezomib.

Table 9: Baseline Demographic and Disease-Related Characteristics - Trial 2

	Pomalidomide + Low-dose Dex (N=302)	
Patient Characteristics		
Median Age, years (range)	64 (35, 84)	65 (35, 87)
Age Distribution n (%) < 65 years ≥ 65 years	158 (52)	74 (48)
_ 00 years	144 (48)	79 (52)
Sex n (%) Male Female	181 (60) 121 (40)	87 (57) 66 (43)
Race/Ethnicity n (%) White Black or African American Asian Other Race Not Collected	244 (81) 4 (1) 4 (1) 2 (1) 48 (16)	113 (74) 3 (2) 0 (0) 2 (1) 35 (23)
ECOG Performance n (%) Status 0 Status 1 Status 2 Status 3 Missing	110 (36) 138 (46) 52 (17) 0 (0) 2 (1)	36 (24) 86 (56) 25 (16) 3 (2) 3 (2)
Disease Charac	teristics	
Number of Prior Therapies Median, (Min, Max)	5 (2, 14)	5 (2, 17)
Prior stem cell transplant n (%)	214 (71)	105 (69)
Refractory to bortezomib and lenalidomiden (%)	225 (75)	113 (74)

Data cutoff: 01March2013

Table 10 summarizes the progression free survival (PFS) and overall response rate (ORR) based on the assessment by the Independent Review Adjudication Committee (IRAC) review at the final PFS analysis and overall survival (OS) at the OS analysis. PFS was significantly longer with pomalidomide capsules + Low-dose Dex than High-dose Dex: HR 0.45 (95% CI: 0.35-0.59 p < 0.001). OS was also significantly longer with pomalidomide capsules + Low-dose Dex than High-dose Dex: HR 0.70 (95% CI: 0.54-0.92 p = 0.009). The Kaplan-Meier curves for PFS and OS for the ITT population are provided in Figures 1 and 2, respectively.

Table 10: Trial 2 Results

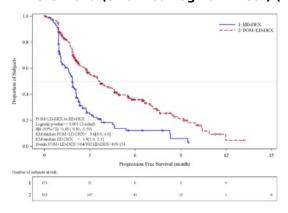
	Pomalidomide + Low-dose Dex (N=302)	High-dose Dex (N=153)	
Progression Free Survival Time			
Number (%) of events	164 (54.3)	103 (67.3)	
Median <sup>a</sup> (2-sided 95% CI) (months)	3.6 [3.0, 4.6]	1.8 [1.6, 2.1]	
Hazard Ratio (Pom+LD-Dex:HD-Dex)			
2-Sided 95% CI <sup>b</sup>	0.45 [0.	35, 0.59]	
Log-Rank Test 2-sided P-Value <sup>c</sup>	<0.	.001	
Overall Survival Time <sup>d</sup>			
Number (%) of deaths	147 (48.7)	86 (56.2)	
Median <sup>a</sup> (2-sided 95% CI) (months)	12.4 [10.4, 15.3]	8.0 [6.9, 9.0]	
Hazard Ratio (Pom+LD-Dex:HD-Dex) 2-Sided 95% CI <sup>e</sup>	0.70 [0.54, 0.92]		
Log-Rank Test 2-sided P-Value <sup>f, g</sup>	0.0	009	
Overall Response Rate, n (%)	71 (23.5)	6 (3.9)	
Complete Response	1 (0.3)	0	
Very Good Partial Response	8 (2.6)	1 (0.7)	
Partial Response	62 (20.5)	5 (3.3)	

Note: CI=Confidence interval; HD-Dex=High dose dexamethasone; IRAC=Independent Review Adjudication Committee; LD-Dex=Low dose dexamethasone.

Data cutoff: 07 Sep 2012 for PFS

Data cutoff: 01 Mar 2013 for OS and ORR

Figure 1: Progression Free Survival Based on IRAC Review of Response by IMWG Criteria (Stratified Log Rank Test) (ITT Population)



Data cut-off: 07 Sep 2012

Figure 2: Kaplan-Meier Curve of Overall Survival (ITT Population)

<sup>&</sup>lt;sup>a</sup> The median is based on Kaplan-Meier estimate.

<sup>&</sup>lt;sup>b</sup> Based on Cox proportional hazards model comparing the hazard functions associated with treatment groups, stratified by age ( $\leq$ 75 vs >75), diseases population (refractory to both Lenalidomide and Bortezomib vs not refractory to both drugs), and prior number of antimyeloma therapy (=2 vs >2), stratification factors for the trial.

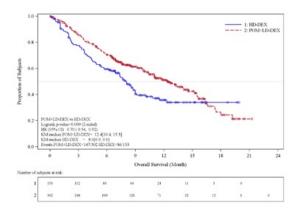
 $<sup>^{</sup>m c}$  The p-value is based on a stratified log-rank test with the same stratification factors as the above Cox model.

<sup>&</sup>lt;sup>d</sup> 53% of patients in the High-dose Dex arm subsequently received POMALYST.

<sup>&</sup>lt;sup>e</sup> Based on Cox proportional hazards model (unstratified) comparing the hazard functions associated with treatment groups.

f The p-value is based on an unstratified log-rank test.

g Alpha control for PFS and OS.



Data cut-off: 01 Mar 2013

#### 14.2 Kaposi Sarcoma

The clinical trial 12-C-0047 (NCT01495598), was an open label, single center, single arm clinical study that evaluated the safety and efficacy of pomalidomide capsules in patients with Kaposi sarcoma (KS). A total of 28 patients (18 HIV-positive, 10 HIV-negative) received pomalidomide capsules 5 mg orally once daily on Days 1 through 21 of each 28-day cycle until disease progression or unacceptable toxicity. All HIV-positive patients continued highly active antiretroviral therapy (HAART). The trial excluded patients with symptomatic pulmonary or visceral KS, history of venous or arterial thromboembolism, or procoagulant disorders. Patients received thromboprophylaxis with aspirin 81 mg once daily throughout therapy.

The median age was 52.5 years, all were male, 75% were White, and 14% Black or African American. Seventy- five percent of patients had advanced disease (T1) at the time of enrollment, 11% had  $\ge 50$  lesions, and 75% had received prior chemotherapy. The major efficacy outcome measure was overall response rate (ORR), which included complete response (CR), clinical complete response (cCR), and partial response (PR). Response was assessed by the investigator according to the AIDS Clinical Trial Group (ACTG) Oncology Committee response criteria for KS. The median time to first response was 1.8 months (0.9 to 7.6). Efficacy results are presented in Table 11.

Table 11: Trial 12-C-0047 Results

	All Patients N=28	HIV- Positive N=18	HIV- Negative N=10
ORR <sup>1</sup> , n (%) [95% CI]	20 (71) [51, 87]	12 (67) (41, 87)	8 (80) (44, 98)
CR <sup>1</sup> , n (%)	4 (14)	3 (17)	1 (10)
PR, n (%)	16 (57)	9 (50)	7 (70)
Duration of Response, KS <sup>2</sup> , Median in months [95% CI] <sup>3</sup>	12.1 [7.6, 16.8]	12.5 [6.5, 24.9]	10.5 [3.9, 24.2]
Duration of Response, KS (%) Percent greater		-	- · · · -
than	50	58	38
12 months Percent greater than 24 months	20	17	25

CI: confidence interval, ORR: overall response rate, CR: complete response, PR: partial response

<sup>&</sup>lt;sup>1</sup> CR includes one HIV-negative patient who achieved a cCR.

<sup>&</sup>lt;sup>2</sup> Calculated as date of first documented response to date of first documented disease progression, receipt of new treatment or second course of treatment, or death due to any cause, whichever occurs first. Median estimate is from Kaplan-Meier analysis.

<sup>&</sup>lt;sup>3</sup> From Kaplan-Meier analysis.

1. OSHA Hazardous Drugs. OSHA.

http://www.osha.gov/SLTC/hazardousdrugs/index.html

#### 16 HOW SUPPLIED/STORAGE AND HANDLING

Dark blue cap and yellow body printed with "NAT" with white ink on cap and "1mg" with black ink on body of the capsule

1 mg bottles of 21 (NDC 63850-0131-1) 1 mg bottles of 100 (NDC 63850-0131-2)

Dark blue cap and orange body printed with "NAT" with white ink on cap and "2mg" with white ink on body of the capsule

2 mg bottles of 21 (NDC 63850-0132-1) 2 mg bottles of 100 (NDC 63850-0132-2)

Dark blue cap and green body printed with "NAT" with white ink on cap and "3mg" with white ink on body of the capsule

3 mg bottles of 21 (NDC 63850-0133-1) 3 mg bottles of 100 (NDC 63850-0133-2)

Dark blue cap and blue body printed with "NAT" with white ink on cap and "4mg" with white ink on body of the capsule

4 mg bottles of 21 (NDC 63850-0134-1) 4 mg bottles of 100 (NDC 63850-0134-2)

Store at 20°C-25°C (68°F-77°F); excursions permitted to 15°C-30°C (59°F-86°F) [see USP Controlled Room Temperature].

Care should be exercised in handling of pomalidomide capsules. Do not open or crush pomalidomide capsules. If powder from pomalidomide capsules contacts the skin, wash the skin immediately and thoroughly with soap and water. If pomalidomide capsules contacts the mucous membranes, flush thoroughly with water.

Follow procedures for proper handling and disposal of hazardous drugs. 1

## 17 PATIENT COUNSELING INFORMATION

Advise the patient to read the FDA-approved patient labeling (Medication Guide).

# **Embryo-Fetal Toxicity**

Advise patients that pomalidomide capsules are contraindicated in pregnancy [see Contraindications (4)]. Pomalidomide capsules are a thalidomide analogue and may cause serious birth defects or death to a developing baby [see Warnings and Precautions (5.1) and Use in Specific Populations (8.1)].

- Advise females of reproductive potential that they must avoid pregnancy while taking pomalidomide capsules and for at least 4 weeks after completing therapy.
- Initiate pomalidomide capsules treatment in females of reproductive potential only following a negative pregnancy test.
- Advise females of reproductive potential of the importance of monthly pregnancy
  tests and the need to use 2 different forms of contraception, including at least 1
  highly effective form, simultaneously during pomalidomide capsules therapy, during
  dose interruptions, and for 4 weeks after she has completely finished taking
  pomalidomide capsules. Highly effective forms of contraception other than tubal
  ligation include IUD and hormonal (birth control pills, injections, patch, or implants)
  and a partner's vasectomy. Additional effective contraceptive methods include latex
  or synthetic condom, diaphragm, and cervical cap.
- Instruct patient to immediately stop taking pomalidomide capsules and contact her

healthcare provider if she becomes pregnant while taking this drug, if she misses her menstrual period or experiences unusual menstrual bleeding, if she stops taking birth control, or if she thinks FOR ANY REASON that she may be pregnant.

- Advise patient that if her healthcare provider is not available, she should call the REMS Call Center at 1-888-423-5436 [see Warnings and Precautions (5.1) and Use in Specific Populations (8.3)].
- Advise males to always use a latex or synthetic condom during any sexual contact
  with females of reproductive potential while taking pomalidomide capsules and for up
  to 4 weeks after discontinuing pomalidomide capsules, even if they have undergone a
  successful vasectomy.
  - Advise male patients taking pomalidomide capsules that they must not donate sperm [see Warnings and Precautions (5.1) and Use in Specific Populations (8.3)].
- All patients must be instructed to not donate blood while taking pomalidomide capsules and for 4 weeks following discontinuation of pomalidomide capsules [see Warnings and Precautions (5.1)].

#### PS-Pomalidomide REMS

Because of the risk of embryo-fetal toxicity, pomalidomide capsules are only available through a restricted program called PS-Pomalidomide REMS [see Warnings and Precautions (5.2)].

- Patients must sign a Patient-Physician Agreement Form and comply with the
  requirements to receive pomalidomide capsules. In particular, females of
  reproductive potential must comply with the pregnancy testing, contraception
  requirements, and participate in monthly telephone surveys. Males must comply with
  the contraception requirements [see Use in Specific Populations (8.3)].
- Pomalidomide capsules are available only from pharmacies that are certified in PS-Pomalidomide REMS. Provide patients with the telephone number and website for information on how to obtain the product.

## Pregnancy Exposure Registry

Inform females that there is a Pregnancy Exposure Registry that monitors pregnancy outcomes in females exposed to pomalidomide capsules during pregnancy and that they can contact the Pregnancy Exposure Registry by calling 1-888-423-5436 [see Use in Specific Populations (8.1)].

## Venous and Arterial Thromboembolism

Inform patients of the risk of developing DVT, PE, MI, and stroke and to report immediately any signs and symptoms suggestive of these events for evaluation [see Warnings and Precautions (5.3)].

#### Hematologic Toxicities

Inform patients on the risks of developing neutropenia, thrombocytopenia, and anemia and the need to report signs and symptoms associated with these events to their healthcare provider for further evaluation [see Warnings and Precautions (5.5)].

# <u>Hepatotoxicity</u>

Inform patients on the risks of developing hepatotoxicity, including hepatic failure and death, and to report signs and symptoms associated with these events to their healthcare provider for evaluation [see Warnings and Precautions (5.6)].

#### Severe Cutaneous Reactions

Inform patients of the potential risk for severe skin reactions such as SJS, TEN and DRESS and to report any signs and symptoms associated with these reactions to their healthcare provider for evaluation [see Warnings and Precautions (5.7)].

# **Dizziness and Confusional State**

Inform patients of the potential risk of dizziness and confusional state with the drug, to avoid situations where dizziness or confusional state may be a problem, and not to take other medications that may cause dizziness or confusional state without adequate medical advice [see Warnings and Precautions (5.8)].

# **Neuropathy**

Inform patients of the risk of neuropathy and to report the signs and symptoms associated with these events to their healthcare provider for further

evaluation [see Warnings and Precautions (5.9)].

#### Second Primary Malignancies

Inform the patient that the potential risk of developing acute myelogenous leukemia during treatment with pomalidomide capsules is unknown [see Warnings and Precautions (5.10)].

Tumor Lycic Cyn

#### Tumor Lysis Syndrome

Inform patients of the potential risk of tumor lysis syndrome and to report any signs and symptoms associated with this event to their healthcare provider for evaluation [see Warnings and Precautions (5.11)].

#### Hypersensitivity

Inform patients of the potential for severe hypersensitivity reactions such as angioedema and anaphylaxis to pomalidomide capsules. Instruct patients to contact their healthcare provider right away for any signs and symptoms of these reactions. Advise patients to seek emergency medical attention for signs or symptoms of severe hypersensitivity reactions [see Warnings and Precautions (5.12)].

#### **Smoking Tobacco**

Advise patients that smoking tobacco may reduce the efficacy of pomalidomide capsules [see Use in Specific Populations (8.8) and Clinical Pharmacology (12.3)].

#### **Dosing Instructions**

Inform patients on how to take pomalidomide capsules [see Dosage and Administration (2.2, 2.3, 2.9)]

- Pomalidomide capsules should be taken once daily at about the same time each day.
- Patients on hemodialysis should take pomalidomide capsules following hemodialysis, on hemodialysis days.
- Pomalidomide capsules may be taken with or without food.
- The capsules should not be opened, broken, or chewed. Pomalidomide capsules should be swallowed whole with water.
  - Instruct patients that if they miss a dose of pomalidomide capsules, they may still take it up to 12 hours after the time they would normally take it.
- If more than 12 hours have elapsed, they should be instructed to skip the dose for that day. The next day, they should take pomalidomide capsules at the usual time. Warn patients not to take 2 doses to make up for the one that they missed.

#### Manufactured by:

Natco Pharma Limited Parawada – 531 019, India.

Revised: November 2025

#### MEDICATION GUIDE

Pomalidomide (poe"-ma-lid'-oh-mide) capsules

# What is the most important information I should know about pomalidomide capsules?

Before you begin taking pomalidomide capsules, you must read and agree to all of the instructions in PS-Pomalidomide REMS. For more information, call 1-888-423-5436 or go to www.PS-PomalidomideREMS.com. Before prescribing pomalidomide capsules, your healthcare provider will explain PS-

Pomalidomide REMS to you and have you sign the Patient-Physician Agreement Form.

Pomalidomide capsules can cause serious side effects including:

Possible birth defects (deformed babies) or death of an unborn baby.
 Females who are pregnant or who plan to become pregnant must not take pomalidomide capsules.

Pomalidomide capsules are similar to the medicine thalidomide (THALOMID).

We know thalidomide can cause severe life- threatening birth defects. Pomalidomide

capsules have not been tested in pregnant females. Pomalidomide capsules have harmed unborn animals in animal testing.

#### Females must not get pregnant:

- For at least 4 weeks before starting pomalidomide capsules
- While taking pomalidomide capsules
- During any breaks (interruptions) in your treatment with pomalidomide capsules
- For at least 4 weeks after stopping pomalidomide capsules

#### Females who can become pregnant:

• Will have pregnancy tests weekly for 4 weeks, then every 4 weeks if your menstrual cycle is regular, or every 2 weeks if your menstrual cycle is irregular.

If you miss your period or have unusual bleeding, you will need to have a pregnancy test and receive counseling.

- Must agree to use two acceptable forms of birth control at the same time, for at least 4 weeks before, while taking, during any breaks (interruptions) in your treatment, and for at least 4 weeks after stopping pomalidomide capsules.
- Talk with your healthcare provider to find out about options for acceptable forms of birth control that you may use to prevent pregnancy before, during, and after treatment with pomalidomide capsules.

If you become pregnant while taking pomalidomide capsules, stop taking it right away and call your healthcare provider. If your healthcare provider is not available, you can call the REMS Call Center at 1-888-423-5436.

Healthcare providers and patients should report all cases of pregnancy to:

- FDA MedWatch at 1-800-FDA-1088, and
- REMS Call Center at 1-888-423-5436

There is a pregnancy exposure registry that monitors the outcomes of females who take pomalidomide capsules during pregnancy, or if their male partner takes pomalidomide capsules and they are exposed during pregnancy. You can enroll in this registry by calling the REMS Call Center at the phone number listed above.

#### Pomalidomide can pass into human semen:

- Males, including those who have had a vasectomy, must always use a latex or synthetic condom during any sexual contact with a pregnant female or a female that can become pregnant while taking pomalidomide capsules, during any breaks (interruptions) in your treatment with pomalidomide capsules, and for 4 weeks after stopping pomalidomide capsules.
- Do not have unprotected sexual contact with a female who is or could become pregnant. Tell your healthcare provider if you do have unprotected sexual contact with a female who is or could become pregnant.
- Do not donate sperm while taking pomalidomide capsules, during any breaks (interruptions) in your treatment, and for 4 weeks after stopping pomalidomide capsules. If a female becomes pregnant with your sperm, the baby may be exposed to pomalidomide capsules and may be born with birth defects.

# Men, if your female partner becomes pregnant, you should call your healthcare provider right away.

 Blood clots in your arteries, veins, and lungs, heart attack, and stroke can happen if you take pomalidomide capsules. Most people who take pomalidomide capsules will also take a blood thinner medicine to help prevent blood clots. Before taking

pomalidomide capsules, tell your healthcare provider:

- If you have had a blood clot in the past
- If you have high blood pressure, smoke, or if you have been told you have a high level of fat in your blood (hyperlipidemia)
- About all the medicines you take. Certain other medicines can also increase your risk for blood clots
   Call your healthcare provider or get medical help right away if you get any of the following during treatment with pomalidomide capsules:
- Signs or symptoms of a blood clot in the lung, arm, or leg may include: shortness of breath, chest pain, or arm or leg swelling
- **Signs or symptoms of a heart attack may include:** chest pain that may spread to the arms, neck, jaw, back, or stomach area (abdomen), feeling sweaty, shortness of breath, feeling sick or vomiting
- Signs or symptoms of stroke may include: sudden numbness or weakness, especially on one side of the body, severe headache or confusion, or problems with vision, speech, or balance.

#### What are pomalidomide capsules?

**Pomalidomide** capsules are a prescription medicine used to treat adults with:

- **Multiple myeloma.** Pomalidomide capsules are taken along with the medicine dexamethasone, in people who:
  - have received at least 2 prior medicines to treat multiple myeloma, including a type of medicine known as a proteasome inhibitor and lenalidomide, and
  - their disease has become worse during treatment or within 60 days of finishing the last treatment.
- **AIDS-related Kaposi sarcoma (KS).** Pomalidomide capsules are taken when highly active antiretroviral therapy (HAART) has not worked well enough or stopped working (failed).
- KS who do not have HIV infection (HIV negative).

It is not known if pomalidomide capsules are safe and effective in children.

# Who should not take pomalidomide capsules?

Do not take pomalidomide capsules if you:

- are pregnant, plan to become pregnant, or become pregnant during treatment with pomalidomide capsules. See "What is the most important information I should know about pomalidomide capsules?"
- are allergic to pomalidomide or any of the ingredients in pomalidomide capsules. See
  the end of this Medication Guide for a complete list of ingredients in
  pomalidomide capsules.

# What should I tell my healthcare provider before taking pomalidomide capsules?

Before you take pomalidomide capsules, tell your healthcare provider if you:

- smoke cigarettes. Pomalidomide capsules may not work as well in people who smoke
- have liver problems
- have kidney problems and are receiving hemodialysis treatment
- have any other medical conditions
- are breastfeeding. You should not breastfeed during treatment with pomalidomide capsules. It is not known if pomalidomide passes into your breast milk and can harm your baby.

# **Tell your healthcare provider about all the medicines you take**, including prescription and over-the-counter

medicines, vitamins, and herbal supplements. Pomalidomide capsules and other medicines may affect each other, causing serious side effects. Talk with your healthcare provider before taking any new medicines.

Know the medicines you take. Keep a list of them to show your health care provider and pharmacist.

#### How should I take pomalidomide capsules?

- Take pomalidomide capsules exactly as prescribed and follow all the instructions of PS-Pomalidomide REMS.
- Swallow pomalidomide capsules whole with water 1 time a day. **Do not break, chew, or open your capsules**.
- Pomalidomide capsules may be taken with or without food.
- Take pomalidomide capsules at about the same time each day.
- If you are on hemodialysis, take pomalidomide capsules after hemodialysis, on hemodialysis days.
- Do not open the pomalidomide capsules or handle them any more than needed. If you touch a broken pomalidomide capsule or the medicine in the capsule, wash the area of your body right away with soap and water.
- If you miss a dose of pomalidomide capsules and it has been less than 12 hours since your regular time, take it as soon as you remember. If it has been more than 12 hours, just skip your missed dose. Do not take 2 doses at the same time.
- If you take too much pomalidomide capsules, call your healthcare provider right away.

#### What should I avoid while taking pomalidomide capsules?

- See "What is the most important information I should know about pomalidomide capsules?"
- Females: Do not get pregnant and do not breastfeed while taking pomalidomide capsules.
- Males: Do not donate sperm.
- Do not share pomalidomide capsules

with other people. It may cause birth defects and other serious problems.

- Do not donate blood while you take pomalidomide capsules, during any breaks (interruptions) in your treatment, and for 4 weeks after stopping pomalidomide capsules. If someone who is pregnant gets your donated blood, her baby may be exposed to pomalidomide capsules and may be born with birth defects.
- Pomalidomide capsules
   can cause dizziness and confusion. Avoid taking other medicines that may cause dizziness and
   confusion during treatment with pomalidomide
   capsules. Avoid situations that require you to be alert until you know how
   pomalidomide capsules affects you.

#### What are the possible side effects of pomalidomide capsules? Pomalidomide capsules can cause serious side effects, including:

- See "What is the most important information I should know about pomalidomide capsules?
- Low white blood cells (neutropenia), low platelets (thrombocytopenia), and low red blood cells (anemia) are common with pomalidomide capsules, but can also be serious. You may need a blood transfusion or certain medicines if your blood counts drop too low. Your blood counts should be checked weekly for the first 8 weeks of treatment and monthly after that.
- Severe liver problems, including liver failure and death. Your healthcare provider should do blood tests to check your liver function during your treatment with pomalidomide capsules. Tell your healthcare provider right away if you develop any of the following symptoms of liver problems:
  - Yellowing of your skin or the white part of your eyes (jaundice)
  - Dark or brown (tea-colored) urine
  - Pain on the upper right side of your stomach area (abdomen)
  - Bleeding or bruising more easily than normal
  - Feeling very tired
- Severe allergic reactions and severe skin reactions can happen with pomalidomide capsules and may cause death.

# Call your healthcare provider if you develop any of the following signs or symptoms during treatment with pomalidomide capsules:

- a red. itchv. skin rash
- peeling of your skin or blisters
- severe itching
- fever

# Get emergency medical help right away if you develop any of the following signs or symptoms during treatment with pomalidomide capsules:

- swelling of your lips, mouth, tongue, or throat
- a very fast heartbeat
- trouble breathing or swallowing
- you feel dizzy or faint
- raised red areas on your skin (hives)
- Dizziness and confusion. See "What should I avoid while taking pomalidomide capsules?"
- **Nerve damage.** Stop taking pomalidomide capsules and call your healthcare provider if you develop symptoms of nerve damage including: numbness, tingling, pain, burning sensation in your hands, legs, or feet.
- Risk of new cancers (malignancies). New cancers, including certain blood cancers (acute myelogenous leukemia or AML) have been seen in people who received pomalidomide capsules. Talk with your healthcare provider about your risk of developing new cancers if you take pomalidomide capsules.
- Tumor lysis syndrome (TLS). TLS is caused by the fast breakdown of cancer cells. TLS can cause kidney failure and the need for dialysis treatment, abnormal heart rhythm, seizure, and sometimes death. Your healthcare provider may do blood tests to check you for TLS.

Your healthcare provider may tell you to stop taking pomalidomide capsules if you develop certain serious side effects during treatment.

The most common side effects of pomalidomide capsules in people with Multiple Myeloma include:

- tiredness and weakness
- diarrhea
- back pain
- constipation
- shortness of breath
- fever
- nausea
- upper respiratory tract infection

The most common side effects of pomalidomide capsules in people with KS include:

- tiredness
- nausea
- diarrhea
- constipation
- abnormal kidney function tests
- increased blood sugar
- decreased phosphate and calcium in the blood
- decreased albumin in the blood
- rash. See "Severe allergic reactions and severe skin reactions" above.

These are not all the possible side effects of pomalidomide capsules.

Call your doctor for medical advice about side effects. You may report side effects to FDA at 1-800-FDA-1088.

# How should I store pomalidomide capsules?

- Store pomalidomide capsules at room temperature between 68°F to 77°F (20°C to 25°C).
- Return any unused pomalidomide capsules to PS-Pomalidomide REMS by calling 1-888-423-5436 or your healthcare provider.

# Keep pomalidomide capsules and all medicines out of the reach of children.

# General information about the safe and effective use of pomalidomide capsules

Medicines are sometimes prescribed for purposes other than those listed in a Medication Guide. Do not take pomalidomide capsules for conditions for which it was not prescribed. Do not give pomalidomide capsules to other people, even if they have the same symptoms you have. It may harm them and may cause birth defects.

If you would like more information, talk with your healthcare provider. You can ask your healthcare provider or pharmacist for information about pomalidomide capsules that is written for health professionals.

For more information, call 1-888-423-5436 or go to www.PS-PomalidomideREMS.com.

# What are the ingredients in pomalidomide capsules?

Active ingredient: pomalidomide

**Inactive ingredients**: mannitol, pregelatinized starch, croscarmellose sodium and sodium stearyl fumarate.

The 1-mg capsule shell contains gelatin, titanium dioxide, FD&C blue 2, yellow iron oxide, white ink and Black ink. The 2-mg capsule shell contains gelatin, FD&C blue #2, titanium dioxide, iron oxide yellow, FD&C red #3, and white ink. The 3-mg capsule shell contains gelatin, FD&C blue #2, titanium dioxide, iron oxide yellow, and white ink. The 4-mg capsule shell contains gelatin, FD&C Blue #2, titanium dioxide, and white ink. Black ink contains shellac, dehydrated alcohol, Isopropyl alcohol, butyl alcohol, propylene glycol, strong ammonia solution, black iron oxide, potassium hydroxide, and purified water.

White ink contains shellac, ethanol, isopropyl alcohol, n-butanol, propylene glycol, ammonia solution, purified water, potassium hydroxide, and titanium dioxide.

Manufactured by: Natco Pharma Limited Parawada – 531 019. India. This Medication Guide has been approved by the U.S. Food and Drug Administration.

Revised: November 2025

#### PACKAGE LABEL.PRINCIPAL DISPLAY PANEL

#### NDC 63850-0131-1

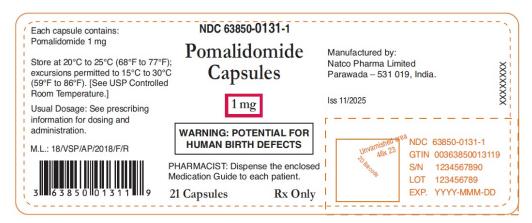
Pomalidomide capsules

1 mg

WARNING: POTENTIAL FOR HUMAN BIRTH DEFECTS.

Rx only 21 Capsules

#### **Bottle Label**



#### NDC 63850-0131-2

Pomalidomide capsules

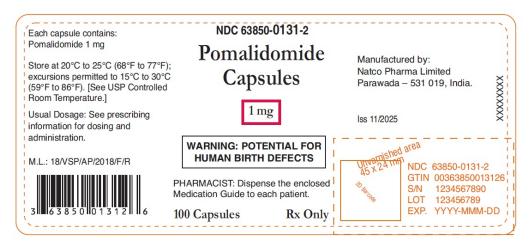
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WARNING: POTENTIAL FOR HUMAN BIRTH DEFECTS.

Rx only

100 Capsules

#### **Bottle Label**



#### PACKAGE LABEL.PRINCIPAL DISPLAY PANEL

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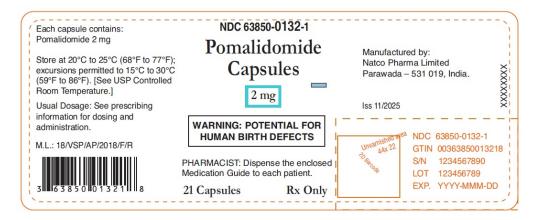
Pomalidomide capsules

2 mg

**WARNING: POTENTIAL FOR HUMAN BIRTH DEFECTS.** 

Rx only 21 Capsules

#### **Bottle Label**



#### NDC 63850-0132-2

Pomalidomide capsules

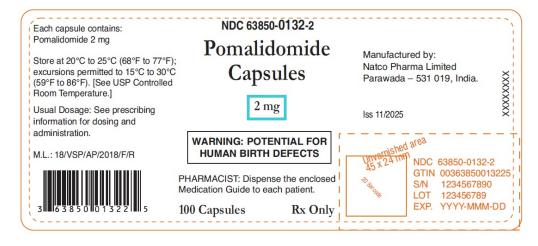
2 mg

WARNING: POTENTIAL FOR HUMAN BIRTH DEFECTS.

Rx only

100 Capsules

#### **Bottle Label**



# PACKAGE LABEL.PRINCIPAL DISPLAY PANEL

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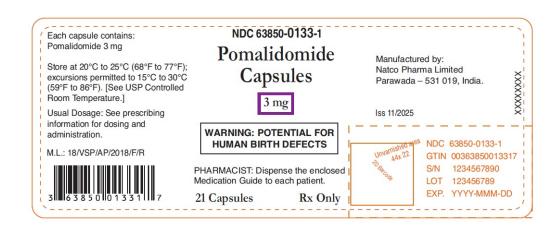
Pomalidomide capsules

3 mg

WARNING: POTENTIAL FOR HUMAN BIRTH DEFECTS.

Rx only 21 Capsules

**Bottle Label** 



#### NDC 63850-0133-2

Pomalidomide capsules

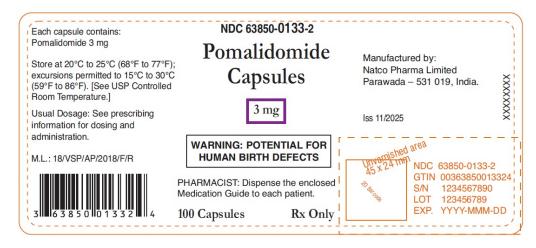
3 mg

WARNING: POTENTIAL FOR HUMAN BIRTH DEFECTS.

Rx only

100 Capsules

#### **Bottle Label**



#### PACKAGE LABEL.PRINCIPAL DISPLAY PANEL

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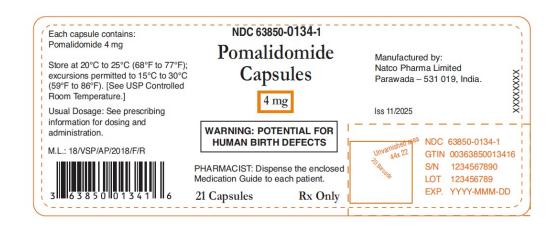
Pomalidomide capsules

4 mg

**WARNING:** POTENTIAL FOR HUMAN BIRTH DEFECTS.

Rx only 21 Capsules

**Bottle Label** 



#### NDC 63850-0134-2

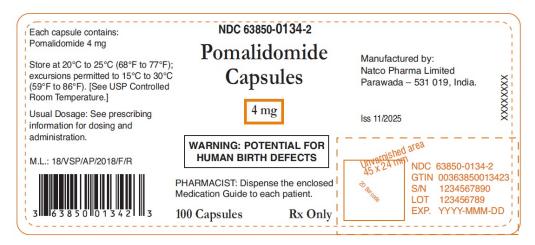
Pomalidomide capsules

4 mg

WARNING: POTENTIAL FOR HUMAN BIRTH DEFECTS.

Rx only 100 Capsules

#### **Bottle Label**



#### **POMALIDOMIDE** pomalidomide capsule **Product Information Product Type** HUMAN PRESCRIPTION DRUG Item Code (Source) NDC:63850-0131 **Route of Administration** ORAL **Active Ingredient/Active Moiety Ingredient Name Basis of Strength** Strength POMALIDOMIDE (UNII: D2UX06XLB5) (POMALIDOMIDE - UNII:D2UX06XLB5) POMAL IDOMIDE 1 mg **Inactive Ingredients Ingredient Name** Strength GELATIN, UNSPECIFIED (UNII: 2G86QN327L) TITANIUM DIOXIDE (UNII: 15FIX9V2JP) FERRIC OXIDE YELLOW (UNII: EX43802MRT) **Product Characteristics** YELLOW (BLUE) Color Score no score CAPSULE Size Shape 14mm

Flavor	Imprint Code	NAT;1mg
Contains		

Packaging				
# Item Code	Package Description	Marketing Start Date	Marketing End Date	
NDC:63850- 0131-1	21 in 1 BOTTLE; Type 0: Not a Combination Product	11/01/2025		
NDC:63850- 0131-2	100 in 1 BOTTLE; Type 0: Not a Combination Product	11/01/2025		

Marketing Information			
Marketing Category	Application Number or Monograph Citation	Marketing Start Date	Marketing End Date
ANDA	ANDA210111	11/01/2025	

# **POMALIDOMIDE**

pomalidomide capsule

#### **Product Information**

 Product Type
 HUMAN PRESCRIPTION DRUG
 Item Code (Source)
 NDC:63850-0132

 Route of Administration
 ORAL

# **Active Ingredient/Active Moiety**

 Ingredient Name
 Basis of Strength
 Strength

 POMALIDOMIDE (UNII: D2UX06XLB5) (POMALIDOMIDE - UNII:D2UX06XLB5)
 POMALIDOMIDE
 2 mg

Strength

# Inactive Ingredients Ingredient Name

GELATIN, UNSPECIFIED (UNII: 2G86QN327L)

TITANIUM DIOXIDE (UNII: 15FIX9V2JP)

FERRIC OXIDE YELLOW (UNII: EX43802MRT)

## **Product Characteristics**

 Color
 ORANGE (BLUE)
 Score
 no score

 Shape
 CAPSULE
 Size
 18mm

 Flavor
 Imprint Code
 NAT;2mg

 Contains

#### **Packaging**

#	Item Code	Package Description	Marketing Start Date	Marketing End Date
1	NDC:63850- 0132-1	21 in 1 BOTTLE; Type 0: Not a Combination Product	11/01/2025	
2	NDC:63850- 0132-2	100 in 1 BOTTLE; Type 0: Not a Combination Product	11/01/2025	

# **Marketing Information**

Marketing	Application Number or Monograph	Marketing Start	Marketing End
Category	Citation	Date	Date
ANDA	ANDA210111	11/01/2025	

# **POMALIDOMIDE**

pomalidomide capsule

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Product Type HUMAN PRESCRIPTION DRUG Item Code (Source) NDC:63850-0133

**Route of Administration** 

ORAL

Activo	Ingredient	/Activo	Majoty
ACLIVE	marealent	/ACLIVE	MOIETA

ı	,		
	Ingredient Name	<b>Basis of Strength</b>	Strength
I	POMALIDOMIDE (UNII: D2UX06XLB5) (POMALIDOMIDE - UNII:D2UX06XLB5)	POMALIDOMIDE	3 mg

**Inactive Ingredients** 

Ingredient Name	Strength		
GELATIN, UNSPECIFIED (UNII: 2G86QN327L)			
TITANIUM DIOXIDE (UNII: 15FIX9V2JP)			
FERRIC OXIDE YELLOW (UNII: EX43802MRT)			

**Product Characteristics** 

Color	GREEN (BLUE)	Score	no score
Shape	CAPSULE	Size	18mm
Flavor		Imprint Code	NAT;3mg
Contains			

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P	Packaging					
#	Item Code	Package Description	Marketing Start Date	Marketing End Date		
1	NDC:63850- 0133-1	21 in 1 BOTTLE; Type 0: Not a Combination Product	11/01/2025			
2	NDC:63850- 0133-2	100 in 1 BOTTLE; Type 0: Not a Combination Product	11/01/2025			

# **Marketing Information**

Marketing Category	Application Number or Monograph Citation	Marketing Start Date	Marketing End Date
ANDA	ANDA210111	11/01/2025	

# **POMALIDOMIDE**

pomalidomide capsule

<b>Prod</b>	uct	Infor	mation

Product Type	HUMAN PRESCRIPTION DRUG	Item Code (Source)	NDC:63850-0134
Route of Administration	ORAL		

Route of Administration ORAL

# **Active Ingredient/Active Moiety**

Ingredient Name	Basis of Strength	Strength
POMALIDOMIDE (UNII: D2UX06XLB5) (POMALIDOMIDE - UNII:D2UX06XLB5)	POMALIDOMIDE	4 mg

**Inactive Ingredients** 

Ingredient Name	Strength
GELATIN, UNSPECIFIED (UNII: 2G86QN327L)	
TITANIUM DIOXIDE (UNII: 15FIX9V2JP)	
FERRIC OXIDE YELLOW (UNII: EX43802MRT)	

Product Characteristics

Product Characteristics				
Color	BLUE (BLUE)	Score	no score	
Shape	CAPSULE	Size	18mm	
Flavor		Imprint Code	NAT;4mg	
Contains				

**Packaging** 

#	Item Code	Package Description	Marketing Start Date	Marketing End Date
1	NDC:63850- 0134-1	21 in 1 BOTTLE; Type 0: Not a Combination Product	11/01/2025	
2	NDC:63850- 0134-2	100 in 1 BOTTLE; Type 0: Not a Combination Product	11/01/2025	

Marketing Information							
Marketing Category	Application Number or Monograph Citation	Marketing Start Date	Marketing End Date				
ANDA	ANDA210111	11/01/2025					

# Labeler - Natco Pharma Limited (650224736)

Establishment							
Name	Address	ID/FEI	Business Operations				
NATCO PHARMA LIMITED		675484209	MANUFACTURE(63850-0131, 63850-0132, 63850-0133, 63850-0134)				

Revised: 11/2025 Natco Pharma Limited